STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET ND.	SHEET NO. 31
F.A.I. 57	*	соек		75	57	32 SHEETS
FED. ROAD DIST. NO. 7		tul INOIS	FED. ALD PROJECT-			

таст бозбе ★2122B

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:

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Minimum *Pull-out Strength (Tension in kips) = 0.66 x fy x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi. A₁ = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES						
	Strength Requirements					
olicer Rod or vel Bar Length		Min. Pull-Out Strengt 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				