

NAME = J-NO598/DRAWINGS/SNO19-CO44/SNO19-O044.d STELE = LODOD / INBRY = XES.8850_ENG_BRIDGE.pH DATE = 127/4/2006 TIME = 127/4/2006 ATOP = michelion PLOT PLOT

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."

	ROUTE ND.	SECTION	co	JNTY	TOTAL SHEETS	SHEET NO.	SHEET	NO. 11
	FAU 567 (IL 38)	34-XBR	DEK.	ALB	90	42	<i>14</i> sн	EETS
	FED. ROAD DIST, NO.		ILLINOIS	FED. NID PROJECT-]	
NOTES	Contract	No. 6	4583					

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:

(Tension in Kipo) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A₁

Where fy = Yield strength of lapped reinforcement bars in ksi. fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

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BAR SPLICER ASSEMBLIES						
	Strength Requirements					
Splicer Rod or Iowel Bar Length		Min. Pull-Out Strength kips - tension				
1'-8''	14.7	5.9				
2'-0''	23.0	9.2				
2'-7''	33.1	13.3				
3'-5''	45.1	18.0				
4'-6''	58.9	23.6				
5'-9''	75.0	30.0				
7'-3''	95.0	38.0				
9'-0''	117.4	46.8				

	-	🗕 Stage	Constr	uction Lin	e				
struction			Stage I.	l Construc	tion				
1 or Coil uplers (E)						Reinforcement Bars			
	<u>1'2''</u> cl. <u>ST</u> A	ANDAF	<u>8D</u>						
ssemblies quired	Loc	cation							
229	D	eck							
12	Abui	t, Cap							
52	Pier	- Wall							
12	Pier	- Сар							
*****				ILLINO	IS DEPA	RTMENT OF	TRA	NSPORT	ATION
				<u>BAR S</u>	SPLICE	<u>ER ASSE</u>	MBL	Y DE	<u>TAILS</u>
	RE	EVISIONS E	DATE	SCALE, VE	UTH BRAN DEKALE RT. RIZ.	ROUTE 567 (ICH OF THE K 3 COUNTY - 1 STA. 140+9 S.N. 019-0	.ISHWA SEC, 3 6,71 044 DR DE	OVER UKEE RIVE 4-XBR AWN BY: SIGNED BY: ECKED BY:	LANDREY TRELLO
-				GN	GREENE &	BRADFORD, INC.		COMPUTER SN019-0	FILE NO.
					SIGLED SPRINGTE PROFESSIONAL D PROFESSIONAL & STRUCT HIGH 4. (217) 733-6227 (3)	LTINE ENERGERS INSTITUTION DRIVE E.D. LANDIS 6274 ESION FRIM 20, 84-00179 TUPAL, ENERGERING CORPORATION , E-MAR, - ocdeprogrammation	ravisis	PROJECT 12/4/	05198 06-MML