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:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

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

BAR SPLICER ASSEMBLIES

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8''	14.7	7.9
#5	2'-0''	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

ROLLED THREAD DOWEL BAR

The diameter of this part is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

** ONE PIECE

Wire Connector

WELDED SECTIONS

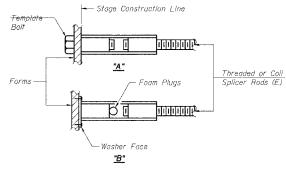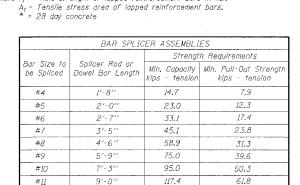## BAR SPLICER ASSEMBLY ALTERNATIVES

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

Template Bolt — Stage Construction Line

"A"

Forms — Foam Plugs — Threaded or Coil Splicer Rods (E)

Washer Face

"B"

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.

Bridge Deck — Approach Slab

Reinforcement Bars — Threaded or Coil Loop Couplers (E) — Threaded or Coil Splicer Rods (E)

4'-0'' — 6'-0''

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 =	

6'-0''

Approach slab — Abutment hatch block

Threaded or Coil Splicer Rods (E) — Threaded or Coil Loop Couplers (E)

Reinforcement bars — $1\frac{1}{2}''$ cl.

FOR STUB ABUTMENTS

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

Stage I Construction — Stage Construction Line — Stage II Construction

Reinforcement Bars — Threaded or Coil Loop Couplers (E) — Threaded or Coil Splicer Rods (E) — Reinforcement Bars

$1\frac{1}{2}''$ cl.

STANDARD

Bar Size	No. Assemblies Required	Location
#6	3	0117 APPROACH
#7	6	0117 DECK
#6	5	0117 DECK
#5	17	0117 DECK
#6	3	0118 APPROACH
#7	6	0118 DECK
#6	5	0118 DECK
#5	15	0118 DECK

BAR SPLICER ASSEMBLY DETAILS

BSD-1   11-1-06