STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET NO. 9 ROUTE NO. COUNTY 22 16 10 SHEETS RIe. 20 Cook

Contract # 626.18

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.

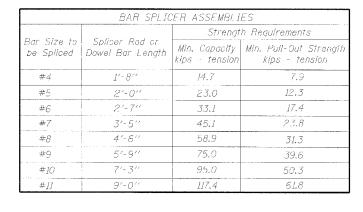
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

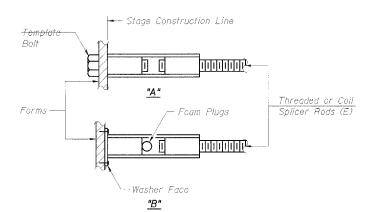
reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly salisfies the following requirements:

(Lension in kips) Minimum *Pull-out Strength = 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 ASSEMBLY ALTERNATIVES

WELDED SECTIONS

— The diameter of this part is

diameter of bar spliced.

equal or larger than the

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

ROLLED THREAD DOWEL BAR

** ONE PIECE

— Wire Connector

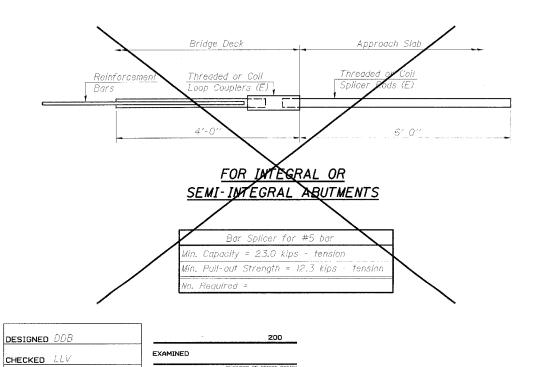
The diameter of this part

of the bar spliced.

is the same as the diameter

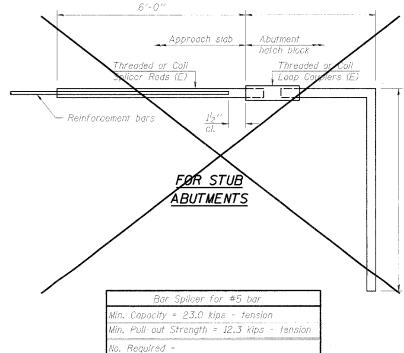
INSTALLATION AND SETTING METHODS

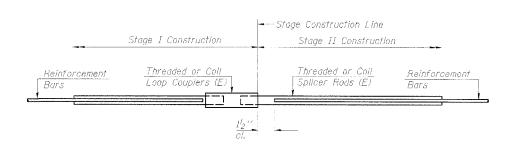
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



PASSED

DRAWN MGM CHECKED LLV





STANDARD

Bar Size	No. Assemblies Required	Location
#4	103	Wearing Surface

BAR SPLICER ASSEMBLY DETAILS U.S. RTE. 20 (F.A.P. 426) OVER E.J. & E. RAILROAD COOK COUNTY, STA. 106+03.50 STRUCTURE NO. 016-0219

