**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

Bar splicer assembles shall be epoly course according to the regardland of the regardland to the 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:

Where fy = Yield strength of lapped reinforcement bars in ksi. A<sub>1</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES				
Bar Size to be Spliced		Strength Requirements					
			Min. Pull-Out Strength kips - tension				
#4	1'-8''	14.7	7.9				
#5	2'-0''	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				



Bar Size	No. Assemblie Required
#6	18
#7	18
#6	18
#7	18

The diameter of this part is equal or larger than the diameter of bar spliced. The diameter of this part is the same as the diameter of the bar spliced.	Template Bolt Forms Forms Washer Face
BAR SPLICER ASSEMBLY ALTERNATIVES **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 nailling to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

Approach Slab

6'-0''

Threaded or Coll Splicer Rods (E)

Bridge Deck

4'-0''

No. Required =

Reinforcement Bars

Threaded or Coll Loop Couplers (E)

1

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



Threaded or Coll Splicer Rods (E)

	Bar	- 5	plice	er i	fol	- #5	bar	-	
Min.	Capacity	æ	23.0	O k	ip	s -	tensio	n	
Min.	Pull-out	St	reng	th	=	12.3	kips	-	tension
No.	Required	=							

5-16-08

DESIGNED REVISED ILE NAME = USER NAME = swartzrw BAR SPLICER ASSEMBLY DETAILS STATE OF ILLINOIS REVISED DRAWN Now\_work\PWIDOT\SWARTZRW\dms36208 ledesian\_94993.dan SN. 026-0005 AND 026-0006 **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 20.0000 '/ IN. CHECKED REVISED SHEET NO. 9 OF 10 SHEETS STA. PLOT DATE = 10/17/2008 DATE REVISED SCALE: N/A

BSD-1

Stage II Construction

Threaded or Coil	Reinforcement
Splicer Rods (E)	Bars

s	Location
	026-0005
	026-0005
1	026-0006
	026-0006

## BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO.

							SHEET	NO. 9
							10 SH	EETS
LS	F.A.I. RTE.	I. SECTION				COUNTY	TOTAL SHEETS	SHEET NO.
	70	D-7	BRIDGE	DECK	REPAIR	S FAYETTE	59	32
	CONTRA	CT NO. 9	34993					
TO STA.	FED. RC	DAD DI	ST. NO.	ILLIN	OIS FED.	AID PROJECT		