

287 SHEET NO. 13 FAS 253 (IL 251) 68 BR-1 97 84 15 SHEETS WARSHALL Contract #68573

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 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 (Tension in kips) = 1.25 x fy x A_1

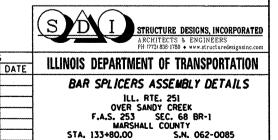
NAME

(Tension in Kips)
Minimum *Pull-out Strength = 0.66 x fy x A_t (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	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
#]]	9'-0''	117.4	61.8



DESIGNED BY: S.G. DATE: 11-20-08

DRAWN BY: T.C.S. CHECKED BY: O.A.O.