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F.A.P. 693	(1198 · 3)]	TAZEWELL		33	23	1
FEO. MONO 0	FRO, HOND DIST, NO. 7		FED, 410 AMO./ECT-			

Contract #68415

## 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<sub>r</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

> BAR SPLICER ASSEMBLIES Strength Requirements Splicer Rod or Min, Capacity Min, Pull-Out Strength Dowel Bar Length kips - tension kips - tension 1'-8" 14.7 5.9 2'-0" 23.0 9.2 2'-7" 33.1 13.3 18.0 3'-5" 45.1 4'-6' 58.9 23.6 75.0 30.0 5'-9' 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."

Construction	Stage II Construction				
eaded or Coil p Couplers (E)	Threaded or Coil Splicer Roas (E)	Reinforcement Bars			
<u>1/2 ''</u> cl.					

STANDARD

Bar Size	No. Assemblies Required	Location
#5	3	Expansion End Blockout
#6	5	West Abutment

BAR SPLICER ASSEMBLY DETAILS ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)1 TAZEWELL COUNTY SN 090-0061

SHEET NO. 14

14 SHEETS