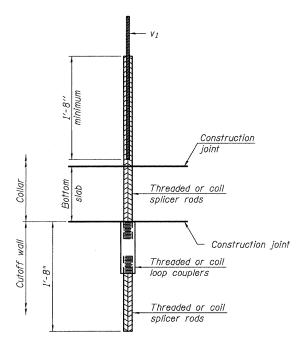
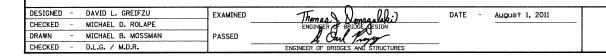


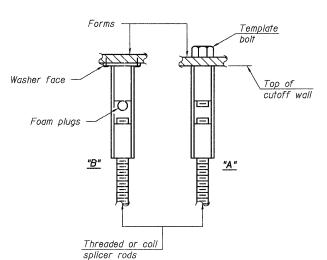
## BAR SPLICER ASSEMBLY ALTERNATIVES

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



## FOR BOX CULVERT END SECTIONS





## 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.

## NOTES

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 fied to the splicer rods or dowel 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:

(lension iii kipo) Minimum \*Pull-out Strength =  $0.66 \times fy \times A_t$ Minimum rum ca.
 (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. A<sub>r</sub> = Tensile stress area of lapped reinforcement bars.

\* = 28 day concrete

	Bar	Splicer	for	#5	bar		
Min.	Capacity	= 23.0	kips	- 1	ensio	n	
Min.	Pull-out	Strength	= .	12.3	kips	-	tension
No.	Reauired	= 20					

	BAR SPLICER ASSEMBLY DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 018-8650	773	(108,109,110)RS-3	CONTRAC	56 NO.	36 7 <b>4252</b>
DEFARIMENT OF THANSFORTATION	SHEET NO. 5 OF 7 SHEETS		ILLINOIS FED. A	1	I NO.	14232