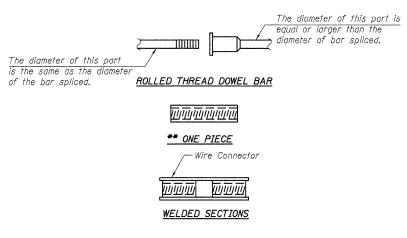
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

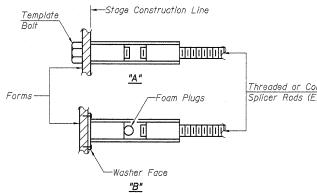


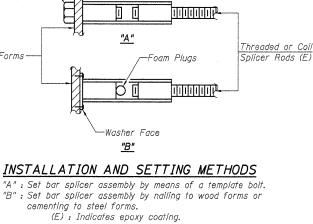
BAR SPLICER ASSEMBLY ALTERNATIVES

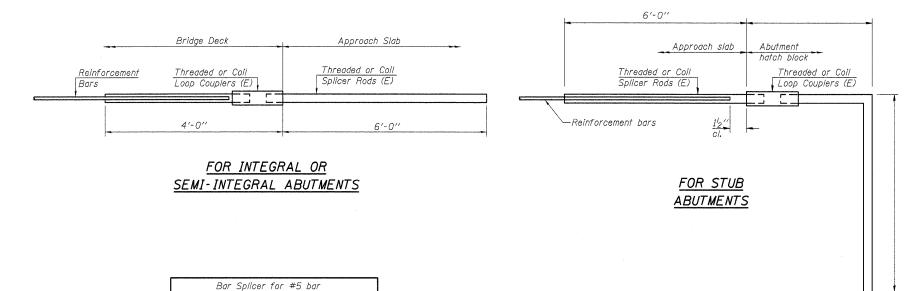
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

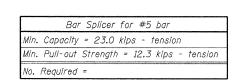
Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension

Required =









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 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_t

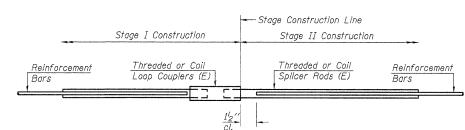
(lension וון גיפען) Minimum *Pull-out Strength = 0.66 x fy x A_f (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

DAD ODLICED ACCENDITEC								
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'-2"	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					
#11	9'-0"	117.4	61.8					



STANDARD

Bar Size	No. Assemblies Required	Location
#5	60	Top Slab
#5	60	Bottom Slab
#5	44	Walls

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 041-2017

SHEET NO. 17

	LIN ENGINEERING, LTD.	SHEET NO.4	F.A.P. RTE.	SEC ⁻	TION		COUNTY	TOT	
E	Consulting Engineers Chatham, Illinois		849	113	-В		JEFFERSON	24	1
		6 SHEETS			CONTRACT	NO.	78		
esigned By: TBP Date: 2/2009	Checked By: MTH Drawn By: TBP File: 041-2017.dgn		FED. RO	DAD DIST. NO.	ILLINOIS	FED. AI	PROJECT		