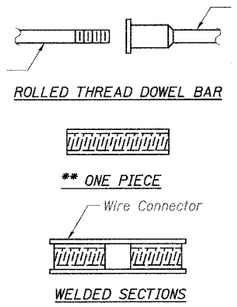
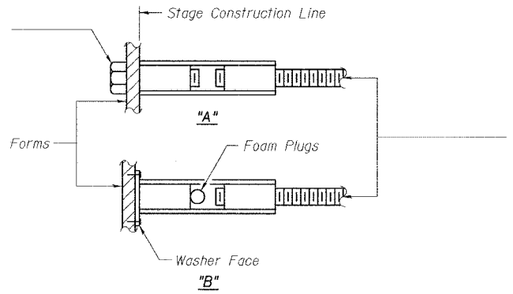
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 203	11BR-1	WHITESIDE	43	20

CONTRACT # 64939



BAR SPLICER ASSEMBLY ALTERNATIVES



INSTALLATION AND SETTING METHODS

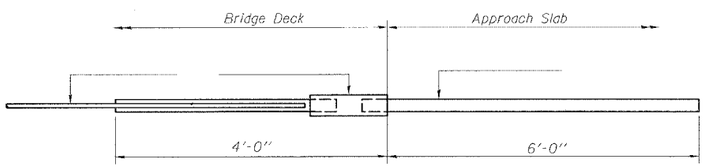
NOTES

① Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

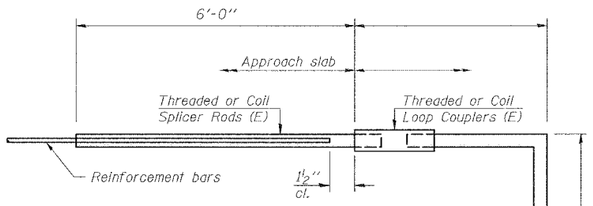
② Minimum *Pull-out Strength (Tension in kips) = 1.25 x fs_{allow} x A_t

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

BAR SPLICER ASSEMBLIES			
	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	
#5	2'-0"	23.0	
#6	2'-7"	33.1	
#7	3'-5"	45.1	
#8	4'-6"	58.9	
#9	5'-9"	75.(	
#10	7'-3"		
#11	9'-0"		

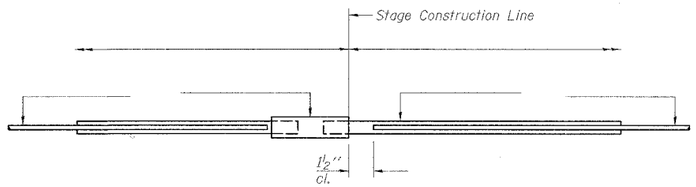


Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

	No. Assemblies Required	Location

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

BAR SPLICER ASSEMBLY DETAILS
FAS ROUTE 203 (MOLINE ROAD)
OVER MEREDOSIA DITCH
SECTION 11BR-1
STA. 428+20.80
WHITESIDE COUNTY
SN 098-0111