

# AS-BUILT PLANS FOR INFORMATION ONLY

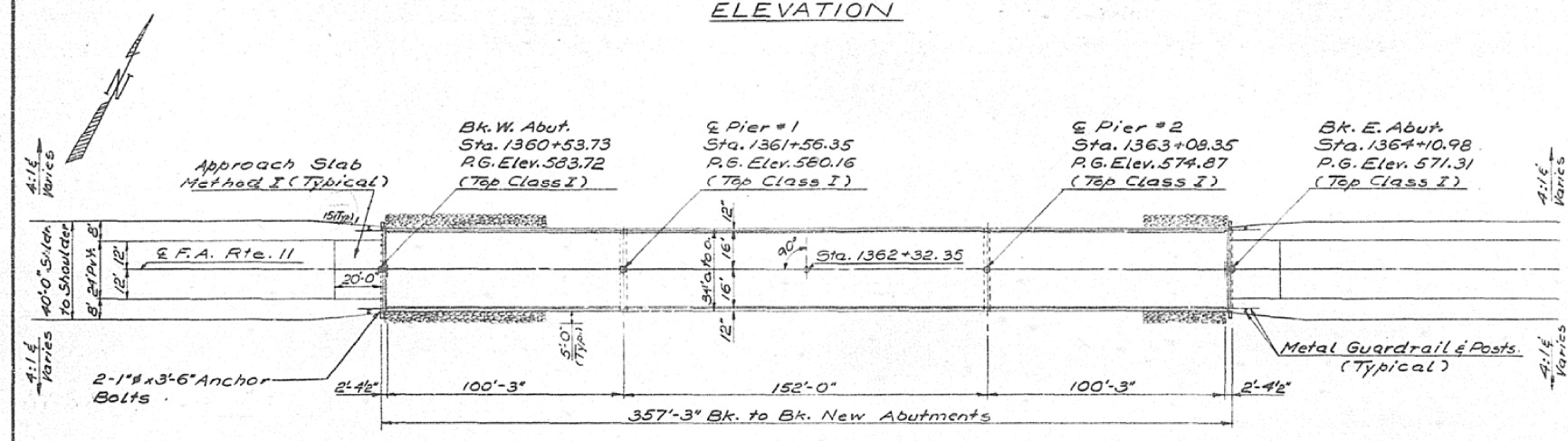
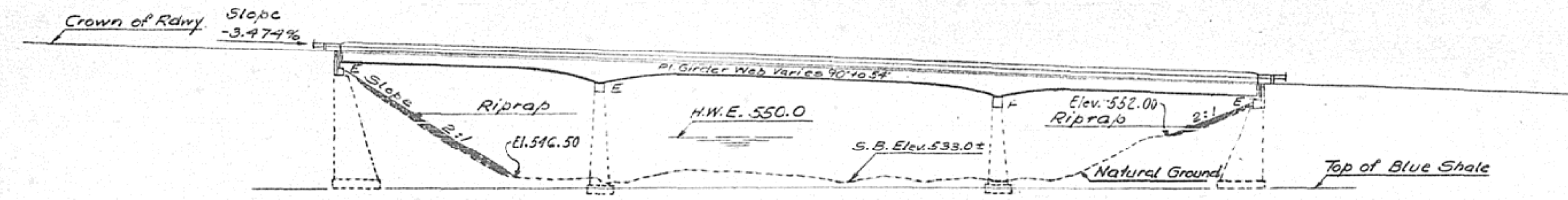
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
110	36BR	VERMILION	25	13
13 SHEETS				

B.M.: 110' Rt. Sta. 1376+90 on S. end of Culvert in top of S.E. Wing near Hdwl; Standard tablet stamped "12M 1929 Reset 1953" Elev. 561.104.  
The existing superstructure with three span steel trusses shall be removed. The existing P.C.C. piers and Spill-Thru abuts shall be rebuilt to accommodate a new widened Plate Girder with concrete deck superstructure. Traffic shall be detoured during reconstruction. Existing Structure: No. 092-0050; Built as S.B.I. Rte. 10, Sec. 36 B & C, at Sta. 201+00 in 1927. No salvage.

### GENERAL NOTES

- Fasteners shall be high strength bolts. Bolts 2" dia., cover holes 1/8", unless otherwise noted.
- Calculated weight of Structural Steel = 362270 Lbs.
- All structural steel shall be AASHTO M 222 unpainted except expansion joint angles and attached bars which shall be AASHTO M 183 and shop painted with two coats of basic lead silico chromate paint.
- Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
- Anchor bolts shall be set before bolting cross frames over supports. 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.
- 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.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8". Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
- Any structure excavation required shall be incidental to Concrete Removal.

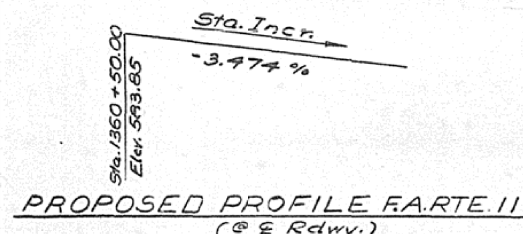


STATION 1362+32.35  
REBUILT BY  
STATE OF ILLINOIS  
F.A.R.T. II SEC. 36 BR  
LOADING HS 20

**NAME PLATE**  
(See Std. 2113)

### TOTAL BILL OF MATERIAL

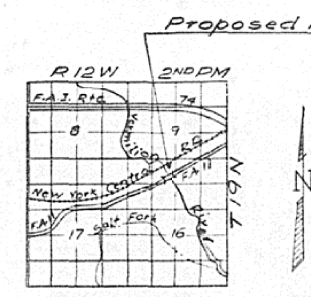
Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course Class I	Sq. Yds	67		67
Removal of Existing Superstructures	Each		1	1
Concrete Removal	Cu. Yds.		153	153
Class X Concrete	Cu. Yds.	376.4	123.0	499.4
Reinforcement Bars	Lbs.	98480	17,600	116,080
Structural Steel	L.S.	L.S.		L.S.
Expansion Bolts (3/4")	Each		72	72
Name Plates	Each		1	1
Preformed Joint Sealer (4")	Lin. Ft.	34		34
Neoprene Exp. Joint (4")	Lin. Ft.	35		35
Shear Stud Connections	Each	2385		2385
Protective Coat	Sq. Yds.	285		285
Waterproofing Membrane System	Sq. Yds.	1199		1199
Stone Riprap	Sq. Yds.		454	454



DESIGNED	R.E. Mathews	EXAMINED	March 5 2016
CHECKED	James Pence	PASSED	Director of Bridges and Traffic Engineering
DRAWN	V.H. J.R.	APPROVED	Director of Highway
CHECKED	JNP		

**WATERWAY INFORMATION**  
 Drainage Area 447 Sq. Mi.  
 Required Opening 2500 Sq. Ft.  
 Proposed Opening 2500 Sq. Ft.  
 H.W.E. (150) 550 ft.  
 $\Delta H(150) = .11'$   
 $Q(150) = 15,750 \text{ cfs}$   
 H.W.E. (100) 550.3'  
 $\Delta H(100) = .13'$   
 $Q(100) = 18,150 \text{ cfs}$

**DESIGN STRESSES**  
 $f_c = 1400 \text{ psi (Sub. Curb \& Parapet)}$   
 $f_c = 1200 \text{ psi (Deck Slab)}$   
 $f_s = 20000 \text{ psi (Reint.)}$   
 $f_s = 20000 \text{ psi (Struct.) (M183)}$   
 $f_s = 27000 \text{ psi (Struct.) (M222)}$   
 $\gamma = 85$   
 Loading: HS 20-44  
 Allow 25 #/a for fut. W.S.  
 Design Specifications: 1973 AASHTO, 1974 and 1975 Interim Specifications.



**GENERAL PLAN & ELEVATION**  
 F.A.R.T. II OVER MIDDLE FORK  
 OF VERMILION RIVER  
 F.A.R.T. II SECTION 36 BR  
 VERMILION COUNTY  
 STA 1362+32.35