

SHEET NO. - 7

\* 00-00114-00-PV CONTRACT NO. 63024

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:

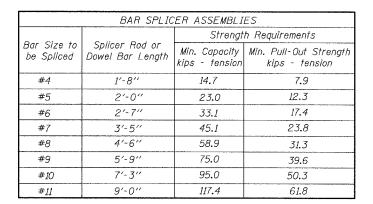
Minimum Capacity (Tension in kips) =  $1.25 \times fy \times A_t$ 

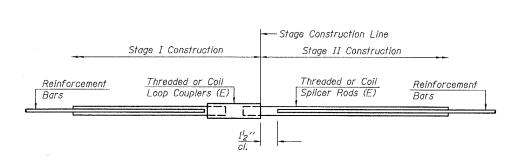
(Lension III Kips)

Minimum \*Pull-out Strength =  $0.66 \times fy \times A_t$ 

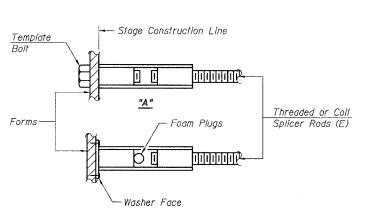
(Tension in kips) Where fy = Yield strength of lapped reinforcement bars in ksi.

A<sub>t</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete





STANDARD



<u>"B"</u>

INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.

"B": Set bar splicer assembly by nalling to wood forms or

(E): Indicates epoxy coating.

No. Required =

cementing to steel forms.

## BAR SPLICER ASSEMBLY ALTERNATIVES

**WELDED SECTIONS** 

The diameter of this part is

equal or larger than the

diameter of bar spliced.

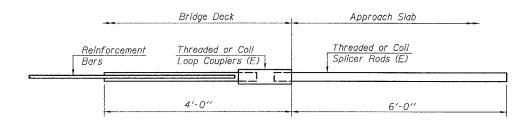
\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

ROLLED THREAD DOWEL BAR

\*\* ONE PIECE

-Wire Connector

Villijiji



## 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

## 6'-0" Approach slab Abutment hatch block Threaded or Coil Threaded or Coil Splicer Rods (E) Loop Couplers (E) Reinforcement bars FOR STUB **ABUTMENTS** Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension

## TYLIN INTERNATIONAL

The diameter of this part

of the bar spliced.

is the same as the diameter

DESIGNED	_	SP	
CHECKED	_	SP	
DRAWN	-	SP	
CHECKED	-	SP	

Bar Size	No. Assemblies Required	Location			
#6	16	Tunnel Footing at Stage Construction Line			

REVISIO	NS			
NAME	DATE	PEDESTRIAN TUNNEL		
		BAR SPLICER ASSEMBLY		
		<i>WASHINGTON - 75TH STREET</i>		
		F.A.U. ROUTE 2552		
		SECTION 00-00114-00-PV		
		DUPAGE COUNTY		