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ROUTE NO.	SECTION	COUNTY		TOTAL SHEET		SHEET NO. S18
5. B. I. F. A.P. 852	188-5-R	WILL		66	48	S21 SHEETS
FED. ROAD DIST. NO. 7		ILLIN019	FED. AID PROJECT-			1

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

Where fy = Yield strength of lapped reinforcement bars in ksi.

#10 #11

BAR SPLICER ASSEMBLIES						
~	Strength Requirements					
Splicer Rod or wel Bar Length	Min. Capacity kips - tension	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	372	Superstructure
#6	16	Superstructure
#7	14	N & S Abuts.
#5	48	Piers 1 & 2
#7	14	Piers 1 & 2

			ILLINOIS DEPARTMENT OF TRANSPORTATION US ROUTE 52 (STATE STREET)		
	REVISIONS		OVER PRAIRIE CREEK		
C	NAME	DATE	FAP RTE. 852	SEC. 18B-5-R	
)			WILL COUNTY		
0 NC			STA.1008+00.00 S	STRUCTURE NO. 099-4643	
00	······································	·	BAR SPLICER	ASSEMBLY DETAILS	
FIRM			DRAWN BY: MBM		
			CHECKED BY: PRL/GRA	DATE: MARCH, 2007	