

ROUTE NO.	SECTION .	COUNTY		TOTAL STEETS	TOTAL SHEET SHEETS NO.	SHEET NO. 13
F.A.P. 840	139 BR+1	KANKAKEE.		69	29	13 SHEETS
FED. ROAD DIST, NO. 7		R.CINOIS	FED. ALD PR	OJEC7-		

<u>NOTES</u>

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. 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.

 fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A₁ = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES						
		Strength Requirements				
to : J	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension			
	1'-8''	14.7	5.9			
1	2'-0''	23.0	9.2			
	2'-7''	33.1	13.3			
	3'-5''	45.1	18.0			
	4'-6''	58.9	23.6			
	51-91	75.0	30.0			
	7'-3''	. 95.0	38.0 .			
	9'-0''	117.4	46.8			

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

	-Stage Construction Line	
I Construction	Stage II Constructio	n
readed or Coil op Couplers (E)	Threaded or Coii Splicer Rods (E)	Reinforcement Bars
		<u></u>

STANDARD

Bar Size	No. Assemblies Required	Location
#4	101	Wearing Surface
#6	12	Abutments

BAR SPLICER ASSEMBLY DETAILS US ROUTE 45/52 OVER MINNIE CREEK F.A.P. 840 SEC. 139 BR-1 KANKAKEE COUNTY STATION 196+30.00 STRUCTURE NO. 046-0070