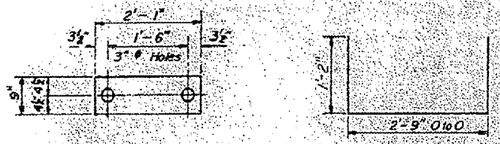
CONTRACT NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			97	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

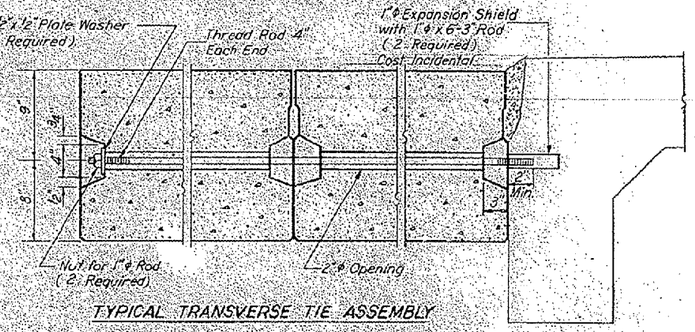
* (101BY)BR & (128BRI)
** WARREN COUNTIES

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

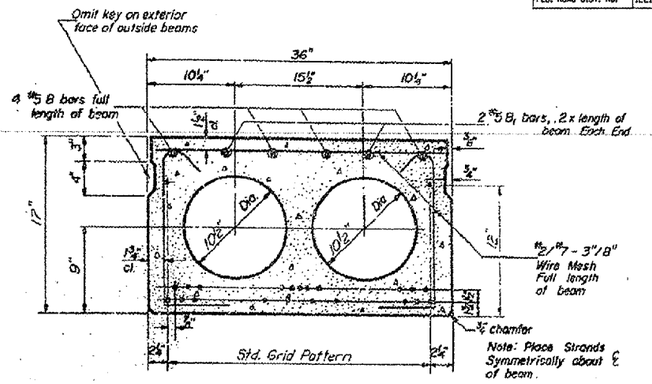


FABRIC BEARING PAD

U BAR

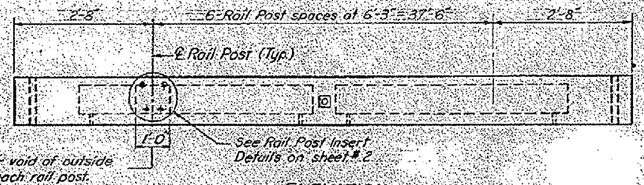


TYPICAL TRANSVERSE TIE ASSEMBLY



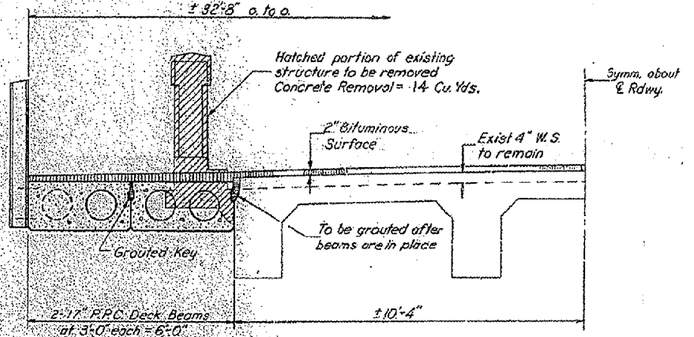
TYPICAL SECTION

7/16" ϕ Strands Each Strand Stressed to 18,900 lbs.
10 - Strands 1¾" up 11 - Strands 3¼" up 2 - Strands 12" up



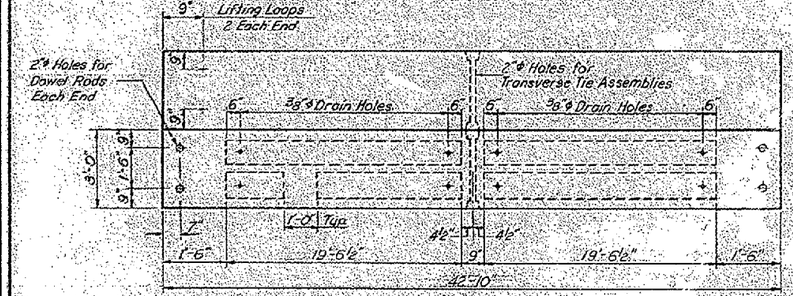
ELEVATION

FOR INFORMATION ONLY



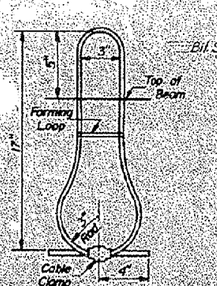
HALF CROSS SECTION

Note: Remove any existing bituminous surface course on bridge.

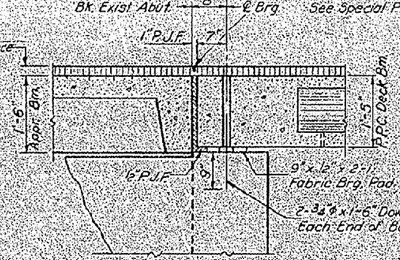


PLAN

END PLAN



LIFTING LOOP DETAIL



SECTION THRU ABUT AT OUTSIDE BEAM

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 0.109 sq. in.

Lifting loops shall be ½" diameter 6 x 19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 18,700 lbs.

The 1" ϕ 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 dowels shall be grouted in place.

Steel for dowel rods, transverse tie rods and armor angles shall be S.A.E. 1020 structural steel A.S.T.M. Designation A 36 or intermediate grade A.S.T.M. Designation A15.

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 A 153.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, of transverse tie assemblies and of grouting longitudinal shear key is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams	Sq. Ft.	514
Concrete Removal	Cu. Yds.	14
Bituminous Concrete Surface Removal	Sq. Yds.	100

DESIGNED	James Perez
CHECKED	Jack Armstrong
DRAWN	J.L. Armstrong
CHECKED	J.P.

EXAMINED Aug. 7 19 69
PASSED H.E. Baumann
APPROVED Director of Highways

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
EXISTING S.N. 094-0001
TOMS CREEK 1971

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

SUPERSTRUCTURE
S.B.I. RT. 65 SEC. 101 BY
WARREN COUNTY
STA. 73+00

PLOT DATE = 7/17/2007
FILE NAME = c:\projects\comerck\final plans\typicals.dgn
PLOT SCALE = 186.8105 ' / IN.
USER NAME = mcgrumbs