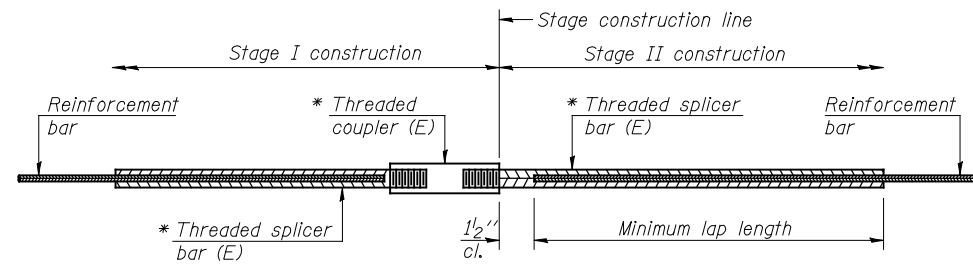


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

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

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

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

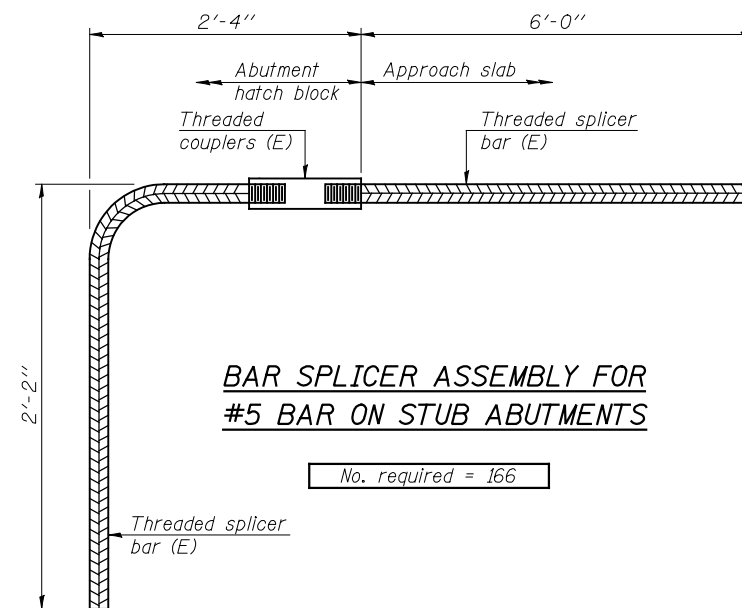
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck Slab	#5	986	3
Deck End Diaph.	#9	10	3
Appr. Slab	#4	48	3
Appr. Slab	#5	90	3
Appr. Slab Footing	#5	80	3
Abut. Backwall	#5	16	3
Abut. Backwall	#6	10	3
Abut. Footing	#5	10	3
Abut. Footing	#7	24	3
Pier Cap	#5	16	3
Pier Cap	#9	16	3
Pier Crashwall	#5	30	3
Pier Footing	#5	40	3

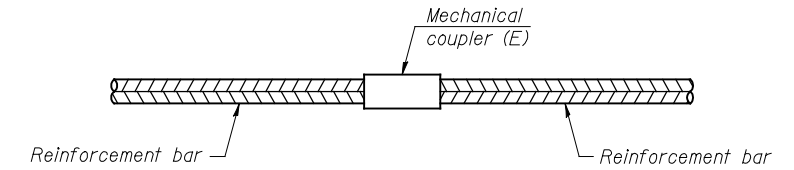
NOTES

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 special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS



No. required = 166

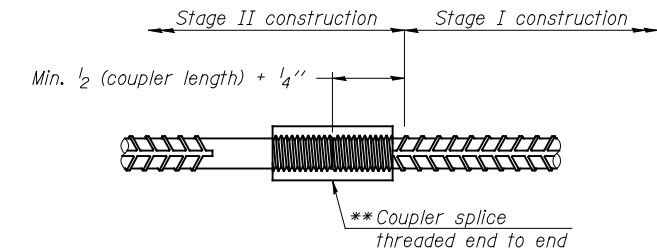
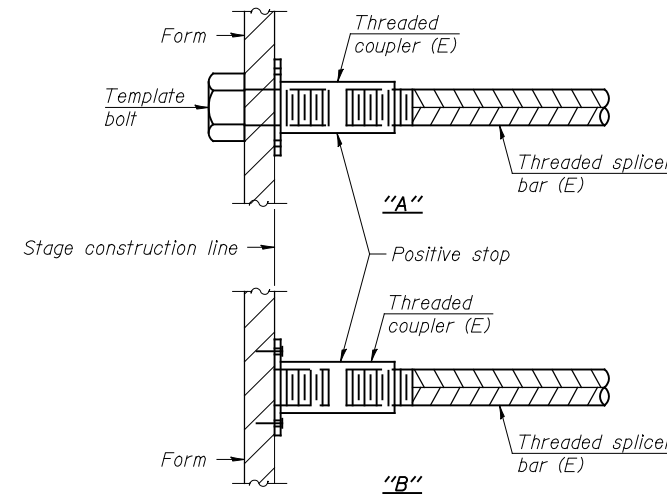


STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier Columns	#8	120

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 and cementing to steel forms.
(E) : Indicates epoxy coating.



DETAIL A

** The bar splicer assembly shall utilize splice bars with the threaded ends oversized to ensure no reduction in cross sectional area after threading and be designed to allow completion of the splice without turning either of the splice bars.

#9 BAR SPLICER ASSEMBLY FOR EDGE BEAMS AT STAGE CONSTRUCTION JOINT

No. required = 6

JD Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED: CMV	DRAWN: SJS
CHECKED: DCD	CHECKED: CMV/DCD

BSD-1 11-1-09 (Modified)

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 057-0250**

SHEET 25 OF 27	F.A.I. RTE. 55	SECTION (57-7HB-1)BR	COUNTY MCLEAN	TOTAL SHEETS 153	SHEET NO. 75
	STA. 626+53.70		CONTRACT NO. 70520		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

FILE: J:\JDO\10169 IL-D5 1-55NB McLeon\1-55NB-174EB-0570250-70520-025-bar splicer.dgn

USER: DCD

SAVE DATE: 8/6/2010

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