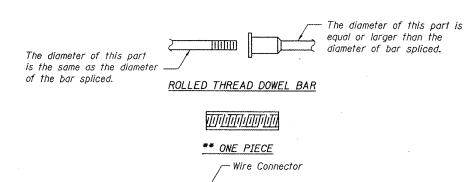
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

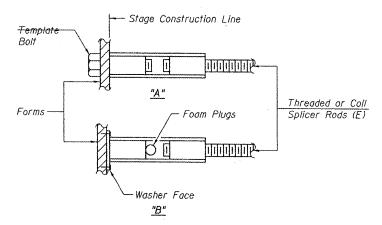


BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

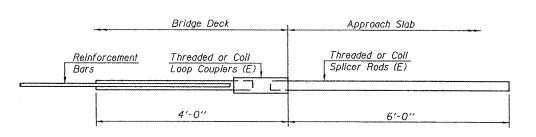
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** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	S	plicer	for	#5	bar	
Min.	Capacity	=	23.0	kips	-	tension	
Min.	Pull-out	St.	rength	= .	12.3	kips -	tension
No.	Required	=	66				

DESIGNED	CTW	
CHECKED	CDL	
DRAWN	DP	
CHECKED	CTW	
BSD-1		11-1-06

6'-0" Approach slab A but ment hatch block Threaded or Coil Threaded or Coil Loop Couplers (E) Splicer Rods (E) Reinforcement bars FOR STUB **ABUTMENTS** Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =

SHEET NO. 16 65-BR WOODFORD 39 19 SHEETS PED ROAD DIST. NO. 7 ILLINOIS PED AID

Contract # 68530

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:

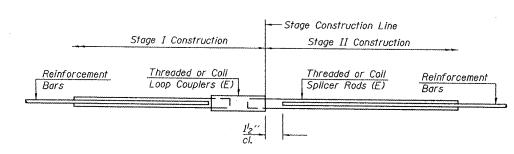
Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

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							
Day Cime 4.	C	Strength Requirements					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	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

BAR SPLICER ASSEMBLY DETAILS F.A.S. ROUTE 1360 SEC. 65-BR IL ROUTE 251 OVER PANTHER CREEK WOODFORD COUNTY STATION 1116+87.00 STRUCTURE NO. 102-0081

EFK Moen, LLC