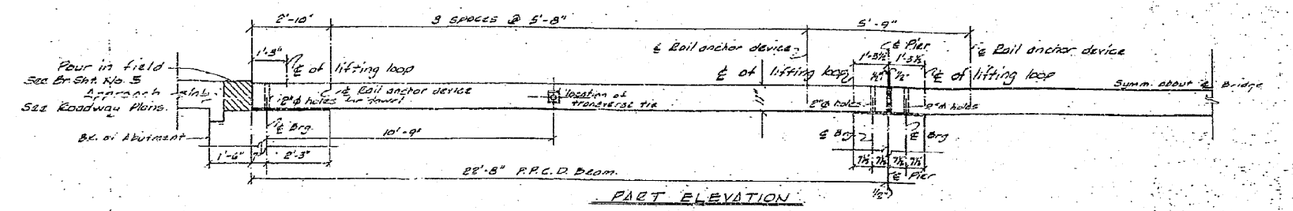
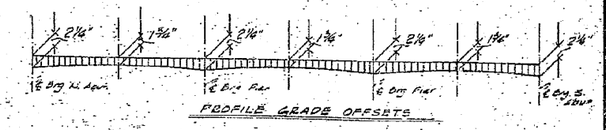
Sta.	Section	County	Total Sheets	Sheet No.
F.A.S. 2936	16 A-B	Pulaski	19	9
Str. 151+20				
Route Sta.	Illinois Proj.			

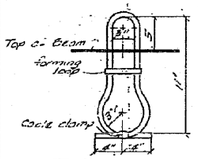
Bridge Sheet No. 2 of 7 Sheets



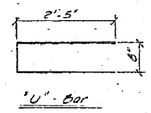
PART ELEVATION



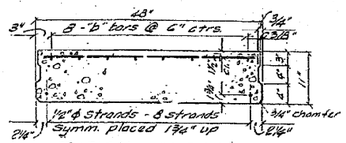
PROFILE GRADE OFFSETS



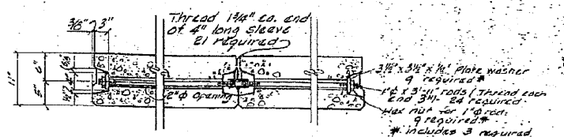
LIFTING LOOP DETAIL
(96 required)



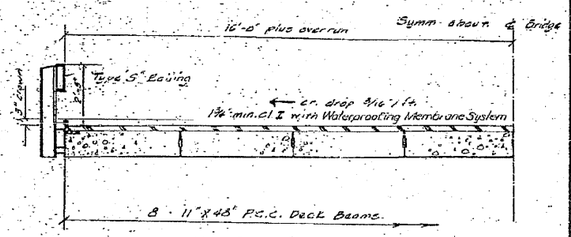
"U" - Bar



TYPICAL SECTION
Note: Each 1 1/2"ϕ strand stressed to 28,900 lbs.

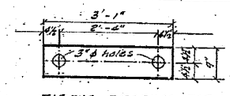


TYPICAL TRANSVERSE TIE ASSEMBLY
Note: For transverse tie assembly in Stage I, see Bridge Sheet 3 for details.

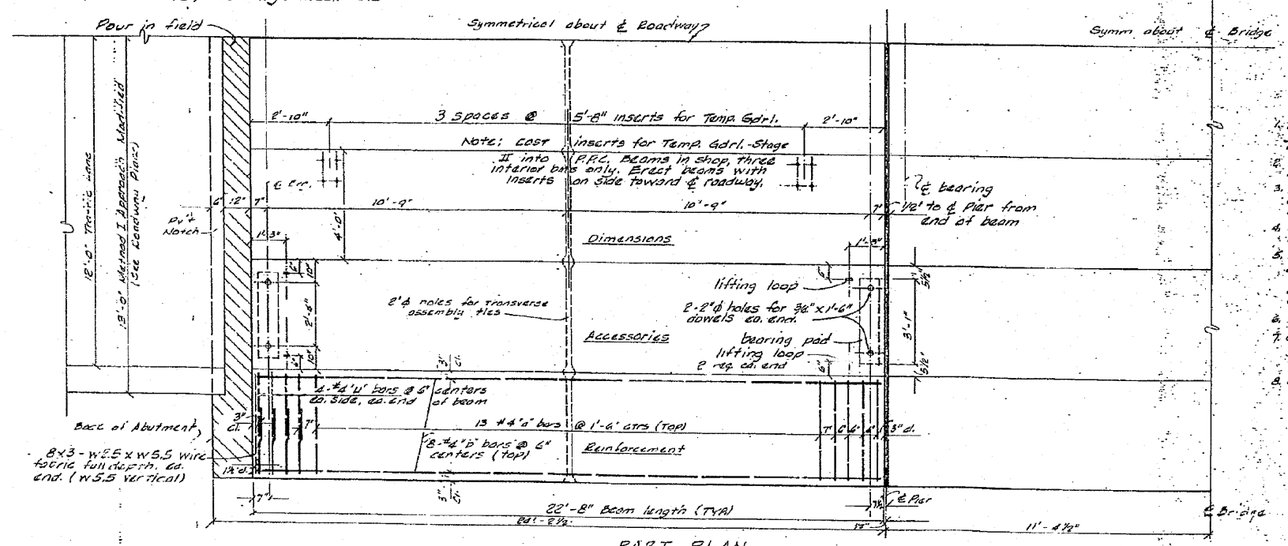


HALF CROSS-SECTION

Note: Quantities for hatched portion of headwall included in Bridge Bill of Material, Abutments, See Bridge Sheet No. 5



FABRIC BEARING PAD
(48 required)



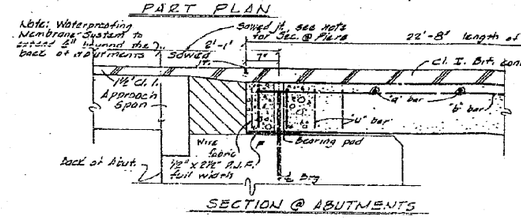
PART PLAN

GENERAL NOTES:

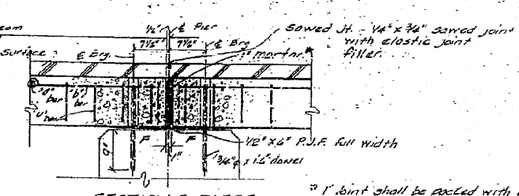
1. Prestressed steel shall be non-galvanized high strength, stress-relieved, 7 wire strand grade 270. The nominal diameter shall be 1/2" and the nominal cross sectional area shall be 0.153 sq.in.
2. Lifting loops shall be 1/4" diameter, 6x25 class wire rope with 1 per core, and shall have a minimum ultimate tensile strength of 21,000 pounds.
3. The hex nuts in the transverse tie assembly shall be tightened to a tight fit and the threads set. Pockets that receive the transverse tie bar on the outside shall be filled with grout after the transverse tie assembly is in place.
4. Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and Portland Cement Mortar.
5. After beams have been erected in each construction stage, holes for the dowel anchors shall be drilled in the superstructure, and the dowel anchors shall be grouted in place. Cost of furnishing dowels, drilling holes, and grouting dowels, is included in the Contract unit price for "PRECAST PRESTRESSED CONCRETE DECK BEAMS".
6. Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60.
7. Cost of reinforcement and accessories cast into the beam, of bearing pads, and grouting longitudinal shear keys, is included in the Contract unit price for "PRECAST PRESTRESSED CONCRETE DECK BEAMS".
8. For placement of transverse tie rods during Stage I, See Bridge Sheet 3.

SUPERSTRUCTURE BILL OF MATERIALS		
Precast Prestressed Concrete Deck Beams (11")	Sq. ft.	2176
Bituminous Concrete Surface Course, Mixture D, Cl. I	tons	28
Waterproofing Membrane System	Sq. yd.	257
Steel Railing - Type "S"	lin. ft.	138
Removal of Existing Superstructure	each	1
Portland Cement Pouring Course	lin. ft.	476

Bill List - One P.C.D. Beam				
Bar	No.	Size	Length	Shape
"a"	13	#4	3'-9"	
"b"	8	#4	22'-3"	
"u"	16	#4	5'-6"	



SECTION @ ABUTMENTS



SECTION @ PIERS

* 1" joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. 1" dimension may vary plus or minus to accomodate tolerance in beam length.

SUPERSTRUCTURE DETAILS	
PROJECT FAS Rte. 2936 (US 51) over Bear Creek SECTION 16 A-B Pulaski County, Illinois Station 181+20	
08-02.004	November, 1978

MOGS, JOHNSON, SANDOVAL & ASSOC. LTD.

FILE NAME = D978071-sht-rnml2.dgn	USER NAME = HAS	DESIGNED - DAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.0833 ' / IN.	DRAWN - RJT/HAS	REVISED -			2936	16BR-1	PULASKI	68	57
	PLOT DATE = 5/27/2010 1:04:41 PM	CHECKED - MTD	REVISED -		SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.			CONTRACT NO. 78071		
		DATE - 05/10	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT AID		