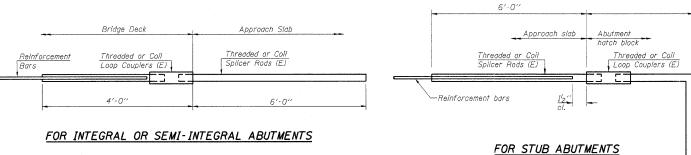
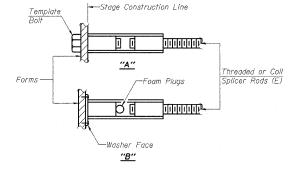


BAR SPLICER ASSEMBLY ALTERNATIVES

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

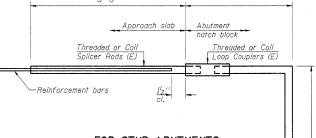


Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =



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.



fin. Capacity = 23.0 kips - tension n. Pull-out Strength = 12.3 kips - tension Required =

<u>NOTES</u>

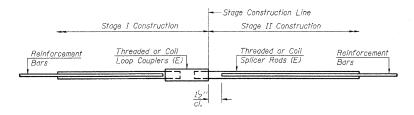
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksl yield strength, threaded or colled 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:

| | BAR SPLIC | ER ASSEMBLI | ES |
|-----|------------------------------------|-----------------------|--|
| | 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 |



<u>STANDARD</u>

| Bar Size | No. Assemblies Required | Location |
|-------------|----------------------------|----------|
| #6 | 18 | 026~0007 |
| #7 | 18 | 026-0007 |
| | | |
| #6 | 18 | 026-0008 |
| #7 | 18 | 026-0008 |

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO.

BSD-1

FILE NAME = DESIGNED REVISED DRAWN REVISED PLOT SCALE = 20.0000 CHECKED REVISED PLOT DATE = 10/17/2008 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** BAR SPLICER ASSEMBLY DETAILS SN. 026-0007 AND 026-0008

SHEET NO. 12 SHEETS
COUNTY TOTAL SHEETS NO.
FAYETTE 59 44 SECTION CONTRACT NO. 94993

70 D-7 BRIDGE DECK REPAIRS SHEET NO. 11 OF 12 SHEETS STA. TO STA.