

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	870	712
STA.		TO STA.		h
FED. ROA	D DIST. NO.	ILLINOIS FED.	AID PROJ	ECT

## NOTES

Bar splicer assemblies shall be of an IDOT approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Bar splicers shall be of the "coupler" type, and shall not have flanges.

Splicer rods shall be of minimum 400 MPa 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:

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

fs<sub>allow</sub>= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)  $A_1$  = Tensile stress area of lapped reinforcement bars (mm<sup>2</sup>). \* = 28 day concrete

	BAR SPLIC	ER ASSEMBLIES		
	Splicer Rod or Dowel Bar Length	Strength Requirements		
			Min. Pull-Out Strength kN (kips) - tension	
#15	610 mm	100	40	
#20	790 mm	150	60	
#22	1.04 m	200	80	
#25	1.37 m	250	100	
#30	1.75 m	350	140	

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

Stage I work will be paid for as BAR SPLICERS, SPECIAL. The concrete pad and reinforcement shall not be paid for separately but included in the cost of CONTINUOUSLY REINFORCED PORTLAND CEMENT PAVEMENT, of the thickness specified.

Stage II work includes obtaining, transporting the bar splicers for the second portion of the assembly from the IDOT Bishop Ford Maintenance faciliy (708) 331-4339, and the installation of the bar splicers, payment for this work will be included in the cost of CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT of the thickness specified. Tie bars to be drilled and grouted shall not be paid for separately but included in the cost of PORTLAND CEMENT CONCRETE SHOULDERS, of the thickness specified.

## GENERAL NOTES

See Standard 421001 for details of CRC pavement reinforcment.

See Standards 420001 and 420401 for details of joints and tie bars not shown.

See Standards 421201 and 421206 for details of concrete pad and transverse terminal joint.

See Standard 483001 for pcc shoulder details.

All dimensions are in millimeters (inches) unless otherwise noted.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
 KFA	12/18/03		4 (KINGERY EXPRESSWAY
			NSVERSE CONSTRUCTION
 		SCALE NONE	DRAWN BY ACE/CAD
		DATE 06/03	CHECKED BY
			IERICAN