

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 412	8	DEWITT	111	56
F.P.D. ROAD DIST. NO. 1				
F.P.D. ROAD DIST. NO. 1				

GENERAL NOTES

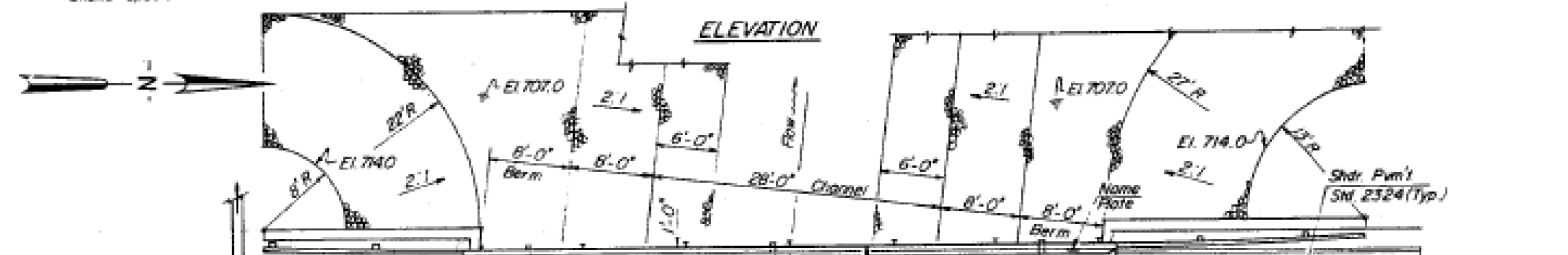
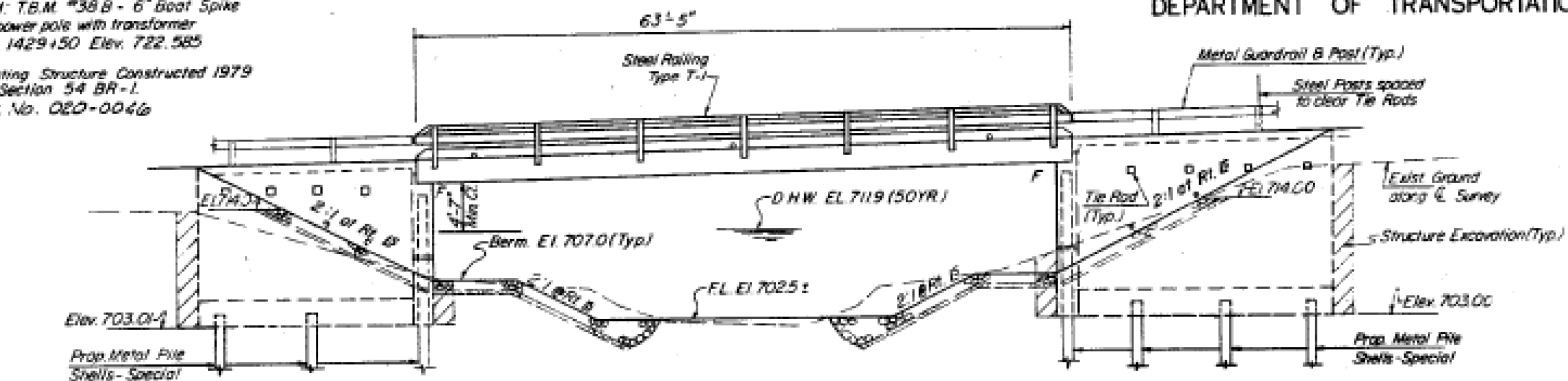
See Proposal for Boring Date
All reinforcing bars shall conform to AASHTO M-31 or M-53 Grade 60.
A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for Precast Prestressed Concrete Deck Beams.
The top surface of the beams shall be finished in accordance 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, and the top edge of keys shall be rounded or chamfered, a min. of a 1/4".
The back of the breastwalls and the back of wings shall be waterproofed in accordance with Article 503.11 of the Standard Specifications.
Backfill shall be placed behind the abutments after the superstructure has been erected and the thrust blocks poured. See Article 502.11 of the Standard Specifications.
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied. Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
The Contractor shall drive two Metal Pile Shells - Special, Test Piles in a permanent location one at each Abutment as directed by the Engineer before ordering the remainder of the piles.
The 1/4" Steel Tie Rods, and all associated hardware, that will be used for the Abutment Tie-Backs, shall be galvanized in accordance with AASHTO M252, M111, &/or ASTM A365.
Protective Coat shall be applied to Inside Face and Top of Curbs, and Top of Abutment Wingwalls.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete	Cu Yds	4.1	175.7	179.8
P.P.C. Deck Beams (2" Depth)	Sq. Ft	2664		2664
Reinforcement Bars	Lbs	200	21,170	21,370
Furnishing Metal Pile Shells - Special	Lin. Ft		1204	1204
Driving & Filling Shells	Lin. Ft		1204	1204
Test Pile Metal Shells - Special	Each		2	2
Structure Excavation	Cu Yds		321	321
Structural Steel	Lbs		2100	2100
Steel Railing Type T-1	Lin. Ft	127		127
Leveling Binder (Machine Method)	Ton	11		11
Bit Coat Surf. Course, Mixture D, Class I	Ton	27		27
Waterproofing Membrane System	Sq. Yds	286		286
Portland Cement Mortar Facing Course	Lin. Ft	634		634
Name Plates	Each	1		1
Channel Excavation	Cu Yds		113	113
Stone Riprap	Sq. Yds		745	745
Protective Coat	Sq. Yds		33	33

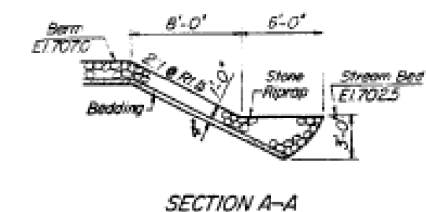
Joe Ganci
52927

B.M. T.B.M. #38 B - 6" Bolt Spike
in power pole with transformer
Sta. 1429+50 Elev. 722.585
Existing Structure Constructed 1979
as Section 54 BR-1.
Str. No. 020-0046

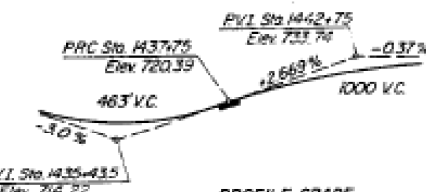


STATION 1437+53.04
BUILT BY
STATE OF ILLINOIS
F.A. RTE. 412 SEC. 54B-2
F.A. PROJ. FD-42 (R1)
LOADING HS20
STRUCTURE NO. 020-0047

NAME PLATE
(See Std. 2113)



SECTION A-A



PROFILE GRADE
(Applies to Top Class I thru limits of Bridge & Med. Edge of Pavl.)

DESIGN STRESSES

PRECAST PRESTRESSED UNITS
f_c = 5,000 p.s.i.
f_{ci} = 4,000 p.s.i.
f_s = 270,000 p.s.i. 1/2" Strands
f_{si} = 189,000 p.s.i. 1/2" Strands

FIELD UNITS SUBSTRUCTURE
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (Reinf. Grade 60)

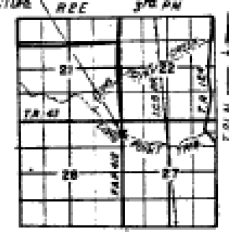
Allowable Future W.S. = 25 p.s.f.
DESIGN LOADING: HS 20-44
DESIGN SPECIF - 1977 A.A.S.H.T.O. & 1978, 1979, 1980 & 1981
Intervals as applicable
LOAD FACTOR DESIGN

WATERWAY INFORMATION

Drainage Area 8.30 Sq. Mi. *Low Grade Elev. 717.49 @ Sta. 1435+57

Flood	Freq. W.	C.F.S.	Opening Sq. Ft.	Nat. Exist.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	1680	425	425	711.9	0.54	0.66	712.44
Base	100	1930	456	456	712.3	0.63	0.78	712.93
Overtopping	-	-	-	-	-	-	-	-
Max. Calc.	500	2504	534	534	713.3	0.78	0.96	714.08

* Prop. S.B. Lanes



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ACCOUNT ONLY
James J. Anderson
Engineer of Bridge Structures



GENERAL PLAN & ELEVATION
F.A.P. 412 (U.S. RTE. 51) OVER
TRIB. OF LONG POINT CREEK
SECTION 54B-2
DEWITT COUNTY
STATION 1437+53.04

FOR INFORMATION ONLY

DESIGNED	EFV
CHECKED	D.V.K.
DRAWN	J.T.
CHECKED	G.E.P.

12-2-82



USER NAME	-	DESIGNED	-	REVISED	-
CMF		TMM			
Checked	-	Drawn	-	Revised	-
JLM		TMM			
Plot Scale	-	Checked	-	Revised	-
1/31/2014					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 020-0047

SHEET NO. 11 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	54B-3, 54B-2	DEWITT	89	65
CONTRACT NO. 70606				
ILLINOIS FED. AID PROJECT				