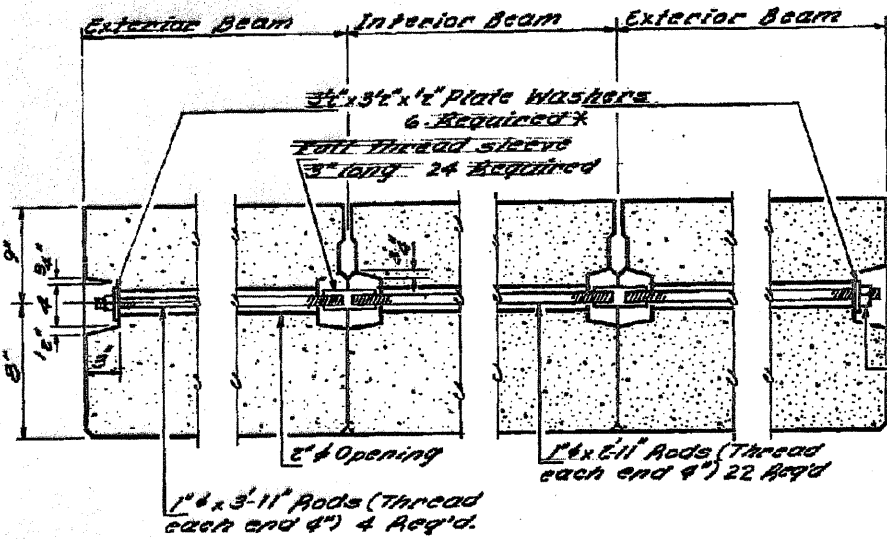


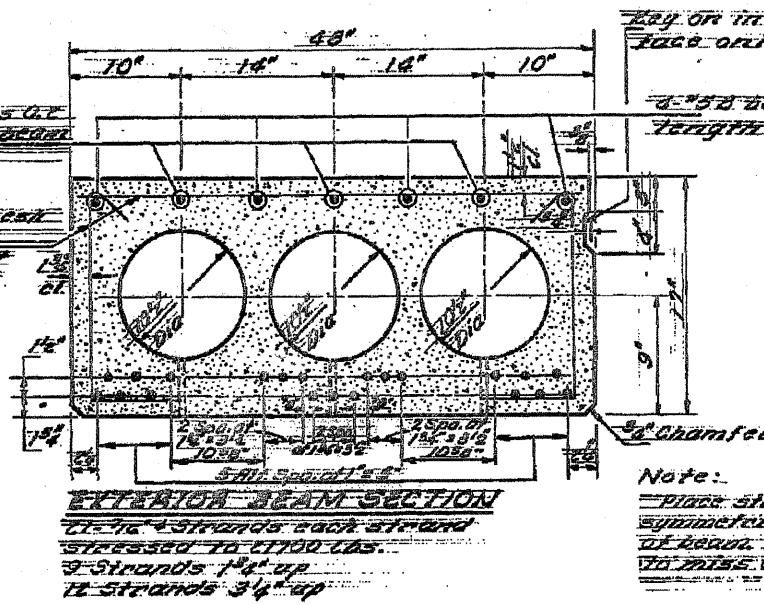
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132 W. R.S. 4	132 W. R.S. 4	McHENRY	217	3
SHEET NO. 3				14 SHEETS

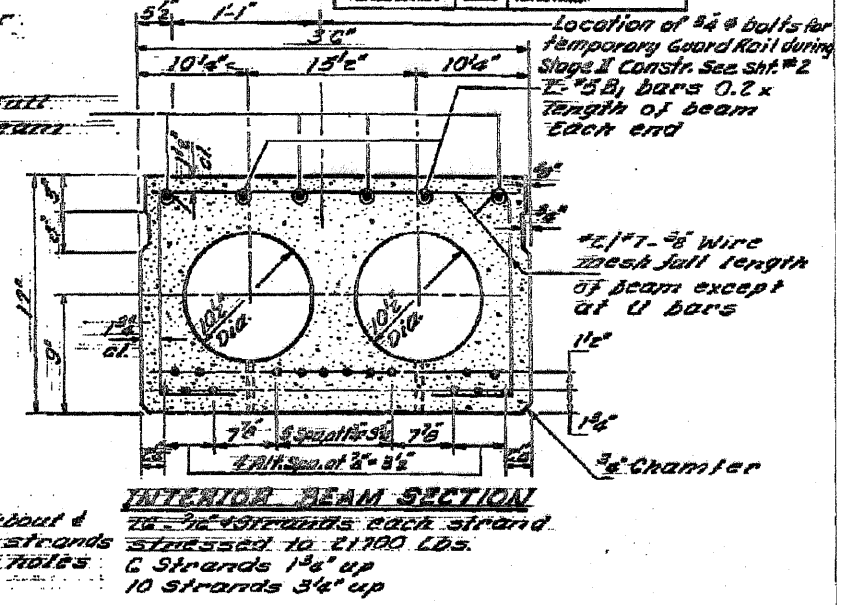


TRANSVERSE TIE ASSEMBLY

* During Stage I Construction the transverse tie is to be assembled with a washer and nut at the stage construction joint.



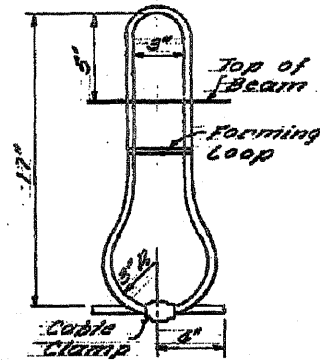
EXTERIOR BEAM SECTION
17-17 strands each strand stressed to 2100 lbs.
6 Strands 1 3/4" up
10 Strands 3/4" up



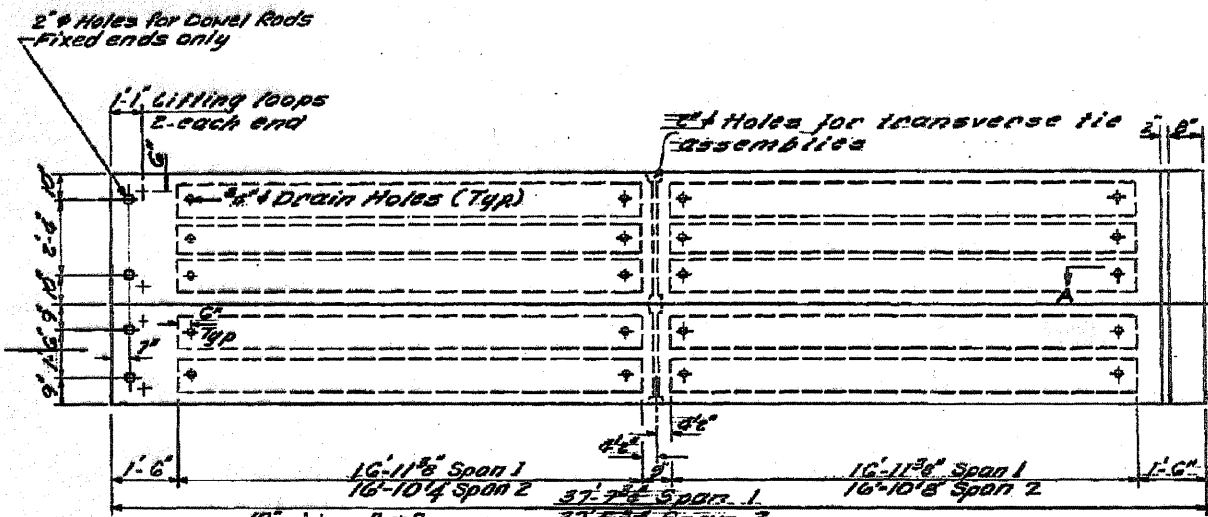
INTERIOR BEAM SECTION
16-16 strands each strand stressed to 2100 lbs.
6 Strands 1 3/4" up
10 Strands 3/4" up

GENERAL NOTES

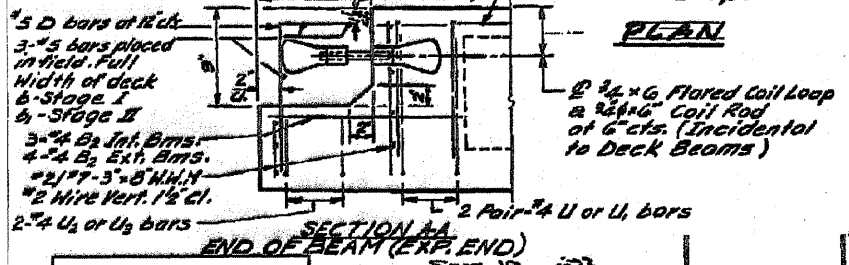
Prestressing steel shall be non-galvanized extra high strength, stress-relieved 7 wire strand. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.115 sq. in.
The 1/2" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that 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 cement and P.C. Mortar.
After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and anchor dowels grouted in place.
Dowel rods shall be A.S.T.M. A306 or A-315. Transverse tie rods shall be A.S.T.M. A-306, Grade 10-80.
After fabrication the transverse tie assemblies (tie rods, nuts, washers & sleeves) shall be hot-dipped galv. in accordance with A.S.T.M. designation: A118.
Cost of reinforcement & accessories cast into the beam, of bearing pads and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams".
Lifting loops for 17x36" P.R.C. Beams shall be 1/2" dia., G25 class wire, rope with fiber core and shall have min. ultimate tensile strength of 18,700 lbs.
Lifting loops for 17x48" P.R.C. Beams shall be 3/4" dia., G25 class wire, rope with fiber core and shall have a min. ultimate tensile strength of 29,000 lbs.



LIFTING LOOP DETAIL

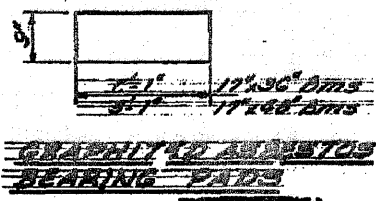


PLAN

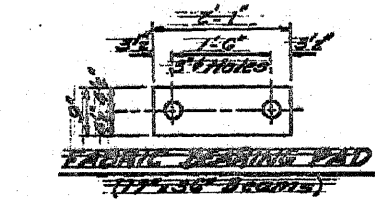


SECTION AA

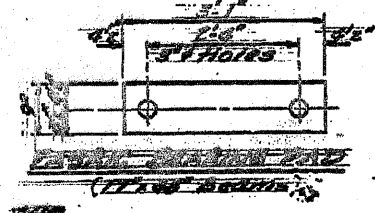
DESIGNED	PAUL S. W.	EXAMINED	[Signature]
CHECKED	DA RYAN	DRAWN	[Signature]
CHECKED	DA RYAN	DATE	12/14/10



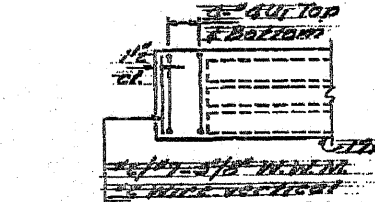
GRAPHIC TO ASSIST BEARING PADS



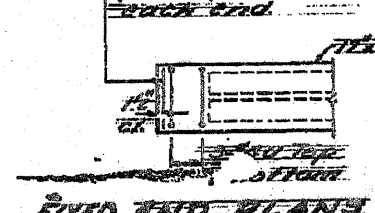
FACILE BEARING PAD



FIXED END BEARING PAD



FIXED END BEARING PAD



FIXED END BEARING PAD

BILL OF MATERIAL

Bar NO.	SIZE	Length	Shape
6	3/4	17'-3"	
4	1/2	24'-9"	
Precast Prestressed Concrete Deck Beams			
Sq. Ft. 3079			
Class 2 Concrete Cycles 1.2			
Reinforcement Bars Lbs. 260			

SUPERSTRUCTURE
STATION 30+00 TO 30+10

FILE NAME = P:\CBBEL\WEST Projects\2009\09-0147_IL173\Civil\Drawn\Shr\0168024-ent-old\plan-03.dgn

WBK WILLIS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = #USER#	DESIGNED -	REVISIONS -
PLOT SCALE =	DRAWN -	REVISIONS -
PLOT DATE = 1/5/2011	CHECKED -	REVISIONS -
	DATE = 12/14/10	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR REFERENCE ONLY

SCALE: SHEET NO. 70 OF 106 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	132 B-2	McHENRY	106	70
CONTRACT NO. 60129				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY