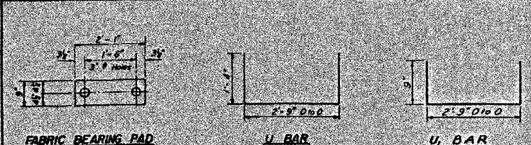
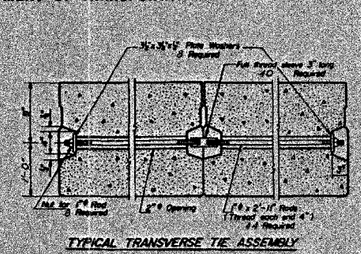
ESCA CONSULTANTS, INC.
CIVIL, STRUCTURAL AND MECHANICAL ENGINEERS
SPRINGFIELD, ILLINOIS

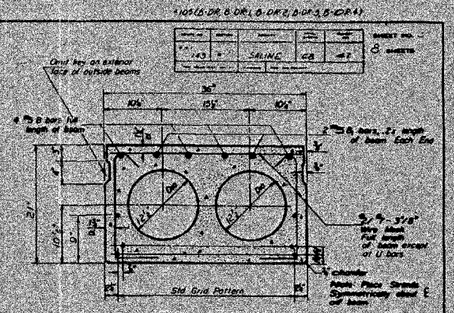
CONTRACT NO. 98996

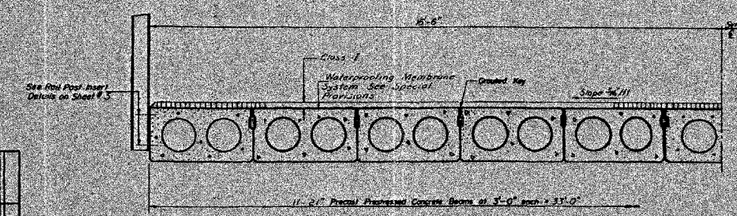
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	(105A)BR-1	SALINE	44	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

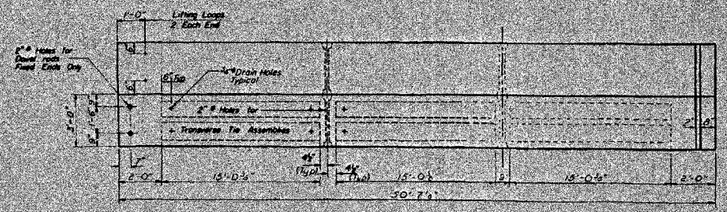
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

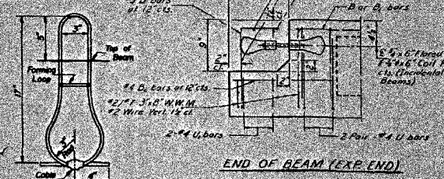












GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress relieved 7-wire strand, Grade 270. The maximum stress shall be 75 % of the ultimate strength. Lifting loops shall be 2 1/2 in. diameter, 6 x 36 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 83,000 lbs.

The 1" ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads pit. Pockets may receive grout for bar on outside beam. Grout shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with a very dry mix of 3/8" sand and P.C. mortar after beams have been erected. Keys for the three exterior shall be sealed into the sub-structure and the shear sheath shall be grouted in place.

Grout mats shall be of A.S.T.M. C-937 or A.A.S.H.O. M-37. Thickness of mats shall be A.S.H.O. M-221, Grade (1)-(2).

After fabrication the stringers to be examined (by non-destructive test methods) shall be fabricated in accordance with ASTM D 3549 D, Alternate (1) & (2) S1 1.2.6.

Cost of reinforcement and accessories cast into the beam, as shown upon end of grading, mechanical shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams".

BILL OF MATERIAL

Bar No.	No.	Size	Length	Shape
U	6	#6	32'-3"	
Precast Prestressed Concrete Deck Beams			Sq. Ft.	9372
Reinforcement Bars			Lbs.	200
Class 'A' Concrete			Cu. Yds.	75

SUPERSTRUCTURE
S.B.I. RT. 143 SEC. 105B-DR-3
SALINE COUNTY
STA. 1382 + 30

DESIGNED BY:	MTD	02/07
DRAWN BY:	DWH	02/07
CHECKED BY:	MTD	02/07
APPROVED BY:	RDP	04/07

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
REFERENCE = REF

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
FAP RTE 869 (IL 34)
SECTION (105A)BR-1
SALINE COUNTY