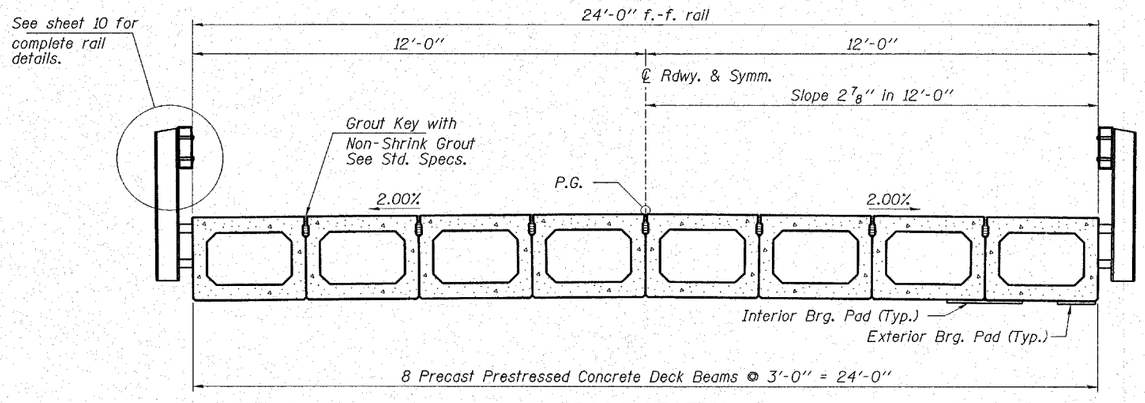
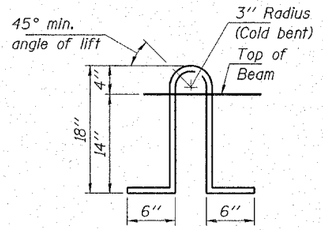
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
T.R. 74	06-19116-00-BR	SHELBY	12
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-	

CONTRACT NO. 95499



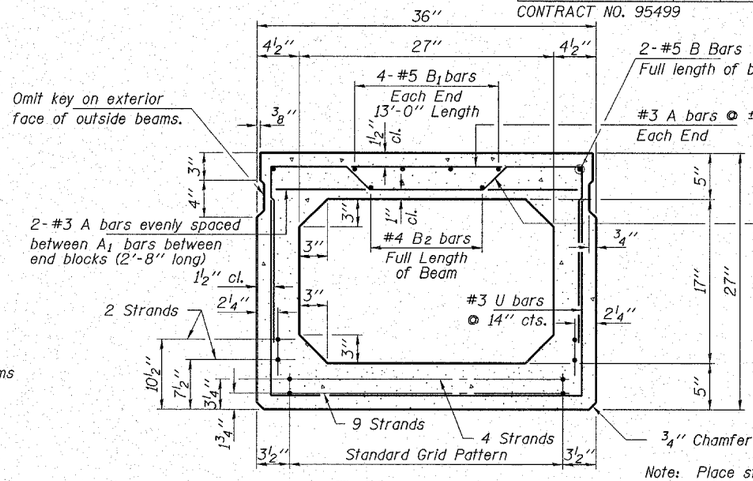
CROSS SECTION



LIFTING LOOP DETAIL

Approved alternate may be substituted for the above detail.

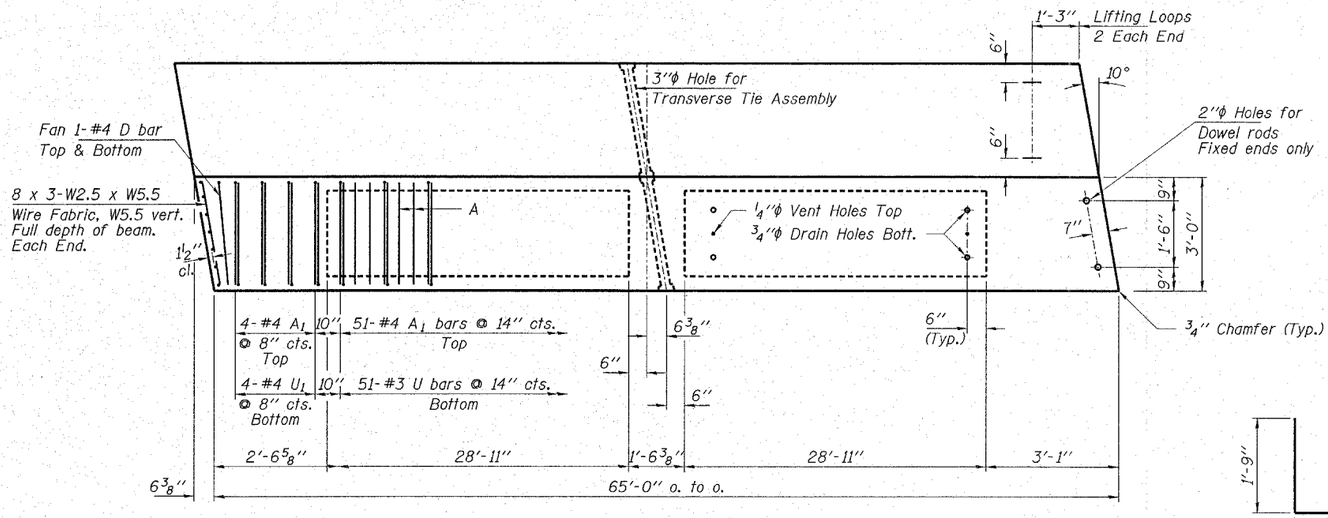
Note:
The loop shall be formed in a manner such that all strands are engaged during lifting. Burning of the lifting loops will not be allowed. Lifting loops shall be ground off level with the surface of the deck beams and protected with a two-compound epoxy in accordance with Article 1025.03



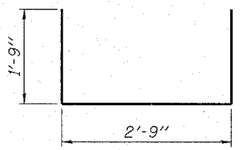
TYPICAL SECTION

17-½"℄ Strands Each Strand Stressed to 30,900 Lbs.
9-Strands 1¾" up, 4-Strands 3¼" up,
2-Strands 7½" up, 2-Strands 10½" up
Expected Camber = 1½"

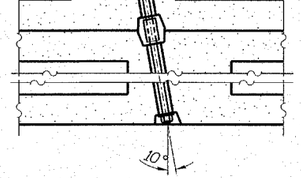
Note: Place strands symmetrically about ℄ of beam.

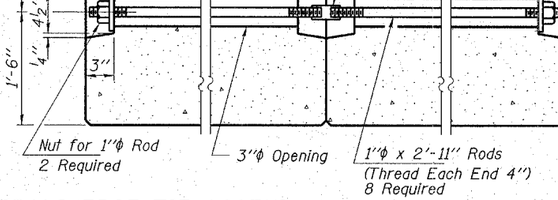


PLAN

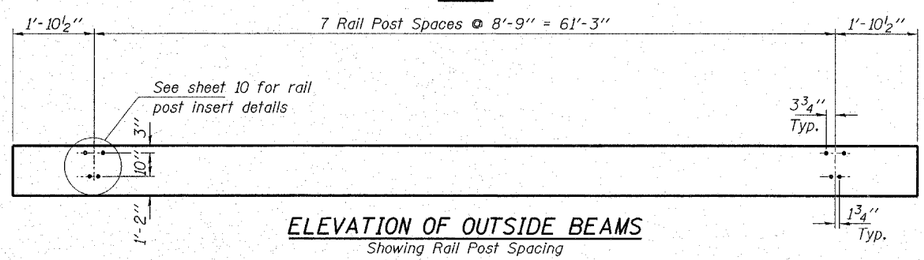


BARS U and U1



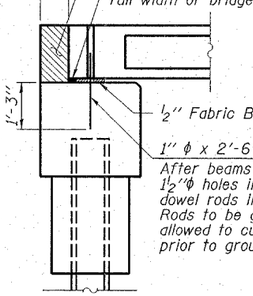


TYPICAL TRANSVERSE TIE ASSEMBLY



ELEVATION OF OUTSIDE BEAMS

Showing Rail Post Spacing



SECTION AT ABUTMENTS

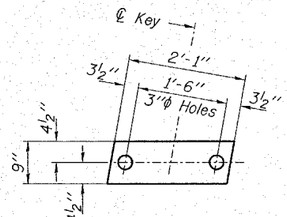
@ Rt. L's

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"℄-270 ksi strands, as shown.
The 1"℄ 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 transve tie assembly is in place.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 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 of the Exterior Bearing Pad shall be provide for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior t 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.
Required Release Strength, f'ci, shall be 4,000 p.s.i.

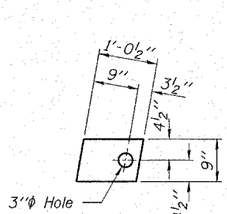
BILL OF MATERIAL

ITEM	UNIT	QUANTIT
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,560



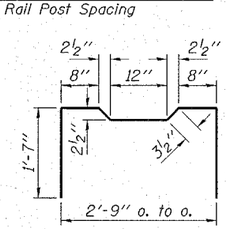
FABRIC BEARING PAD

(Interior - 14 Req'd)

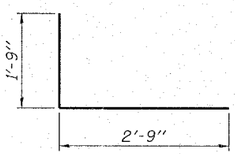


FABRIC BEARING PAD

(Exterior - 4 Req'd)



BAR A1



BAR D

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-87-0017-i	DATE: 12/18/06
DESIGNED: J.W.F.	CHECKED: S.W.M.	DRAWN: D.T.M.

SUPERSTRUCTURE

SECTION 06-19116-00-BR
RURAL ROAD DISTRICT
SHELBY COUNTY
STRUCTURE NO. 087-3556 / STATION 10+06