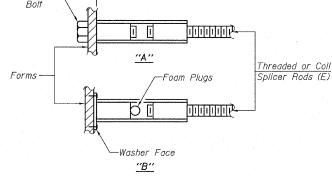


A 563, Grade C, D or DH may be used.



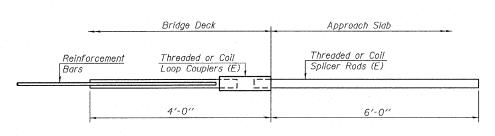
---Stage Construction Line

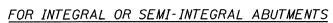
Template

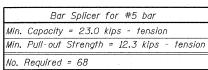
INSTALLATION AND SETTING METHODS

"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.







DESIGNED - P.S.L.

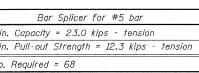
CHECKED - M.D.C.

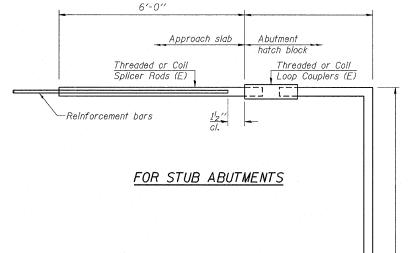
5-16-08

DRAWN

CHECKED

BSD-1





Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strenati	h = 12.3	KiDS -	tension

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:

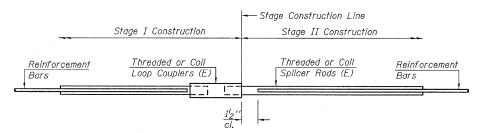
Minimum Capacity = 1.25 x fy x A_t

(Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = 0.66 x fy x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	. <u> </u>						
BAR SPLICER ASSEMBLIES							
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements					
			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	276	Deck
#6	18	Diaphragms
#7	20	Abutments

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 029-0066

HAMPTON, LENZINI & RENWICK, INC.

CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400

SHEET NO.18 20 SHEETS

TOTAL SHEET SHEETS NO. F.A.P. COUNTY SECTION (144 - B)BR FULTON 67 34 IL 116 OVER LITTLERS CREEK CONTRACT NO. 68091 FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT