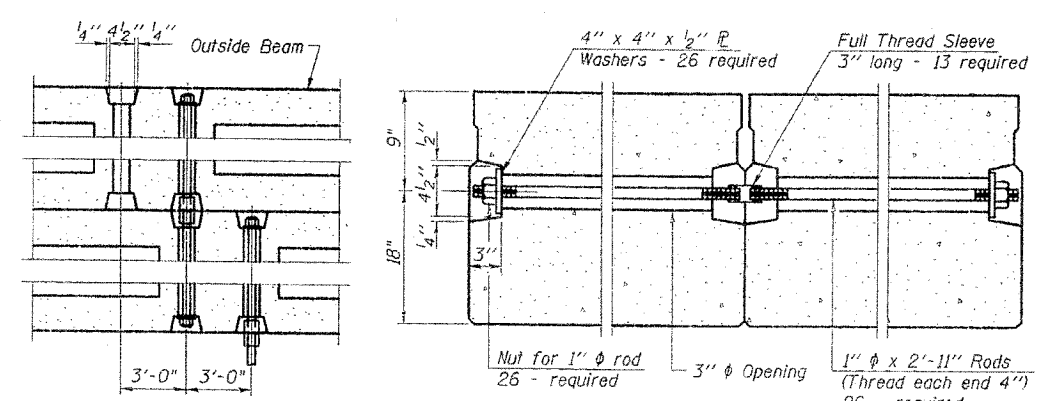
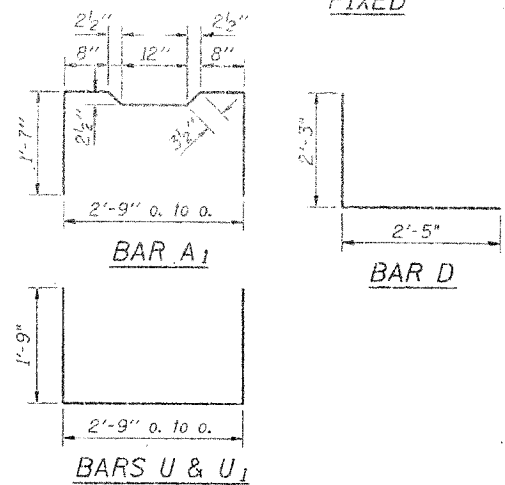


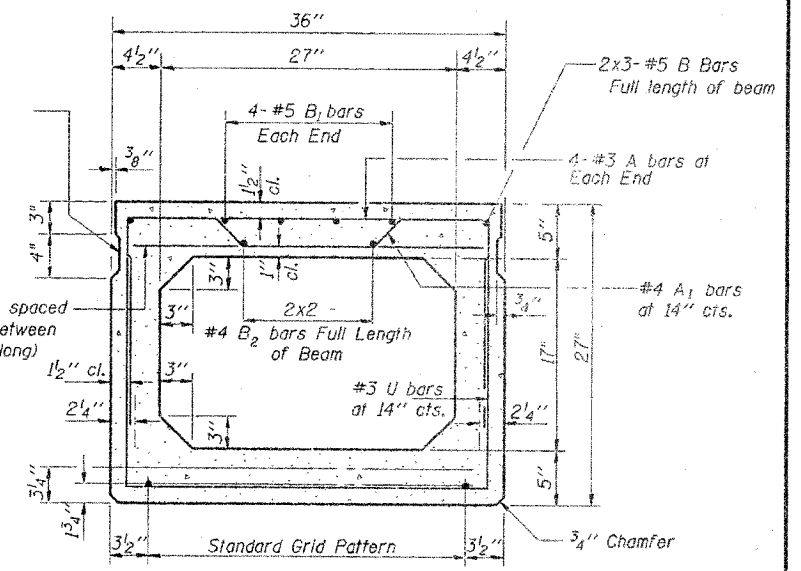
FABRIC BEARING PAD (Interior) FABRIC BEARING PAD (Exterior)

FIXED



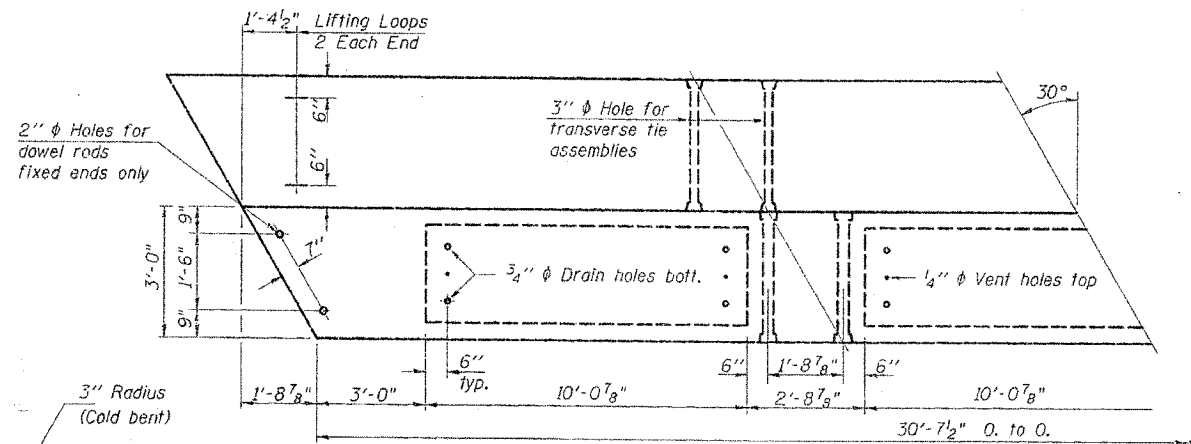
TYPICAL TRANSVERSE TIE ASSEMBLY (For One Span)

Omit key on exterior face of outside beams.

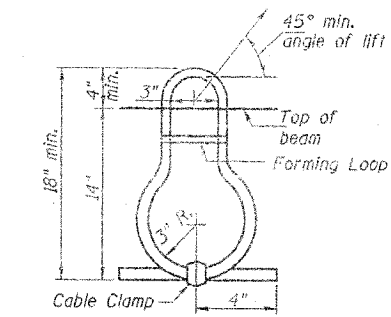


TYPICAL SECTION

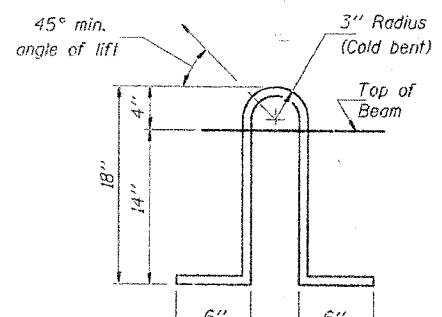
7-1/2" Strands Each Strand Stressed to 30,900 Lbs. 7-Strands 1 3/4" up. Note: Place strands symmetrically about center of beam.



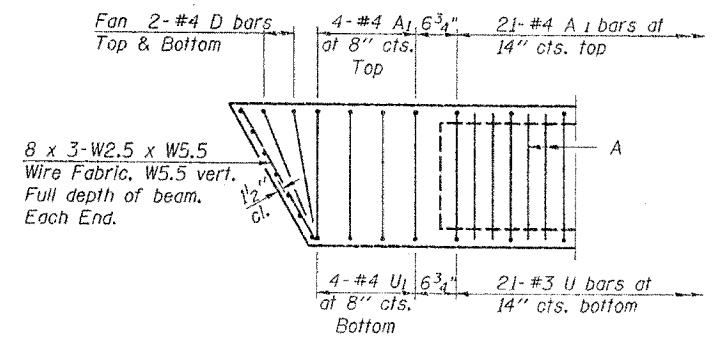
PLAN



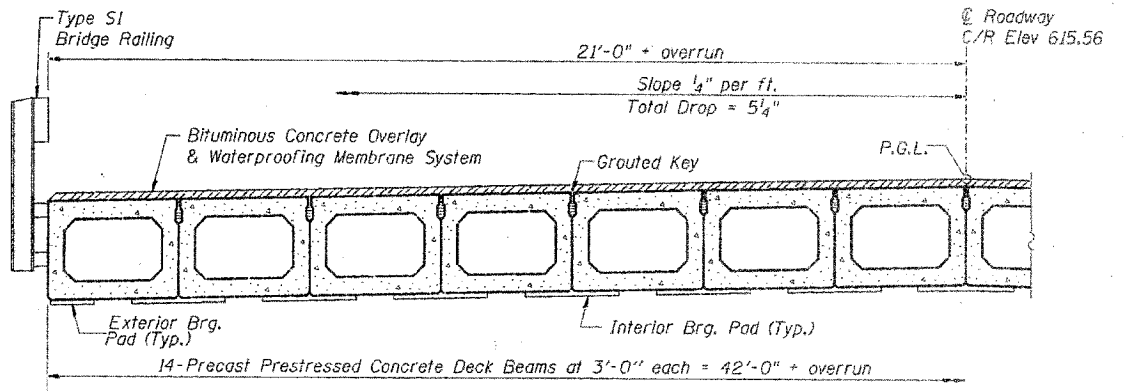
LIFTING LOOP ALTERNATE



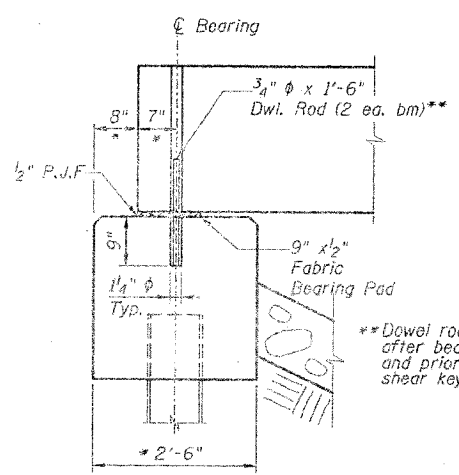
LIFTING LOOP DETAIL



END PLAN

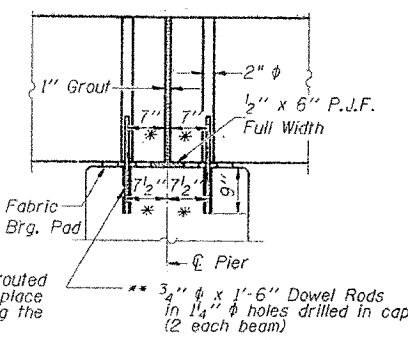


HALF CROSS SECTION



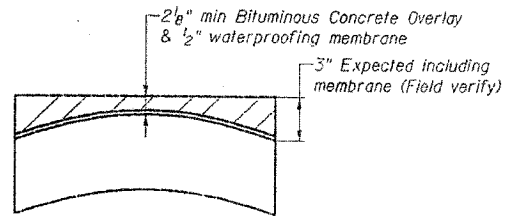
SECTION AT ABUTMENT

* Perpendicular to center of abutment.



SEC. THRU PIER

* Perpendicular to center of Pier. 1 inch joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. 1 inch dimension may vary plus or minus to accommodate tolerance in beam lengths.



CAMBER DIAGRAM Along Center of Beam

NOTES
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 3/4 inch diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or 3-1/2 inch diameter-270 ksi strands, as shown. The 1 inch 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. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2 inch 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. A Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4000 p.s.i.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
A	48	#3	2'-6"	—
A1	29	#4	6'-1"	—
B	6	#5	12'-6"	—
B1	8	#5	6'-6"	—
B2	4	#4	16'-9"	—
D	8	#4	4'-8"	—
U1	8	#4	6'-3"	—
U	21	#3	6'-3"	—
Precast Prestressed Conc. Deck Bms.				Sq. Ft. 2573*

* Total Quantity of Beams for 2 spans

DSGN	K.J. Hoffmann				
DR	K.J. Hoffmann				
CHK	J.A. Frauenhoffer				
APVD	J.A. Frauenhoffer	NO.	DATE	REVISION	BY

FRAUENHOFFER
 Frauenhoffer and Associates, P.C. Consulting Engineers
 3002 Crossing Court Champaign, IL 61822 217-351-6268

SUPERSTRUCTURE DETAILS - SPANS 1 & 3
 COUNTY HIGHWAY 38
 SECTION 02-00284-00-WR
 KANKAKEE COUNTY
 SHEET 54
 DWG NO. 3104-sup.dgn
 DATE AUG 2006
 PROJ NO. 3104