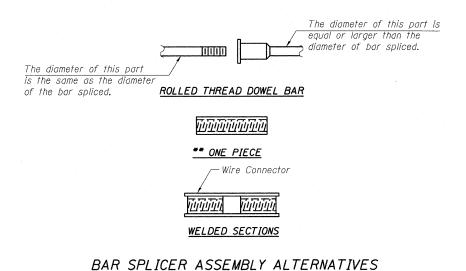
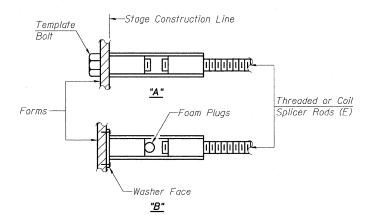
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



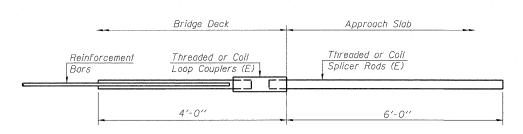
**Heavy Hex Nuts conforming to ASTM

A 563, Grade C, D or DH may be used.

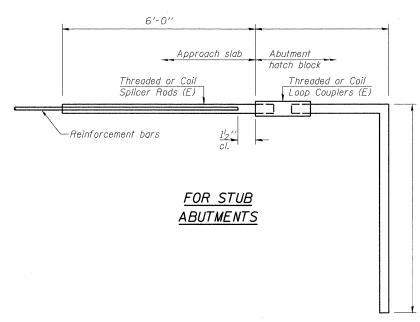


INSTALLATION AND SETTING METHODS

"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





CHECKED TRELLO DRAWN VERENSKI CHECKED TRELLO

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 62

> Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension Vo. Required =

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:

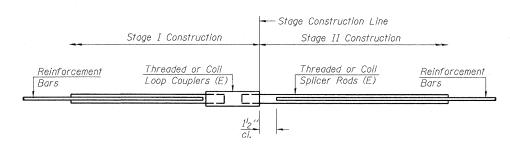
Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

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

Bar Size	No. Assemblies Required	Location
Party and the same of the same		

BAR SPLICER ASSEMBLY DETAILS F.A.S. ROUTE 454 SECTION 04-00070-00-BR SCHUYLER COUNTY STATION 4+79.00 S.N. 085-3055

SHEET NO.15	SHEET NO.15	F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	01.221 7,0110	454	04-00070-00-BR	SCHUYLER	30	23
	17 SHEETS		CONTRACT	NO. 9	3499	
		FED. RC	DAD DIST. NO ILLINOIS FED. A	ID PROJECT		

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