

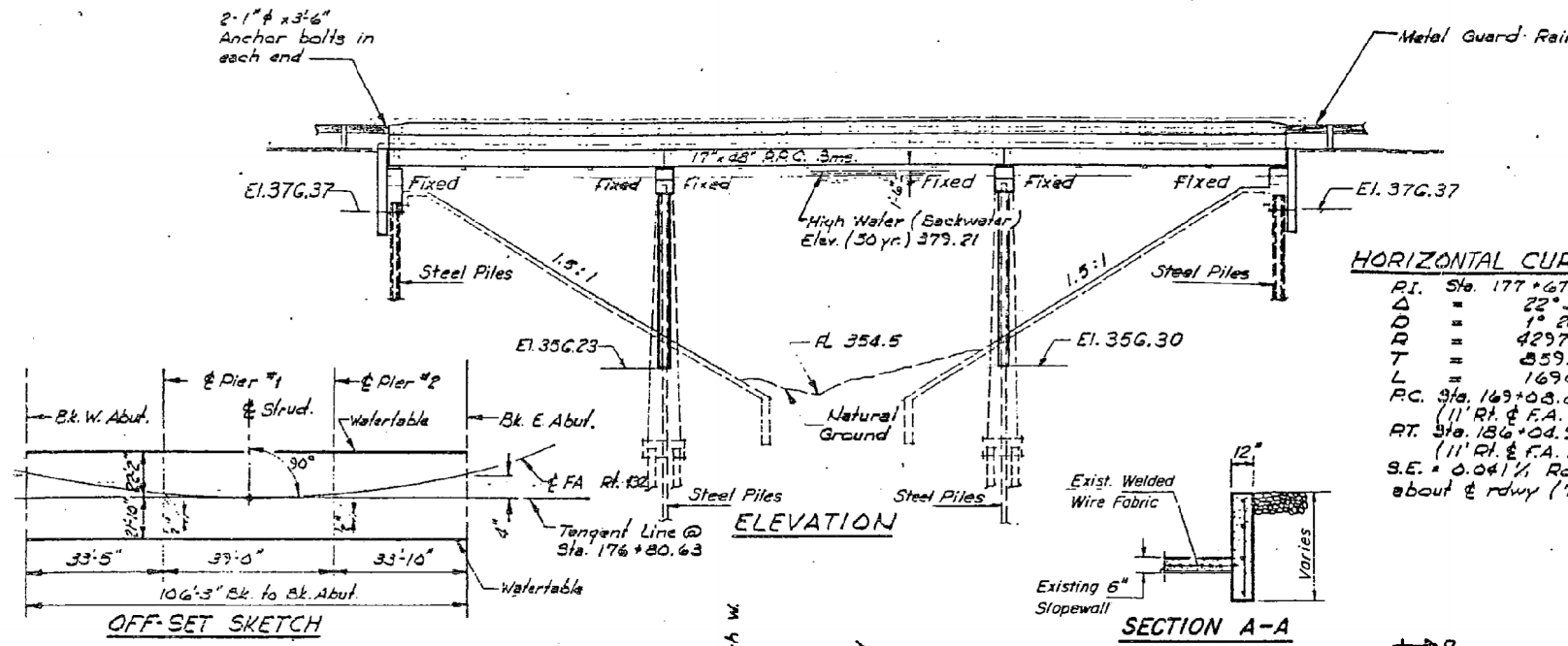
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.	SHEET NO. / SHEETS
48R	WHITE	103	39	9	9 SHEETS

#15 (USC & G9) Chiseled "4" on N.E. wall of Bridge
76+20.63 Elev. 383.42
Structure: Built in 1930, S.B.I. Rte. 1, Sec. 4BY
White County Sta. 259+37 3 Span with 24" WF on R.C.
piers and pile bent abuts. Contractor shall
save all existing superstructure using stage
excavation to maintain one way traffic at all
times. The existing substructure to be rebuilt as
needed to accommodate the new P.C. Deck beam
structure. Existing structure #097-0007
Salvage.

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 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.
The concrete rail section above the mandatory construction joint at the top
of the slab shall be constructed of Class X Concrete, except the aggregates
shall conform to the requirements of Handrail Concrete.
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.
The Contractor shall drive one steel HP 10x42 test pile in a permanent
location at Pier #2 as directed by the Engineer before ordering the remainder
of piles.



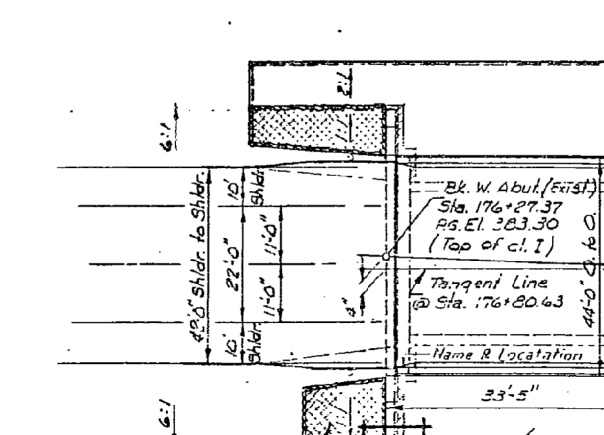
HORIZONTAL CURVE DATA

PI. Sta. 177+67.69
Δ = 22° 37' 33"
D = 1° 20' 00"
R = 4297.18'
T = 359.66'
L = 1696.94'
P.C. Sta. 169+08.03
(11' PI. & F.A. Rte. 132)
P.T. Sta. 186+04.97
(11' PI. & F.A. Rte. 132)
S.E. = 0.041 1/2 Rotating
about rdwy (70mph)

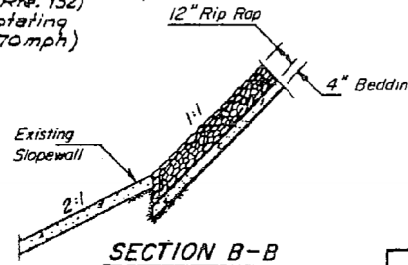
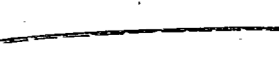
STATION 176+80.63
BUILT 197 BY
STATE OF ILLINOIS
F.A. RT. 132 SEC. 4 BR
FA PROJ. EBF-132(11)
LOADING HS20

NAME PLATE

OFF-SET SKETCH



SECTION A-A

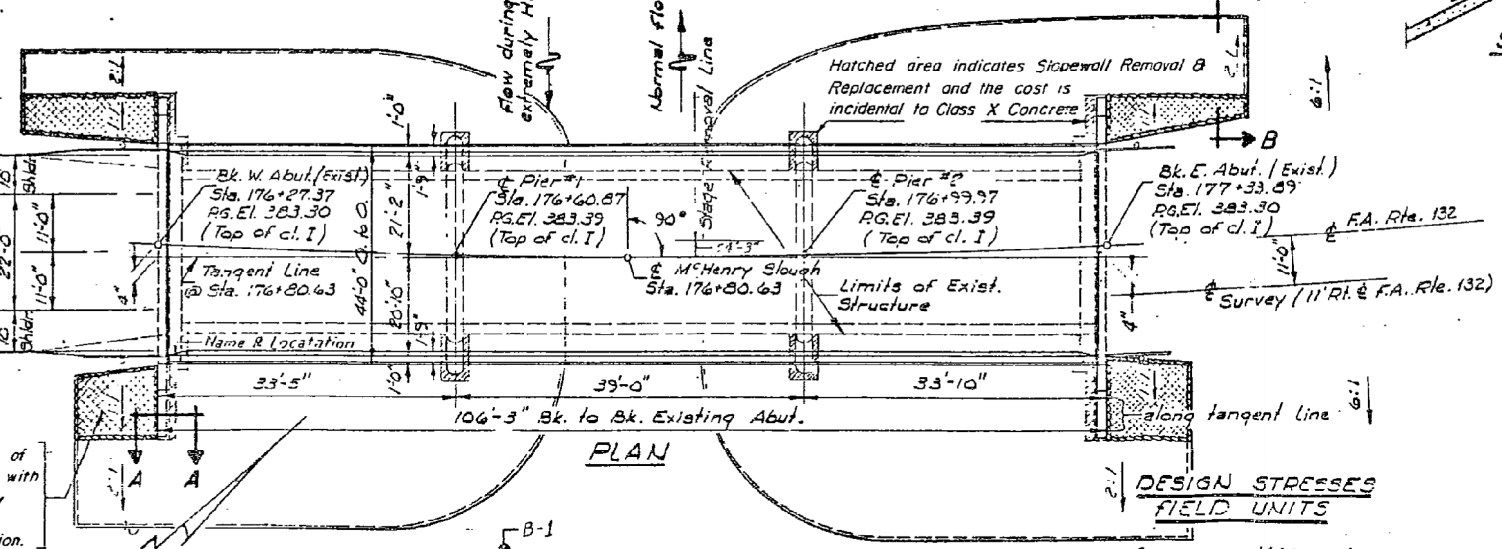


TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL
Removal of Existing Superstructure #1	Each	1		1
Concrete Removal	Cu.Yds.		21	21
Bituminous Concrete Surface Course, Mix D, Class I	Tons	35		35
Waterproofing Membrane System	Sq.Yds.	488		488
Expansion Bolts (3/4" Ø)	Each		240	240
Protective Coat	Sq.Yds.	89		89
Class X Concrete	Cu.Yds.	35.5	118.8	154.3
Precast Prestressed Concrete Deck Beams (17")	Sq.Ft.	4561		4561
Reinforcement Bars	Pounds	3,460	9,110	12,570
Name Plates	Each	1		1
Portland Cement Mortar Fairing Course	Lin.Ft.	1037		1037
Stone Rip Rap	Sq.Yds.		115	115
Steel Piles (HP 10x42)	Lin.Ft.		777	777
Test Piles Steel (HP 10x42)	Each		1	1
Structure Excavation	Cu.Yds.		50	50
Pavement Removal & P.C.C. Replacement, Type 2 (10")	Sq.Yds.	12		12
Temporary Guardrail	Lin.Ft.	106		106

*See Special Provisions

crosshatched portions of
slopewall and replace with
rip rap shaped to fit new
structure. Cost of removal is
incidental to Structure Excavation.



DESIGN STRESSES
FIELD UNITS
f_c = 1400 psi
f_y = 60,000 psi (Rebar)
f_s = 20,000 psi (Structure)

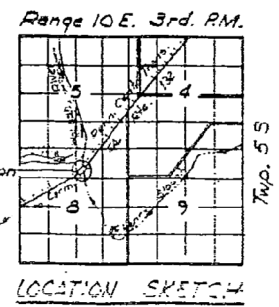
WATERWAY INFORMATION

Drainage Area 2560 Acres.
Existing Opening 1217 Sq. Ft.
Required Opening 1217 Sq. Ft.
Proposed Opening 1217 Sq. Ft.
H.W.E. (100 yr. Backwater) Elev. 380.57
H.W.E. (50 yr. Backwater) Elev. 379.21
Design Discharge (50 yr. Headwater) 625 cfs
Q (100 yr. Headwater) 800 cfs

PRECAST PRESTRESSED UNITS

f_c 5000 psi
f_c 4000 psi
f_s 270,000 psi (3/4" strands)
f_{si} 188,700 psi (3/4" strands)

LOADING HS 20 - 44
Allow 25 #/ft² for future wearing surface.
FOR INFORMATION ONLY



GENERAL PLAN & ELEVATION
F.A. Rte. 132 Over McHENRY SLOUGH
F.A. Rte. 132 SECTION 4 BR
WHITE COUNTY
Sta. 176+80.63

EXAMINED
PASSED
APPROVED

August 23 1976
P. Barnett



USER NAME = has	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 988.11	DRAWN - HAS	REVISED -
PLOT SCALE = 0.1667" / IN.	CHECKED - RDP	REVISED -
PLOT DATE = 10/31/2012 7:22:45 AM	DATE - 04/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 097-0007

SCALE: SHEET NO. 4 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	4B-1	WHITE	70	48
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT AID			CONTRACT NO. 78154	