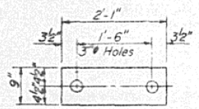
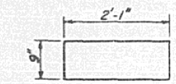
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116BR	Vermilion	16	9

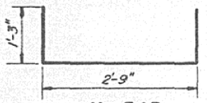
SHEET NO. 2
6 SHEETS



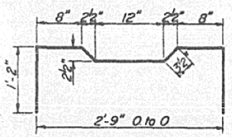
FABRIC BEARING PAD



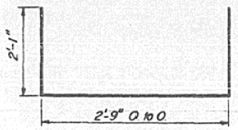
GRAPHITED ASBESTOS BEARING PAD



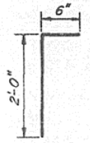
U_2 BAR



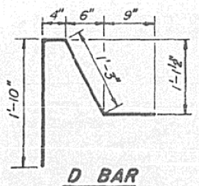
A_1 BAR



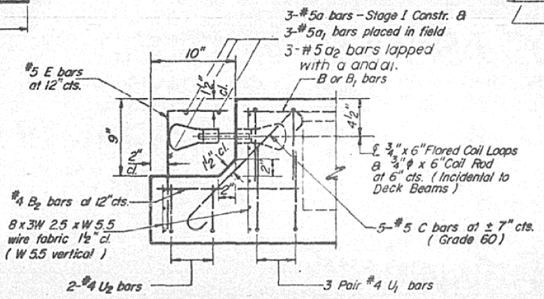
U & U_1 BARS



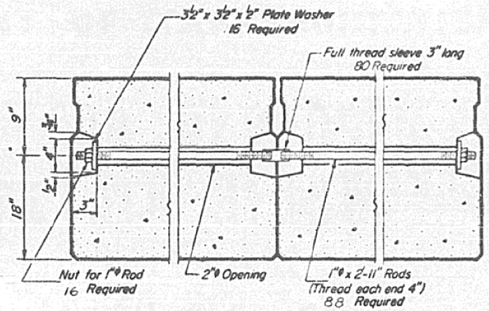
D_1 BAR



D BAR

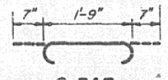


END OF BEAM (EXP. END)

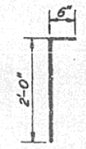


TYPICAL TRANSVERSE TIE ASSEMBLY

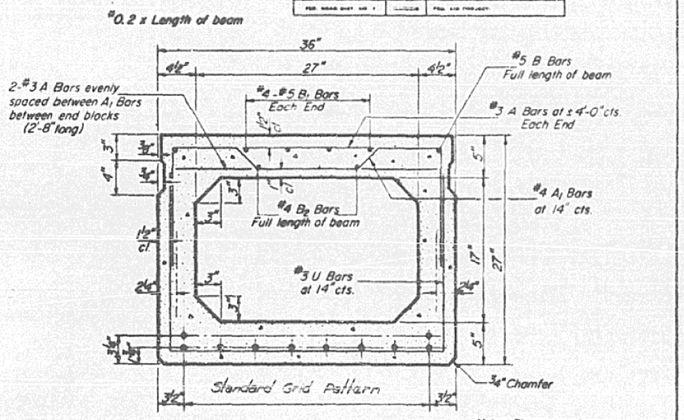
The nut for Stage I tie assembly shall be left in place when installing the Stage II ties.



C BAR



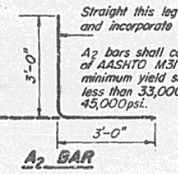
E BAR



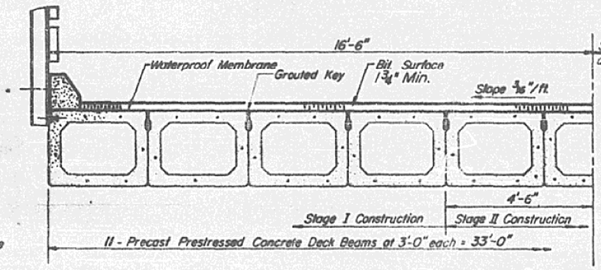
Note: Place strands symmetrically about ℄ beam.

TYPICAL SECTION

½"⌀ Strands Each Strand Stressed to 28,900 Lbs.
8-Strands 13⁄4" up, 2 -Strands 3¼" up,

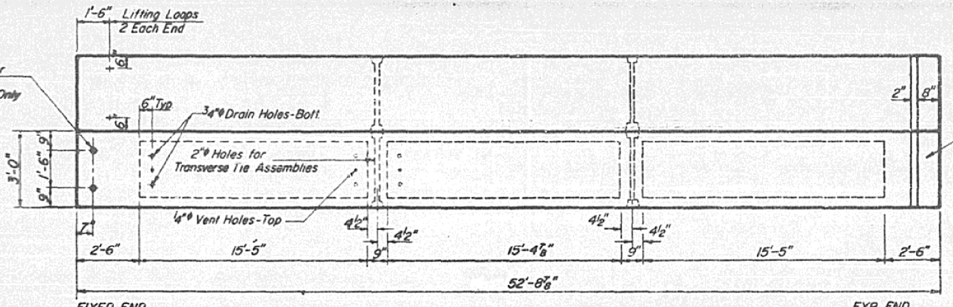


A_2 BAR

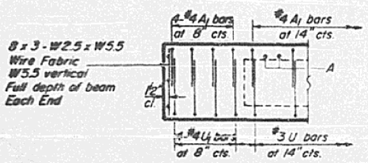


HALF CROSS SECTION

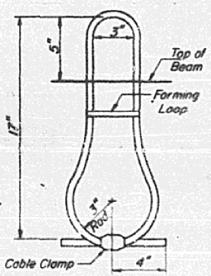
Looking East



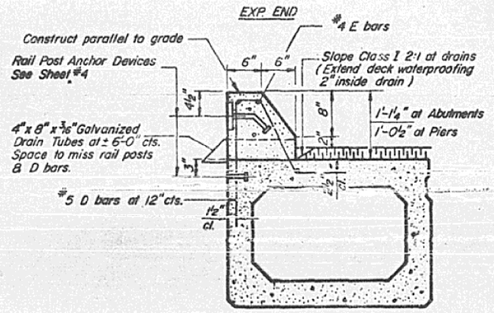
PLAN



END ELEVATION

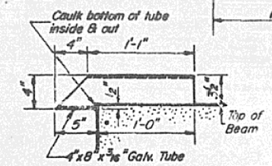


LIFTING LOOP DETAIL



SECTION THRU CURB

Curbs shall be poured in the field. Class X Concrete & E bars for curbs are billed on Sheet #4.



DRAIN DETAIL

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 12" and the nominal cross-sectional area shall be 0.153 sq in.
Lifting loops shall be ⅝" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs.
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.
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 substructure and the anchor dowels shall be grouted in place.
Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60.

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	12	#5	12'-0"	
a_1	12	#5	21'-0"	
a_2	12	#5	6'-0"	
c	20	#5	2'-11"	
Reinforcement Bars			Lbs.	440
Class X Concrete			Cu. Yds.	3.9
Precast Prestressed Concrete Deck Beams			Sq. Ft.	6962
Removal of exist. Superstruct			Each	1

FOR INFORMATIONAL PURPOSES ONLY

SUPERSTRUCTURE
F.A.I. Rt. 711 SEC. 116BR
VERMILION CO.
Sta. 730+96.00

DESIGNED	D. Wallace	
CHECKED	Steve A. Moen	
DRAWN		
CHECKED		

EXAMINED April 17 1979
Carl E. Thuesmeyer
DIRECTOR OF HIGHWAYS
PASSED
APPROVED

PD-5-S 8-1-78

II/4.35

PRINT DATE: 1/13/2014 STIMES SFILES

EFK • Moen, LLC
Civil Engineering Design
331 Salem Place, Suite 225
Fairview Heights, IL 62208
Phone 618-206-4250

USER NAME = detersbj	DESIGNED - CTW	REVISED -	
	CHECKED - CDL	REVISED -	
PLOT SCALE = 0:2.0000 '/ in.	DRAWN - CTW	REVISED -	
PLOT DATE = 1/13/2014	DATE - 1/13/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS (2 OF 5)
STRUCTURE NO. 092-0065
SHEET NO. 2 OF 5 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	116BR-1	VERMILION	84	65
		CONTRACT NO. 70614		
		ILLINOIS FED. AID PROJECT		