

F.A.I. RTE.	SECTION	COUN	TΥ	TOTAL SHEETS	SHEET NO.
	•			631	93
STA.		TO STA.	1 10110 1 1,0001 1 1 a		
FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID PROJ	ECT
• (2425	& 2626) R-2		CONT	RACT NO.	62111

Bar splicer assemblies shall be of an approved type and shall develop in tension

a least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 400 MPa yield strength, threaded or colled 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

(lension in kN)
Where fy = Yield strength of lapped reinforcement bars in MPa.
if Solow= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)
A<sub>1</sub> = Tensile stress area of lapped reinforcement bars (mm<sup>2</sup>).
\* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ËS		
		Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension		
#15	#15 610 mm		40		

Bar splicer assemblies shall be installed at the lug locations as shown on the plan details for the staged lug systems.

When the second stage of the lug system is to be completed in a seperate contract, the Contractor shall deliver the remainder of the bar splicer to the IDOT Bishop Ford Maintenance Yard (708) 331-4339 for storage. The bars shall be enclosed in a water resistant wooden container of sufficient strength to withstand the anticipated handeling of the bar splicers priar to reuse at a later date. The container shall be clearly stamped for the designated location of the bar splicer use.

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, SPECIAL." All dimensions are in millimeters (mm) except as noted.

BAR	SPL	ICER	ASSE	MBLY	DET	AILS

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
	BAR SPLICER ASSEMBLY DETAIL FOR
	LUG SYSTEM Bars b
	SCALE NONE DRAWN BY ACE/CAD DATE 02/04 CHECKED BY
	AMERICAN CONSULTING ENGINEERS