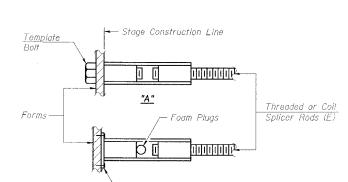
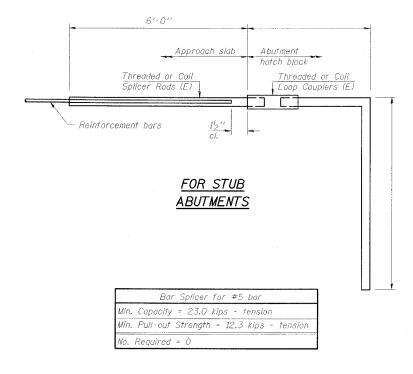
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



<u>"B"</u> INSTALLATION AND SETTING METHODS

Washer Face

"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.



TOTAL SINCETS SHEET NO. 16 FAP 132 SALINE 114 58

16 SHEETS

<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 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

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:

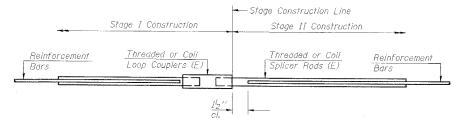
(Tension in Kips)

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

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

A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

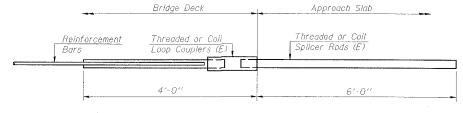
	0.40, 004.5							
BAR SPLICER ASSEMBLIES								
Bar Size to	Splicer Rod or Dowel Bar Length	Strength Requirements						
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension					
#4	1'-8''	14.7	7.9					
#5	2′-0′′	23.0	12.3					
#6	2'-7"	33.1	17.4					
#7	3′-5″	45.1	23.8					
#8	4′-6′′	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			
#4	124	Concrete Wearing Surfac			

BAR SPLICER ASSEMBLY DETAILS IL 34/145 OVER SOUTH FORK SALINE RIVER FAP ROUTE 132 - SECTION 1BR-2 SALINE COUNTY STATION 235+10.00 STRUCTURE NO. 083-0019



1111111

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

is the same as the diameter of the bar spliced.

The diameter of this part is

equal or larger than the diameter of bar spliced.

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar							
Min.	Capacity	= 23.0	kips -	- tensi	ווכ		
Min.	Pull-out	Strength	= 12	.3 kips	-	tension	

