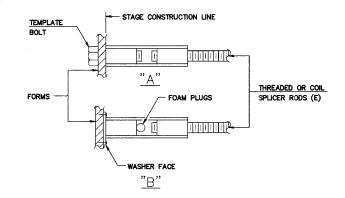


\*\* ONE PIECE

WIRE CONNECTOR WELDED SECTIONS

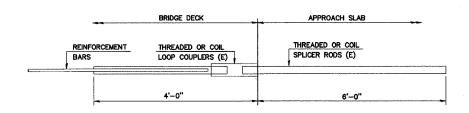
BAR SPLICER ASSEMBLY ALTERNATIVES

 $^{\bullet\bullet}$  HEAVY HEX NUTS CONFORMING TO ASTM A 563, GRADE C, D OR DH MAY BE USED.



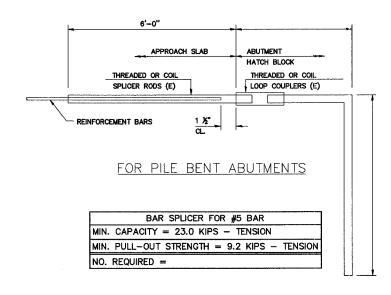
## INSTALLATION AND SETTING METHODS

"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.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

BAR SPLICER FOR #5 BAR								
MIN.	CAPA	CITY	= 23.0	KIPS	- TI	ENSIO	1	
MIN.	PULL-	-OUT	STREN	GTH =	9.2	KIPS	_	TENSION



TOTAL SHEET NO. FAU RTE SECTION COUNTY 2736 03-00227-00-RS LAKE 122 64 ILLINOIS PROJECT M-8003 (453)

## 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

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) =  $1.25 \times fy \times A_t$ 

MINIMUM \*PULL-OUT STRENGTH (TENSION IN KIPS) =  $1.25 \times fs_{\alpha llow} \times A_t$ 

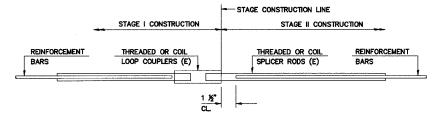
WHERE fy = YIELD STRENGTH OF LAPPED REINFORCEMENT BARS IN ksi.  $fs_{cllow} = ALLOWABLE TENSILE STRESS IN LAPPED REINFORCEMENT$ 

BARS IN ksi (SERVICE LOAD)  $A_{\pm} = \text{TENSILE STRESS AREA OF LAPPED REINFORCEMENT BARS.}$ 

= 28 DAY CONCRETE

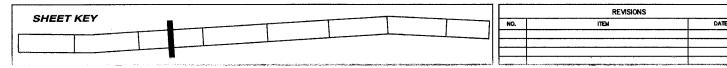
BAR SPLICER ASSEMBLIES					
BAR SIZE	SPLICER ROD OR	STRENGTH REQUIREMENTS			
TO BE SPLICED	DOWEL BAR LENGTH	MIN. CAPACITY KIPS — TENSION	MIN. PULL—OUT STRENGTH KIPS — TENSION		
#4	1'-8"	14.7	5.9		
#5	2'-0"	23.0	9.2		
<b>#</b> 6	2'-7"	33.1	13.3		
<b>#</b> 7	3'-5"	45.1	18.0		
#8	4'-6"	58.9	23.6		
#9	5'-9"	75.0	30.0		
#10	7'-3''	95.0	38.0		
#11	9'-0''	117.4	46.8		

- 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
#7	72	E. END OF BARREL
#8	32	E. END OF BARREL



SCALE:	NTS
DRAWN BY:	CJP
 CHECKED BY:	л
 DATE:	1-16-08



## **BAR SPLICER ASSEMBLY DETAILS** SHERIDAN ROAD IMPROVEMENTS

122

SHEET NO.

of

64

JOB NUMBER: 02-28-04-164 Wildwg\WK\SHERIDAN-RD\Underpass\1-13-06\PEDESTRIAN UNDERPASS E5.dwg 1/16/2006 9/39/04 AM CST