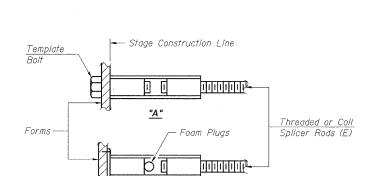
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



<u>"B"</u> INSTALLATION AND SETTING METHODS

-Washer Face

"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.

Bridge Deck Approach Slab Threaded or Coil Reinforcement Threaded or Coil Splicer Rods (E) Bars Loop Couplers (E) 4'-0"

ROLLED THREAD DOWEL BAR

** ONE PIECE

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM

A 563, Grade C, D or DH may be used.

Wire Connector

iiiiiiiii

The diameter of this part

of the bar spliced.

is the same as the diameter

The diameter of this part is

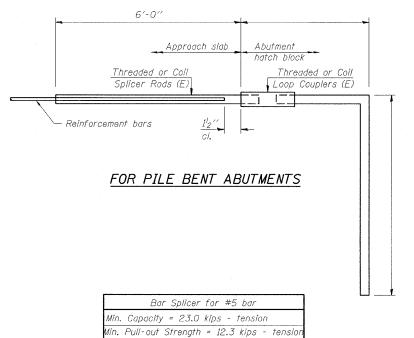
equal or larger than the

diameter of bar spliced.

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips -	tension
No. Required = 64	
(44 5	

(At Pavement Ledge)



No. Required =

SHEET NO. 64 DEWITT .3.3 721 CONTRACT NO. 70014

SHEET NO.5 of

9 SHEETS

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.

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 Capacity
(Tension in kips)

Minimum *Pull-out Strength
(Tension in kips)

Minimum *Pull-out Strength
(Tension in kips)

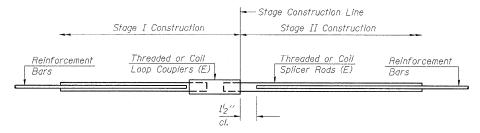
Where fy = Yield strength of lapped reinforcement bars in ksi.

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES					
Bar Size to be Spliced	Dowel Bar Lenath	Strength Requirements			
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension		
#4	1′-8′′	14.7	7.9		
#5	2'-0"	23.0	12.3		
#6	2'-7"	33.1	17,4		
#7	3′-5′′	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5′-9′′	75.0	39.6		
#10	7'-3"	95.0	50.3		
#11	9'-0''	117.4	61.8		

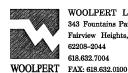
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location
#6	42	Bottom Slab
#4	26	Top Slab
#6	44	Top Slab
#7	48	Outside Walls
#5	24	Center Wall
#7	4	Appr. Ledge

PLANS PREPARED BY:



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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 10 OVER FRIENDS CREEK DITCH FAP 721 - SECTION 114BR-2

DEWITT COUNTY STATION 673+93.40 STRUCTURE No. 020-2010 BAR SPLICER ASSEMBLY DETAILS

CHECKED MAA CHECKED BSC BSD-1

DESIGNED BWB