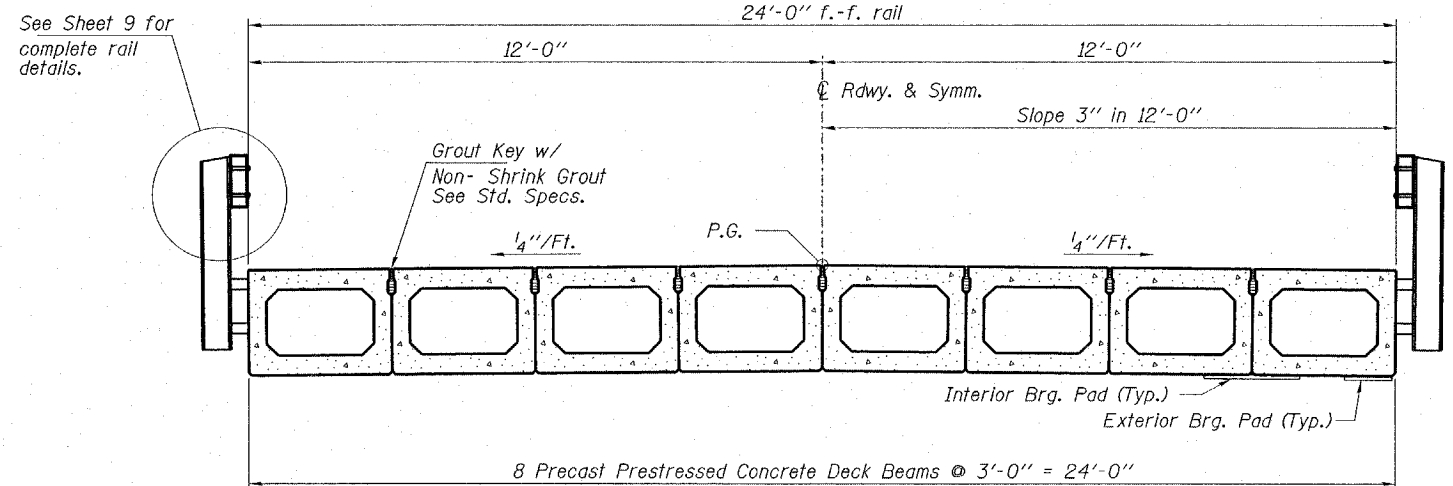
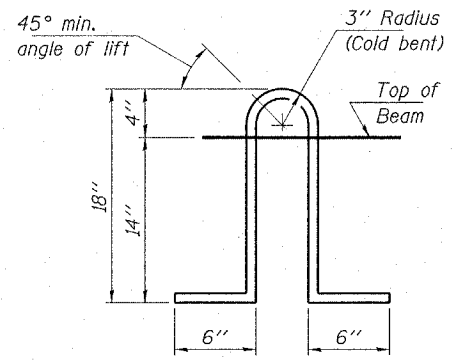


CONTRACT NO. 91336



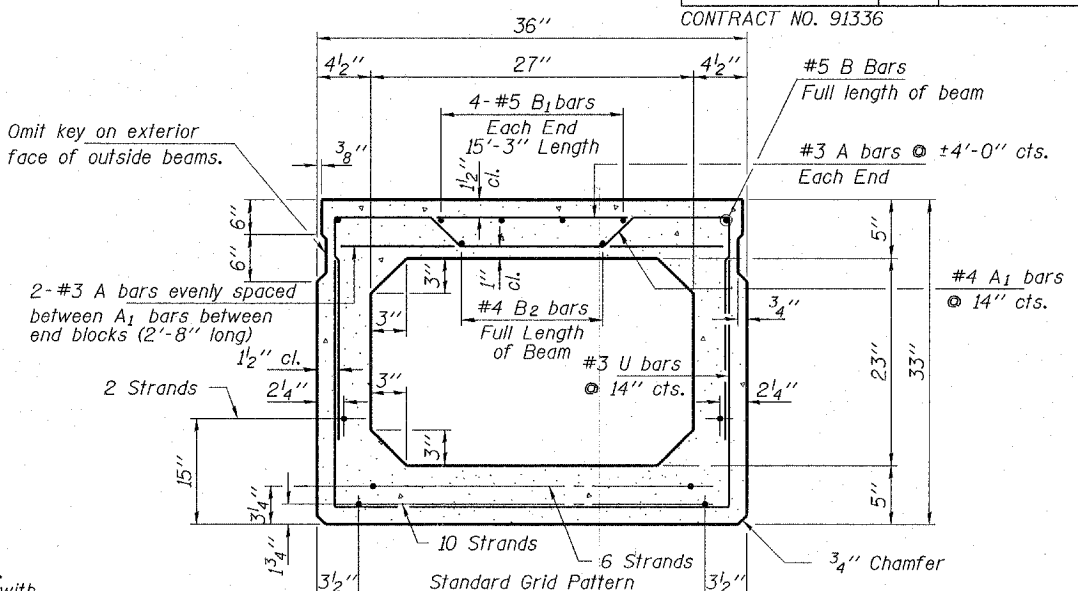
**CROSS SECTION**



**LIFTING LOOP DETAIL**

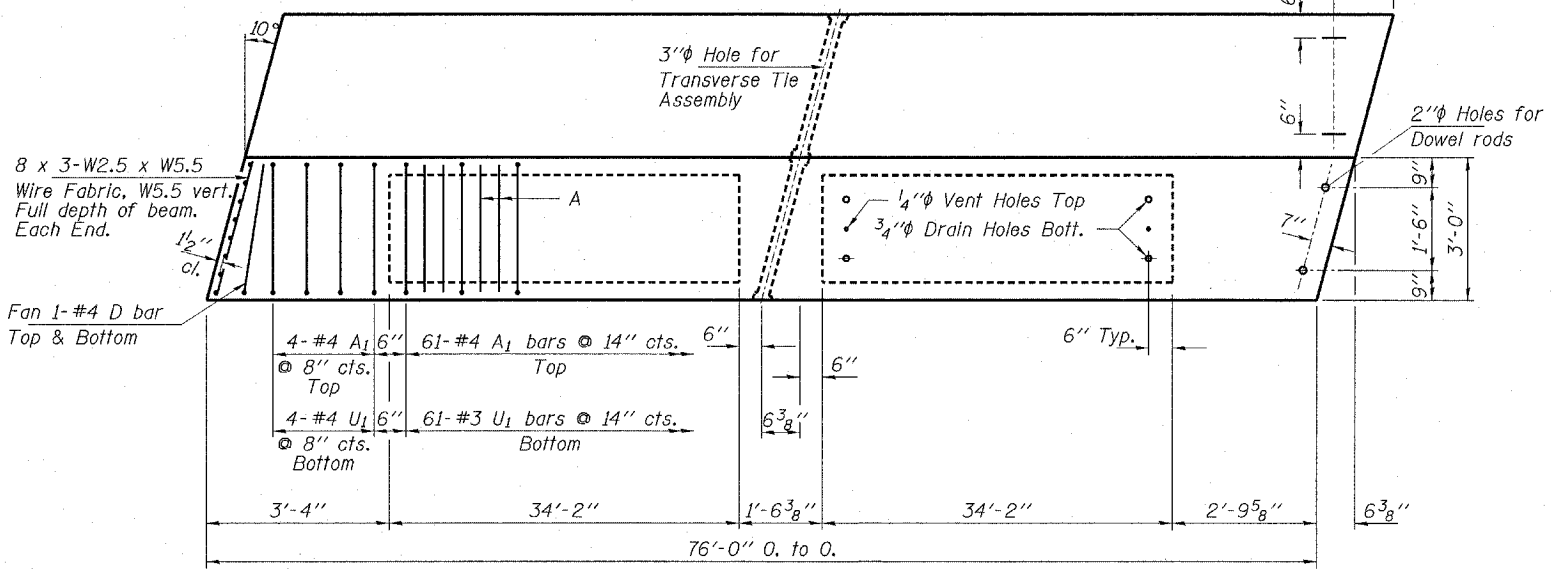
Approved alternate may be substituted for the above. Weight of 1 Beam = 46,740 lbs.

Note: The loop shall be formed in a manner such that all strands are engaged during lifting. Lifting Loops shall be cut and ground off. 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

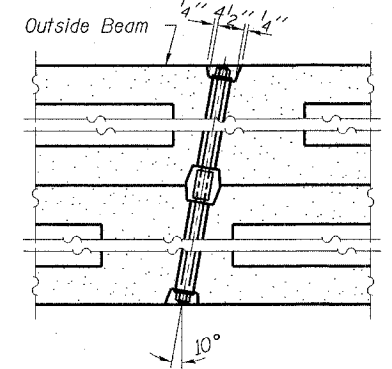


**TYPICAL SECTION**

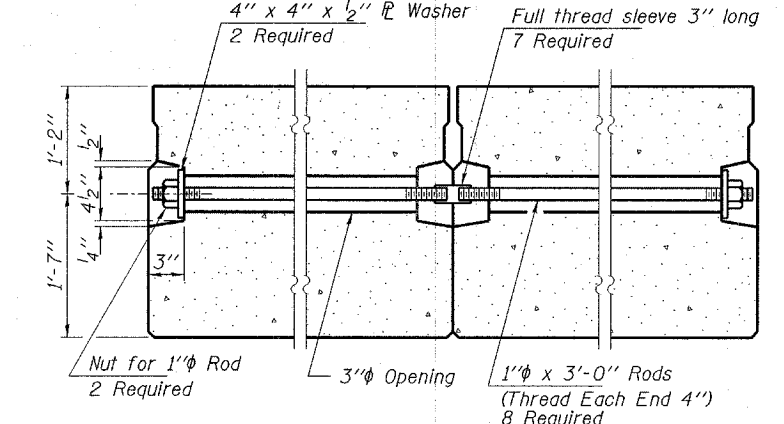
18-1/2" Strands Each Strand Stressed to 30,900 Lbs. 10-Strands 1 3/4" up, 6-Strands 3/4" up, 2-Strands 15" up



**PLAN**



**TYPICAL TRANSVERSE TIE ASSEMBLY**

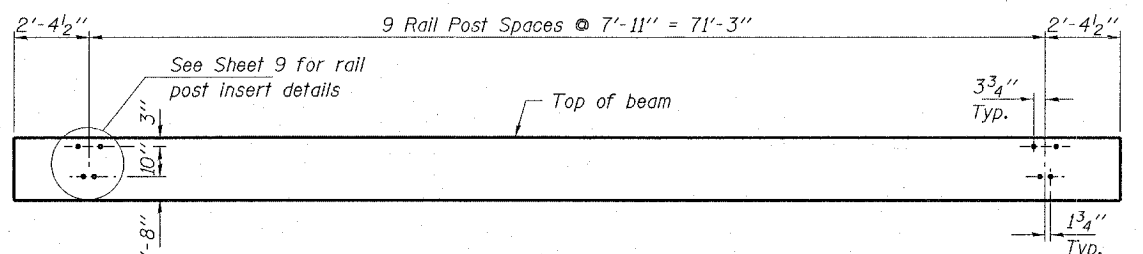


**NOTES**

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 3-1/2" -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 or M-322 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.

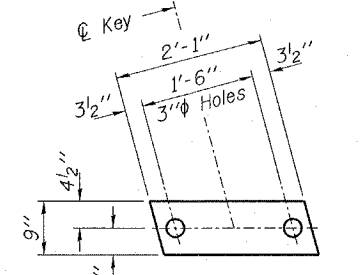
**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1,824

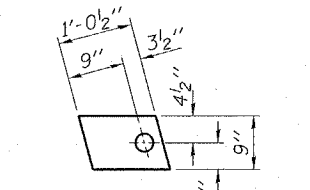


**ELEVATION OF OUTSIDE BEAMS**

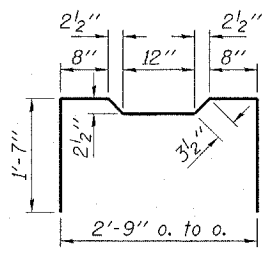
Showing Rail Post Spacing



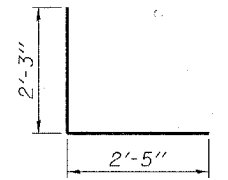
**FABRIC BEARING PAD**  
(Interior - 28 Req'd)



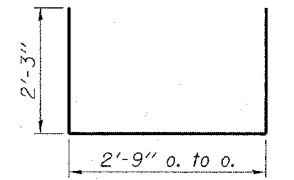
**FABRIC BEARING PAD**  
(Exterior - 8 Req'd)



**BAR A<sub>1</sub>**

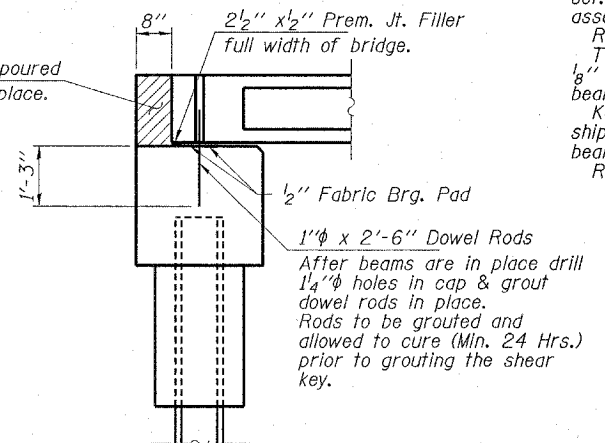


**BAR D**



**BARS U & U<sub>1</sub>**

Hatched area to be poured after beams are in place.



**SECTION AT ABUTMENTS**

© Rt. L's

**HLR**

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217-546-3400

Account Number 12-87-0013-1  
Date: 12/07/05  
DESIGNED: D.B. CHECKED: S.W.M. DRAWN: D.B.

**SUPERSTRUCTURE**  
**SECTION 02-23112-00-BR**  
**TOWER HILL ROAD DISTRICT**  
**SHELBY COUNTY**  
**STR. NO. 087-3537 / STATION 10+00**