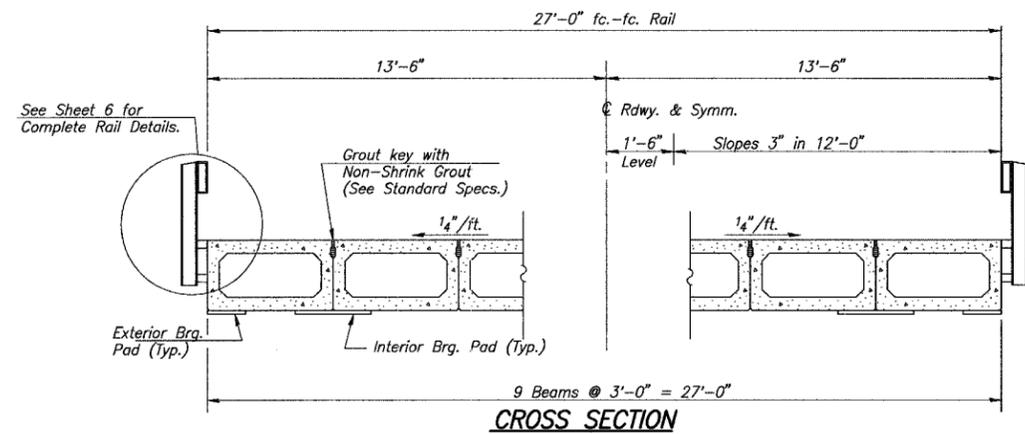


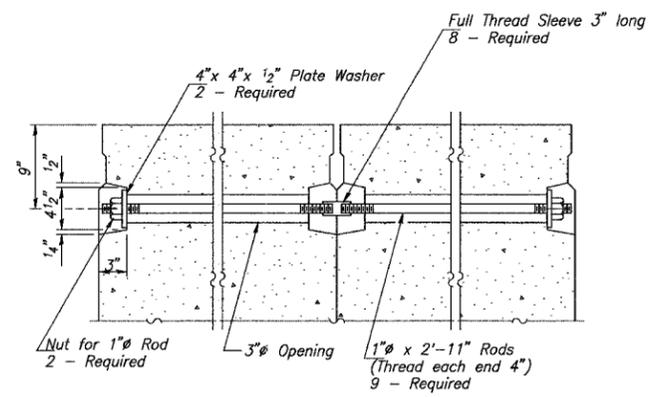
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-0001-00-BR	MACOUPIN	ILLINOIS	10	5
FED. ROAD DIST. NO. 7		FED. AID PROJECT-		

\*JULIAN AVENUE

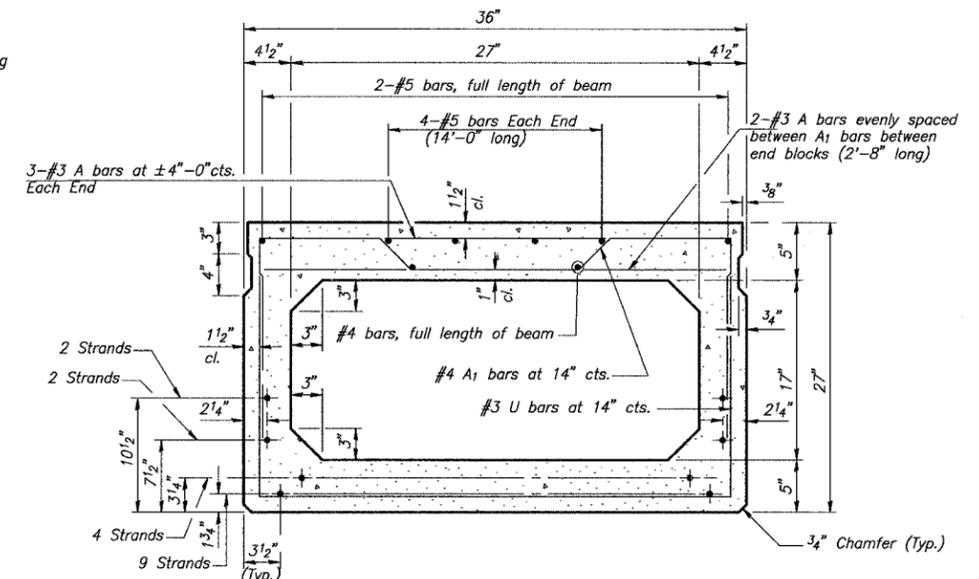
NOTE: Omit key on exterior face of outside beams.



**CROSS SECTION**

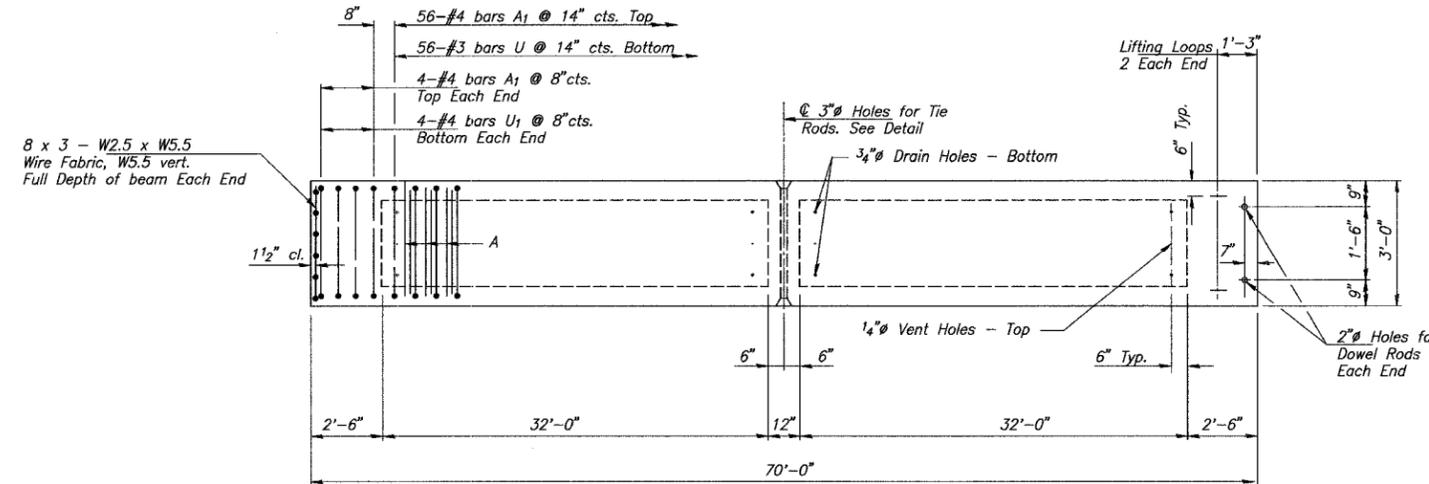


**TRAVERSE TIE ROD DETAIL**



**TYPICAL SECTION THRU BEAM**

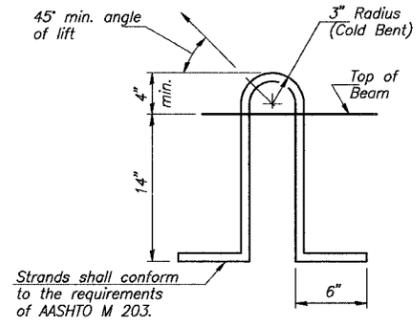
17- 1/2" Strands Stressed to 30,900 Lbs. Each Place strands symmetrically about  $\epsilon$  of beam. Use Standard Grid Pattern.



**TYPICAL PLAN OF BEAMS**

**NOTES**

Required release strength,  $f_{ci}$ , shall be 4,000 p.s.i. 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 7-wire stress-relieved, 3-1/2" - 270 ksi strands. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive tie rods on outside shall be filled with grout after ties are in place. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60. 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 and 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. Railpost anchor devices shall be cast into exterior face of outside beams as specified elsewhere.

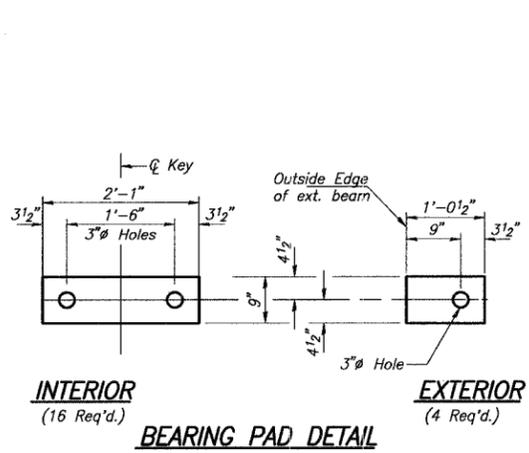


**LIFTING LOOP DETAIL**

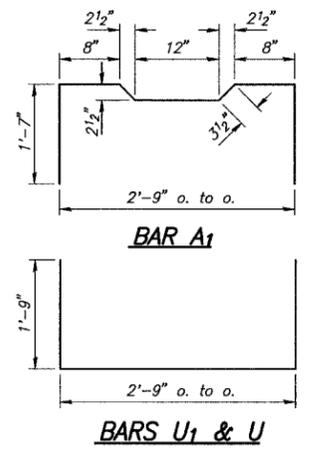
Approved alternate may be substituted for the above.

**BILL OF MATERIAL**

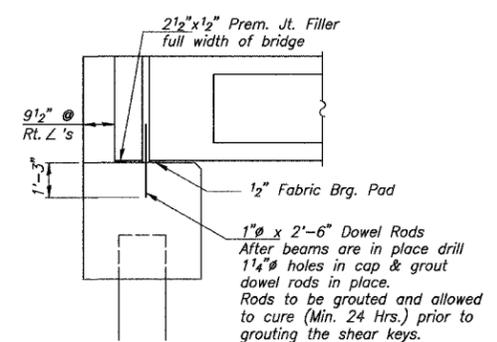
Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,890



**BEARING PAD DETAIL**



**BARS U1 & U**



**SECTION AT ABUTMENTS**

SHEET TITLE: SUPERSTRUCTURE

PROJECT: SECTION 04-0001-00-BR VILLAGE OF ROYAL LAKES MACOUPIN COUNTY STATION 9+93

PROJ. NO. 06012  
SCALE 1-30-08  
DRAWN BY MRL  
CHECKED BY MCB

COOMBE-BLOXDORF P.C.  
Engineers / Land Surveyors  
Springfield, Illinois  
Design Firm License No. 184-002703

5  
OF 10 SHTS