

CONTRACT NO. 87325

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.

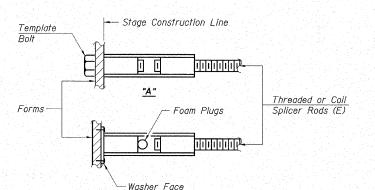
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity = 1.25 x fy x A_t

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

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

	BAR SPLIC	ER ASSEMBLI	ES
	Splicer Rod or Dowel Bar Length	Strength Requirements	
Bar Size to be Spliced			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



BAR SPLICER ASSEMBLY ALTERNATIVES

ROLLED THREAD DOWEL BAR

** ONE PIECE

WELDED SECTIONS

Wire Connector

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

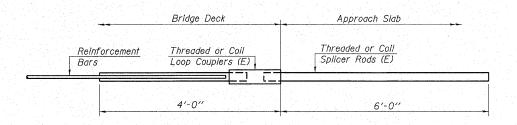
of the bar spliced.

is the same as the diameter

INSTALLATION AND SETTING METHODS

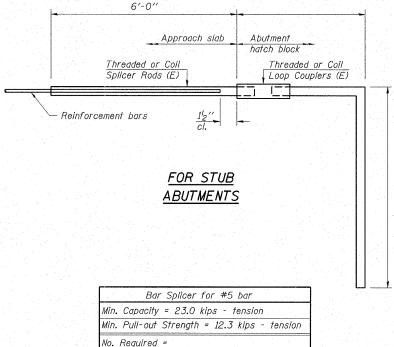
<u>"B"</u>

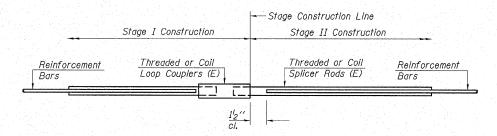
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



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 = 82





STANDARD

Bar Size	No. Assemblies Required	Location



BAR SPLICER DETAILS SECTION 96-00044-00-BR FOX RIVER DRIVE / C.H. 15 KENDALL COUNTY STRUCTURE NO. 047-3150 / STATION 49+62