

ROLLED THREAD DOWEL BAR

of the bar spliced.

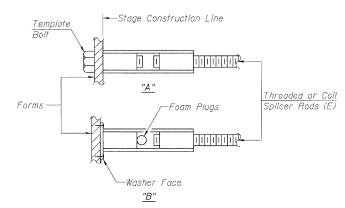
** ONE PIECE

- Wire Connector

WELDED SECTIONS

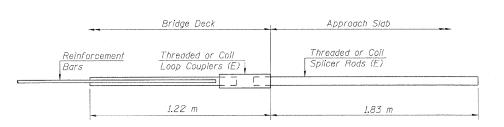
BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

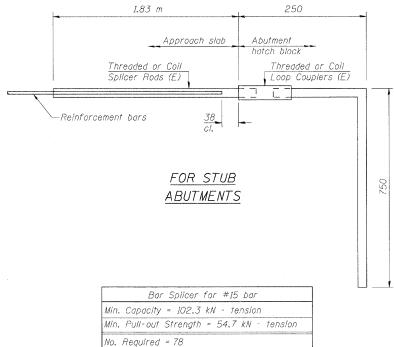


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Min. Capacity = 102.3 kN - tension							
Min.	Pull-out	Strength	=	54.7	kΝ	-	tension

DESIGNED - EKM SCD CHECKED -RDDRAWN CHECKED - EKM





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 414 MPa yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

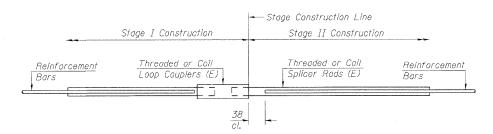
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity = 1.25 x 10⁻³ x fy x A_t
(Tension in kN) = 1.25 x 10⁻³ x fy x A_t
Minimum *Pull-out Strength
(Tension in kN) = 1.25 x 10⁻³ x fs allow x A_t

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

fsallow = Allowable tensile stress in lapped reinforcement bars in MPa (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES							
	6	Strength Requirements					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		Min, Pull-Out Strength kN - tension				
#10	508 mm	65.4	35.1				
#15	610 mm	102,3	54.7				
#20	790 mm	147.2	77.4				
#22	1.04 m	200.6	105.9				
#25	1.37 m	262.0	139.2				
#30	1.75 m	333.6	176.1				
#32	2.21 m	422.6	223.7				
#35	2.74 m	522.2	274.9				



STANDARD

Bar Size	No. Assemblies Required	Location		
#15	638	Deck		
#25	10	End of Deck		
#20	2	End of Deck		
#20	8	Abutment		
# <i>1</i> 5	20	Abutment		

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 016-2034

SHEET NO.S-26	F.A.I. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
311221 14080 20	57	1818.3B-R			COOK	58	50	
S-26 SHEETS	FED. ROAD DIST. NO. ILLINOIS FED. A				CONTRACT	NO. 60862		
					FED. AI	D PROJECT		