

_____ Revised MAY 2 7 2005

ROUTE NO.	SECT.	COUNTY		SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA		535	1360
FED. ROAD DIST. NO. 7		ILL INOIS	FED. AID PROJECT		

CONTRACT NO. 68200

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

reinforcement bars. 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) $A_{\rm f}$ = Tensile stress area of lapped reinforcement bars (mm²). * = 28 day concrete

BAR SPLICER ASSEMBLIES									
Size to Spliced		Strength Requirements							
	Splicer Rod or Dowel Bar Length	Min. Capacity kN – tension	Min. Pull-Out Strength kN - tension						
15	610 mm	100	40						
20	790 mm	150	60						
25	1.04 m	250	100						
30	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." All dimensions are in millimeters (mm) except as noted.

F	1	3/28/05	Assem	bly Detail appended				
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	REVISION	DATE		DESCRIPTI	ON			
	STATE OF ILLINOIS							
	DEPARTMENT OF TRANSPORTATION							
	BAR SPLICER ASSEMBLY DETAILS							
	RAMPS B-3 AND B-5 OVER WAR MEMORIAL DR. AND RAMP B-6 F.A.I. ROUTE 74 SECTION (72-7) R-3 PEORIA COUNTY STA. 10+618.61 (RAMP B-3) STA. 10+472.60 (RAMP B-5) STRUCTURE NUMBER 072-0190							
ſ	PARSONS TRANSPORTATION GROUP CHICAGO, ILLINOIS							
	DRAWING NO. 36	SCAL		DATE 2-21-03	SHEET NO. 36			