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ROUT	TE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET NO.	13
F. E	A.P. 869	1048-2	Franklin		56	53	16 SHEETS	
F6D. 9	NOAD DIST	. NO. 7	ILLINGIS	FEO. AID PROJECT-				

Contract # 98775

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_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES								
		Strength Requirements						
)	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips – tension					
	1'-8''	14.7	7.9					
	2'-0''	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					

Bar Size	No. Assemblies Required	Location	
#5	245	Deck	
#6	14	Diaphragms	
#7	24	Abutments	

ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPLICER ASSEMBLY DETAILS ILLINOIS ROUTE 14 OVER F.A.P. ROUTE 869 - SECTION 104B-2 STRUCTURE NO. 028-0076