

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	61	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

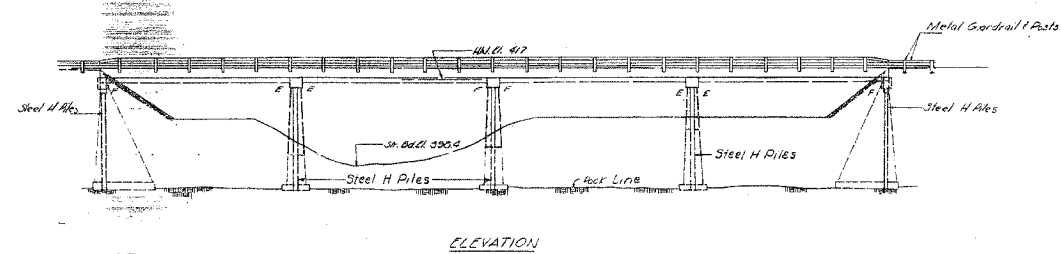
DM: 2' cut in top of bridge 12' x 24' 660479
 Elev. 418.85 (at bottom of cut)
 Existing Structure: Built as 2nd 126, Sec. 106 D, in 1953 by 665.85.
 Concrete deck girder 4 spans with RC open girders and
 RC piers. Existing rails to be removed and structure to
 be widened. Existing wearing surface to be removed and replaced.
 Traffic to be maintained over the structure at all times using stage constr.
 No Salvage.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1842	106BR	ST. CLAIR	10	8	SHEET NO. 10 6 SHEETS
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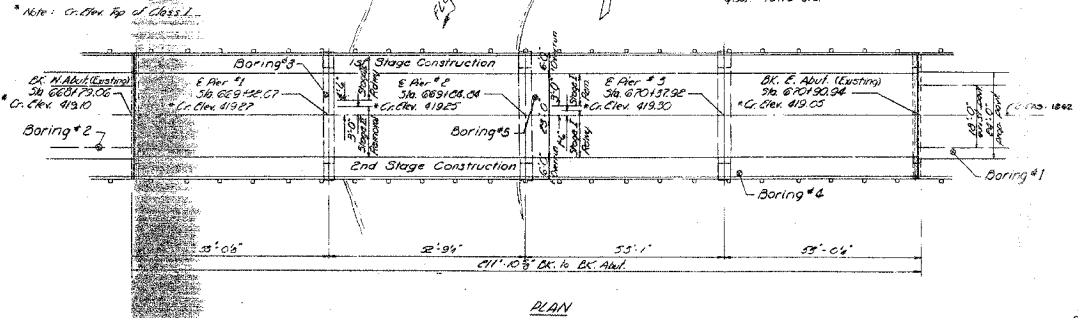
GENERAL NOTES

All reinforcement bars shall be lapped at diameters or less otherwise shown.
 The Basic Lead Sides (transverse) system shall be used for shop and field casting of structural steel.
 It shall be the responsibility of the contractor to verify all dimensions of structural steel in the field prior to construction and ordering of materials.
 An alternate strand pattern using 5/16" x 42" Strand pre-stressing strands (170 ksi) is permitted.
 Excavation shall consist of self-aligning excavation anchors and 1/2" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.
 Limits of waterproofing Membrane System shall be back to back of abutments.
 The contractor shall relocate the existing Name Plate to a new location as directed by the engineer. Cost to be incidental.
 The contractor shall drive 1 Steel test pile in a permanent location at Pier 2 as directed by the Engineer before ordering the remainder of piles.
 The top surface of the beams shall be finished in accordance with AASHTO 50205 at 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.



WATERWAY INFORMATION

Drainage Area	130 Sq Mi
Character	50 yr Flood
Required Opening	1525 Sq Ft
Proposed Opening	1525 Sq Ft
Ordinary Water Elev	401.2
Flow	1070 cfs



TOTAL BILL OF MATERIAL

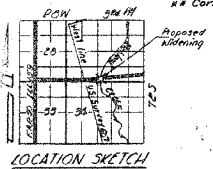
Item	Unit	Suppl	Sub	Total
Concrete Removal	Cu Yds	54	2	56
Bit Coat Surf Coat Class 7	Sq Yds	87	0	87
Waterproofing Membrane Type 2	Sq Yds	88	0	88
Excavation (Type 1)	Cu Yds	150	0	150
Structure Excavation	Cu Yds	81	0	81
Class X Concrete	Cu Yds	69.7	62.0	131.7
RFCC Deck Beams (27)	Sq Yds	1530	0	1530
Structural Steel	Lbs	4870	0	4870
Reinforcement Bars	Lbs	280	3820	4100
Steel Piles (HP 12 X 33)	Lin Ft	0	285	285
Test Piles (Steel HP 12 X 33)	Each	1	0	1
Steel Piling (Type 1)	Lin Ft	425	0	425
Temporary Guardrail	Lin Ft	212	0	212
Bridge Wearing Surface Removal	Sq Yds	23	0	23
Performance Coat (Type 2)	Sq Yds	23	0	23
Portland Cement Mortar (Type 1)	Sq Yds	844	0	844
Temporary Support System	Sq	0	5	5
Rebar (Type 1)	Sq	0	18	18

* See Special Provisions
 ** Consists of 62,760 Lbs Structural Steel.

PRECAST/PRESTRESSED UNITS FIELD UNITS

FC = 5000 psi	A = 1400 Sds
PC = 4000 psi	W = 75 Fading
FS = 240000 psi (Strands)	IS = 20000 psi (Rein)
FS = 175000 psi (Strands)	IS = 20000 psi (Rein)

Using 25% for Allowance N.S.
 Loading HS 20-44 New Construction



DESIGNED R. W. RANK
 CHECKED J. J. JONES
 DRAWN C. E. WILSON
 CHECKED H. J. JONES

AS REVISED 10-25-77
 FA RT 116 OVER RICHLAND CREEK
 FAS RT 1842 SEC 106 BY
 ST CLAIR COUNTY
 STATION 669104.04

FOR INFORMATION ONLY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION EXISTING STRUCTURE PLANS
NAME	DATE	
		FAS ROUTE 1842 SECTION 106BR ST CLAIR COUNTY

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

PLT DATE = 11/12/2006
 FILE NAME = 51840001.dwg
 PLOT SCALE = 1/8" = 1'-0"
 REFERENCE = REF#