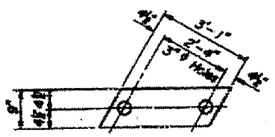
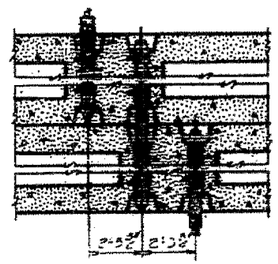
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

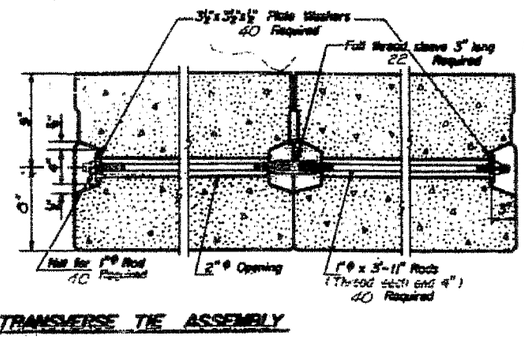
8	U-BR	LASALLE	44	22	SHEET NO. 3 8 SHEETS



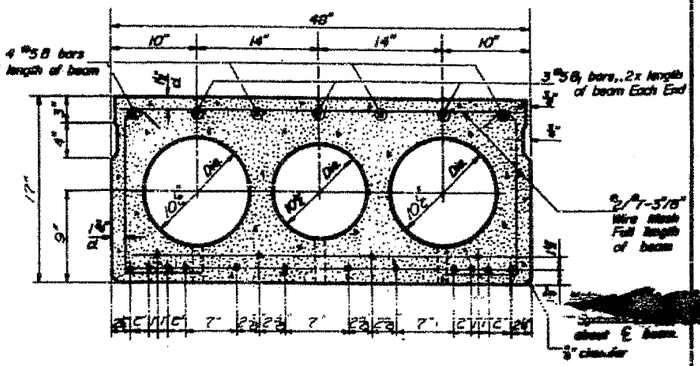
FABRIC BEARING PAD

U1 BAR



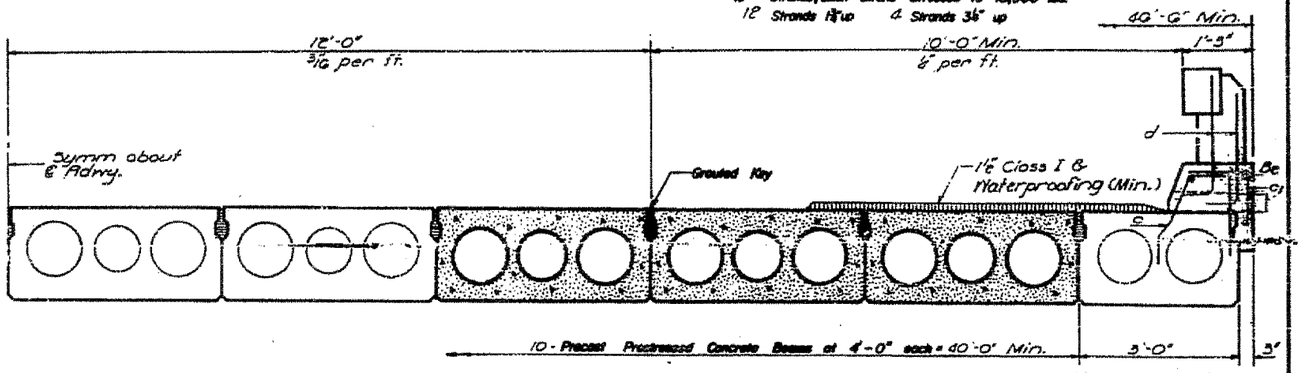


TYPICAL TRANSVERSE TIE ASSEMBLY

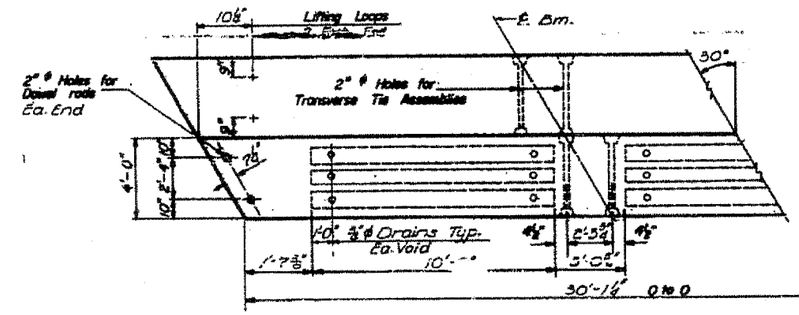


TYPICAL SECTION INT. DMS.

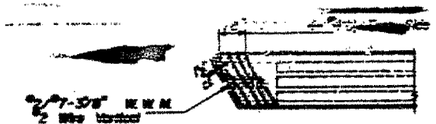
¾" ϕ Strands, Each Strand Stressed to 18,900 lbs.
12 Strands 1¾" up 4 Strands 3½" up



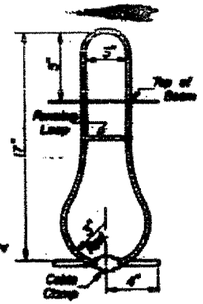
HALF CROSS SECTION



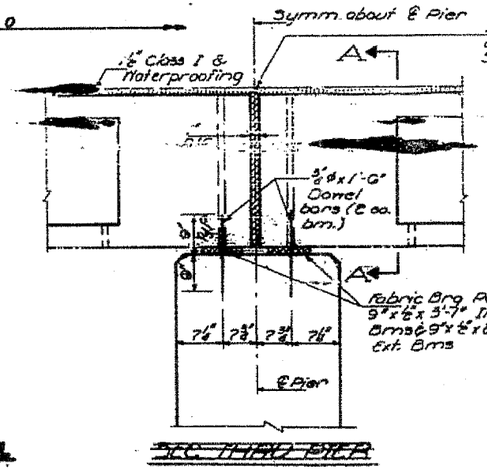
PLAN



END PLAN



LIFTING LOOP DETAIL



SEE THIRD PIER

GENERAL NOTES

Prestressing steel shall be non-[illegible] strand conforming to AASHTO M203 (ASTM A416). The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be ½" Diameter, 6x19 class wire rope with fiber core and shall have a minimum breaking strength of 21,800 lbs.

The 1" ϕ rods in the anchorages at each end of the assembly shall be tightened to a snug fit and the threads at the [illegible] for assembly to be in place.

Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After [illegible] have been placed, holes for the dowel anchors shall be drilled into the sub-structure, and the anchor dowels shall be grouted in place.

After fabrication, the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dip galvanized in accordance with A.S.T.M. Designation: A153.

Cost of galvanizing, and accessories cast into the beams, of bearing plates, of armor angles, and of sawing, [illegible] shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

An Alternate Strand Pattern using extra high strength Prestressing Strand (270 ksi) is permitted. See Special Provisions.

Steel for dowel rods shall be ASTM A-306 or ASTM A-615.

Steel for transverse tie rods shall be ASTM A-306 grade 70-80.

INT. DMS.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
B	80	#5	25'-9"	
U1	320	#6	6'-8"	
Precast Prestressed Concrete 17" Deck Beams		Sq. Ft.	2406	

SUPERSTRUCTURE
SEC. 99-F-1A SEC. U-BR
LA SALLE COUNTY
STA. 99+80

FOR INFORMATION ONLY

DESIGNED	Cargo Aubrey
CHECKED	Suresh T. Desai
DETAILED & DRAWN	J. Miller
CHECKED	S.D.
EXAMINED	
PASSED	
APPROVED	

FD-2-R 11-19-65 Rev 5-20-68