

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 top, Class C

Threaded splicer bar length = min. lap length + l_2'' + thread length

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

Location	Bar	No. assemblies	Table for minimum	
LOCATION	size	required	lap length	
Top of Slab	#5	128	Table 3	
Bottom of Slab	#5	90	Table 3	
East Diaphragm	#6	8	Table 5	
West Diaphragm	#6	8	Table 5	
East Approach	#4	25	Table 4	
East Approach	#5	86	Table 3	
West Approach	#4	25	Table 4	
West Approach	#5	86	Table 3	
East Abutment	#7	10	Table 4	
West Abutment	#7	10	Table 4	



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

No. required = 76



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.



alternatives.

	BSD-1	1-27-12							
Farnsworth		DESIGNED - TCR	REVISED		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET	
GROUP, INC.		CHECKED - JML	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 027–0101		19BR	FORD 61 41	
2709 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1571 fax		DRAWN - JWK	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 66A12	
309/663-8435, 309/663-1571 fax	DATE - 8/10/12	CHECKED - MSW	REVISED		SHEET NO. B19 OF 30 SHEETS	ILLINOIS		ED. AID PROJECT	



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required			

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