

B.M.: RR Spike in N side of 20° C&K B&O Rl.  
Sta. 226+79 Elev. 363.4'

Existing structure, No. CB3-0019 built as S.B.I. Rte. 54 Sec. 1 B.C. of Sta. 235+10 in 1925. The existing truss superstructure shall be removed and the diaphragm walls RC closed abutment substructure widened to accommodate a new P.C. Deck Beam superstructure. Traffic shall be detoured to a temporary road during reconstruction.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STATION 235+00.00  
REBUILT BY  
STATE OF ILLINOIS  
F.A. RTE 132 SEC 1B-DR-1  
PROJECT # 03729  
LOADING HS 80  
STA. 18 035-000  
NAME PLATE  
(See Sld. C113)

DATE	NO.	REVISION
11/13/22	1	Submittal
11/13/22	2	11

SHEET NO. 1  
7 SHEETS

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31, Grade 60 except as noted in Design Stresses. For Boring Data see the Proposal.

All structural steel shall be shop painted with two coats of basic lead silico chromate paint.

The Contractor shall drive one steel (HPBx36) test pile in a permanent location of the pier as directed by the Engineer before ordering the remainder of piles.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

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.

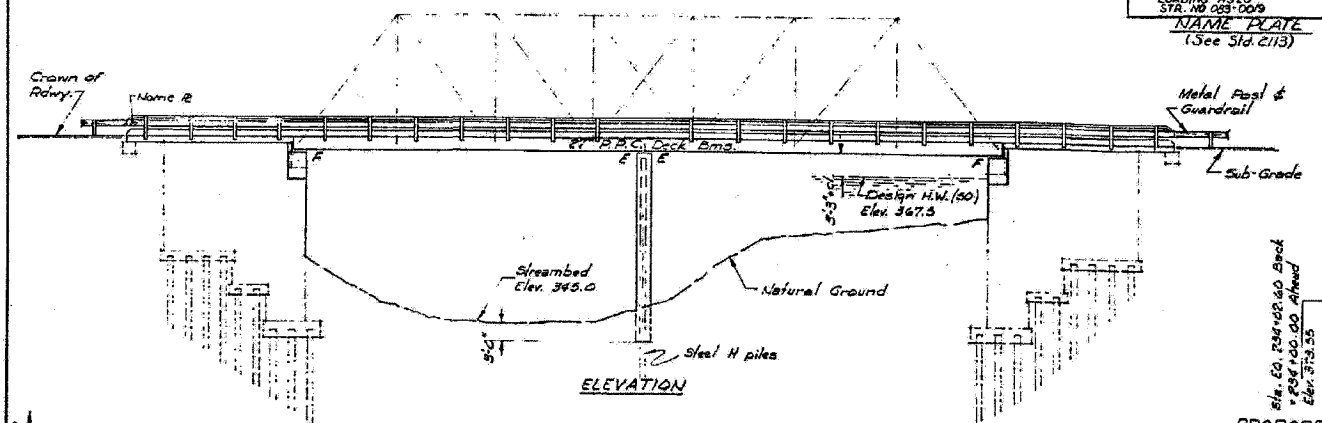
The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

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.

Limits of Waterproofing Membrane System shall be six inches beyond the ends of approach slabs and face to face of curbs.

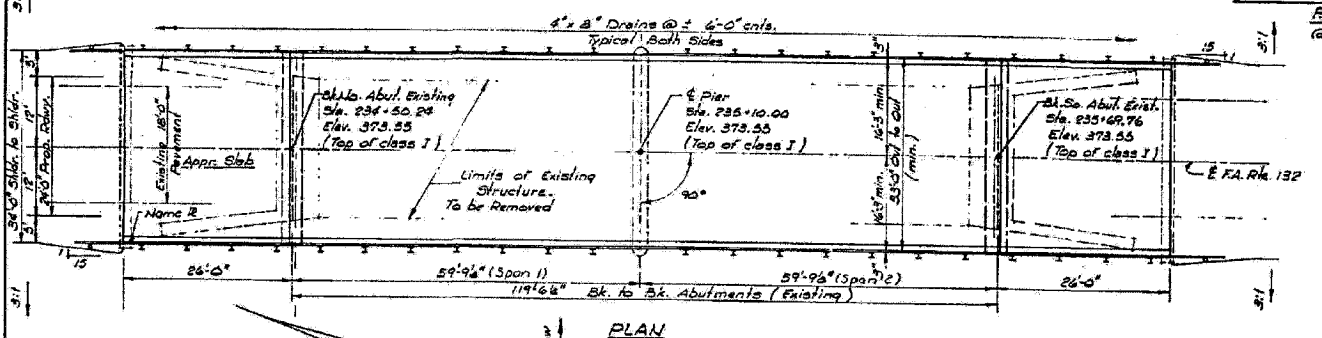
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07 (c) of the Standard Specifications and are included in quantity of structural steel.



PROPOSED PROFILE GRADE  
F.A. RTE 132  
@ E Rdwy.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Superstructures	Each	1		1
Structure Excavation	Cu Yd		67	67
Bituminous Concrete Surface Course, Class I	Tons	40		40
Concrete Removal	Cu Yd		25	25
Pavement Removal	Cu Yd	100		100
Protective Coat	Sq. Yd	57		57
Class A Concrete	Cu Yd		94.1	94.1
Class X Concrete	Cu Yd	102	10.7	112.7
Precast Prestressed Concrete Deck Beams (2'x18")	Sq. Ft.	3944		3944
Structural Steel	Pound	2127		2127
Reinforcement Bars	Pound	20,460	6990	27,450
Waterproofing Membrane System	Sq. Yd	590		590
Portland Cement Mortar Finishing Course	Lin. Ft.	1178		1178
Steel Rolling, Type 27"	Lin. Ft.	343		343
Steel Piles (HPBx36)	Lin. Ft.		620	620
Test Piles Steel (HPBx36)	Each		1	1
Expansion Bolts 3/4"	Each		32	32
Preformed Joint Sealer (4")	Lin. Ft.	33		33
Name Plates	Each		1	1



WATERWAY INFORMATION

Drainage Area	=	248 sq. miles
Required Opening	=	3322 sq. ft.
Proposed Opening - Main Channel	=	1653 sq. ft.
Overflow Structure	=	1321 sq. ft.
Overflow Culvert	=	288 sq. ft.
G (50)	=	17,000 c.f.s.
G (100)	=	76,000 c.f.s.
H.W.E. (50) Design	=	367.5

DESIGN STRESSES

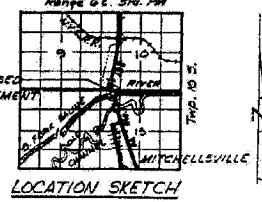
FIELD UNITS

F <sub>c</sub>	=	3500 psi
F <sub>s</sub>	=	50,000 psi
F <sub>1</sub>	=	270,000 psi (1/2" strand)
F <sub>2</sub>	=	135,000 psi (1/4" strand)

PRECAST PRESTRESS UNITS

F <sub>c</sub>	=	5,000 psi
F <sub>s</sub>	=	4,000 psi
F <sub>1</sub>	=	270,000 psi (1/2" strand)
F <sub>2</sub>	=	135,000 psi (1/4" strand)

LOADING HS 80-44  
Allow 25' x 9" ft. for future wearing surface. Design Specification: 1973 AASHTO 1974, 1975 and 1976 Interim Specs



GENERAL PLAN & ELEVATION  
F.A. RTE. 132 Over So. Fork Saline River (main channel)  
F.A. RTE. 132 SECTION 1B-DR-1  
SALINE COUNTY  
Sta. 235+10.00

DESIGNED	J. A. Hume	EXAMINED	[Signature]
CHECKED	[Signature]	PASSED	[Signature]
DRAWN	R. Doty	APPROVED	[Signature]
CHECKED	YES		