

B.M. "d" Chiseled on Southeast corner of West Abut. Bridge Seat Elev. +439.82  
 Existing Structure: No. 000-0153 built as S.B.I. Rte. 3, Sec. 59 B. & C. in 1924 @ Sta. 638+00.00. 200'-0" Steel Truss and part of Substructure to be removed as shown. Detour to be provided 60'-0" South of Existing Structure. No Salvage.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
8956	59BR	21	12

GENERAL NOTES

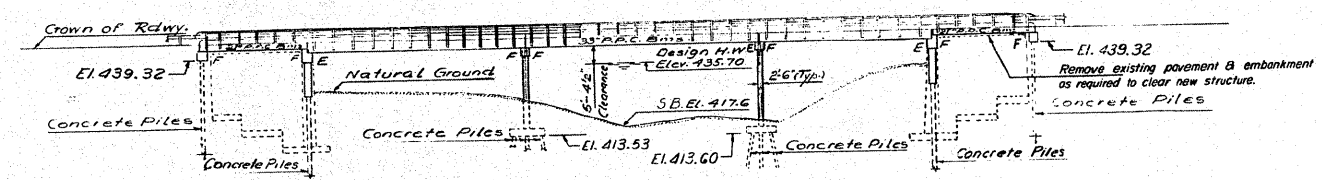
See Proposal for Boring Data.  
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.  
 The top surface of the beams shall be finished in accordance with Article 503.06 of the Standard Specifications 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.  
 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.  
 The Contractor shall drive 2 concrete test piles in permanent locations, one at Pier #2 and one at the East Approach Bent, as directed by the Engineer before ordering the remainder of piles.  
 Cost of required concrete removal on the substructure shall be incidental to "Removal of Existing Superstructure".

STATION 638+00  
 BUILT 197 BY  
 STATE OF ILLINOIS  
 S.B.I. RT. 3 SEC. 59 BR  
 LOADING HS20  
 See Standard 213  
 NAME PLATE

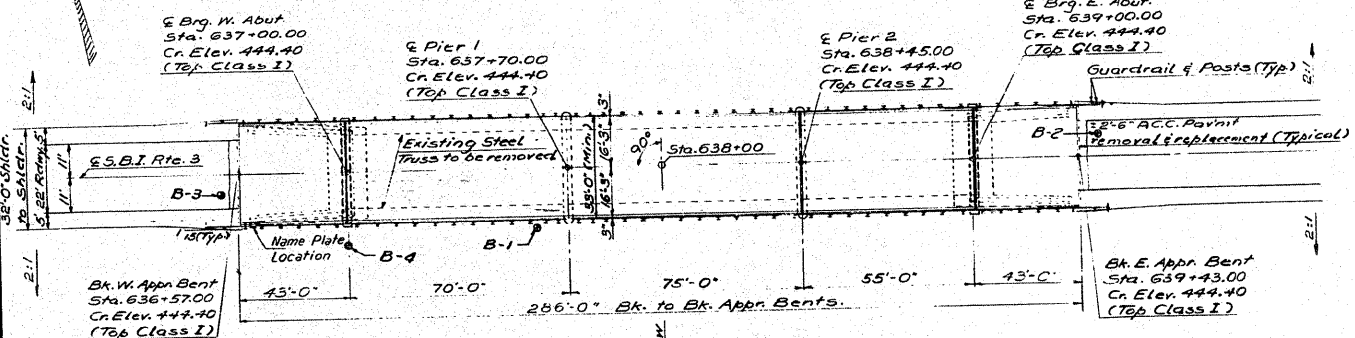
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructure	Each	1		1
Preformed Joint Sealer (2'S)	Lin. Ft.	99		99
Pavement Removal & P.C.C. Replacement, Type 2 (10')	Sq. Yds.	12		12
Structure Excavation	Tons	72	56	128
Bituminous Concrete Surface Course, Class 2	Sq. Yds.	990		990
Waterproofing Membrane System	Each		140	140
Expansion Bolts (3/4" #)	Sq. Yds.	95		95
Protective Coat	Cu. Yds.	21.9	272.3	294.2
Class X Concrete	Sq. Ft.	2746		2746
Precast Prestressed Concrete Deck Beams (21")	Sq. Ft.	6631		6631
Precast Prestressed Concrete Deck Beams (33")	Pounds	1380	14,910	16,290
Reinforcement Bars #	Each		1	1
Name Plates	Each		1	1
Portland Cement Mortar Fairing Course	Lin. Ft.	2840		2840
Concrete Piles	Lin. Ft.		2072	2072
Test Piles Concrete	Each		2	2
Steel Railing Type T	Lin. Ft.	572		572
Structural Steel	Pounds	6680		6680
Cofferdam (Pier #1)	Each		1	1
Cofferdam (Pier #2)	Each		1	1
Cofferdam Excavation	Cu. Yds.		304	304
Pavement Removal	Sq. Yds.	232		232

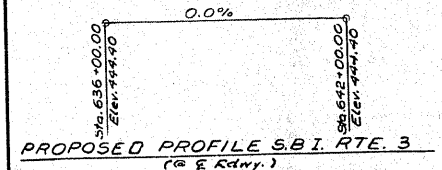
All reinforcement bars shall conform with AASHTO M-31 or M-53, Grade 60.



ELEVATION



PLAN



PROPOSED PROFILE S.B.I. RTE. 3  
 (@ E. Rdwy.)

DESIGNED	Paul Barnett	EXAMINED	John Edmund
CHECKED	John Edmund	PASSED	John Edmund
DRAWN	R. Barnett	APPROVED	John Edmund
CHECKED	John Edmund		

WATERWAY INFORMATION

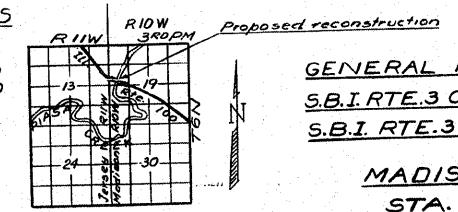
Drainage Area 102.2 Sq. Miles  
 Existing Opening 2345 Sq. Ft.  
 Required Opening 2345 Sq. Ft.  
 Proposed Opening 2345 Sq. Ft.  
 Design H.W.E. = 435.70  
 Q(30) = 17,500 cfs.  
 Created Head = 4.71'  
 H.W.E(100) = 437.4  
 Q(100) = 24,850 cfs  
 Created Head = 2.79'

DESIGN STRESSES  
 PRECAST PRESTRESSED UNITS

f'c = 5000 psi  
 f'ci = 4000 psi  
 f's = 270,000 psi (1/8" Strands)  
 f'si = 189,000 psi (1/8" Strands)

FIELD UNITS

f'c = 1400 psi  
 f's = 200,000 psi (Struct.)  
 f'y = 60,000 psi (Reinf.)  
 Loading HS20-44  
 Allow 25 #/ft for Future W.S.



LOCATION SKETCH

GENERAL PLAN & ELEVATION  
 S.B.I. RTE. 3 OVER PIASA CREEK  
 S.B.I. RTE. 3 SECTION 59 BR

MADISON COUNTY  
 STA. 638+00.00

FOR INFORMATION ONLY

FILE NAME =  
 c:\pw\_work\pwwdot\harbaughrd\dms52107.p

USER NAME = harbaughrd  
 02106a.dgn  
 PLOT SCALE = 50.0000' / IN.  
 PLOT DATE = 1/23/2009

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS  
 SCALE: SHEET NO. 1 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8956	59BR-1	MADISON	75	58
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76B18	