

BLOCK NAME

NORTH8 PARELEV SCTATPAR

DATE NAME SCALE PLOT Contract #76267

F.A.P. RTE.	SEC.	COUNTY		TOTAL SHEETS	SHEET NO.
592	121-1R, 121HVB	ST. CLAIR		239	152
F.H.W.A. REGION 7		ILLINOIS P	ED. AI	D PROJE	CT

SHEET NO.: 16 SHEETS: 23

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

(lension in κιρς) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t (Tension in kips)

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

BAR SPLICER ASSEMBLIES							
		Strength Requirements					
r Size to Spliced	Davial Dar Lanath	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension				
#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				

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."

