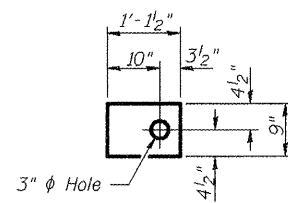


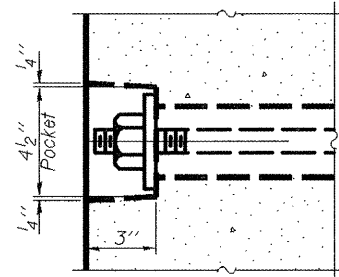
INTERIOR

(30 Fixed and 30 Expansion required)

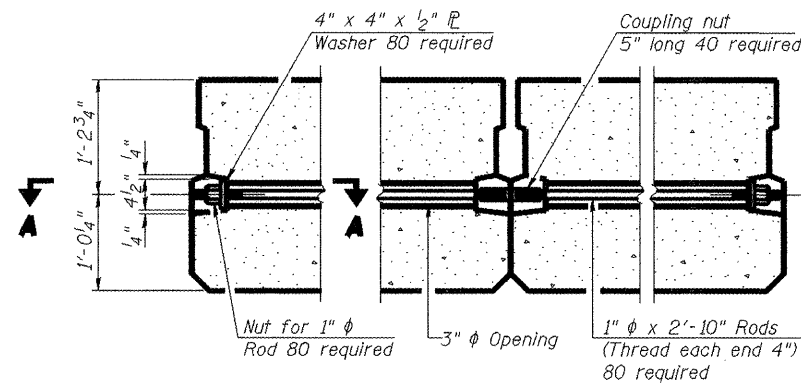


EXTERIOR

(6 Fixed and 6 Expansion required)



SECTION A-A

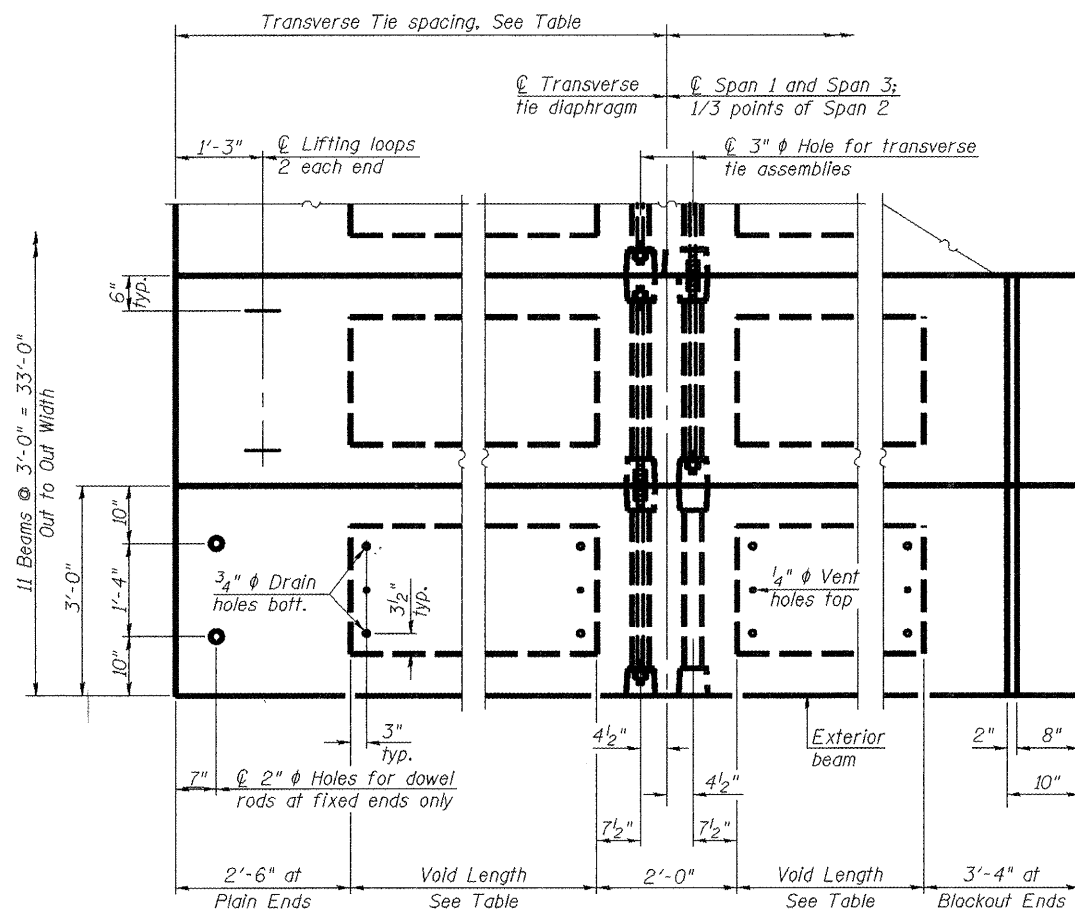


TYPICAL TRANSVERSE TIE ASSEMBLY

Spans 1 and 3: 1 Tie Assembly at Centerline Spans
Span 2: 2 Tie Assemblies at 1/3 points of Span

FIXED FABRIC BEARING PADS

Note: Omit holes when using expansion bearings.

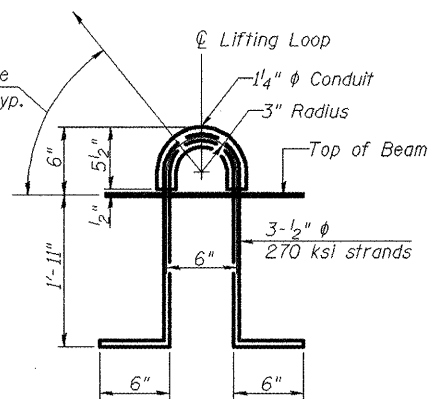


PLAN VIEW

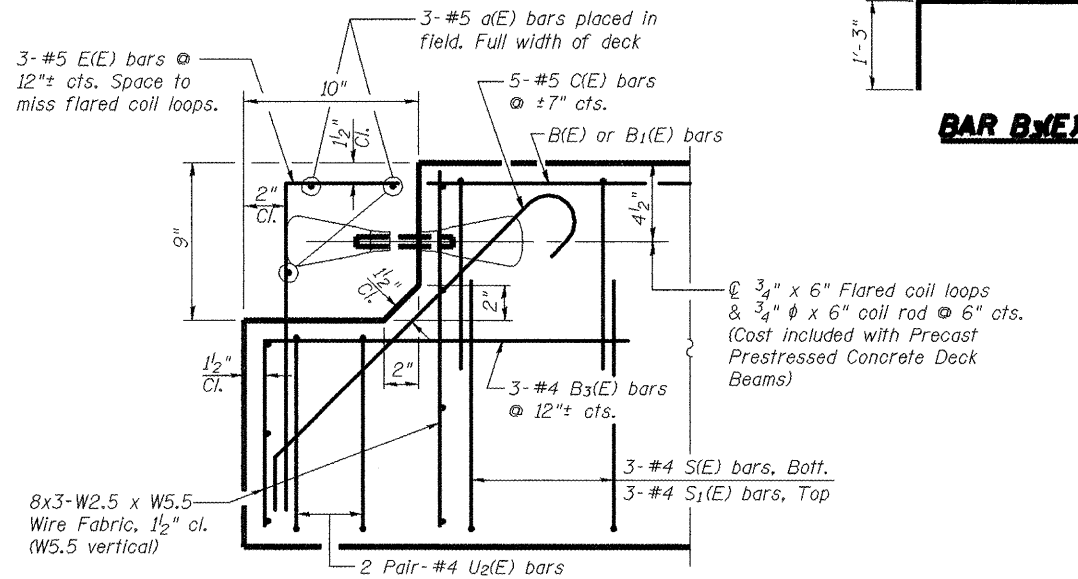
Note: Connect beams in pairs with the transverse tie configuration shown.

TRANSVERSE TIE SPACING AND VOID LENGTHS TABLE

| Span | Number of Tie Spaces and Number of Voids | Tie Spacing Along South Edge of Deck | Tie Spacing Along North Edge of Deck | Void Lengths Along South Edge of Deck | Void Lengths Along North Edge of Deck |
|------|--|--------------------------------------|---|---|---|
| 1 | 2 | 23'-9 5/8" | 24'-0 7/8" | W. End 19'-5 5/8" E. End 20'-3 3/8" | W. End 19'-8 7/8" E. End 20'-6 7/8" |
| 2 | 3 | 3 Spaces @ 18'-8" | 18'-6" End 18'-8" Center 18'-6" End | 15'-2" W. End 16'-8" Center 14'-4" E. End | 15'-0" W. End 16'-8" Center 14'-2" E. End |
| 3 | 2 | 23'-5 5/8" | 23'-3 7/8" | 2 Spaces @ 19'-1 1/8" | 2 Spaces @ 18'-11 5/8" |



LIFTING LOOP DETAIL

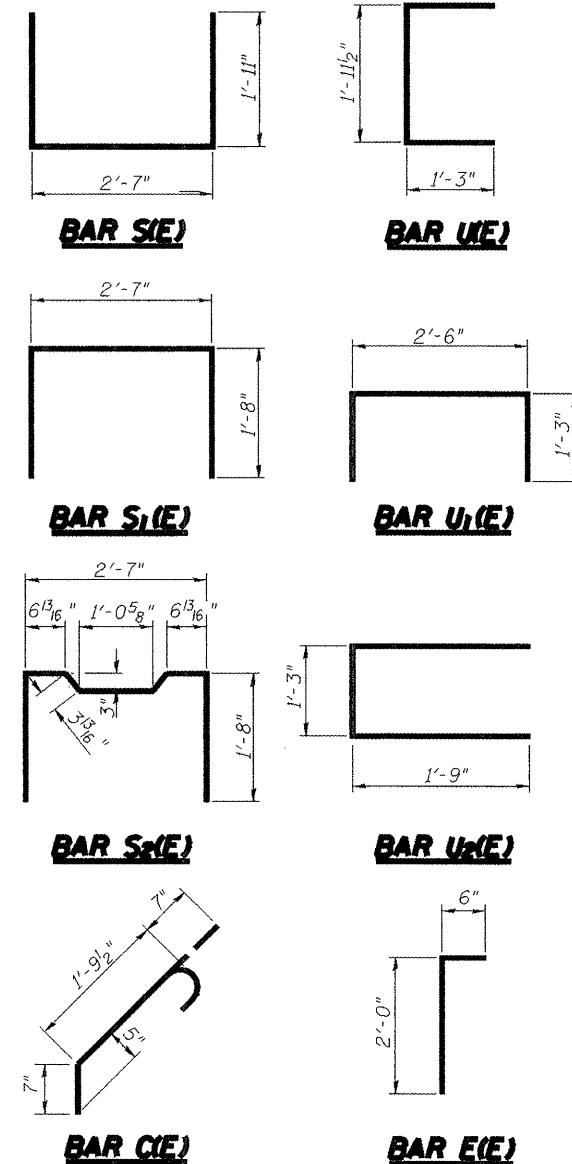


END OF BEAM DETAIL AT PREFORMED JOINT STRIP SEAL

(Typ. at both Abutments and Pier 2)

NOTES

- 1.) Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- 2.) The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- 3.) Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- 4.) Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- 5.) A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- 6.) Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- 7.) Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- 8.) Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|--|-----|---------|--------|-------|
| a(E) | 12 | #5 | 32'-8" | |
| Precast Prestressed Concrete Deck Beams (27" Depth) | | Sq. Ft. | 4,966 | |
| Concrete Superstructure Reinforcement Bars, Epoxy Coated | | Cu. Yd. | 3.9 | |
| | | Pound | 410 | |

**27" x 36" PPC DECK BEAM DETAILS
SPOON RIVER ROAD
STATION 2-25.00**

| | |
|----------|-----|
| DESIGNED | PJL |
| CHECKED | LLV |
| DRAWN | MGM |
| CHECKED | PJL |

| | | | | | |
|---|------------------------|----------------|--------|---|-----------|
| AECOM 111 NE Jefferson Ave. Peoria, Illinois 61602 Ph: 309.676.8464 Fax: 309.676.5445 IL Design Firm Reg. No. 184-001518 www.aecom.com | HWY | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | CH R15 | 08-00092-01-BR | PEORIA | 16 | 10 |
| | STRUCTURE NO. 072-3101 | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BROS-143(050) | |