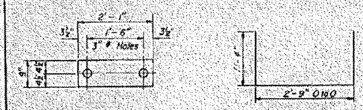
CONTRACT NO. 74107

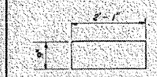
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	(8BR-4)B-1	CLAY	109	98
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

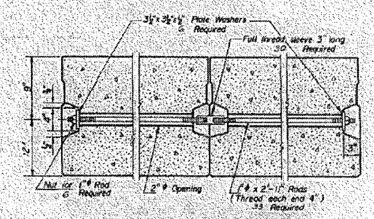


FABRIC BEARING PAD

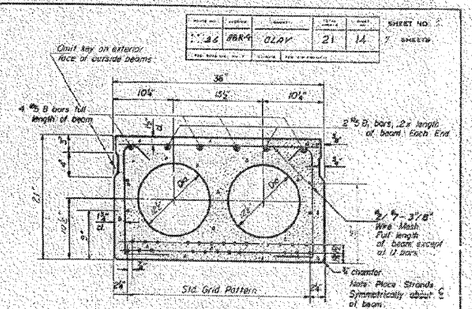
U BAR



GRAPHITED ASBESTOS BEARING PAD

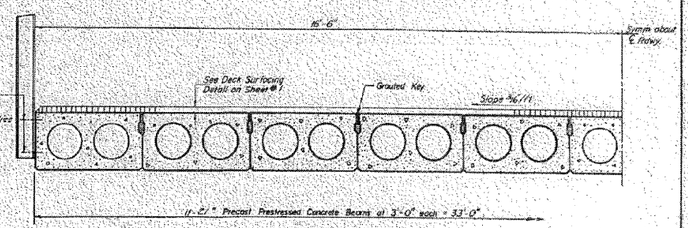


TYPICAL TRANSVERSE TIE ASSEMBLY

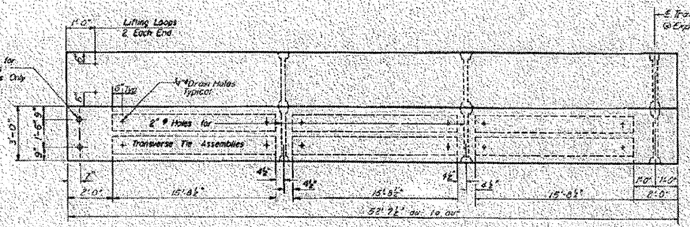


TYPICAL SECTION

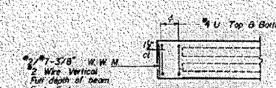
½" ø Strands: Each Strand Stressed to 18,900 lbs.
11 Strands 1½" up, 12 Strands 3½" up, 6 Strands 9" up, 2 Strands 15" up.



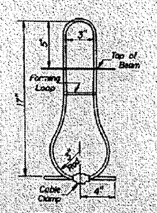
HALF CROSS SECTION



PLAN



END PLAN



LIFTING LOOP DETAIL

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand.
The forming diameter shall be ½" and the nominal cross-sectional area shall be 0.109 sq. in.
Lifting loops shall be ⅝" diameter, 6x19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 25,000 lbs.
The 1" ø 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 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 sockets shall be grouted in place.
Dowel rods shall be A.S.T.M. A-306 or A.S.T.M. A-615. Transverse tie rods shall be A.S.T.M. A-306, Grade 70-80.
After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation A153.
Cost of reinforcement and accessories cast into the beams, 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

Precast Prestressed Concrete Deck Beams			Sq. Ft.	1737

SUPERSTRUCTURE
F.A. RT. 26 SEC. 8BR-4
CLAY COUNTY
STA. 966+56

DESIGNED		
CHECKED		
DRAWN		
CHECKED		

EXAMINED
PASSED
APPROVED

PD-1-2 11-19-65 Rev 5-20-68
SR-1 (5-15-71)

ESCA CONSULTANTS, INC.

DESIGNED BY:	DAJ	04/08
DRAWN BY:	HAS	04/08
CHECKED BY:	MTD	05/08
APPROVED BY:	RDP	08/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
US 45 OVER SEMINARY CREEK
FAP ROUTE 328 - SECTION (8BR-4)B-1
CLAY COUNTY