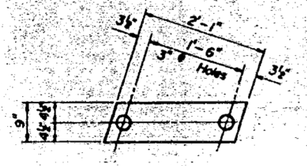
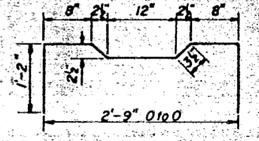
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

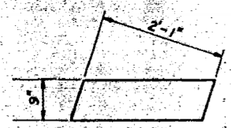
					SHEET NO. 2
	115A				
782	DR-1	HARDIN	22	15	8 SHEETS



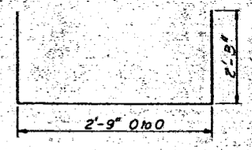
FABRIC BEARING PAD



A_1 BAR

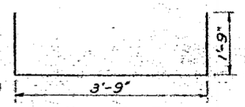


GRAPHITED ASBESTOS BEARING PAD

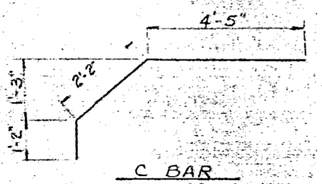


U & U_1 BAR

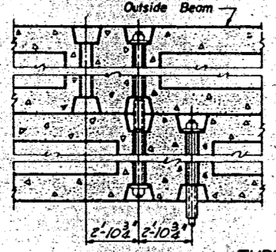
D BAR D_1 BAR

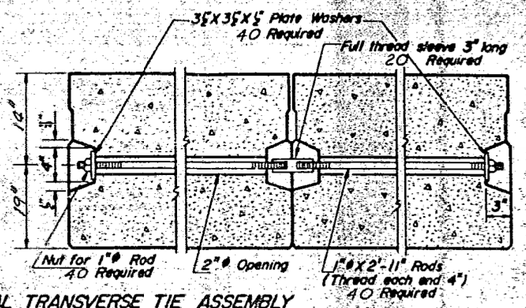


U_3 BAR

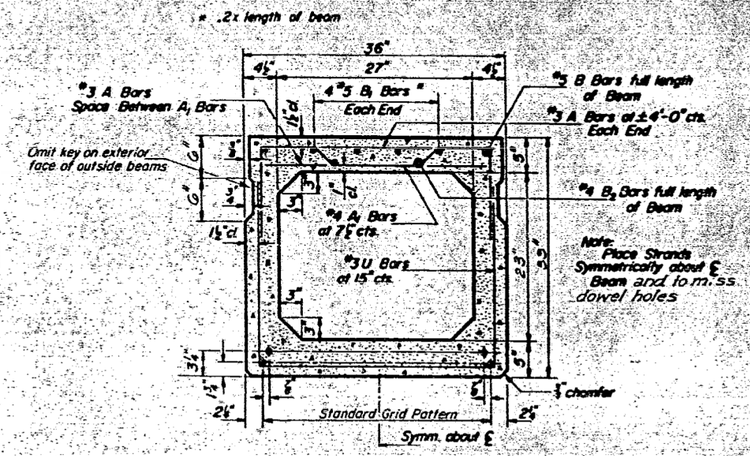


C BAR



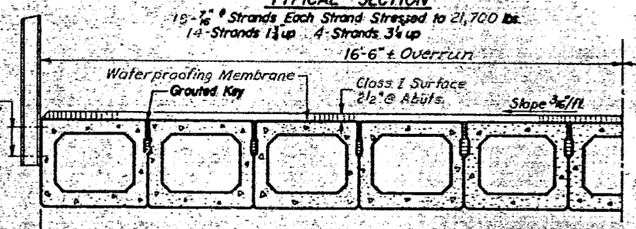


TYPICAL TRANSVERSE TIE ASSEMBLY

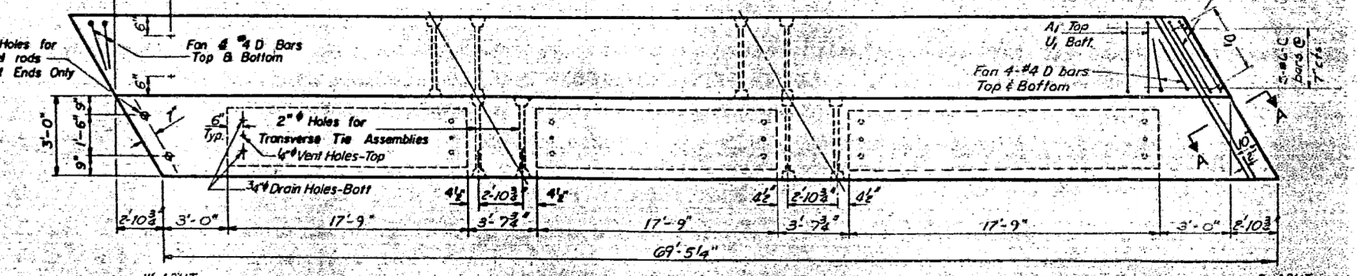


TYPICAL SECTION

19-7/16" ø Strands Each Strand Stressed to 21,700 lbs.
14-Strands 1½ up . 4-Strands 3¼ up

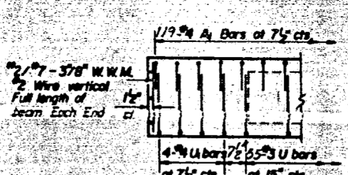


HALF CROSS SECTION

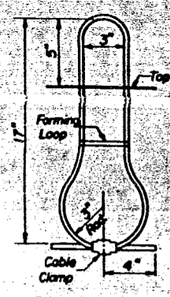


PLAN

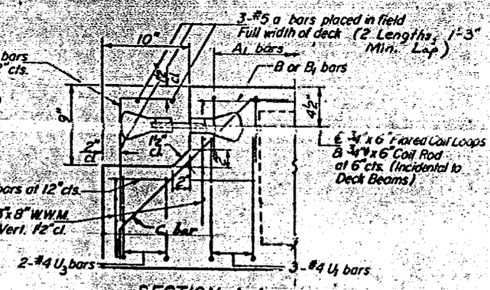
Note: See Sheet #5 for Sections thru Abutments



END ELEVATION FIXED END



LIFTING LOOP DETAIL



SECTION A-A
END OF BEAM (EXP. END)
(Dimensions are at right angles)

GENERAL NOTES

Prestressing steel shall be non-galvanized, high strength, stress-relieved 7-wire strand. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.115 sq in.
Lifting loops shall be ¾" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs.
The 1" ø rods in the transverse tie assembly shall be tightened to a snug fit and the threaded tie pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place.
Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar.
After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place.
Dowel rods shall be AASHTO M227 or M31 Transverse tie rods shall be AASHTO M227 Grade 70-80.
After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with AASHTO A123.
Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	6	#5	24'-0"	
Reinforcement Bars			Lbs.	150
Class X Concrete			Cu. Yds.	1.1
Precast Prestressed Concrete Deck Beams			Sq. Ft.	2294

DESIGNED	JOHN A. MORRIS PSL	EXAMINED	DATE 10 19
CHECKED	Richard S. (w) JM.	PASSED	
DRAWN		APPROVED	
CHECKED	Richard S. (w)		DIRECTOR OF HIGHWAYS

~~PD-3-R 11-19-65 Rev. 5-29-68~~
SR-6 (5-15-71)

SUPERSTRUCTURE
F.A. RT. 782 SEC. 115A-DR-1
HARDIN COUNTY
STATION 996+92

FOR INFORMATION ONLY

USER NAME = koh	DESIGNED - JMS	REVISED -	
ESCA PROJECT NO. 1035.03	DRAWN - HAS	REVISED -	
PLOT SCALE = 0.1667 ' / IN.	CHECKED - NHP	REVISED -	
PLOT DATE = 1/22/2014 5:25:28 PM	DATE - 08/13	REVISED -	

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS – FOR INFORMATION ONLY
STRUCTURE NO. 035-0002

SCALE: | SHEET NO. 2 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	115B-1	HARDIN	70	54
		CONTRACT NO. 78263		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		