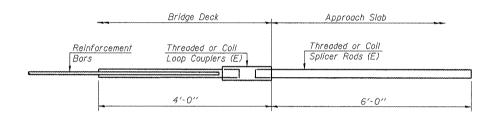


BAR SPLICER ASSEMBLY ALTERNATIVES

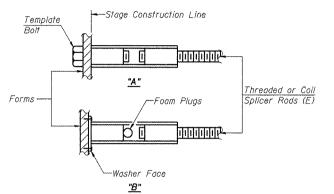
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

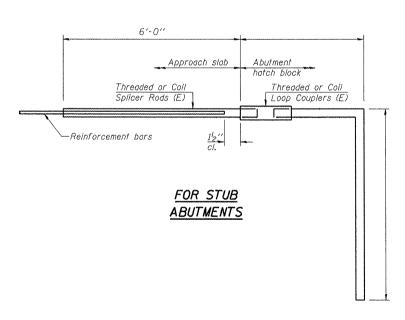
BAR SIZE	NO. ASSEMBLIES REQUIRED	LOCATION

BAR SIZE	NO. ASSEMBLIES REQUIRED	LOCATION



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.



	Bar Splicer for #5 bar
Min.	Capacity = 23.0 kips - tension
Min.	Pull-out Strength = 12.3 kips - tension

SCALE:

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 fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

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) = $1.25 \times fy \times A_t$

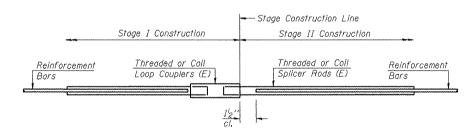
(Tension iii kips)
Minimum *Pull-out Strength $= 0.66 \times fy \times A_t$ 2

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

A₁ = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

reinforcement bars.

	BAR SPLIC	ER ASSEMBLI	ES		
		Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		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

STRUCTURE NO. 050-0169 (SB)

	***************************************	·······
BAR SIZE	NO. ASSEMBLIES REQUIRED	LOCATION
#6	4	N ABUT
#7	11	N END - DECK
#6	10	N END - DECK
#6	4	S ABUT
#7	11	S END - DECK
#6	10	S END - DECK

STRUCTURE NO. 050-0170 (NB)

	***************************************		4-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		
	BAR SIZE	NO. ASSEMBLIES REQUIRED	LOCATION		
#6		4	N ABUT		
	#7	11	N END - DECK		
	#6	10	N END - DECK		
	#6	4	S ABUT		
	#7	11	S END - DECK		
	#6	10	S END - DECK		

TO STA.

BSD-1

10 - 1 - 08

FILE NAME =	USER NAME = woodshankrl	DESIGNED	-	RON WOODSHANK	REVISED	-	
c:\pw_work\PWIDOT\WOODSHANKRL\dms91655\	D3-66890-details.dgn	DRAWN	~	RON WOODSHANK	REVISED	-	M. A. C. M. A. C. M. C.
	PLOT SCALE = 100.0000 '/ IN.	CHECKED	-	~~~	REVISED	-	
	PLOT DATE = Mar 25, 2009 - 06:59:44 AM	DATE	~		REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BAR	SPLICER	ASSEMBLY	_
	DETA	AILS	

SHEET NO. 1 OF 1 SHEETS STA.

	F.A.I. SECTION 39 (50-7B)I-2		COUNTY	TOTAL	SHEE NO.	
			LASALLE	29	29	
_				CONTRACT	NO. 6	6890
	FED. RO	DAD DIST. NO	ILLINOIS			