

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

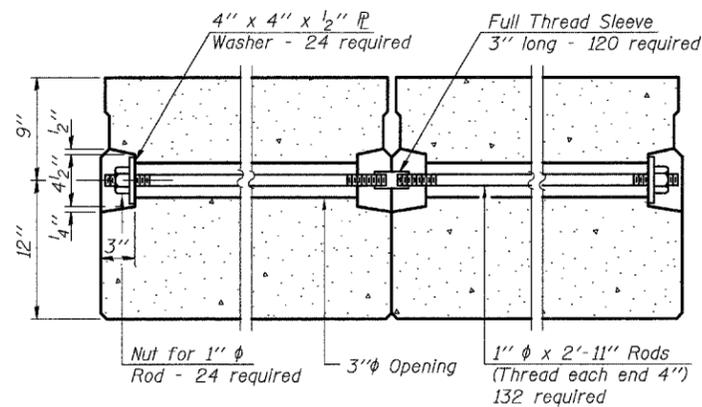
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	-	03	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
39 SHEETS

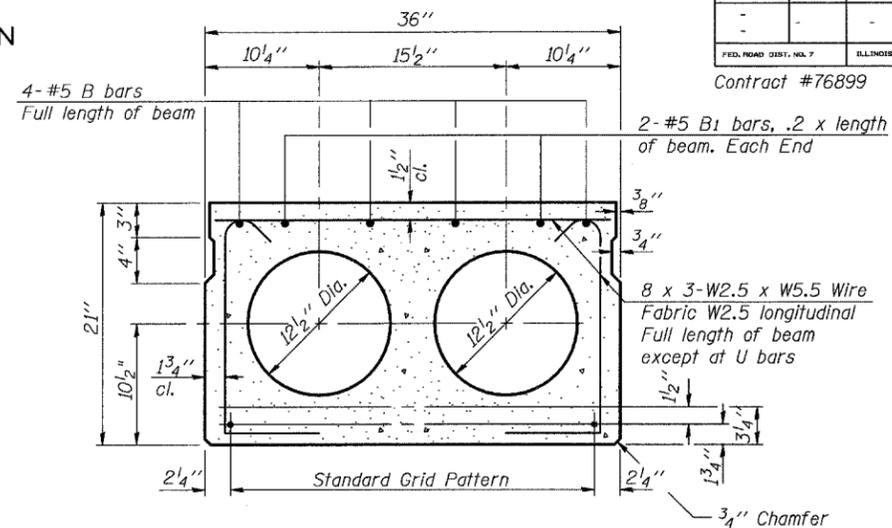
Contract #76899

Span	Dimension		
	A	B	C
4-13	23'-2 ³ / ₈ "	23'-2 ¹ / ₄ "	52'-10 ⁵ / ₈ "
14	23'-7 ³ / ₈ "	23'-7 ¹ / ₄ "	52'-10 ⁵ / ₈ "
15	23'-5 ¹ / ₂ "	23'-5 ¹ / ₂ "	52'-7"

TABLE OF BEAM DIMENSIONS



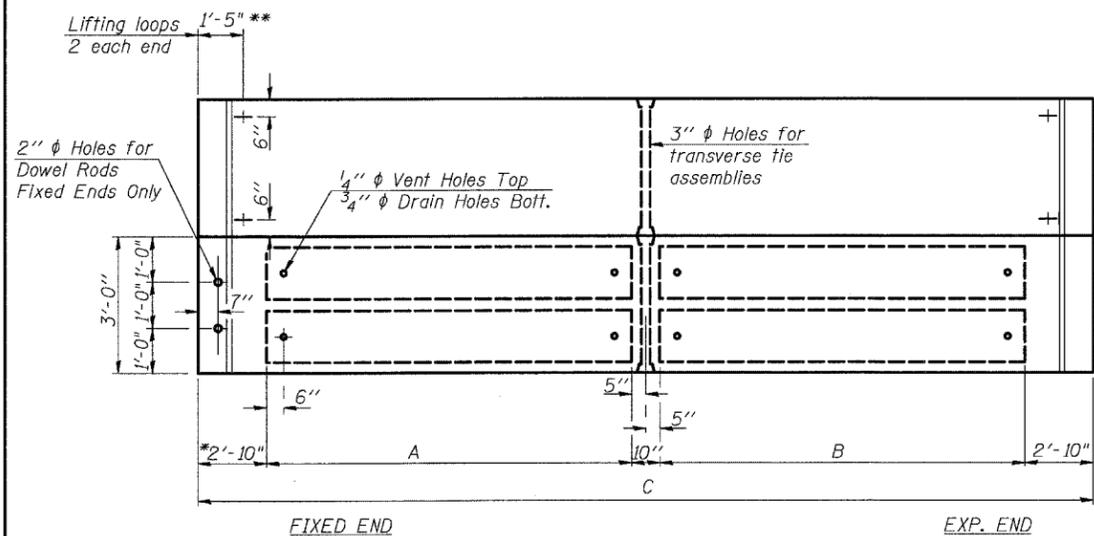
TYPICAL TRANSVERSE TIE ASSEMBLY



TYPICAL SECTION

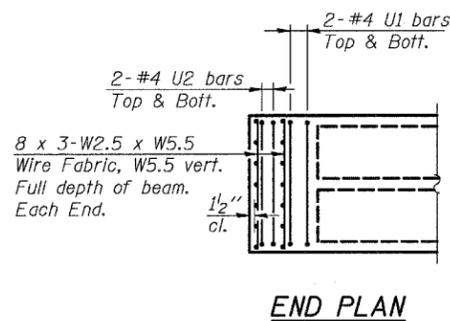
(See section thru parapet for additional reinforcement at exterior beams.)
1/2" phi Strands, Each Strand Stressed to 30,900 Lbs.
6-Strands 1 3/4" up, 8-Strands 3/4" up, 2-Strands 9" up

Note:
Place strands symmetrically about centerline of beam.

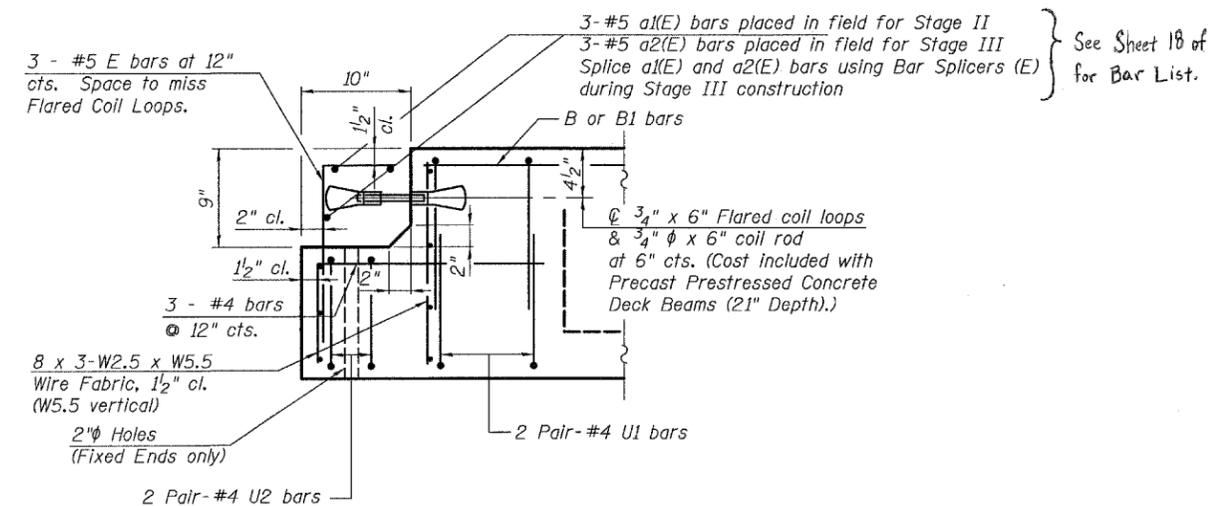


PLAN

* 2'-0" for Spans 14 & 15
** 1'-0" for Spans 14 & 15



END PLAN

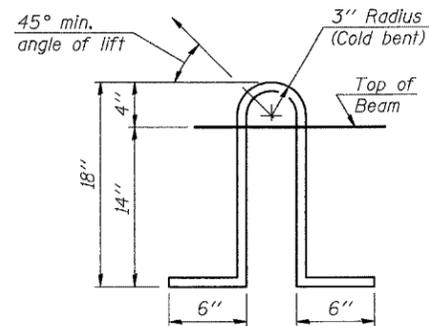


END OF BEAM DETAIL

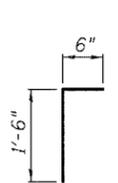
(Omit block-out at fixed end of beams (Pier 14) for spans 14 & 15.)

NOTES

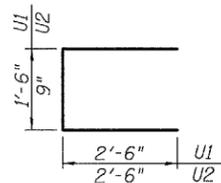
- 1) Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
- 2) The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- 3) Lifting loops shall be 2 - 1/2" phi - 270 ksi strands, as shown.
- 4) The 1" phi rods in the transverse 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.
- 5) The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
- 6) 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.
- 7) Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
- 8) Required Release Strength, f'ci, shall be 4,000 p.s.i.
- 9) Each beam shall have four lifting loops, two cast in each end as shown. Loops shall be burned off after beams have been erected.
- 10) Bridge rail inserts shall be cast in precast beams along Stage Construction Joint. See sheet 10 of 39 for location of rail anchors.
- 11) See Sheet 18 of 39 for details of parapet bars which are to be cast into the fascia beams.



LIFTING LOOP DETAIL



BAR E



BARS U1 & U2

SUPERSTRUCTURE DETAILS
OLD U.S. ROUTE 50 OVER
SHOAL CREEK
F.A.S. ROUTE 1780 - SECTION 24-BR-
CLINTON COUNTY
STA. 102+51.47
STRUCTURE NO. 014-0062

PLOT DATE = 05/15/2006
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PLOT SCALE = 0.100000' / IN.
USER NAME = USER\$