



DESIGNED	-	SP	
CHECKED	-	AD	
DRAWN	-	SP	
CHECKED	-	AD	
BSD-1			11-1-06

ROUTE NO.	SECTION			TOTAL SNEETS	Τ	SHEET NG.	SHEET NO S-28 S-66 ⁻ SHEETS
346	•			469	Τ	197	
FED. RCAD DIST	ND.	D.LINOIS	FED, AID PR	DJECT-			
125X-HB	~(1&2) F	₹-1	CC	NTRACT	#	60826	

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

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 x fy x A_t

(Tension III KIPS) Minimum *Pull-out Strength = 0.66 x fy x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi. $A_{\rm f}$ = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

CER ASSEMBLI	ES			
Strength Requirements				
Min. Capacity kips - tension	Min. Pull-Out Strengt kips - tension			
14.7	7.9			
23.0	12.3			
33.1	17.4			
45.1	23.8			
58.9	31.3			
75.0	39.6			
95.0	50.3			
117.4	61.8			
	Min. Capacity kips - tension 14.7 23.0 33.1 45.1 58.9 75.0 95.0			

	- Stage Construction Line	
Construction	Stage II Construction	
ded or Coil Couplers (E)	Threaded or Coll Splicer Rods (E)	Reinforcement Bars
<u>1/2/</u> cl.		

STANDARD

Location	
Deck	
lorth Abutment	
lorth Abutment	
Pier 1	
Pier 1	
Pier 1	
Pier 2	
Pier 2	
Pier 2	
outh Abutment	BAR SPLICER ASSEMBLY DETAILS
outh Abutment	· · · · ·
	FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132 SECTION 125X-HB-(1&2)R-1 LAKE COUNTY S.N. Ø49-Ø2Ø9