ROUTE NO.	SECTION	COUNT	r	TOTAL SHEETS	SHEET NO.
F.A.P. 714	*	CHRISTIA	1N	94	6.3
FED. ROAD D	IST. NO.	ILLINOIS	FE	D. AID P	ROJECT

OF 8 SHEETS

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 relinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or colled 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 = $1.25 \times fy \times At$

(Tension in kips)

Minimum *Pull-out Strength = 1.25 x fsallowx At

(Tension in kips)

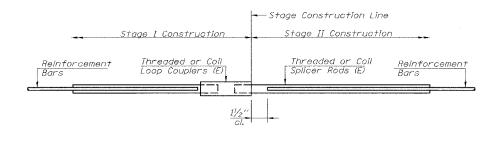
Where fy = Yield strength of lapped reinforcement bars in ksi.

fsallow= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

At= Tensile stress area of lapped reinforcement bars.

BAR SPLICER ASSEMBLIES							
0 0 1		Strength Requirements					
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension				
#4	1'-8''	14.7	5.9				
# 5	2'-0"	23.0	9.2				
#6	2'-7''	33.1	13 . 3				
#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."

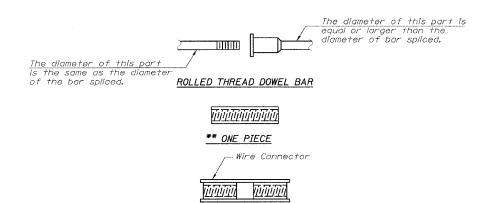


STANDARD

Bar Size	No. Assemblies Required	Location	
#6	20	TOP SLAB	
#4	20	TOP SLAB	
#4	40	BOTTOM SLAB	
#5	12	WALLS	
Total	92		

BAR SPLICER ASSEMBLY DETAILS IL. ROUTE 48 OVER
TRIBUTARY TO BUCKHART CREEK
F.A.P. ROUTE 714 - SECTION D-6 IL 48 IMPROVEMENT 2006 CHRISTIAN COUNTY STA. 3+01.00 S.N. 011-2512

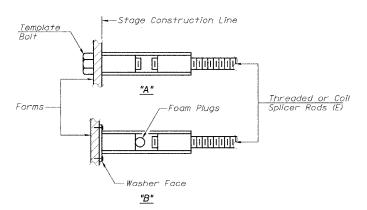
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY ALTERNATIVES

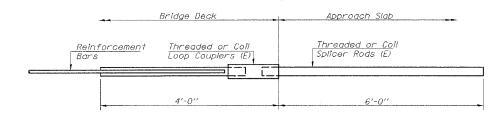
WELDED SECTIONS

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



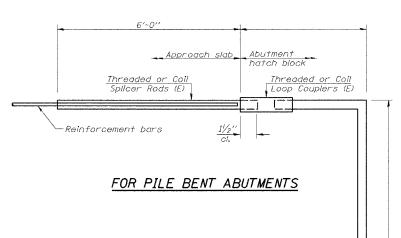
INSTALLATION AND SETTING METHODS

"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. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tensior



Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tension