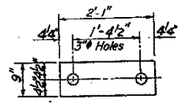
FOR INFORMATION ONLY

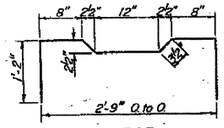
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE SEC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C-64-644	IBR-1	Whiteside	64	24

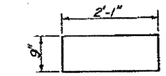
SHEET NO. 3
26 SHEETS



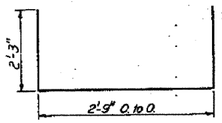
FABRIC BEARING PAD



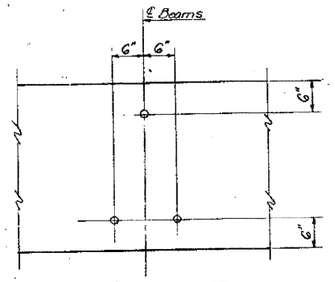
A_1 BAR



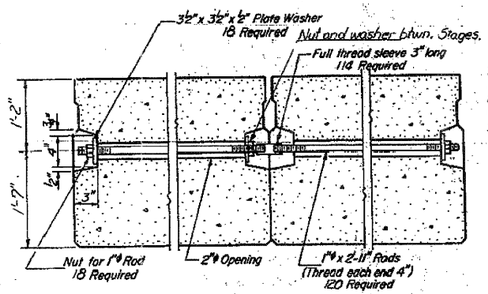
GRAPHITED ASBESTOS BEARING PAD



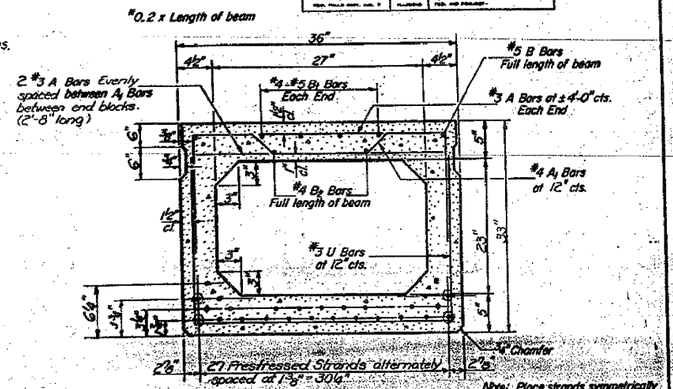
U & U_1 BARS



LOCATION OF THREADED INSERTS
For ⅝"ϕ bolts in sides of outside beams to attach drain scuppers. Spans 1 thru 12.



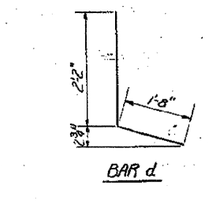
TYPICAL TRANSVERSE TIE ASSEMBLY



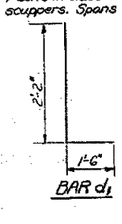
Note: Place strands symmetrically about ℄ beam.
Ⓓ Draped Strands (to 30 and 28)

TYPICAL SECTION

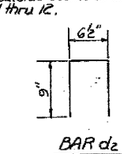
½"ϕ Strands Each Strand Stressed to 22,900 lbs.
12-Strands 1¾" up, 9-Strands ¾" up, 4-Strands 4¾" up, 2-Strands 6¼" up



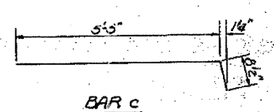
BAR d



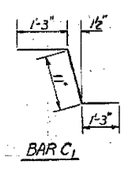
BAR d_1



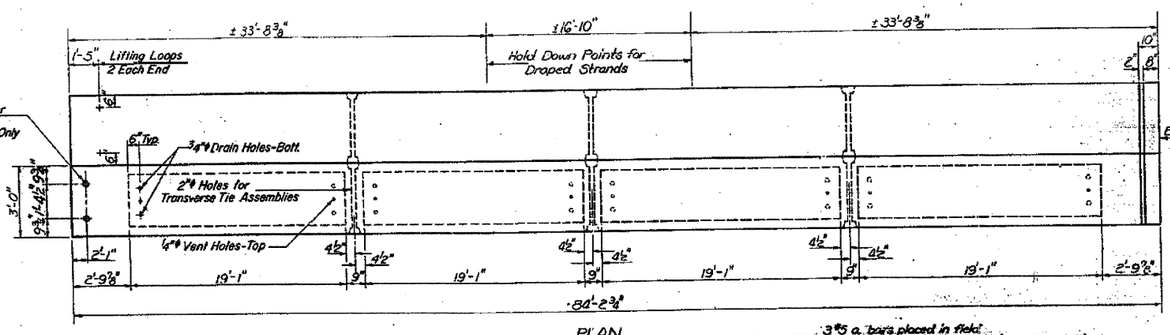
BAR d_2



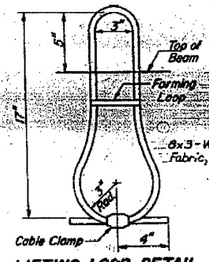
BAR c



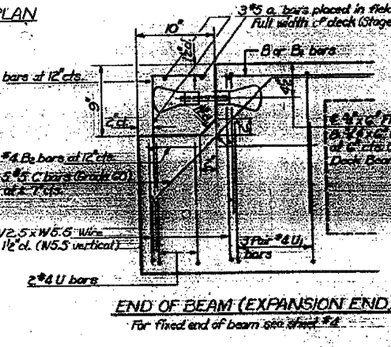
BAR C_1



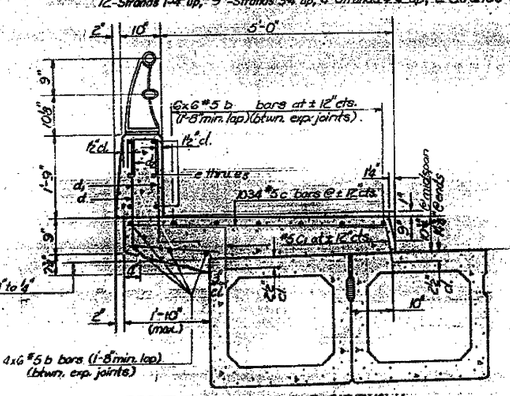
PLAN



LIFTING LOOP DETAIL



END OF BEAM (EXPANSION END)
For fixed end of beam see sheet #6



SEC. THRU PARAPET AND SIDEWALK
(Spans 1 thru 12)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
Precast Prestressed Concrete Deck Beams		Sq. Ft.	10,108	

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
Lifting loops shall be ⅞" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum breaking ultimate tensile strength of 63,000 lbs.
The ℄ pins in the transverse tie assembly shall be tightened to a snug fit and the threads on the ℄ pins damaged to prevent the nuts from loosening.
The ℄ pins shall be placed in the 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 (ASTM A-615) 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."
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

DESIGNED	Dan Krull
CHECKED	M. J. Ryan
DRAWN	Joe Sutherland
CHECKED	MJR

July 29 1980
EXAMINED Carl E. Hammarth
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

PD-3-S 7-15-75

SPANS 1 & 12
SUPERSTRUCTURE
FA RT 88 (SECT 1BR)
STATE OF ILLINOIS

SHEET NO.	TOTAL SHEETS	SHEET NO.
4 OF 31	257	215

CONTRACT NO. 64B80
FOR INFORMATION ONLY