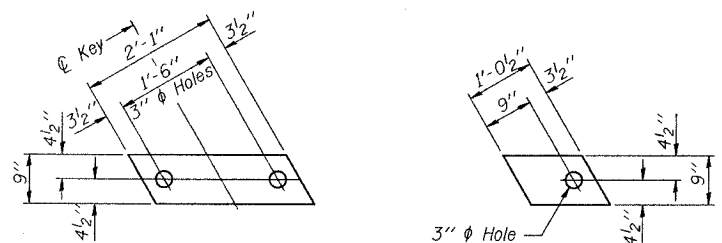


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|-----------------------|----------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | UNION | 22 | 15 |
| 9 SHEETS | | | | |
| FED. ROAD DIST. NO. 7 | ILLINOIS | Contract No. 992J4 | | |
| * 03-01176-00-BR | | | | |

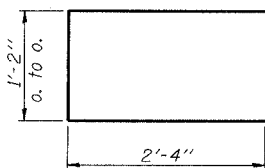


FABRIC BEARING PAD
(Interior)

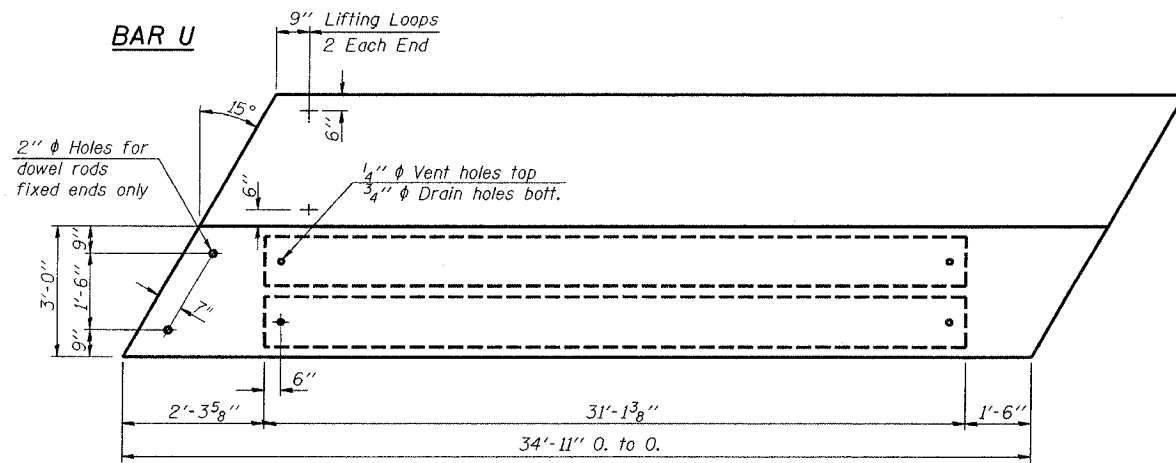
FABRIC BEARING PAD
(Exterior)

FIXED

MIN. BAR LAP
#5 bars = 1'-8"

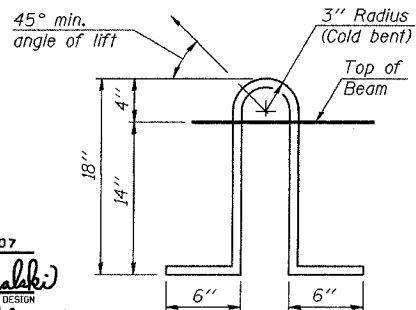


BAR U

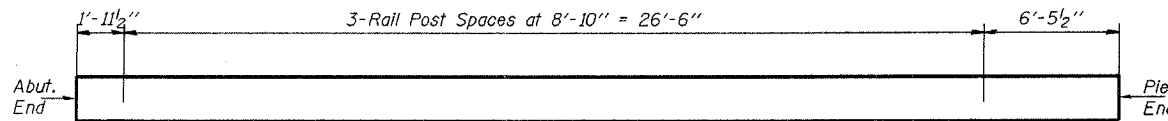


END PLAN

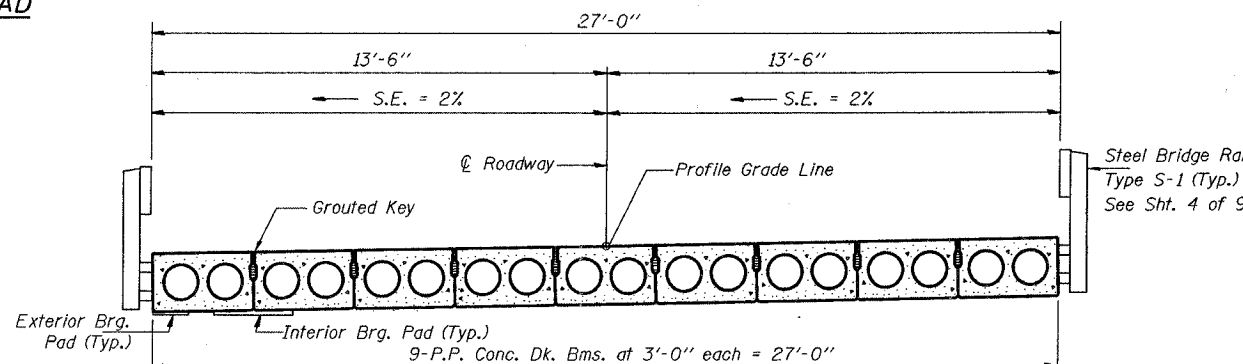
PLAN



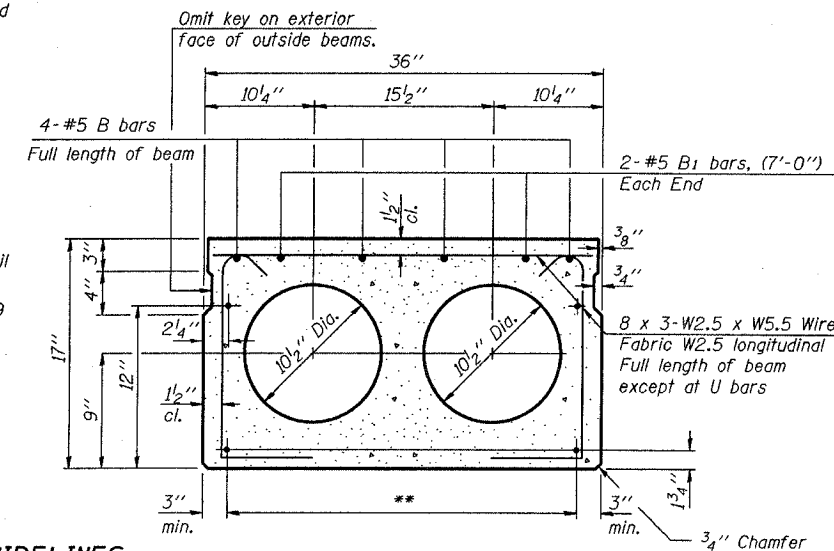
LIFTING LOOP DETAIL



RAIL POST SPACING



CROSS SECTION
(Looking North)



TYPICAL SECTION

** TRANSVERSE STRAND 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 1/2".
4. The minimum clearance from strand to void shall be 1/2".

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

NOTES

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. Lifting loops shall be 2 - 1/2" #270 ksi strands, as shown. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. Nominal 1" joint at pier shall be filled with non-shrink grout. 1" dim. may vary to accommodate tolerance in beam lengths. Longitudinal keys shall be grouted. Reinforcement bars shall conform to the requirements of ASTM 706 Gr. 60 (II, Modified). See Special Provisions. 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. 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. Required Release Strength, f'ci, shall be 4000 p.s.i. A corrosion inhibitor, in accordance with Article 1021.06 of the Standards Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

BILL OF MATERIAL

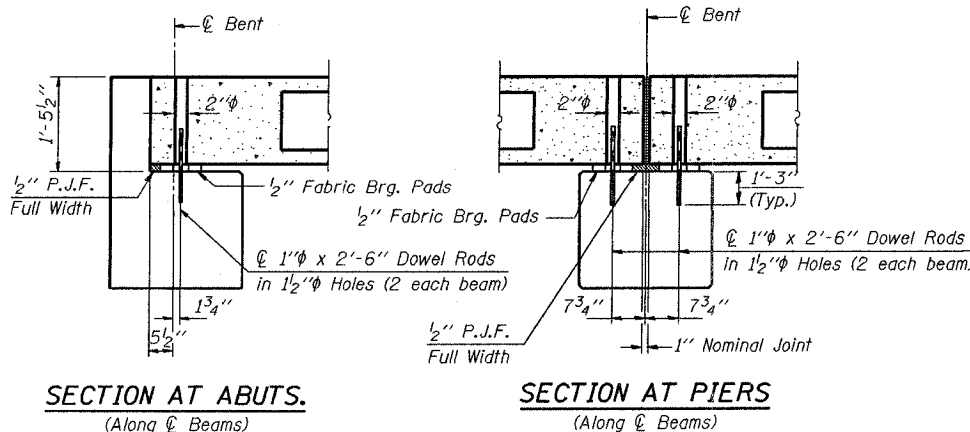
| Item | Length | Quantity |
|-------------------------------------|---------|----------|
| Precast Prestressed Conc. Deck Bms. | Sq. Ft. | 1890 |

Estimated Total Weight (One Beam) = 17180 Lbs.

SPAN 1 & 3
SUPERSTRUCTURE DETAILS
STR. NO. 091-3221
MORGAN SCHOOL ROAD
OVER CANY CREEK
SECTION 03-01176-00-BR
UNION COUNTY
STATION 9+27.00

| | |
|----------|--------------|
| DESIGNED | J.F. Schiff |
| CHECKED | J.K. Klein |
| DRAWN | SHANE SUMMER |
| CHECKED | JFS, JKK |

APRIL - 3 2007
EXAMINED *Thomas J. Domagalick*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



SECTION AT ABUTS.
(Along Centerline of Beams)

SECTION AT PIERS
(Along Centerline of Beams)