

**STANDARD BAR SPLICER ASSEMBLY**

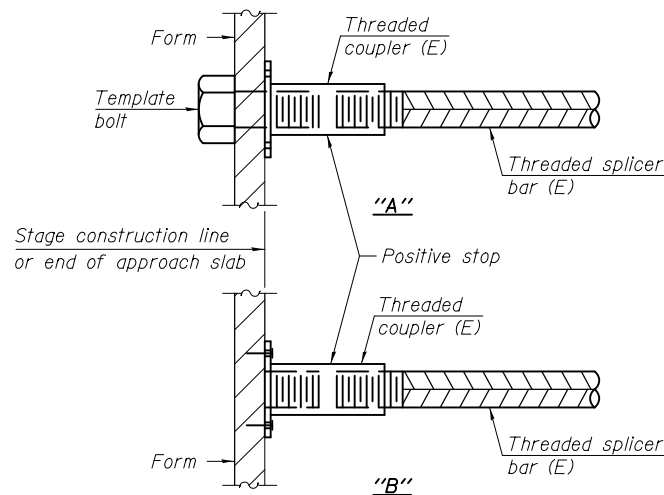
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar lap, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

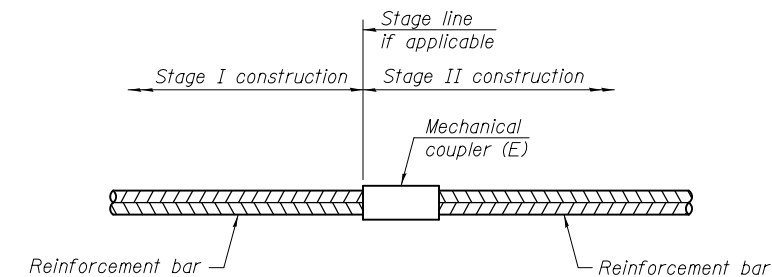
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck - Top Mat	#5	564	5
Deck - Bottom Mat	#5	314	3
Diaphragm - Corbel	#6	8	4
Diaphragm - Back Face	#6	12	4
Diaphragm - Front Face	#6	8	4
Diaphragm - Front Face	#6	4	4
Approach - Top Mat	#6	100	3
Approach - Bottom Mat	#5	184	3
Approach - Footing	#5	160	3
Westbound W. Abut.	#7	14	4
Westbound E. Abut.	#7	14	4
Eastbound W. Abut.	#7	14	4
Eastbound E. Abut.	#7	14	4
Westbound Pier 1 - Webwalls	#5	108	4
Westbound Pier 1 - Cap	#5	6	4
Westbound Pier 1 - Cap	#7	4	4
Westbound Pier 1 - Cap	#8	7	4
Westbound Pier 2 - Webwalls	#5	108	4
Westbound Pier 2 - Cap	#5	6	4
Westbound Pier 2 - Cap	#7	4	4
Westbound Pier 2 - Cap	#8	7	4
Eastbound Pier 1 - Webwalls	#5	108	4
Eastbound Pier 1 - Cap	#5	6	4
Eastbound Pier 1 - Cap	#7	4	4
Eastbound Pier 1 - Cap	#8	7	4
Eastbound Pier 2 - Webwalls	#5	108	4
Eastbound Pier 2 - Cap	#5	6	4
Eastbound Pier 2 - Cap	#7	4	4
Eastbound Pier 2 - Cap	#8	7	4



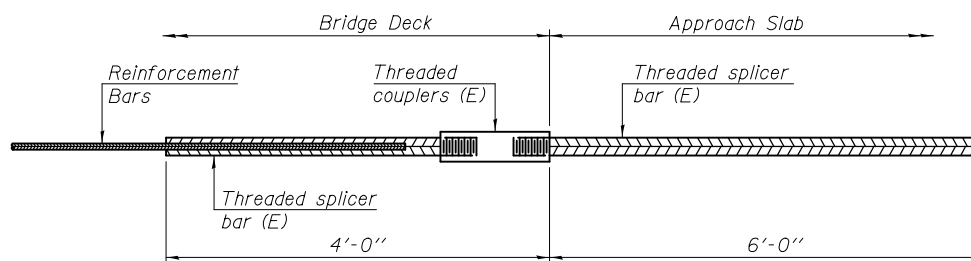
**INSTALLATION AND SETTING METHODS**

"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.



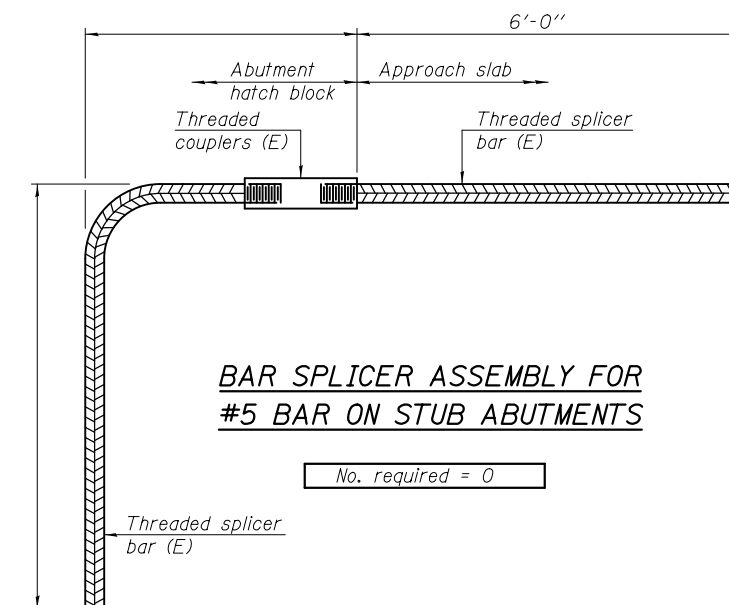
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 192



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 0

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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DESIGNED -	BJM	REVISED -	
CHECKED -	MWS	REVISED -	
DRAWN -	MWS	REVISED -	
CHECKED -	BJM	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 081-0194 (E.B.) & NO. 081-0195 (W.B.)

SHEET NO. 33 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74/280	81-3BR	ROCK ISLAND	290	196
CONTRACT NO. 64D23				
ILLINOIS FED. AID PROJECT				