

ROUTE NO.	SECTION	COL	NTY	TOTAL	SHEET NO.	SHEET NO. 82
F. A. I. 80/94	•	соок		870	596	91 SHEETS
FED. ROAD DEST. NO. 1 ILLINOIS FED.			fed. Ald Pr	I. AID PROJECT-		
(0203.1 & 0312-708#) R-3 CONTRACT NO. 62108						

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 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:

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

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load) A_t = Tensile stress area of lapped reinforcement bars (mm²) * = 28 day concrete

BAR SPLICER ASSEMBLIES								
		Strength Requirements						
to d	Splicer Rod or Dowel Bar Length	Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension					
	610 mm	100	40					
	790 mm	150	60					
	1.04 m	250	100					
	1.37 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 will be measured and paid for at the contract unit price each for "BAR SPLICERS."

I Construction	Stage Construction Line Stage II Construction
hreaded or Coil pop Couplers (E)	Threaded or Coll Reinforcement Splicer Rods (E) Bars

STANDARD

Bar Size	No. Assemblies Required	Location	

ILLINOIS DEPARTMENT OF TRANSPORTATION I-94 EAST BOUND / IL 394 SOUTH BOUND BAR SPLICER ASSEMBLY DETAILS

SB IL ROUTE 394 / RAMP F OVER THORN CREEK F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3 COOK COUNTS STA. 440+704.350 STRUCTURE NO. 016-2800/2845 DATE JUL 18, 2005

HNTB

SCALE ----