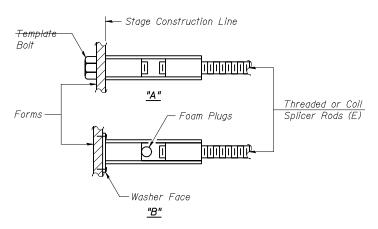


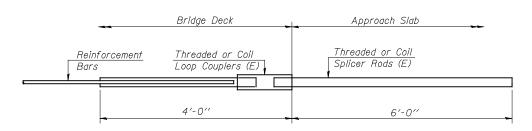
BAR SPLICER ASSEMBLY ALTERNATIVES

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



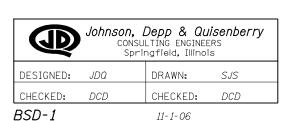
INSTALLATION AND SETTING METHODS

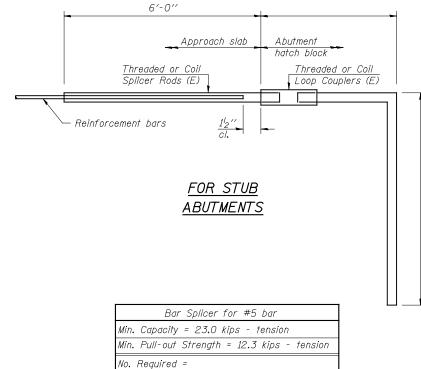
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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





 A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete BAR SPLICER ASSEMBLIES Strength Requirements Splicer Rod or Bar Size to Min. Capacity | Min. Pull-Out Strength be Spliced Dowel Bar Length kips - tension kips - tension 1'-8'' 14.7 7.9 12.3 #5 2'-0" 23.0 17.4 33.1 #6 23.8 #7 3'-5" 45.1

58.9

75.0

95.0

117.4

31.3

39.6

50.3

61.8

NOTES Bar splicer assemblies shall be of an approved type and shall develop in tension at least

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

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

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

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

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

4'-6"

5'-9'

7'-3"

9'-0"

125 percent of the yield strength of the lapped reinforcement bars.

bar splicer assembly satisfies the following requirements: Minimum Capacity = $1.25 \times fy \times A_t$

(Tension in kips)

#8

#9

#10

#11

reinforcement bars.

Stage Construction Line Stage II Construction Stage I Construction Threaded or Coil Threaded or Coil Reinforcement Reinforcement Loop Couplers (E) Splicer Rods (E) Bars Bars

STANDARD

Bar Size	No. Assemblies Required	Location
#4	149	Wearing Surf.
#6	2	W. Abut.
#6	2	E. Abut.

BAR SPLICER ASSEMBLY DETAILS

ILLINOIS 10 OVER MADDEN CREEK FAP ROUTE 721 SECTION (115BR-1)BR PIATT COUNTY STATION 1210+89.58 STRUCTURE NO. 074-0005