

WELDED SECTIONS

<u>hininin</u>

<u>hijijiji</u>

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

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 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:

- (D) Minimum Capacity (Tension in kips) = 1.25 x fy x A_t
- (Tension in Kipsz Minimum *Pull-out Strength 1.25 x fs_{allow} x A_t 2 (Tension in kips)
- Where fy = Yield strength of lapped reinforcement bars in ksi.

	BAR SPLIC	er assembli	ES	
	Splicer Rod or Dowel Bar Length	Strength Requirements		
		Min. Capacity klps - tension	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."



STANDARD

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BSD-1

ROUTE NO.	SECTION	CDUNTY		TOTAL SHEETS	SHEE NO.
FAS 227	105BR-2	HENRY		31	26
FED. ROAD DIST. NO. 7		ILLENOIS	PED. AND PROJECT-		

sheet no. 14

<u>16</u> sheets

NOTES

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

