

STANDARD BAR SPLICER ASSEMBLY

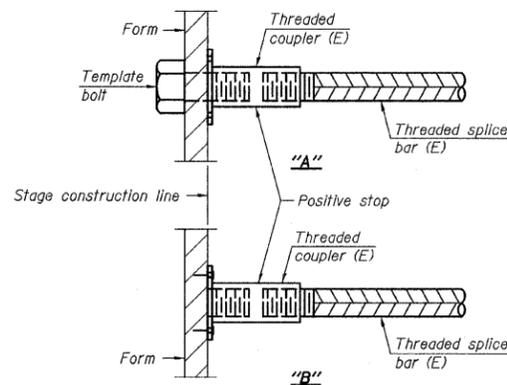
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- 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, Top bar lap, Class B

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

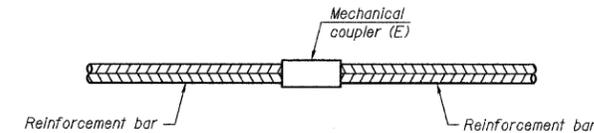
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



INSTALLATION AND SETTING METHODS

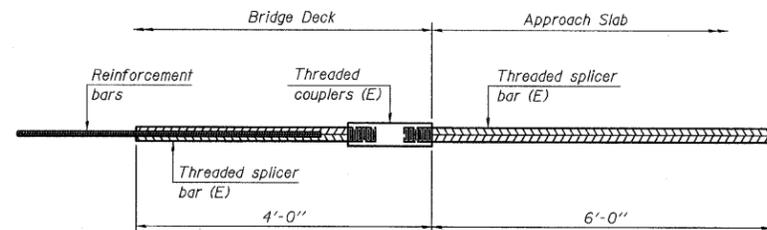
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

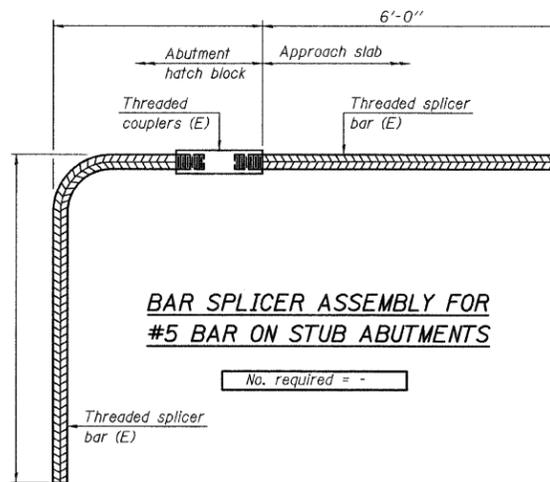
Structure number	Location	Bar size	No. assemblies required
016-1045	Pier ES3 Top of Pier	#11	12
	Pier ES3 East & West Faces of Pier	#5	4
	Pier ES6 Top of Pier	#11	12
	Pier ES6 East & West Faces of Pier	#5	4
	Pier ES6 Column	#9	16

Structure number	Location	Bar size	No. assemblies required
016-1075	Pier E15 Top of Pier	#9	12
	Pier E15 East & West Faces of Pier	#5	4
	Pier E16 Top of Pier	#9	6
	Pier E16 Top of Pier	#10	6
	Pier E16 East & West Faces of Pier	#5	4



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

No. required = -



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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 special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1 7-1-10

CHRISTIAN-ROGE & ASSOCIATES, INC.

USER NAME == IDOT	DESIGNED - J.C.N./B.N.S.	REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED - B.N.S./J.C.N.	REVISED -
PLOT DATE == 10/12/2011	DRAWN - F.M.	REVISED -
	DATE - OCTOBER 12, 2011	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO'S. 016-1045 & 016-1075

SHEET NO. S29 OF S41 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2011-031-BR	COOK	41	29

CONTRACT NO. 60P37
ILLINOIS FED. AID PROJECT