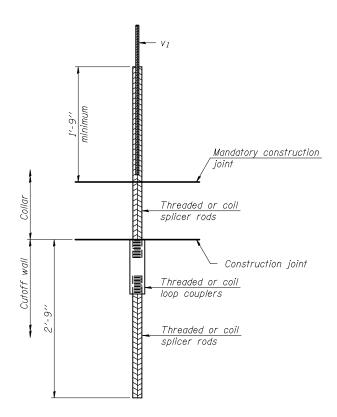
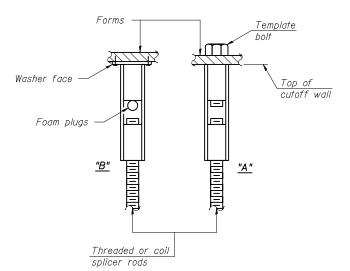


BAR SPLICER ASSEMBLY ALTERNATIVES

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



FOR BOX CULVERT END SECTIONS



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.

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 coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel 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:

- Minimum Capacity = $1.25 \times fy \times A_1$ (Tension in kips)
- (Lension און און און) Minimum *Pull-out Strength = 0.66 x fy x A_t
- (Tension in kips) = 0.66 x fy x A_t

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

 A_t = Tensile stress area of lapped reinforcement bars.

 * = 28 day concrete

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 20

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DESIGNED - DAVID L. GREIFZU	EXAMINED	Thomas () (12.)	DATE - DECEMBER 8, 2010		BAR SPLICER ASSEMBLY DETAILS	F.A.S.	SECTION	COUNTY	TOTAL SHE	ĒΤ
CHECKED - MICHAEL D. ROLAPE	_	ENGINEER OF BRIDGE DESIGN		STATE OF ILLINOIS		1531	10B-1 & 11B-1	PIATT	88 2	<u>.</u>
DRAWN - MICHAEL B. MOSSMAN	PASSED	Ralph E. anderson		DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 074–8606			CONTRACT	T NO. 7045	8
CHECKED - D.L.G. / M.D.R.		ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 4 OF 5 SHEETS		ILLINOIS FED. A	AID PROJECT		