## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





ROUTE NO.	SECTION	co	UNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16
FAP 770 IL 128	(115BR) B-1	SHE	LBY	39	33	19 SHEETS
FED. ROAD. DIST. NO.		ILL INDIS	FED. AID PROJECT-			

Contract # 74233

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

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:

Where fy = Yield strength of lapped reinforcement bars in ksi. A<sub>t</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES					
	Strength Requirements				
Splicer Rod or owel Bar Length		Min. Pull-Out Strength kips - tension			
1'-8''	14.7	7.9			
2'-2''	23.0	12.3			
2'-7''	33.1	17.4			
3′-5″	45.1	23.8			
4'-6''	58.9	31.3			
5'-9''	75.0	39.6			
7'-3''	95.0	50.3			
9'-0''	117,4	61.8			

No. Assemblies Required	Location
211	Deck
16	Diaphragms
20	Abutments
	Required

BAR SPLICER ASSEMBLY DETAILS ROBINSON CREEK TRIBUTARY F.A.P. RTE. 770 - SECTION (115BR)B-1 STRUCTURE NO. 087-0031