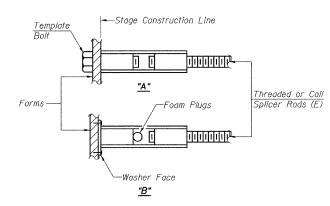
** ONE PIECE WELDED SECTIONS

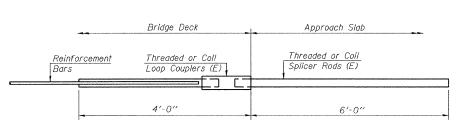
BAR SPLICER ASSEMBLY ALTERNATIVES

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

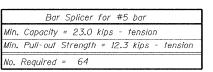


INSTALLATION AND SETTING METHODS

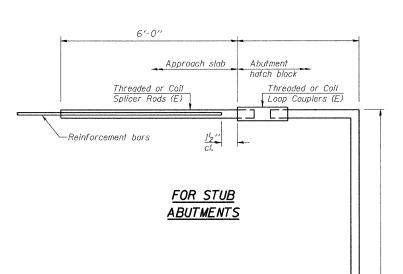
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



DESIGNED CHECKED DRAWN CHECKED BSD-1 10-1-08



Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension Required =

Stage Construction Line Stage I Construction Stage II Construction Threaded or Coil Threaded or Coil Reinforcement Reinforcement Loop Couplers (E) Splicer Rods (E) Bars Bars

<u>NOTES</u> Bar splicer assemblies shall be of an approved type and shall develop in tension at least

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 ASSEMBLIES

14.7

33.1

45.1

58.9

75.0

95.0

117.4

Strength Requirements

Min. Capacity Min. Pull-Out Strength

kips - tension

7.9

12.3

17.4

23.8

31.3

39.6

50.3

61.8

125 percent of the yield strength of the lapped reinforcement bars.

bar splicer assembly satisfies the following requirements:

1

be Spliced

#4

#5

#6

#8

#9

#10

#11

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

(Tension in kips)
Minimum *Pull-out Strength $\cdot \cdot \cdot \cdot \cdot = 0.66 \times \text{fy} \times \text{A}_{1}$

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Splicer Rod or

Dowel Bar Length

1'-8''

2'-2'

2'-7"

3'-5"

4'-6'

5'-9"

7'-3"

9'-0"

STANDARD

Bar Size	No. Assemblies Required	Location

benesch

alfred benesch & company Engineers • Surveyors • Planners 205 North Michigan Avenue, Suite 2400

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 027-0097

•							
SHEET NO. S18	F.A.P. RTE.	SECT	TION	COUNTY	TOTAL SHEETS	SHEET NO.	
31,221 1,01 010	796	104 I &	105 BR-1	FORD	51	32	
SHEETS S22				CONTRACT	NO. 6	6848	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							