

ROUTE NO.	RECTION	COUNTY		TOTAL SHEET9	SHEET NO.
F.A.P. RT. 308	-	ROCK	ISLAND	40	26
FED, ROAD CIST. NO. 7		JLL1M018	PED. ALD PROJECT-		

SHEET NO.

SHEETS

Contract #**64B10**

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 colled full length. All reinforcement bars shall be lapped and fied 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:

Minimum Capacity
(Tension in kips) = 1.25 x fy x A_t

(Lension in Kips) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t (Tension in kips)

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

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A₁ = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	DER ASSEMBLI	ES	
		Strength Requirements		
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	5.9	
#5 -	2'-0''	23.0	9.2	
#6	2'-7''	33.1	13.3	
#7	. 3′-5″	45.1	18.0	
#8	4'-6''	58,9	23.6	
#9	5'-9''	75.0	30.0	
#10	7'-3''	95.0	38.0	
#11	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,"

	BAR SPLICER ASSEMBLY DETAILS F.A.P. RT. 308 OVER MILL CREEK ROCK ISLAND COUNTY STATION 550+90.00 STRUCTURE NO. 081-0091 & 92					
	CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS EVANSVILLE, INDIANA INDIANAPOLIS, INDIANA KENOSHA, WISCONSIN SPRING GREEN, WISCONSIN					
DATE	NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING DRAWING NUMBER ANY PORTION OF THIS DRAWING.					
	DESIGNED BY: M.M. PROJECT NO: 102.2315 DYLAWN BY: MEW DATE: 3/06 CHECKED BY: M.M. APPROVED BY: S.M.M. ACTIVITY INITIALS					