

PLOT PLOT

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	sheet no. ${\mathcal G}$
FAP 840	136 BR·1	IROQUOIS		45	19	9 SHEETS
FEG. ROAD DIST, NO.		ILL INOIS	FED. AID PROJECT-			

Contract #66668

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.

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

	BAR SPLICER ASSEMBLIES							
		Strength Requirements						
	Splicer Rod or Dowel Bar Length	Min, Capacity kips - tension	Min. Pull-Out Strength kips - tension					
	1'-8''	14.7	5.9					
	2'-0''	23.0	9.2					
	2'-7''	33.1	13.3					
	3'-5''	45.1	18.0					
	4'-6''	58.9	23.6					
	5'-9''	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."

Constructio			uction Line I Construction	na dalamatan kata kata kata dalamata	
		Threaded or Coil Splicer Rods (E)		Reinforcement Bars	_
	$\frac{l_2''}{cl}$	_			
	<u>STANDA</u>	<u>RD</u>			
Assemblies Required	Location				
6	N. Abutment				
3	Blockout				
			ILLINOIS D	EPARTMENT OF	TRANSPORTATION
			BAR SPL	ICER ASSEN	MBLY DETAILS
REVISIONS				E 840 (IL 49) OVER TION 136 BR-1 IROOU STA. 616+84.0 S.N. 038-009	JOIS COUNTY
	NAME	DATE	SCALE: VERT. HORIZ. DATE: 9/27/05		DRAWN BY: HEBERLING DESIGNED BY: SANFORD CHECKED BY: TRELLO
			G (0)	ENE & BRADFORD, INC. OF SPEINGFIELD CONTULTING SING SUCCESSITUTION SI	COMPUTER FILE NO. SN038-0093_BSD.dgn PROJECT 03236 W012 11/3/05-MML