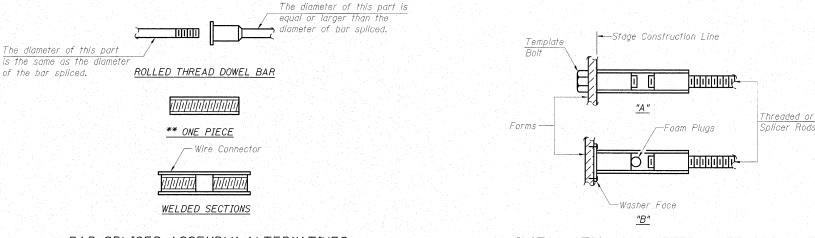
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



**Heavy Hex Nuts conforming to ASTM

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.

Threaded or Coil Splicer Rods (E)

Stage Construction Line Stage I Construction Stage II Construction Threaded or Coil Threaded or Coil Reinforcement Reinforcement Splicer Rods (E) Loop Couplers (E) Bars Bars $\frac{l_2^{\prime\prime}}{cl}$

STANDARD

NOTES

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

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

kins - tension

14.7

23.0

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

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

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

(Tension III Kips)
Minimum *Pull-out Strength = 0.66 x fy $x A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi. A, = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

Splicer Rod or

3'-5"

41-61

5'-9"

7'-3"

9'-0"

be Spliced Dowel Bar Length

bar splicer assembly satisfies the following requirements:

(Tension in kips)

Bar Size to

#4

#5

#6

#7

#8

#9

#10

#11

reinforcement bars.

Bar Size	No. Assemblies Required	Location
#5	381	Deck
#6	16	Diaphragms
#5	172	Bridge Appr.
#4	50	Bridge Appr,
#7	20	Abutments
#7	20	Piers
#5	70	Piers

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 037-0175

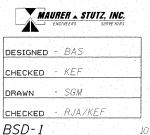
SHEET NO. 21	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	638	129 BR-3	HENRY	73	38			
24 SHEETS	1 1 1 1 1 1 1		CONTRACT	NO. 64	B08			
	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT							

BAR SPLICER ASSEMBLY ALTERNATIVES

A 563, Grade C, D or DH may be used.

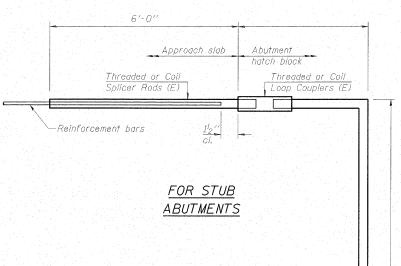
Bridge Deck Approach Slab Threaded or Coil Reinforcement Threaded or Coil Splicer Rods (E) Loop Couplers (F) FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 82



of the bar spliced.

10-1-08



Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =

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