

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

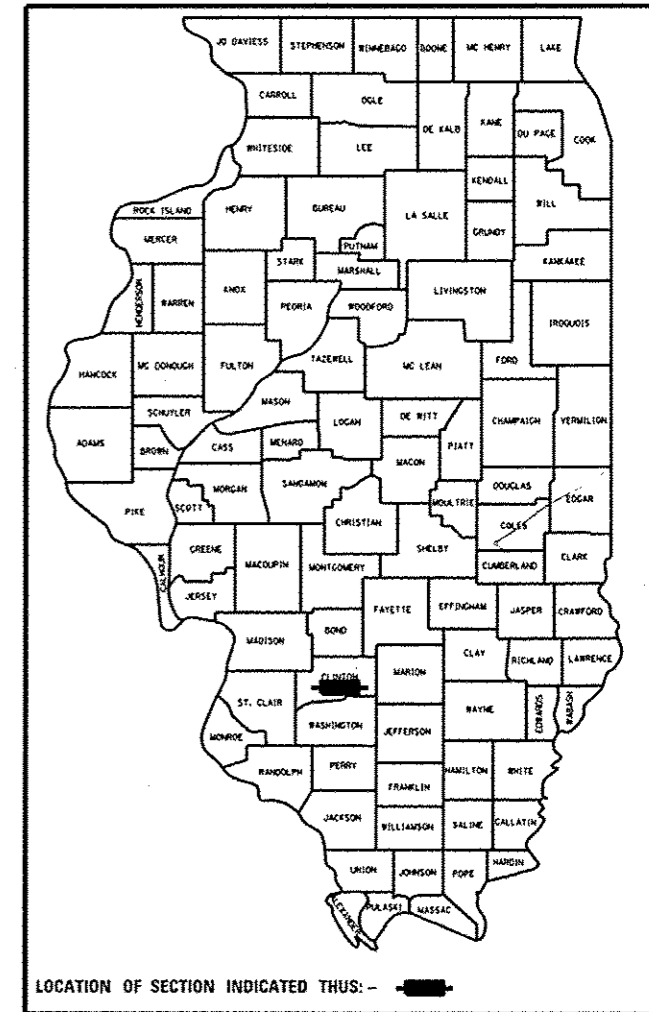
FAI ROUTE 64 (I-64)  
SECTION 14-1HB-2-HDF

**CURTAIN WALL REPAIR – MCHDF – S.N. 014-0039  
CLINTON COUNTY**

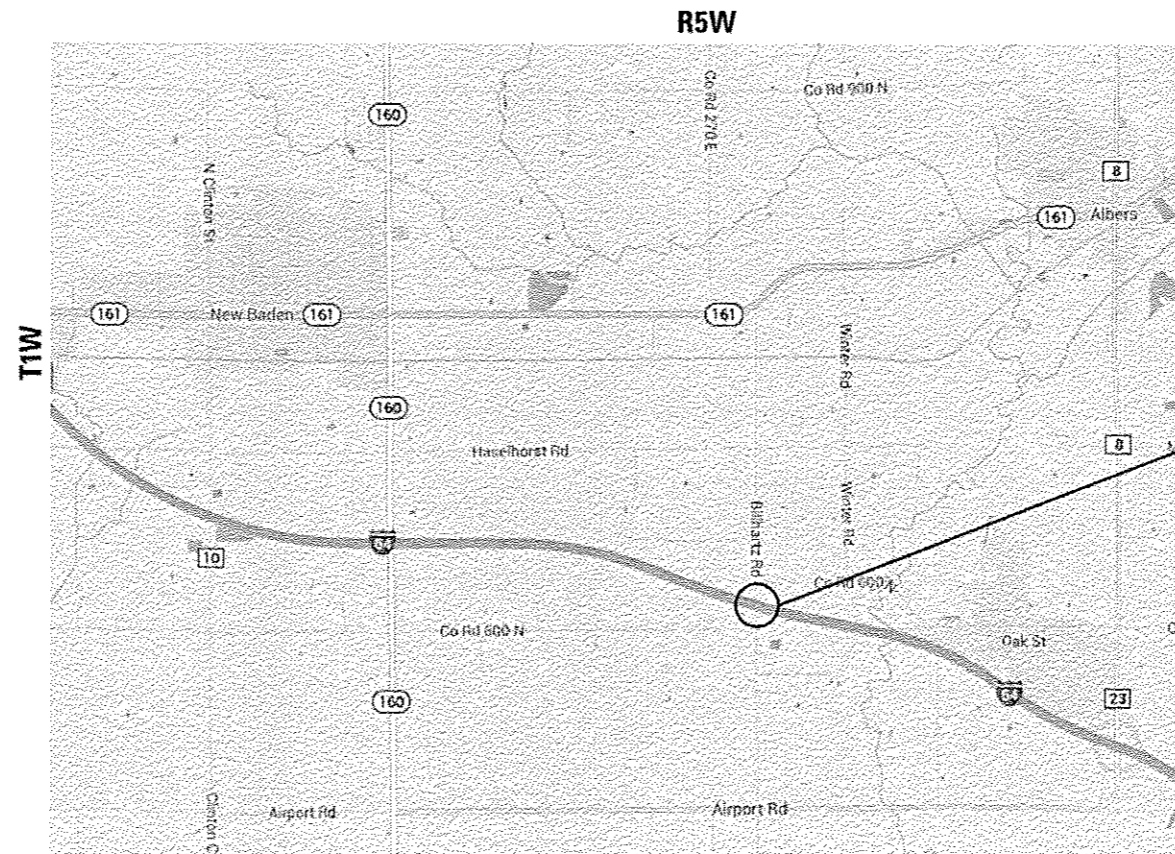
C-98-073-14

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	14-1HB-2-HDF	CLINTON	6	1
		ILLINOIS	CONTRACT NO. 76H44	

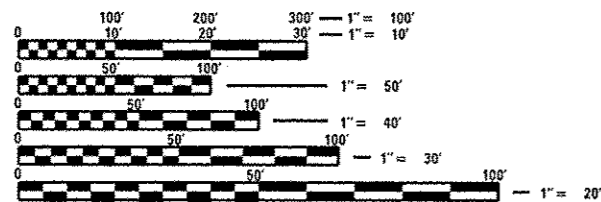
D-98-070-14



FOR INDEX OF SHEETS, SEE SHEET NO. 2



**PROJECT LOCATION  
S.N. 014-0039**



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

NOT TO SCALE

PROJECT ENGINEER: TIM PADGETT 618-346-3325  
PROJECT MANAGER: PHILIP COPPERNOLL 618-346-3480

CONTRACT NO. 76H44

GROSS LENGTH = 192.04 FT. = 0.036 MILE  
NET LENGTH = 192.04 FT. = 0.036 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED December 12 20 14  
Clayton Z. Fain  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

Jan 30 20 15  
John D. Baranzelli, P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30 20 15  
Omec Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, ADT, COMMITMENTS,  
HIGHWAY STANDARDS, GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 LOCATION MAP
- 5-6 REPAIR DETAILS

ADT

2013 ADT = 24100 (ACTUAL)  
 2015 ADT = 24600 (ESTIMATED)  
 2035 ADT = 30000 (ESTIMATED)  
 SU = 24.9%  
 MU = 3.0%

COMMITMENTS

NONE

HIGHWAY STANDARDS

000001-06  
 001001-02  
 001006  
 701101-04  
 701106-02  
 701201-04  
 701400-08  
 701406-09  
 701428  
 701901-04

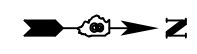
GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - \*CLINTON COUNTY ELECTRIC COOPERATIVE, INC. - ELECTRIC
  - \*COUNTRYMARK COOPERATIVE, LLP - PIPELINE
  - \*FRONTIER NORTH, INC. - COMMUNICATIONS
  - \*NEW MEMPHIS PUBLIC WATER DISTRICT - WATER

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
3. ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
4. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED ON THIS PROJECT.

FILE NAME #	USER NAME #	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, ADT, COMMITMENTS HIGHWAY STANDARDS, GENERAL NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\p\d01\conoverp\10041602\100	6444-ht-gernote.dgn	DRAWN -	REVISED -			64	14-1HB-2-HDF	CLINTON	6	2	
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 76H44					
	PLOT DATE = 12/12/2014	DATE -	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT





Street View - Oct 2008



BILLHARTZ ROAD

CURTAIN WALL  
REPAIR

NOT TO SCALE

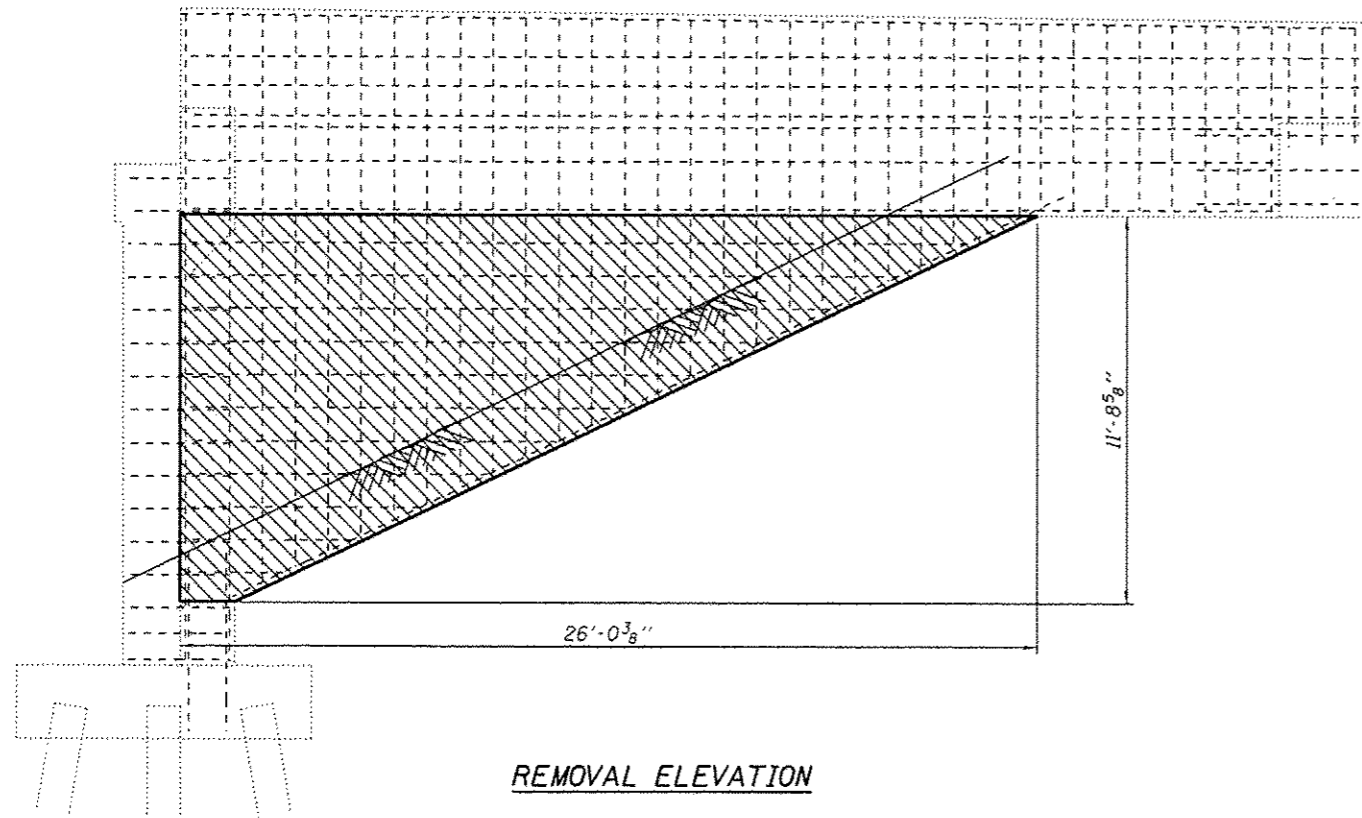
FILE NAME =	USER NAME = conoverpj	DESIGNED -	REVISED -
et:\pw\work\p\dot\conoverpj\d0416821\d876h44-sh-t-plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

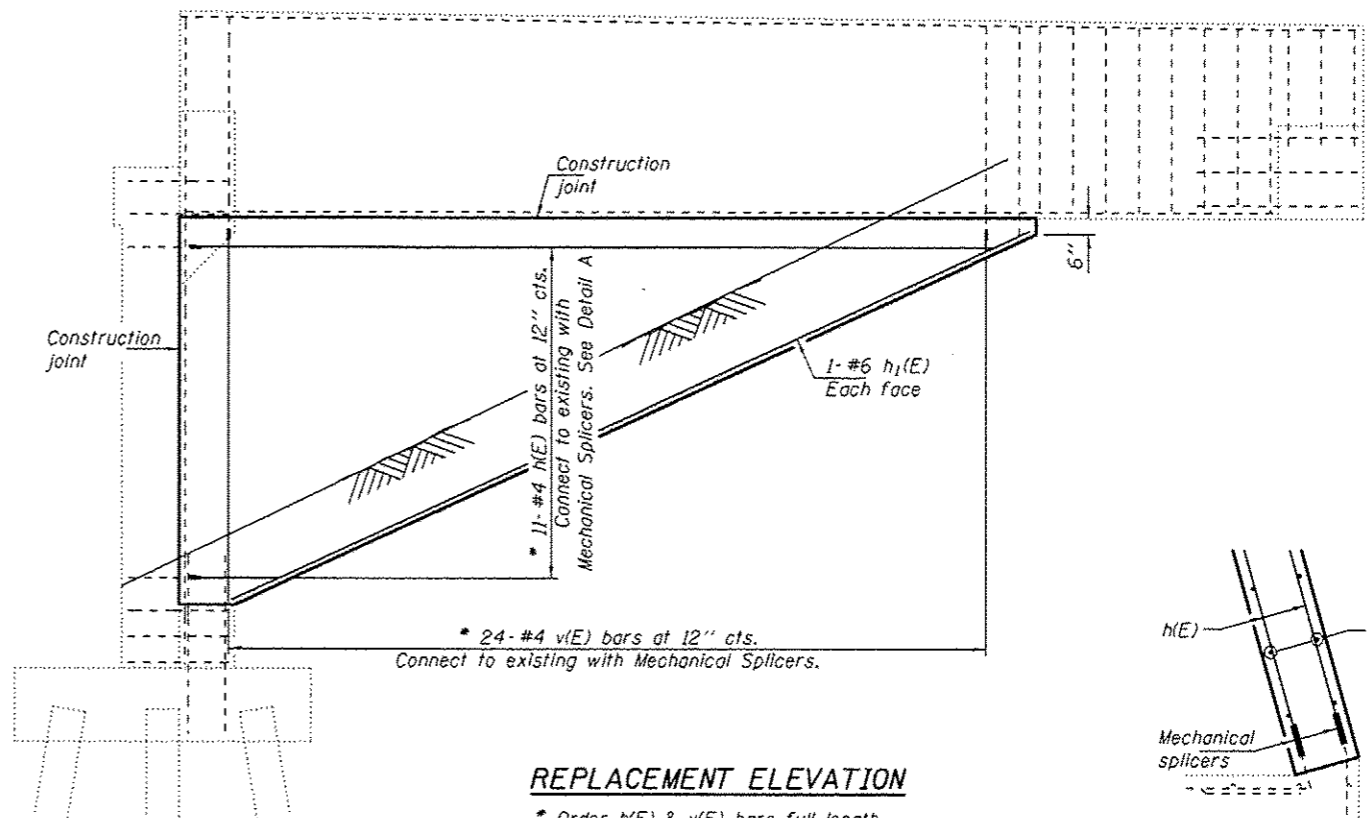
LOCATION MAP

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	14-1HB-2-HDF	CLINTON	6	4
CONTRACT NO. 76H44				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

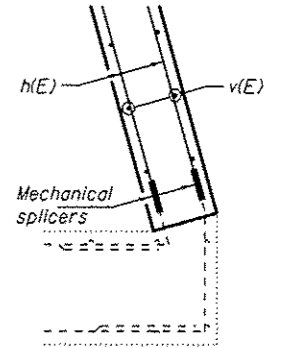


**REMOVAL ELEVATION**



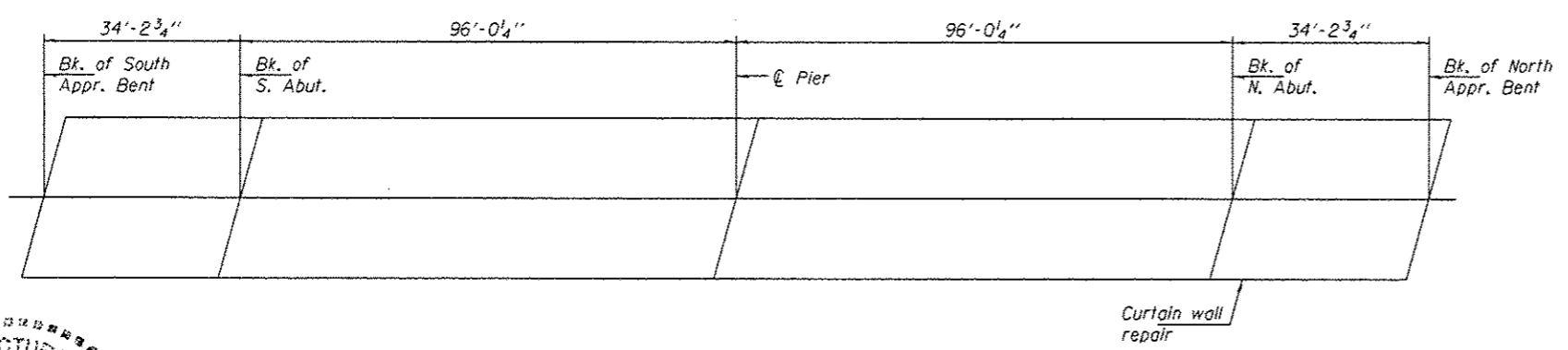
**REPLACEMENT ELEVATION**

\* Order h(E) & v(E) bars full length. Cut to fit skew and use remainder of bars in opposite face.

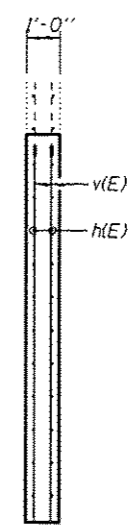


**DETAIL A**

Attach h(E) bars to the existing reinforcement extending from the abutment stem.



**LOCATION SKETCH**



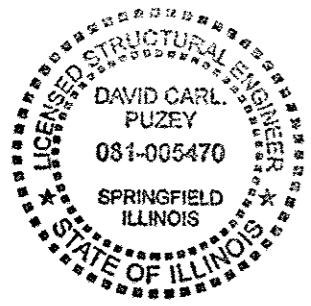
**SECTION THRU CURTAIN WALL**

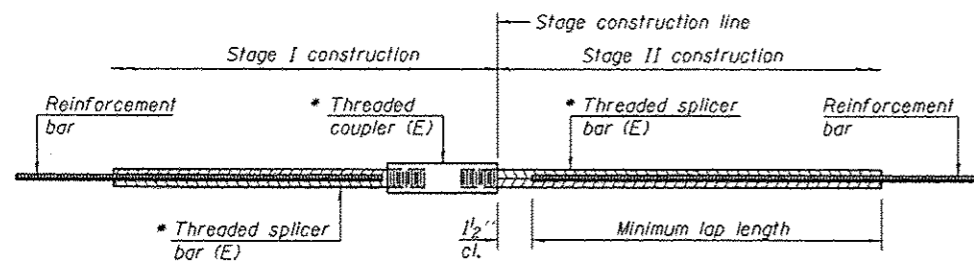
**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Hatched area indicates removal. Cut existing reinforcement 6" from removal line for installation of mechanical splicer.  
 The contractor shall ensure complete consolidation between existing & new concrete.

**TOTAL BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h(E)	11	#4	26'-9"	—	
h <sub>1</sub> (E)	2	#6	26'-8"	—	
v(E)	24	#4	11'-7"	—	
Mechanical Splicers				Each	70
Structure Excavation				Cu. Yd.	7.5
Concrete Removal				Cu. Yd.	6.2
Concrete Structures				Cu. Yd.	6.2
Reinforcement Bars, Epoxy Coated				Lbs.	460





**STANDARD BAR SPLICER ASSEMBLY**

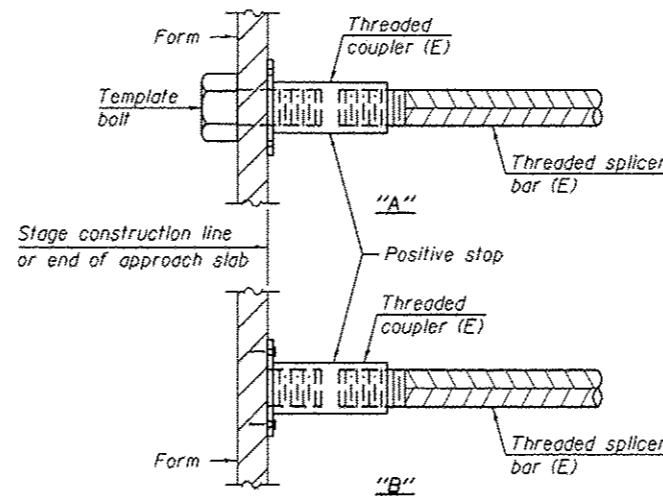
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

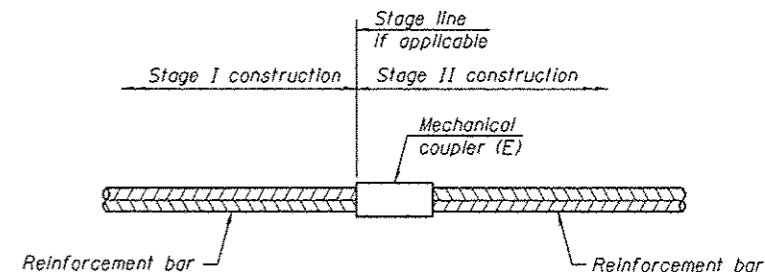
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

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



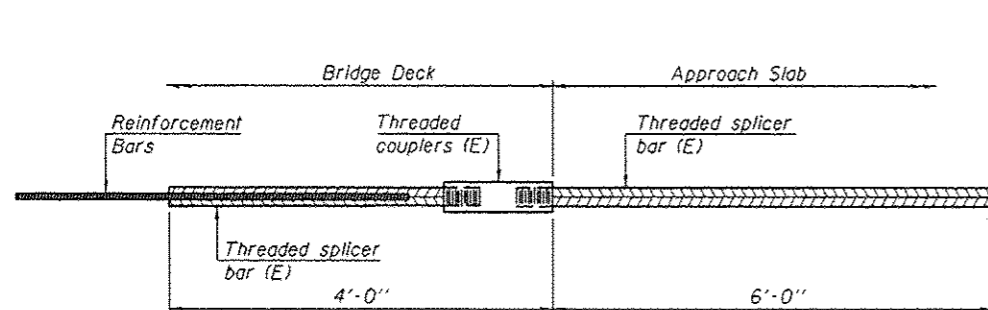
**INSTALLATION AND SETTING METHODS**

"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.



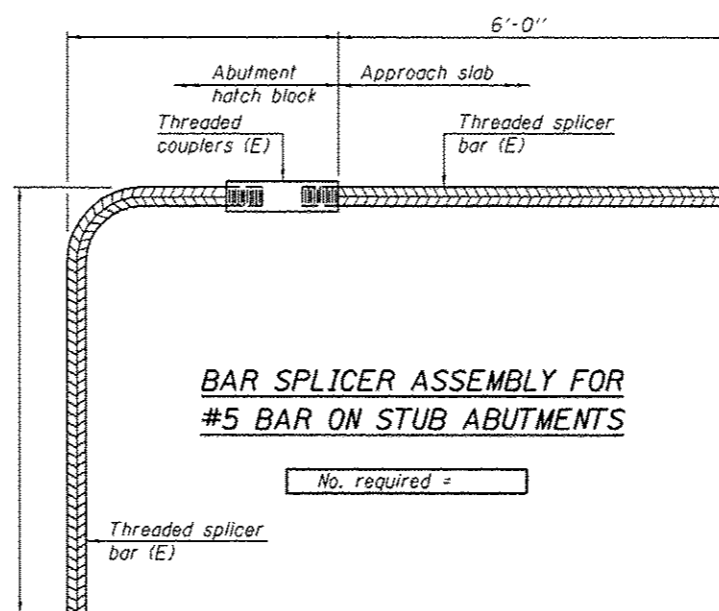
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required
Curtain wall	#4	70



**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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-27-12