SHEET NO. 914 SHEETS

Contract #60D70

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

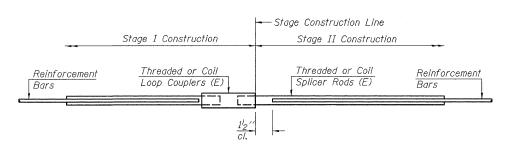
reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$ (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	Splicer Rod or Dowel Bar Length	Strength Requirements		
		' '	Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	7.9	
#5	2'-2"	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	



STANDARD

Bar Size	No. Assemblies Required	Location
#5	24	Deck
#6	12	T/Abut.
#7	12	Deck



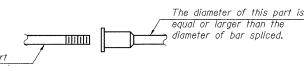
200 West Front Street Wheaton, IL 60187

BAR SPLICER ASSEMBLY DETAILS IL 43 OVER STONY CREEK FAP RTE 348 SECTION 3128-Z-B-1 COOK COUNTY STATION 179+01.40

STRUCTURE NO. 016-0322

DATE: 1-30-2009

DRAWN BY LM CHECKED BY BLB



The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR

** ONE PIECE Wire Connector ijijijijiji WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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

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

-Washer Face

<u>"A"</u>

Stage Construction Line

-Foam Plugs

Threaded or Coil

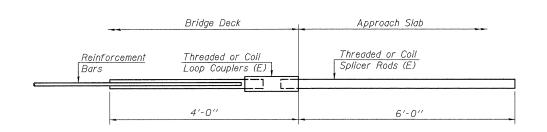
Splicer Rods (E)

Template

Forms-

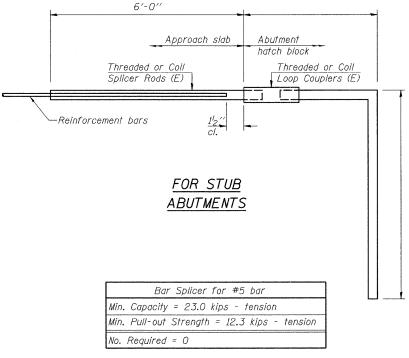
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



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 = 0



BSD-1