Bridge Deck Approach Slab ------ Reinforcement Bars Threaded or Coll -Loop Couplers (E) - Threaded or Coil Splicer Rods (E) ____ 4'-0" 6'-0"

SPLICER DETAIL

BA	\mathbf{R}	SP	LIC	ER	F	OR	#	5	BAR
Min.	Сар	acity	= 2	3.0 I	kips		tens	ion	
Min.	Pul	l-out	Stre	ngth	= 9	9.2	klps	-	tension
Tota	/ No	. Rec	uirea	1 =	78				



ROLLED THREAD DOWEL BAR



** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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

NOTES:

Bar splicer assemblies shall be of an approved type and shall develop in tension at least

Bot splicer dssembles shall be or an approved type and shall develop in tension of two 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 fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

childrocement 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 x fy x A;
(Tension in kips) = 1.25 x fy x A;
(Tension in kips) = 1.25 x fsalow x A;

Where fy = Yield strength of lapped reinforcement bars in ksi. $A_1 = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)$ $<math>A_1 = Tensile stress area of lapped reinforcement bars.$ * = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES			
		Strength Requirements				
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	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."



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template balt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.

F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	SHEET NO. 84
6325	02-00090-00-BF	LIVINGSTON	31	11	OF <i>18</i> SHEETS
STA.		TO STA.			
FED. RC	AD DIST. NO. 7	ILLINOIS FED.	AID PROJ	ECT.	
CONTRA	CT NO. 87238				

SECTION 02-00090-00-BR LIVINGSTON COUNTY PONTIAC, ILLINOIS						
BAR SPLICER ASSEMBLY DETAILS						
J.M.L.	Farnsworth	FILE NO. 24-6884				
DRAWN BY D.J.M.	GROUP 2709 Wolknew Drive	01-14-05				
CHECKED BY M.S.W.	Bloomington, Illinois 61704 309/363-6435, 309/363-1671 (az	SHEET NO. 11 of 31				