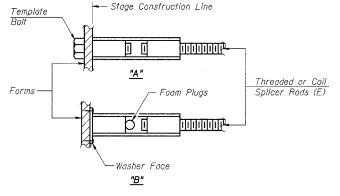
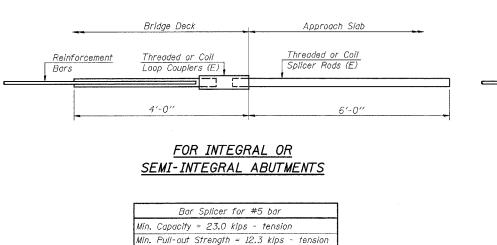


A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

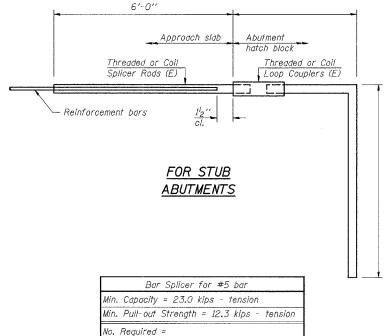
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



No. Required =

11-1-06

BSD-1



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 = 1.25 x fy x A_t

(Tension in kips) = 1.25 x fy x A_t

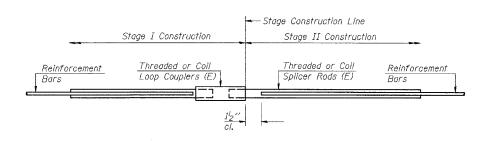
Minimum *Pull-out Strength = 0.66 x fy x A_t

(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

| | | | | | | | |
|------------------------|------------------------------------|-----------------------|--|--|--|--|--|
| BAR SPLICER ASSEMBLIES | | | | | | | |
| | Splicer Rod or Dowel Bar Length | Strength Requirements | | | | | |
| | | | 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 | | | | |



STANDARD

| Bar Size | No. Assemblies Required | Location |
|-------------|----------------------------|-----------|
| #5 | 32 | Deck |
| #6 | 6 | Abutments |
| | | |
| | | |
| | | |

BAR SPLICER ASSEMBLY DETAILS IL 84 OVER PLUM RIVER FA ROUTE 18 (IL 84) SECTION 106BR CARROLL COUNTY STRUCTURE NUMBER 008-0028

* Various

| (100DIVM, ITD Z/M & 111 TD Z/M & 111 TD Z/M | | | | | | | | | |
|---|-----------------------|--------------|-------|--|--|--|--|--|--|
| FILE NAME = lunkdj DESIGNED - REVISED - SE | ION CO | DUNTY TOTAL | SHEET | | | | | | |
| ONBRYCADD plans/Versious Countries/Control #64D99 2008 expension_joints/8868028.dgm DRAWN - REVISED - | Va | rious 26 | 16 | | | | | | |
| PLOT SCALE = 50,0000 1/ IN. CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION | | NTRACT NO. 6 | 64D99 | | | | | | |
| PLOT DATE = Sat Mar 15 11:13:100 2006 | ILLINOIS FED. AID PRO | JECT | | | | | | | |