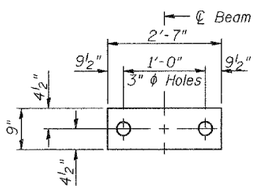
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Ogle	15	14
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
3 SHEETS

Contract Number: 64C02



FABRIC BEARING PAD
FIXED

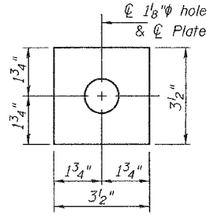
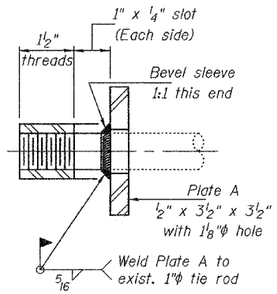
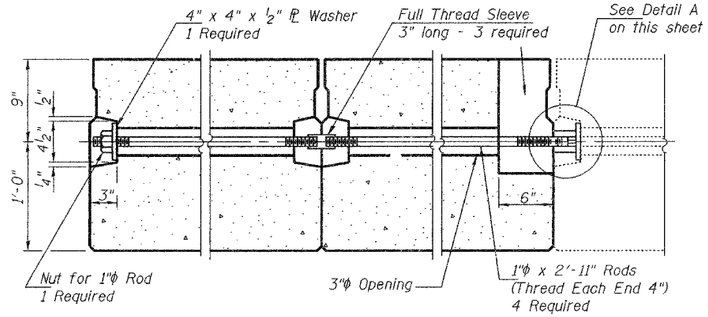


PLATE A
(1 Required)

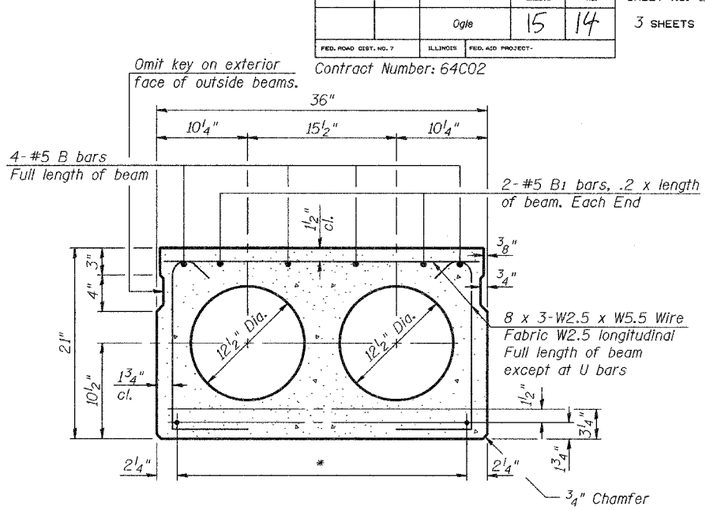


SECTION A-A
(1 Required)

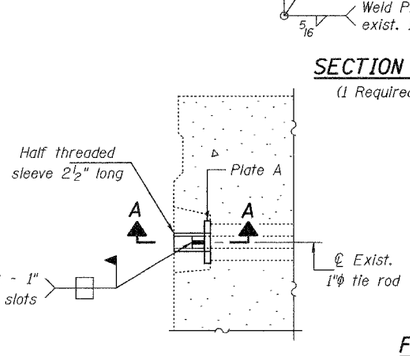
6" x 6" x 16½" Blockout to be filled with Class BS Concrete after Beams have been installed. Cost shall be included in the cost of "Concrete Wearing Surface". North Face of Beam 8 only.



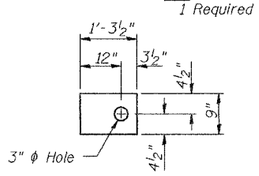
TYPICAL TRANSVERSE TIE ASSEMBLY



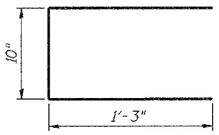
TYPICAL SECTION
½" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
6-Strands 1¾" up, 8-Strands 3¼" up, 2-Strands 9" up



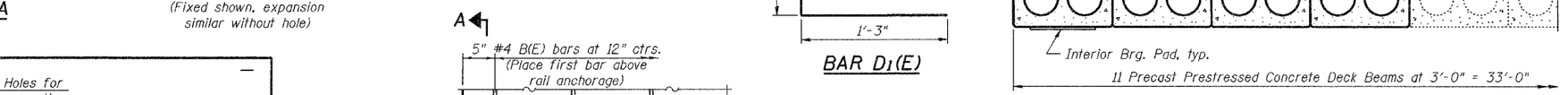
DETAIL A



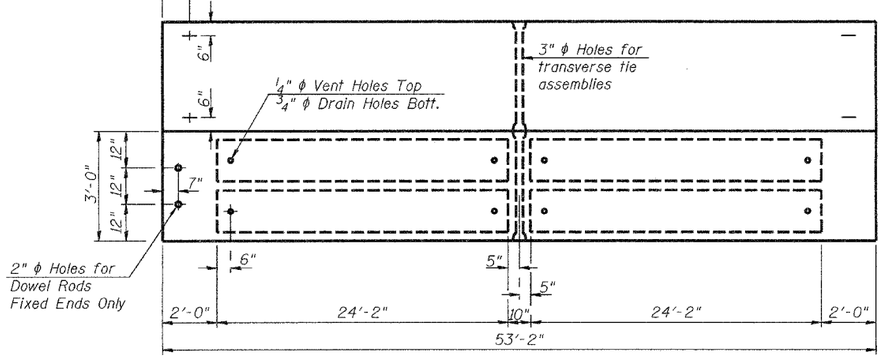
FABRIC ADJUSTING SHIM
(Fixed shown, expansion similar without hole)



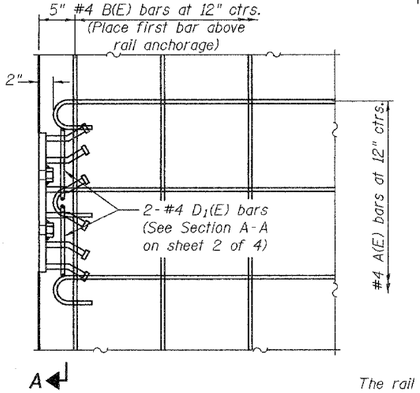
BAR D1(E)



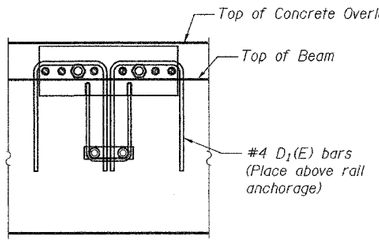
HALF CROSS SECTION
(Looking West)



PLAN



PARTIAL DECK PLAN AT RAIL ANCHORAGE



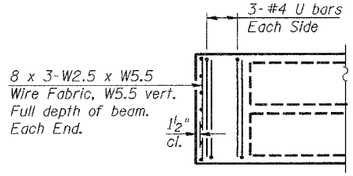
SECTION A-A

The rail anchorage shall be casr with the beam and the wearing surface be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

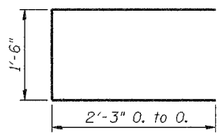
* TRANSVERSE PLACEMENT GUIDELINES

1. Place strands symmetrically about centerline of beam.
2. The minimum distance from center to center of strands in all directions shall be 2".
3. The minimum clearance from strand to dowel hole shall be ½".
4. The minimum clearance from strand to void shall be 1½".

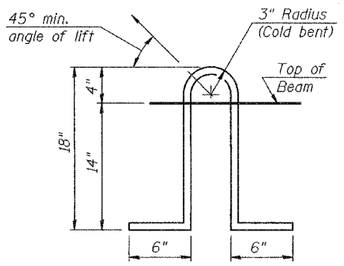
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



END PLAN



BAR U



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
Lifting loops shall be 2 -½" ϕ-270 ksi strands, as shown.
The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
Non prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions shown shall be provided for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
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.
Required Release Strength, f'ci, shall be 5,000 p.s.i.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms.	Sq. Ft.	798

DESIGNED	V.H.V.
CHECKED	A.J.B.
DRAWN	Drew Christopher
CHECKED	V.H.V. A.J.B.

March 2, 2007
EXAMINED — REPAIR PLANS UNIT CHIEF
PASSED — ENGINEER OF BRIDGES AND STRUCTURES

PD-3-S 11-1-06

DECK BEAM DETAILS
F.A. RT. 549
OGLE COUNTY
SN 071-0068

SLT-92-001-06

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