

1.8 m

FOR STUB ABUTMENTS

Bar Splicer for #15 bar

Min. Pull-out Strength = 40 kN - tension

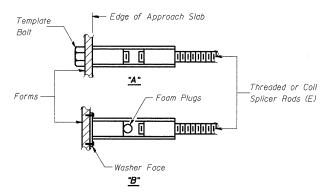
Min. Capacity = 100 kN - tension

Vo. Required = 150

— Reinforcement bars

## 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.

AGUTE NO.	SECTION	co	UNTY	TOTAL SHEETS	SPACET NO.	SHEET NO. 33
s. a. i. F. a. p. 310	*	MAD	ISON	149	64	36 знеетз
FEO, ROND DIST, NO. 7 ILLU		ILLINOIS	FEO. A(O PROJECT-			
Conti	act #7	56 34	* 6	0-15VR-	1 & 2	•

## <u>NOTES</u>

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 400 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:

\[
 \begin{align\*}
 \text{Minimum \*Pull-out Strength} \\
 \text{(Tension in kN)} = 0.66 x fy x A,
 \]

Where fy = Yield strength of lapped reinforcement bars in MPa. A<sub>t</sub> = Tensile stress area of lapped reinforcement bars (mm<sup>2</sup>).

\* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
Bar Size to be Spliced		Strength Requirements			
	Dowel Bar Length		Min. Pull-Out Strength kN - tension		
#15	660 mm	100	40		
#20	790 mm	150	. 60		
#25	1.04 m	250	100		
#30	1.37 m	350	140		

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."

All dimensions are in millimeters (mm) except as noted.

DESIGNED	ADL
DESIGNED CHECKED	WL W
DRAWN	ADL/DGM
CHECKED	WL W

BAR SPLICER ASSEMBLY DETAILS FAP RTE. 310 (IL RTE. 255) NB & RAMP C OVER UNION PACIFIC & KANSAS CITY SOUTHERN R.R. SECTION 60-15VB-1 & 2 MADISON COUNTY STATION 39+160.297 STRUCTURE NUMBER 060-0310