

STANDARD BAR SPLICER ASSEMBLY

| Minimum Lap Lengths | | | | | |
|---------------------------|---------|---------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 |
| 3, 4 | 1'-5'' | 1'-11'' | 2'-1'' | 2'-4'' | 2'-3'' |
| 5 | 1'-9'' | 2'-5'' | 2'-7'' | 2'-11'' | 2′-10′′ |
| 6 | 2'-1'' | 2'-11'' | 3′-1′′ | 3′-6″ | 3'-4'' |
| 7 | 2'-9'' | 3′-10′′ | 4'-2'' | 4'-8'' | 4'-6'' |
| 8 | 3′-8′′ | 5′-1′′ | 5′-5″ | 6'-2'' | 5′-10′′ |
| 9 | 4'-7'' | 6′-5′′ | 6′-10′′ | 7′-9′′ | 7′-5′′ |

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + l_2'' + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|--------------------------|-------------|----------------------------|---------------------------------|
| Top Slab | #4(E) | 27 | Table 3 |
| Approach Slab | #4(E) | 50 | Table 3 |
| Bottom Slab | #5 | 52 | Table 1 |
| Interior Wall | #5 | 8 | Table 1 |
| Approach Slab | #5(E) | 92 | Table 3 |
| Approach Slab Footing | #5(E) | 80 | Table 3 |
| Exterior Side Walls | #7 | 14 | Table 1 |
| Top Slab | #7(E) | 27 | Table3 |



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No, reauired =

7-1-10

PLOT DATE = 8:58:14 AM 12/14/2011



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.



STATE OF ILLINOIS

BSD-1

3 OAK DRIVE IARYVILLE, ILLINOIS 620 PHONE (010) 200-4665 FAX (610) 200-4665

ILE NAME = ...\0/42024-76B43-0/3-Bar Splicers.bg#ER NAME = DESIGNED REVISED Illinois Design Firm Number 184.001670 CHECKED REVISED LOT SCALE = ORAWN JG REVISED **DEPARTMENT OF TRANSPORTATION**

CHECKED - CJE

REVISED

| BAR SPLICER ASSEMBLY DETAILS | | SECTION | COUNTY | TOTAL SHEETS | |
|---|-----|---------|----------|-----------------|------|
| STRUCTURE NO. 014–2024 | 327 | 20BR | CLINTON | 51 | 39 |
| 31100101L NO. 014-2024 | | | CONTRACT | NO. 7 | 6B43 |
| SHEET NO. 13 OF 15 SHEET FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT | | | | | |



STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required | | |
|----------|-------------|----------------------------|--|--|
| | | | | |
| | | | | |
| | | | | |

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies for alternatives.