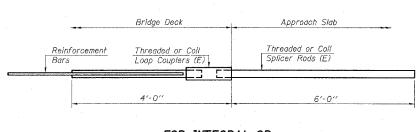
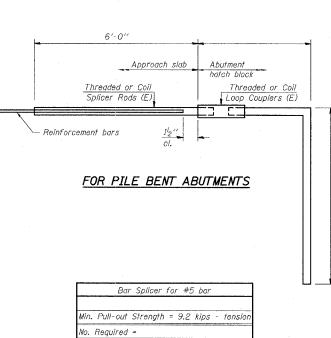


** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar							
Min.	Capacity	= 23.0	kip	s -	tensi	on	
Min.	Pull-out	Strength	=	9.2	kips	·	tension
No.	Required	=					



Stage Construction Line

Washer Face

<u>"B"</u>

INSTALLATION AND SETTING METHODS

(E): Indicates epoxy coating.

cementing to steel forms.

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

Foam Pluas

Threaded or Coil Splicer Rods (E)

<u>Template</u> Bolt

Forms-

NOTES

COUNTY TOTAL SHEET NO. SECTION COOK 916 632 STA. 190+65 (NB 1-57) STA. 1990+48 (NB FORD)TO STA. 2316+00 (NB RYAN FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

62304

* (1516.1, 1717, & 1818) R-4

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

| Minimum Capacity | 1.25 x fy x A₁ |
| (Tension in kips) = 1.25 x fy x A₂ |
| Minimum *Pull-out Strength | 1.25 x fs_{allow} x A₃ |

Where fy = Yield strength of lapped reinforcement bars in ksi.

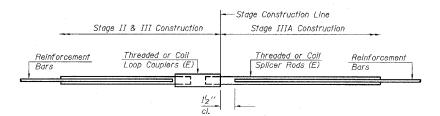
fs_{atow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A₁ = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES							
5 6: 1		Strength Requirements					
	Splicer Rod or Dowel Bar Length		Min, Pull-Out Strength kips - tension				
#4	1'-8''	14.7	5.9				
#5	2'-0''	23.0	9.2				
#6	2'-7"	33.1	13.3				
#7	3′-5″	45.1	18.0				
#8	4'-6''	58.9	23.6				
#9	5′-9′′	75.0	30.0				
#10	7'-3''	95.0	38.0				
#11	9'-0"	117.4	46.8				

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

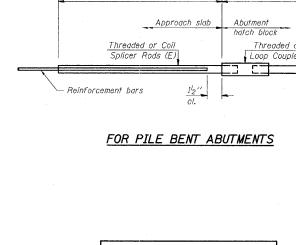


STANDARD

Bar Size	No. Assemblies Required	Location		
#4	5	S. Appr. Pavement		
#5	. 77	S. Appr. Pavement		
#4	5	N. Appr. Pavement		
#5	82	N. Appr. Pavement		

SHEET 8 OF 8

	· · ·	
REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORT	TATION
NAME DATE	ILLINOIS DEI ANTIMENT OF TRANSFOR	IAIION
	F.A.I. 94 (DAN RYAN EXPRES	SSWAY)
	BAR SPLICER ASSEMBLY DETA	ILS
	S.N. DESIGNED BY:	MAF
	SCALE: DRAWN BY:	MAF
	DATE: MARCH 7, 2006 CHECKED BY:	MI



BSD-1 9-01-03

TYLININTERNATIONAL