Stage Construction Line

Threaded or Coil

Splicer Rods (E)

Rolt

Forms-

CONTRACT NO. 705

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.

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

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

* = 28 day concrete

BAR SPLICER ASSEMBLIES					
	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		

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

reinforcement bars.

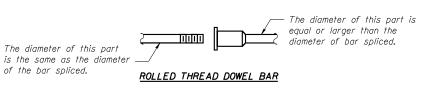
bar splicer assembly satisfies the following requirements:

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

(Tension III Kips)
Minimum *Pull-out Strength = 0.66 x fy x A, (Tension in kips)

 A_t = Tensile stress area of lapped reinforcement bars.

	BAR SPLIC	ER ASSEMBLI	ES
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** ONE PIECE Wire Connector WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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

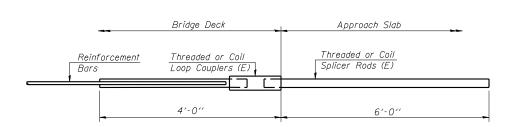
<u>"B"</u> INSTALLATION AND SETTING METHODS

Washer Face

<u>"A"</u>

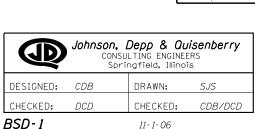
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

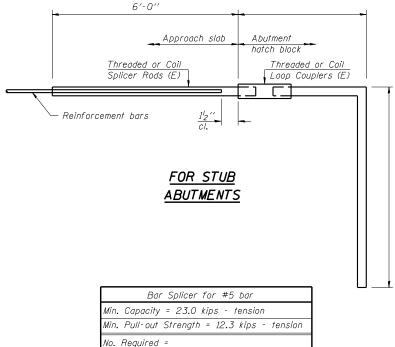
Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min, Pull-out Strength = 12.3 kips - tension
No. Required = 64

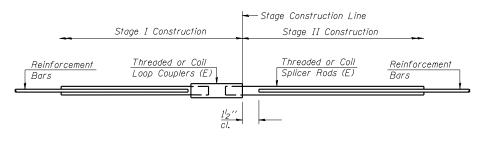


11-1-06

The diameter of this part

of the bar spliced.





STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS FAP 693 (IL 9) OVER WEST FORK SUGAR CREEK FAP ROUTE 693 SECTION 120B MCLEAN COUNTY STATION 1209+03.00 STRUCTURE NO. 057-0242