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

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

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

All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

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

y - Tensile stress area of lapped reinforcement bars. * = 28 day concrete

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

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

bar splicer assembly satisfies the following requirements: Minimum Capacity (Tension in kips) = 1.25 x fy x A,

Stage I Construction

Threaded or Coil

Loop Couplers (E)

(Tension in kips)

reinforcement bars.

SHEET 9 OF 9

COUNTY TOTAL SHEE SHEETS NO. 60-10B MADISON 156 116 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 7685

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



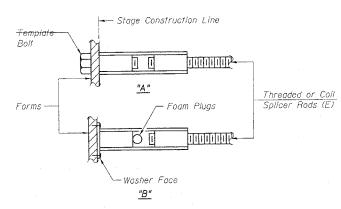
ROLLED THREAD DOWEL BAR

** ONE PIECE Wire Connector

BAR SPLICER ASSEMBLY ALTERNATIVES

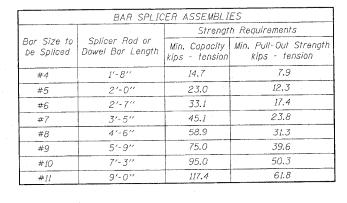
WELDED SECTIONS

** 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.



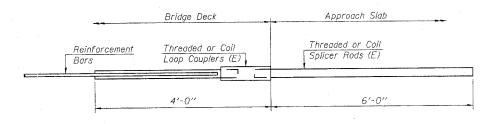
-- Stage Construction Line

Stage II Construction

Reinforcement

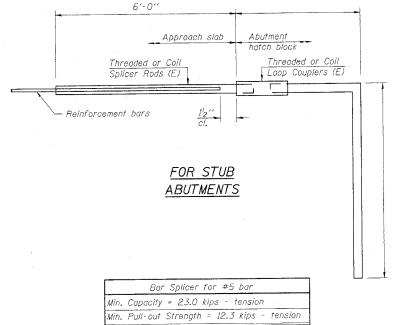
Threaded or Coil

Splicer Rods (E)

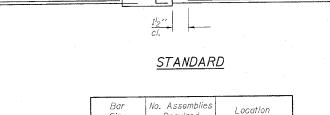


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar Splicer for #5 bar
Min.	Capacity = 23.0 kips - tension
Min.	Pull-out Strength = 12.3 kips - tension



No. Required =



Bar Size	No. Assemblies Required	Location
#5	20	Slab
#6	8	Backwall

BAR SPLICER ASSEMBLY DETAILS

FAI 70 (WB) OVER WENDELL BRANCH FAI ROUTE 70 SECTION 60-10B MADISON COUNTY STATION 996+66.15 STRUCTURE NO. 060-0024

(ID)	8 CO1	Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois			
DESIGNED:	CDB	DRAWN:	P. Ray		
CHECKED:	DCD	CHECKED:	CDB/DCD		
BSD-1		11-1-06			