

B.M. USC # 65 marker "A212 1960" N. end W. Abut.
(E.B.L.) of Kaskaskia River Bridge Lt. Sta. 538+24
Elev. 493.664.

Existing bridge built as F.A. Rte. 12, sec. W-2B,
Sta. 537+46 (1) in 1946, Superstructure - 16 spans on wide flange beams
and one truss span. Substructure - 14 pile bents, 2 R.C. solid Piers and pile bent Abutments
Contractor shall remove exist. E.B.L. structure
after completion of new E.B.L. structure.

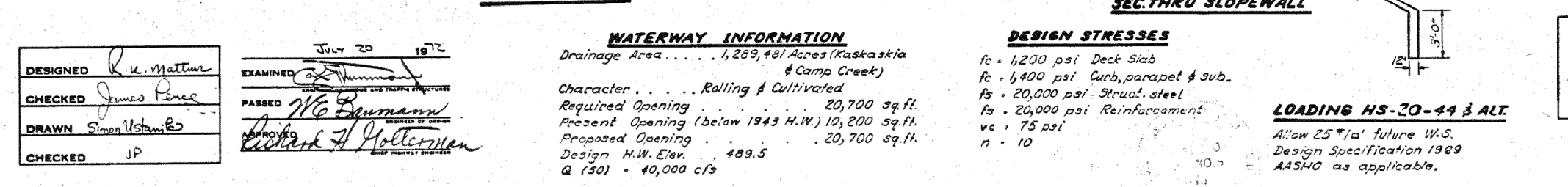
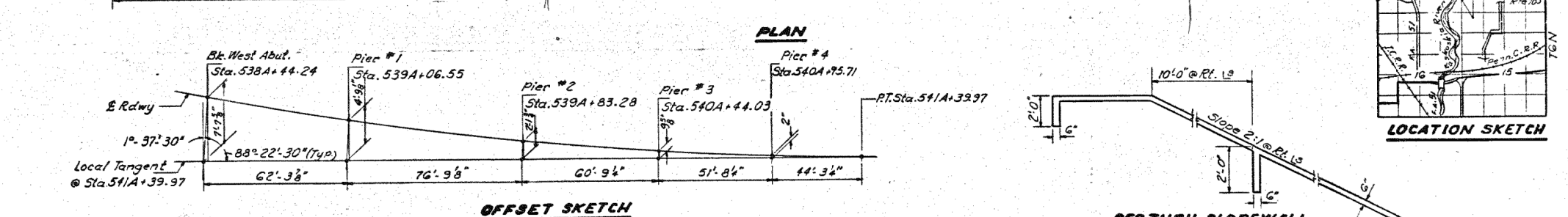
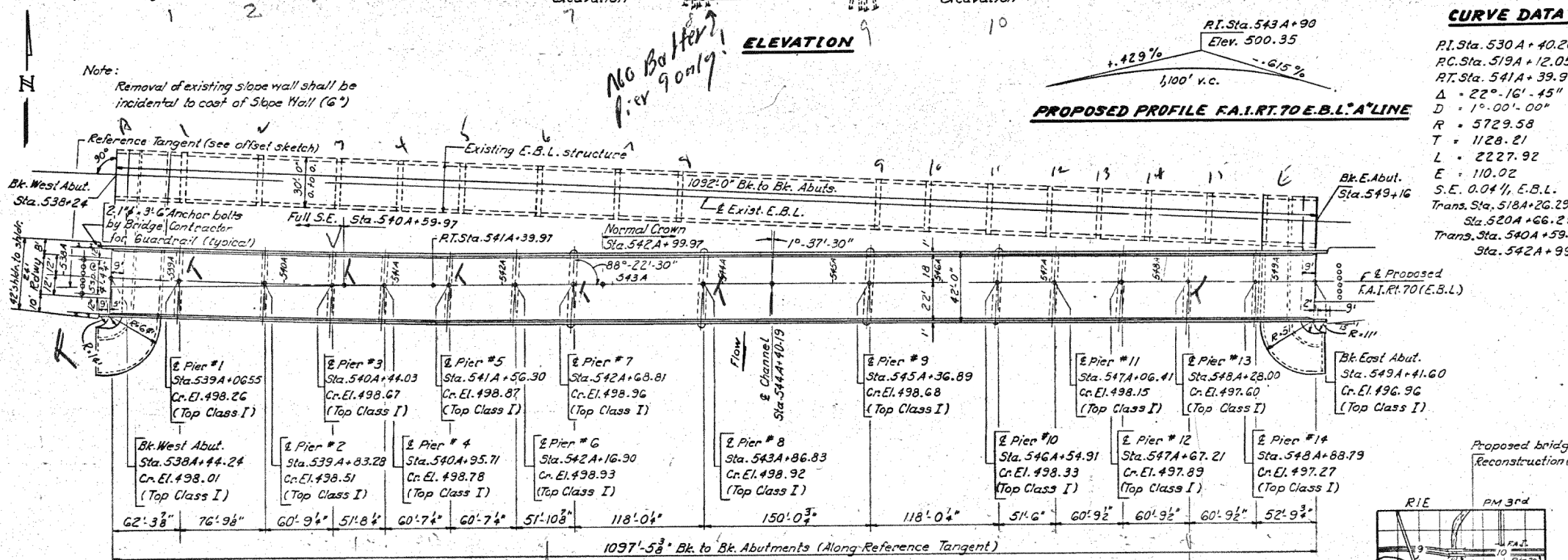
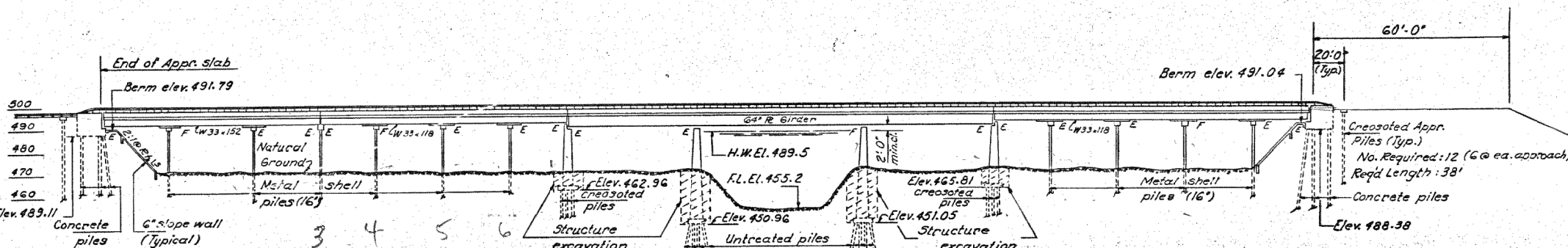
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

26-38-1(3)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I.R.T. 70	26-38-1	FAYETTE	13	29 SHEETS

GENERAL NOTES

- All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
- Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " ϕ ; open holes $\frac{1}{16}$ " ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 1243230 Lbs.
- The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.
- 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 diaphragms or cross frames over supports.
- Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.
- Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
- Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 513.09(c) of the Standard Specifications
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- 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 Cool Tar Interlayer Protective Coat is applied.
- The Contractor shall remove top berm and slopewall from under and adjacent to the existing E.B.L. structure and replace with new slopewall as directed by the Engineer.
- The Contractor shall drive 1 concrete test pile at West Abut., 1 metal shell test pile at each of Piers 1, 3, 5 and 13 and 1 Timber test pile at each of piers 7 and 8 in permanent locations as directed by the Engineer before ordering the remainder of piles.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\pm \frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ inch adjusting shims of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.



CURVE DATA

P.I. Sta. 530A + 40.26
P.C. Sta. 519A + 12.05
P.T. Sta. 541A + 39.97
 $\Delta = 22^\circ 16' - 45"$
 $D = 1^\circ 00' - 00"$
 $R = 5729.58$
 $T = 1128.21$
 $L = 2227.92$
 $E = 110.02$
S.E. 0.04', E.B.L.
Trans. Sta. 518A + 26.29 to Sta. 520A + 66.29
Trans. Sta. 540A + 59.97 to Sta. 542A + 99.97

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class X Concrete Encasement	Cu. Yds.		164.8	164.8
Protective Coat	Sq. Yds.	842		842
Metal Shell Piles (1/6")	Lin. Ft.		6001	6001
Test Piles (Metal Shell)	Each		4	4
Bituminous One Surface Course Class I	Tons	379		379
Structure Excavation	Cu. Yds.		1326	1326
Class X Concrete	Cu. Yds.	1411.0	205.1	1616.1
Class A Concrete	Cu. Yds.		816.7	816.7
Structural Steel	Lumpsum	0.82		0.82
Stud Shear Connectors	Each	9036		9036
Aluminum Railing	Lin. Ft.	2231		2231
Reinforcement Bars	Lbs.	331050	63570	394620
Untreated Piles up to 30 Feet	Lin. Ft.		3180	3180
Creosoted Piles 20.1 to 38 Ft.	Lin. Ft.		2961	2961
Concrete Piles	Lin. Ft.		1371	1371
Test Piles (Timber)	Each		2	2
Test Piles (Concrete)	Each		1	1
Name Plates	Each	1		1
Slope Wall 6 inch	Sq. Yds.		2135	2135
Cool Tar Interlayer Protective Coat	Sq. Yds.	4680		4680
Preformed Joint Sealer	Lin. Ft.	84		84
Neoprene Expansion Joint 2 1/2"	Lin. Ft.	42		42
Neoprene Expansion Joint 4"	Lin. Ft.	42		42
Neoprene Expansion Joint 6 1/2"	Lin. Ft.	42		42
Removal of Existing Structures	Each		1	1

DESIGNED: R. U. Mattner
CHECKED: James Pence
DRAWN: Simon Ustambek
CHECKED: JP

EXAMINED: [Signature]
PASSED: W. G. Baumann
APPROVED: Richard J. Holtermann

DATE: July 20, 1972

WATERWAY INFORMATION

Drainage Area 1,289,481 Acres (Kaskaskia & Camp Creek)

Character Rolling & Cultivated

Required Opening 20,700 sq. ft.

Present Opening (below 1943 H.W.) 10,200 sq. ft.

Proposed Opening 20,700 sq. ft.

Design H.W. Elev. 489.5

Q (50) = 40,000 cfs

DESIGN STRESSES

$f_c = 1,200$ psi Deck Slab
 $f_c = 1,400$ psi Curb, parapet & sub.
 $f_s = 20,000$ psi Struct. steel
 $f_s = 20,000$ psi Reinforcement
 $v_c = 75$ psi
 $n = 10$

LOADING HS-20-44 & ALT

Allow 25% future W.S.
Design Specification 1989
AASHTO as applicable.

STATION 543A + 92.91
BUILT 19 BY
STATE OF ILLINOIS
F.A.I.R.T. 70 SEC. 26-38-1(3) EBL
F.A. PROJ. I-IG-70-2(7A)
LOADING HS 20 & ALT.

GENERAL PLAN & ELEVATION

PROJ. I-IG-70-2(7A) 163
F.A.I.R.T. 70 (E.B.L.) OVER KASKASKIA RIVER
F.A.I.R.T. 70 SECTION 26-38-1(3) EBL
FAYETTE COUNTY
STA. 543A + 92.91