



20 SHEETS

Contract #98886

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:

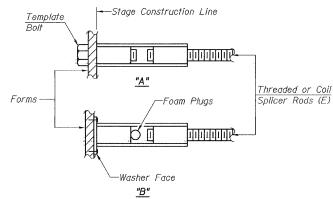
Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = 0.66 x fy x A₁

(Tension in kips) Where fy = Yield strength of lapped reinforcement bars in ksi.

 \dot{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. 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	<i>23.</i> 8		
#8	4'-6"	58.9	31.3		
#9	:5'-9"	75.0	39.6		
#10	7′-3′′	95.0	50.3		
# <u>11</u>	9′-0′′	117.4	61.8		



BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

** ONE PIECE

-Wire Connector

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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.

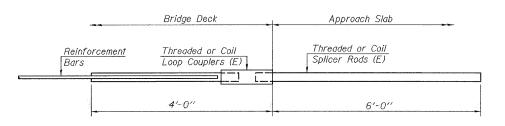
The diameter of this part

of the bar spliced.

is the same as the diameter

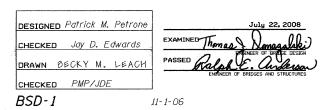
INSTALLATION AND SETTING METHODS

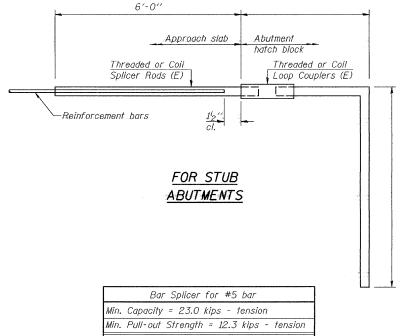
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



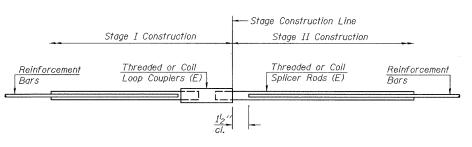
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 80





No. Required =



STANDARD

 Bar Size	No. Assemblies Required	Location
#5	143	Superstructur
#6	6	Diaphragm
#6	8	N. Abutment
#6	8	S. Abutment

BAR SPLICER ASSEMBLY DETAILS F.A.P. ROUTE 322 - SECTION 12-1, BR UNION CO. STATION 801+60.00 STRUCTURE NO. 091-0022