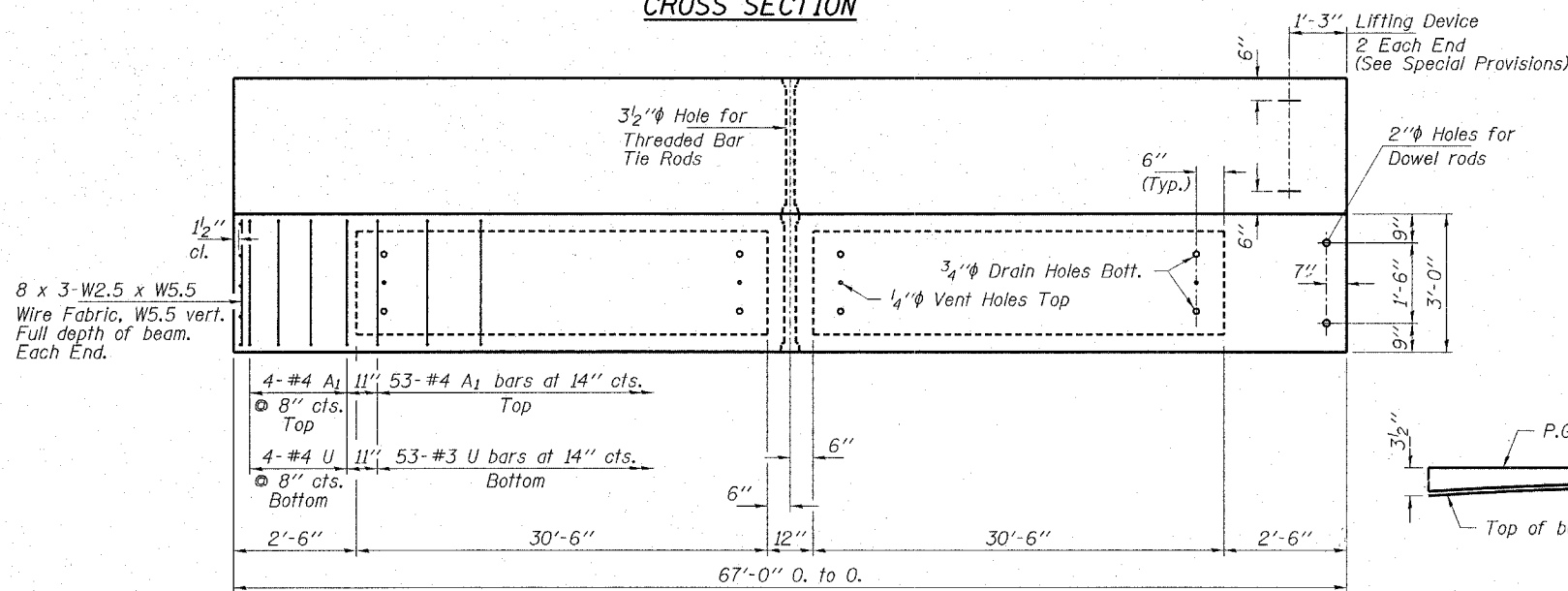
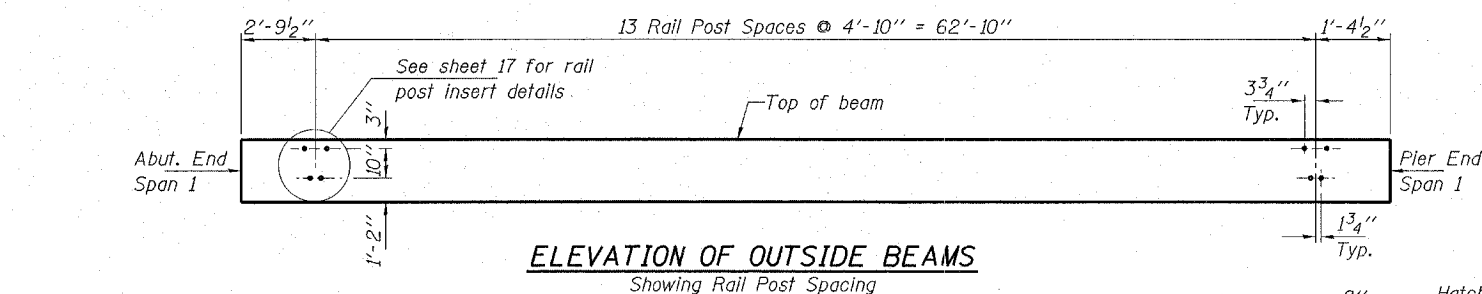


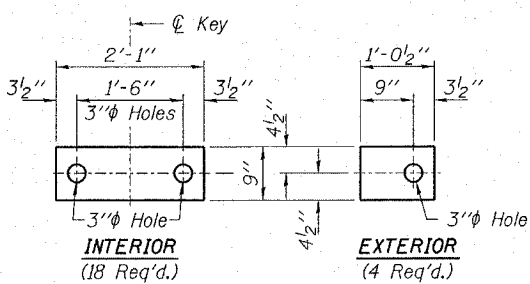
CROSS SECTION



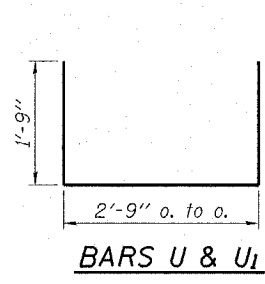
PLAN



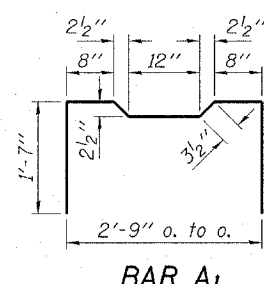
ELEVATION OF OUTSIDE BEAMS
Showing Rail Post Spacing



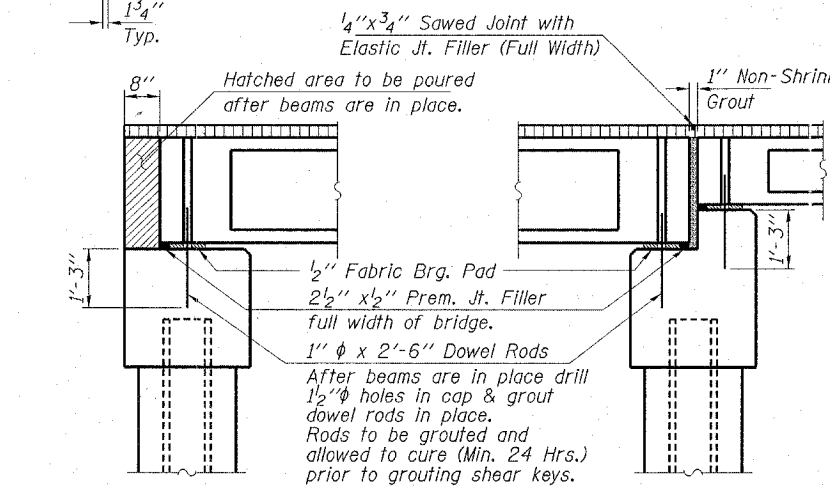
FABRIC BEARING PAD DETAILS



BARS U & U1



BAR A1



SECTION AT ABUTMENTS

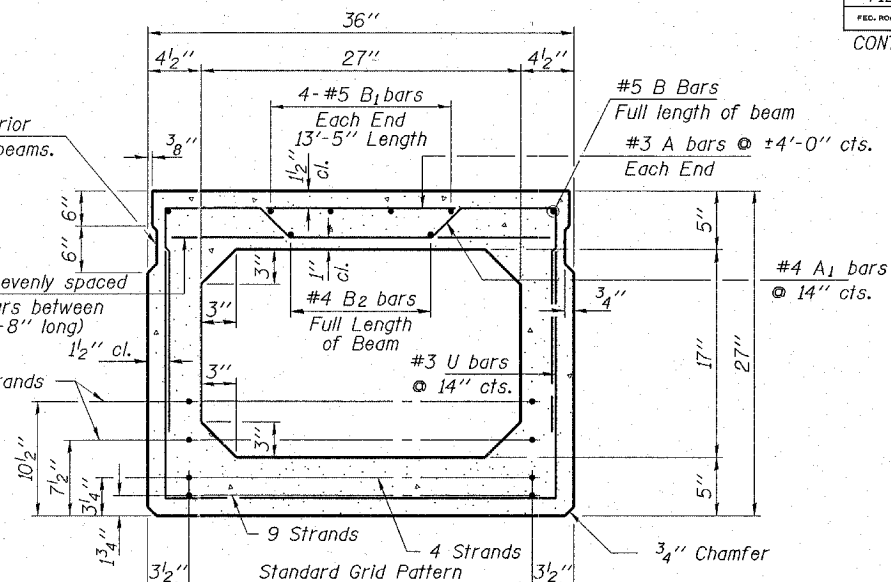
SECTION AT PIERS

See sheet 17 for complete rail details.

Omit key on exterior face of outside beams.

2-#3 A bars evenly spaced between A1 bars between end blocks (2'-8" long)

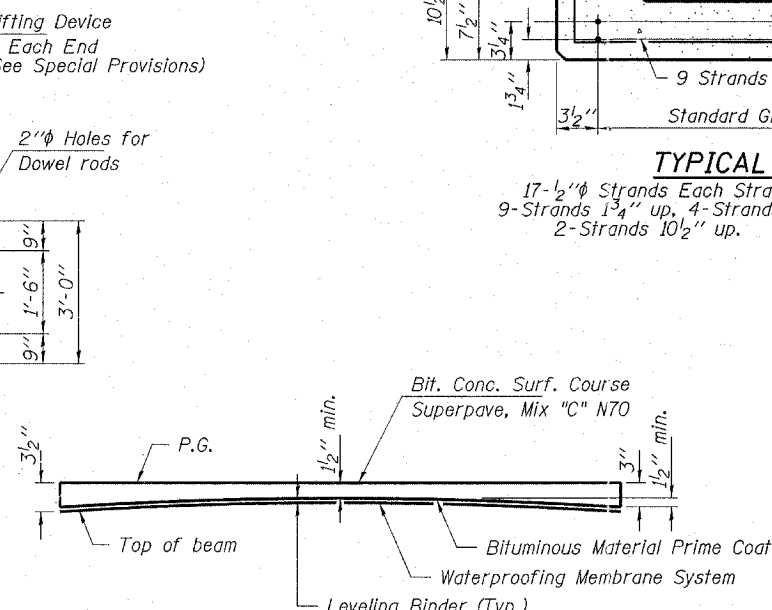
2 Strands



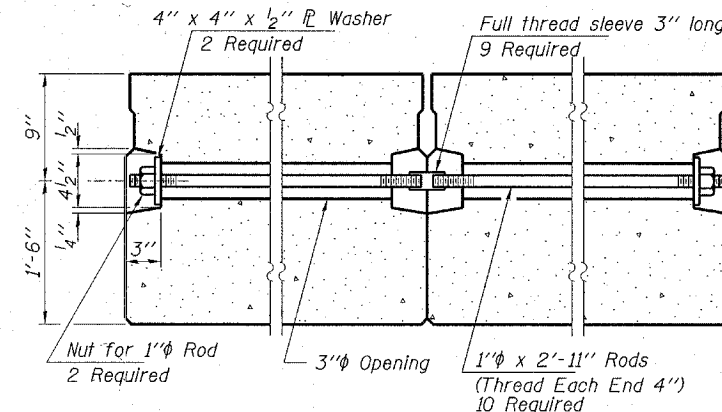
TYPICAL SECTION

Note: Place strands symmetrically about center of beam.

17-1/2" Strands Each Strand Stressed to 30,900 Lbs.
9-Strands 1 3/4" up, 4-Strands 3/4" up, 2-Strands 7/8" up,
2-Strands 10 1/2" up. Expected Camber = 1 1/2"



ANTICIPATED CAMBER DIAGRAM



TYPICAL TRANSVERSE TIE ASSEMBLY

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. 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 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 1/8" 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'cl, shall be 4,000 p.s.i. An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2,010
Waterproofing Membrane System	Sq. Yd.	228
PC Mortar Fairing Course	Foot	151
Bituminous Concrete Surface Cse, Superpave Mix C, N50	Ton	19
Leveling Binder (MM) Binder	Ton	6

HLR
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Springfield, Illinois 62703
217-546-3400

Account Number
12-34-0002-1
Date: 03/13/06
DESIGNED: S.M.S. CHECKED: S.W.M. DRAWN: S.T.M.

SUPERSTRUCTURE SPAN 1
SECTION 02-00104-00-BR
F.A.S. 712 / C.H. 24
FAYETTE COUNTY
STR. NO. 026-3431 / STATION 102+50