

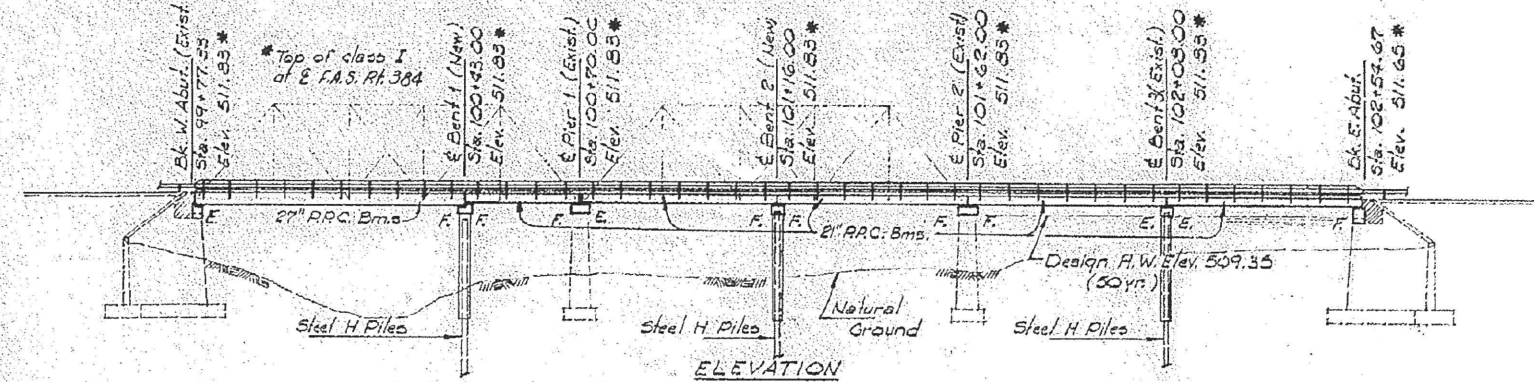
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P.A.S. 384	Z-ID-BR-1	Peoria	89	76a
ILLINOIS FEDERAL AID PROJECT				

B.M.: Chisled square on N.W. Wing wall - Existing Bridge, Elev. 510.28. Existing Structure No. 072-0047. Built as a three (3) span truss bridge on conc. piers and closed abutments. Built as S.A. Route 11, Sec. 2-ID, of Sta. 101+15.9 in 1931. East span truss replaced in 1974 with a two (2) spans P.P.C. Deck Bms. Superstructure on a pile bent pier. The remaining 2 Truss spans to be replaced with a P.P.C. Deck Bms. Superstructure on enclosed pile bent piers. The two (2) spans which were built in 1974 shall be widened. The existing 36" wide P.P.C. Deck Beams shall be repositioned to accommodate the proposed Hwy. crown. The existing 48" wide P.P.C. Deck Beams shall be removed and replaced with 36" wide Deck Beams.

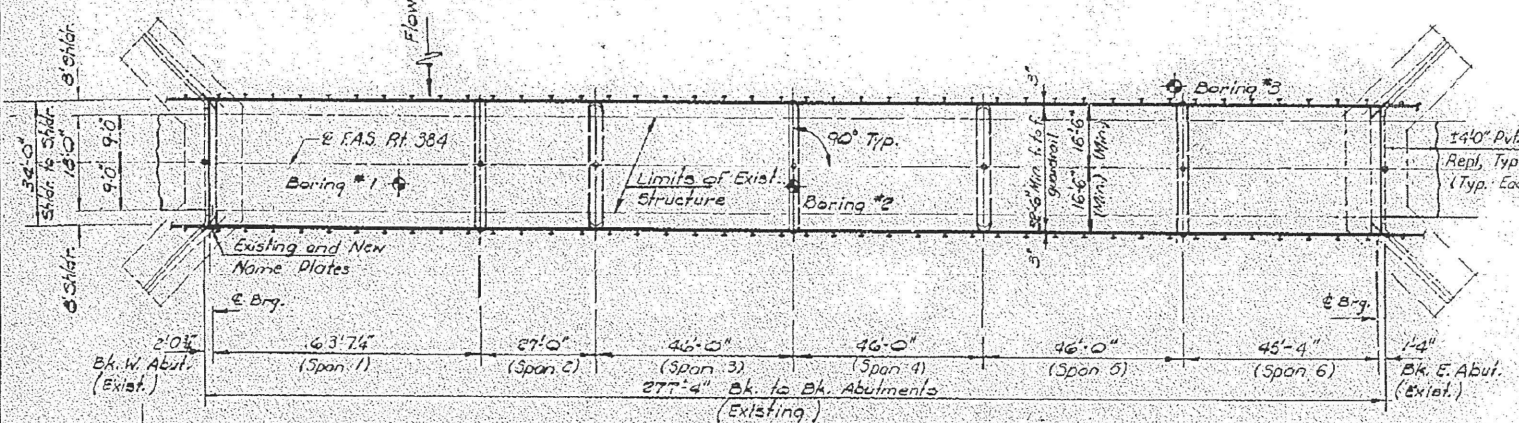
GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31 or M53, Grade 60. For Boring Data see the Proposal.
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.
It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
Expansion bolts shall consist of self drilling expansion anchors and 3/4" x 12" hooked bolts.
The Contractor shall drive one steel (HPBx36) test pile in a permanent location at Bent #1 as directed by the Engineer before ordering the remainder of piles.
Limits of Waterproofing Membrane System shall be from end of deck at west end to back of abutment at east end and face of curb.
The concrete section above the mandatory construction joint at the top of the exterior beams shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Standard Concrete.



STATION 101+16.00
KICKAPOO CREEK
REBUILT 19
F.A.S. RT. 384 SEC. 2-ID-BR-1
LOADING HS20
***STR. NO.

NAME PLATE
(See Std. 2113)
***Structure No. to be supplied by District.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Structure Excavation	Cu. Yd.		75	75
Bituminous Concrete Surface Course, Class I	Tons	65		65
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		41	41
Removal of Existing Concrete Deck Beams	Each	2		2
Remove and Reset Existing Precast Prestressed Concrete Beams	Each	12		12
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2117		2117
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	5294		5294
Expansion Bolts (3/4")	Each		110	110
Pavement Removal and Portland Cement Concrete Replacement, Type III (10")	Sq. Yd.	16		16
Protective Coat	Sq. Yd.	92		92
Class X Concrete	Cu. Yd.	18.7	192.2	210.9
Reinforcement Bars	Pound	1600	18,940	20,540
Structural Steel	Pound	4890		4890
Waterproofing Membrane System	Sq. Yd.	957		957
Steel Railing, Type "T"	Lins. Ft.	551		551
Preformed Joint Sealer (12')	Lins. Ft.	99		99
Steel Piles (HPBx36)	Lins. Ft.		702	702
Test Piles Steel (HPBx36)	Each		1	1
Name Plates	Each		1	1
Portland Cement Mortar Fairing Course	Lins. Ft.	2721		2721

FOR INFORMATION ONLY

DESIGN STRESSES (New Construction)

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_s = 20,000$ psi (Struct.)

PRECAST PRESTRESSED UNITS

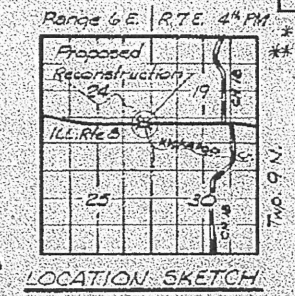
$f_c = 5,000$ psi
 $f_{ci} = 4,000$ psi
 $f_s = 270,000$ psi (6" strands)
 $f_{si} = 188,700$ psi (6" strands)

LOADING HS 20-44

Allow 25" eq. ft. for future wearing surface. (New Construction)
Design Specification AASHTO 1973, 1974, 1975, 1976 and 1977 Interim Specification.

WATERWAY INFORMATION

Drainage Area = 230 sq. mi.
Existing Opening = 3500 sq. ft.
Required Opening = 3800 sq. ft.
Proposed Opening = 3800 sq. ft.
Design Discharge (50 yr.) = 27,700 cfs.
Created Head for Design Flood = 0.45'
100 yr. Discharge = 32,000 cfs.
Created Head for 100 yr. Flood = 0.62'
100 yr. H.W. Elev. = 510.36
50 yr. Design H.W. Elev. = 509.35



GENERAL PLAN & ELEVATION
F.A.S. Rte. 384 Over Kickapoo Creek of Edwards
F.A.S. Rte. 384 SECTION 2-ID-BR-1
PEORIA COUNTY
Sta. 101+16.00

DESIGNED: *Lee H. Hurd*
CHECKED: *R. Doty*
DRAWN: *R. Doty*
CHECKED: *D.E.A.*
EXAMINED: *January 23, 1976*
PASSED: *[Signature]*
APPROVED: *[Signature]*

