

Contract #88753

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:

- sembly surface:

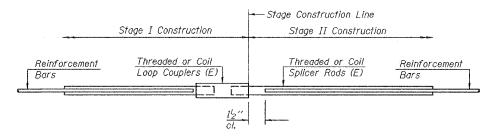
 Minimum Capacity $\frac{1}{100} = 1.25 \times \text{fy } \times \text{A}_t$
- (lension iii kipo) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t (Tension in kips)

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

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

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	5.9	
#5	2'-0''	23.0	9.2	
#6	2'-7''	33.1	<i>13.3</i>	
#7	3′-5′′	45.1	18.0	
#8	4'-6"	58.9	23. 6	
#9	5′-9′′	75.0	30.0	
#10	7′-3′′	95.0	38.0	
#11	9'-0''	117.4	46.8	

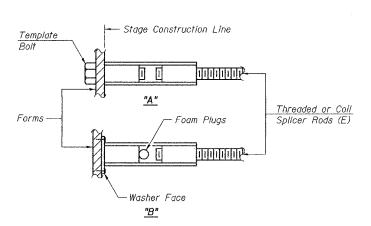
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS F.A.P. ROUTE 315 - SECTION (18BRY-1)BR FULTON COUNTY STATION 64+99.00 STRUCTURE NO. 029-0067



BAR SPLICER ASSEMBLY ALTERNATIVES

The diameter of this part is

equal or larger than the

diameter of bar spliced.

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

ROLLED THREAD DOWEL BAR

** ONE PIECE

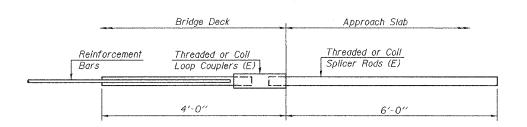
WELDED SECTIONS

-Wire Connector

INSTALLATION AND SETTING METHODS

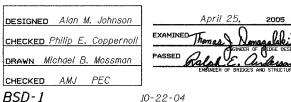
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

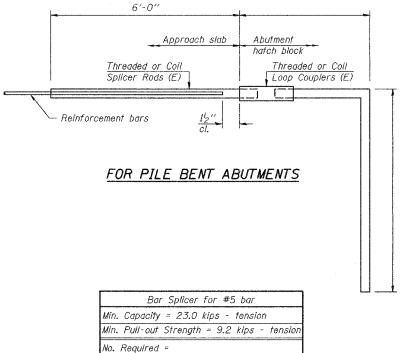
Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tension Required = 80



The diameter of this part

of the bar spliced.

is the same as the diameter



10-22-04