*(84-9-4)A,HBK,BY,BY-1 Contract No 72541

<u>NOTES</u>

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.

FAI 72

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:

Minimum **Pull-out Strength = 1.25 x fs_{allow} x A_t

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

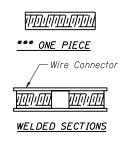
fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars.

** = 28 day concrete

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."

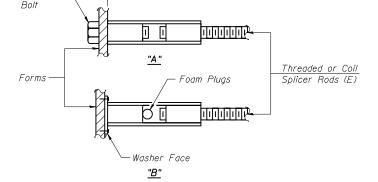
The diameter of this part is equal or larger than the The diameter of this part diameter of bar spliced. is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



BAR SPLICER ASSEMBLY ALTERNATIVES

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

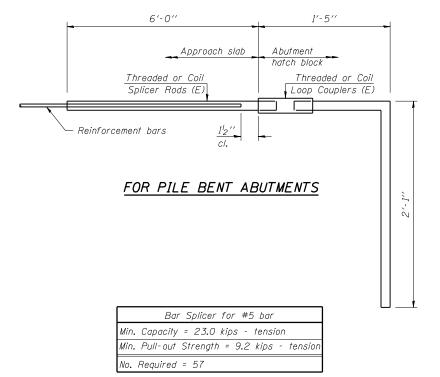


► Stage Construction Line

<u>Template</u>

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.



Corporate License Number 184-001-084

BAR SPLICER ASSEMBLY DETAILS I-72/MACARTHUR BLVD. RAMP C OVER UPRR SECTION (84-9-4)A,HBK,BY,BY-1 SANGAMON COUNTY STATION 46+01.97 STRUCTURE NUMBER 084-0516

96S2002B

11/16/05

