CONTRACT NUMBER 91464

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ROUTE NO.		SECTION	COUNTY	YCTAL SHEETS	SHEET NO.
C.H. #6	C7-00	944-00-BR	CHAMPAIGN	45	29
STA. TO STA.					
F.H.W.A. REG.		ILLINOIS	PROJECT		

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 field to the splicer rods or down 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 - 1.25 x fy x A₁

(Tension in kips) - 1.25 x fy x A₁

(Tension in kips) - 0.66 x fy x A₁

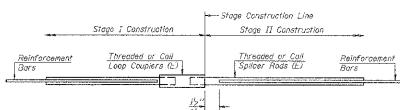
(Tension in kips)

Where fy - Yield strength of lapped reinforcement bors in ksi.

A, = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES					
5 61	6 6 .	Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips tension	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 SPLICER ASSEMBLY DETAILS STRUCTURE NO. 010-4548

> BAR SPLICER ASSEMBLY DETAILS SECTION: 07-00944-00-BR CHAMPAIGN COUNTY Q STATION 10+00

> > 10072

SHEET 29 OF 45 SHEETS

SECTION 07-00944-00-BR

CHAMPAIGN COUNTY

The diameter of this part is equal or larger than the olameter of bar spliced. Template Bolt

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.

—Stage Canstruction Line

"A "

-Washer Face

<u>"B"</u>

-Foam Plugs

Threaded or Coil Splicer Rods (E)

(E): Indicates epoxy coating.

Bridge Deck Approach Slab Threaded or Coil Loop Couplers (E) Reinforcement 6'-0"

ROLLED THREAD DOWEL BAR

** ONE PIECE -- Wire Connector

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WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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

The diameter of this part is the same as the diameter

of the bar spliced.

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Size	No. Assemblics Required	Location
#5	68	Approach Siabs