

## 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

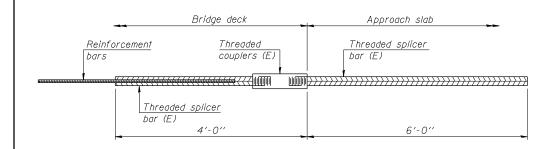
Table 5: Epoxy bar, Class C

Table 6: Epoxy bar, Top bar lap, Class C

Threaded splicer bar length = min. lap length +  $l_{2}^{\prime\prime}$  + thread length

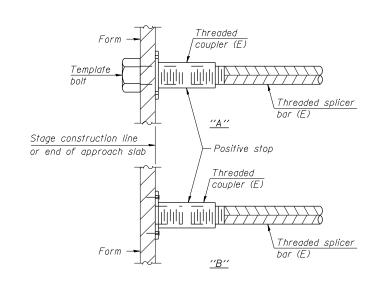
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Approach slabs	#4	50	3
Approach slabs	#5	92	3
Approach footings	#5	80	3
Top bridge slab	#5	67	4
Bottom bridge slab	#5	110	3
Abutments	#7	22	4
Pier caps	#7	14	4
Pier walls	#5	24	3



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

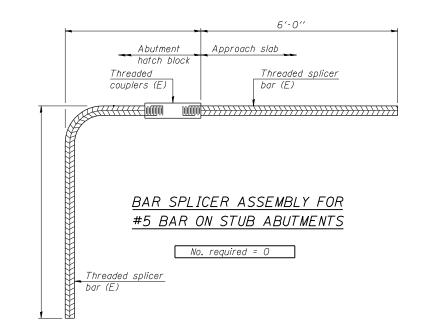
## No. required = O



## INSTALLATION AND SETTING METHODS

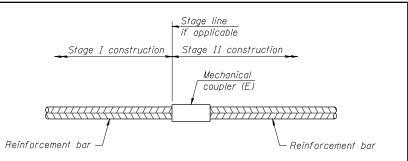
"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.





BSD-1	1-27-12										
ESCA CONBULTANTIS, INC.	USER NAME = has	DESIGNED - SHL	. 12/12	REVISED -		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL S	HEET NO.
CONSULTANTS, INC.	ESCA PROJECT NO. 988.12	CHECKED - RDF	P 03/13	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 097–0078		112B-1	POPE	56	41
	PLOT SCALE = 0:2 ':' / IN.	DRAWN - HAS	5 12/12	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 782	230
	PLOT DATE = 8/2/2013 11:41:29 AM	1 CHECKED - RDF	P 06/13	REVISED -		SHEET NO. 19 OF 21 SHEETS		ILLINOIS FED.	AID PROJECT AID		



## STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required			
NA					

NOT<u>ES</u>

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.