





#### 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.

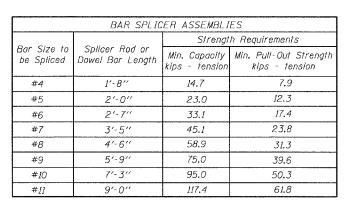
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

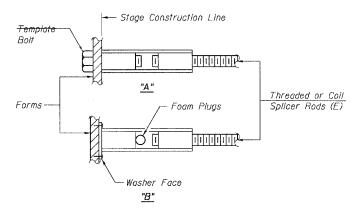
Minimum Capacity (Tension in kips) = 1.25 x fy x  $A_t$ 

Minimum \*Pull-out Strength = 0.66 x fy x A<sub>f</sub>

(Tension in kips)

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





### BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

\*\* ONE PIECE

-Wire Connector

- The diameter of this part is

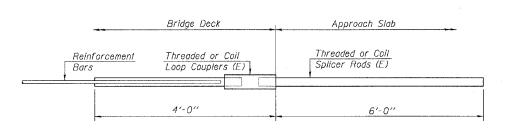
equal or larger than the

diameter of bar spliced.

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

## 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

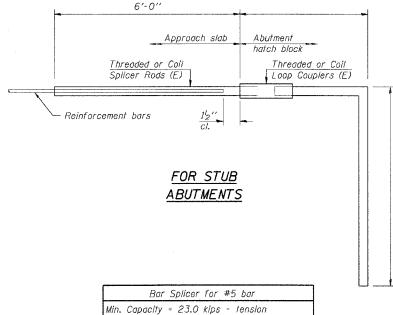
Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =

DESIGNED GPM CHECKED BRT DRAWN GPM CHECKED BRT BSD-1 11-1-06

The diameter of this part

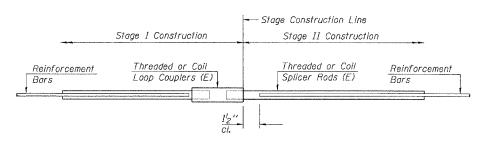
of the bar spliced.

is the same as the diameter



Min. Pull-out Strength = 12.3 kips - tension

No. Required =



### STANDARD

Bar Size	No. Assemblies Required	Location
#4	44	Conc. W.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION

### BAR SPLICER ASSEBLY DETAILS

IL-84 OVER A DRAINAGE DITCH FAP ROUTE 308 SECTION (104-BY-1BR)D CARROLL COUNTY STATION 566+38 STRUCTURE NO. 008-0016

SCALE: NONE DATE 10/10/07