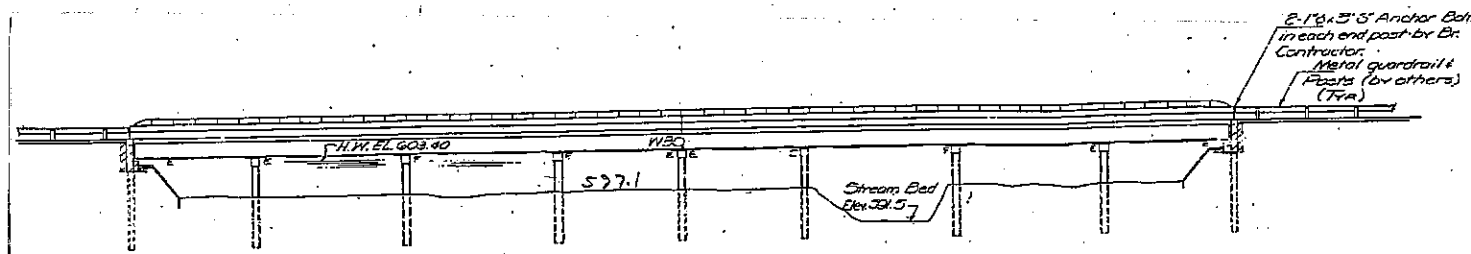


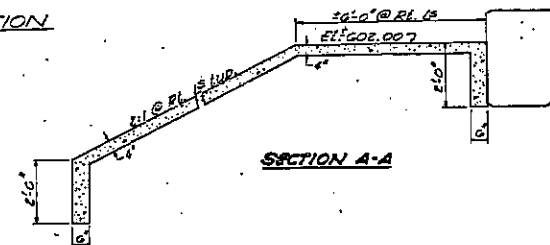
B.M. is cut on S.W. Wingwall Sugar Creek Bridge, Sta. 152 Elev. 606.82
Existing Structure: Built as SA 119 Sec. 118 BR Sta. 166+03
in 1937. Superstructure: RC Deck with 30" x 108" Beams
Substructure: 15 RC Piers on R Conc. piles and Pier Bents
on R Conc. piles.
Superstructure to be removed by bridge Contractor - no salvages.
Temporary structure to furnish 600' waterway opening.
HS20 loading - by bridge Contractor.

STATE OF ILLINOIS

NO.	DATE	BY	REVISION
1	11/18/88	LOGAN	65 23
SHEET NO. 1			
15 SHEETS			

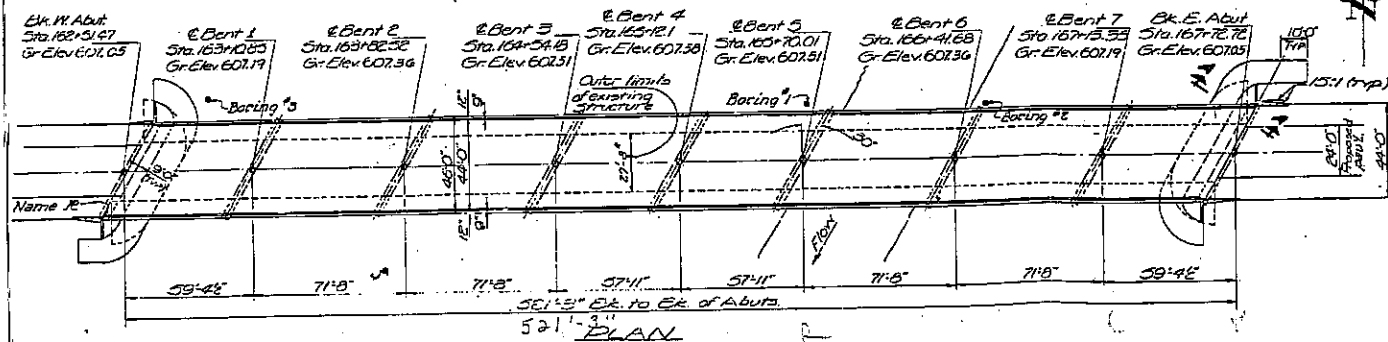


ELEVATION



SECTION A-A

STATION 166+03
RE-BUILT IN 1988
BY
STATE OF ILLINOIS
FA. RT. 119 SEC. 118 BR
LOADING HS20
NAME PLATE
See S.D. 2118-1



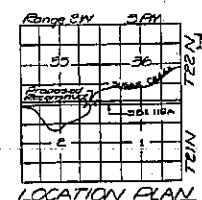
PLAN

DESIGN STRESSES

$f_c = 1200$ psi (Super) Deck Slab
 $f_c = 1400$ psi Sub. Curd. Floor
 $f_c = 20000$ psi (Main)
 $f_c = 20000$ psi (Structural)
 $v_c = 75$ psi (17 gps)
 $n = 10$
Design Specifications 1969 AASHTO
(as applicable)

WATERWAY INFORMATION

Drainage Area: 16700 Acres
Character: Rolling wooded cultivated
Present Opening: 2650 Sq. Ft.
Road Opening: 2650 Sq. Ft.
Proposed Opening: 2650 Sq. Ft.
Q(50) 7400 cfs



LOCATION PLAN

DESIGNED: Charles Johnson
CHECKED: W. J. Johnson
DRAWN: FERRANDO
CHECKED: Robert Johnson
APPROVED: August 5, 1971
FORWARDED: [Signature]
DATE: [Signature]

LOADING HS20-44

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " open holes $\frac{1}{8}$ " unless otherwise noted.
Calculated weight of structural steel = 581,900 lbs.
The basic lead silico chromate paint system shall be used for shop & 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 over supports.
Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58 lbs. per 100 sq. ft.
Layout of slope wall may be varied in the field to suit ground conditions as directed by the Engineer.
The Contractor shall drive 2 concrete test piles. One each in permanent locations at pier bent 2 and East abutment, as directed by the Engineer before ordering the remainder of piles.

It shall be the responsibility of the Contractor to verify all dimensions & conditions existing in the field prior to construction & ordering of materials.

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.
Expansion bolts shall consist of self-drilling expansion anchors @ $\frac{3}{4}$ " x 12" hooked bolts.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUB.	SUPER.	TOTAL
Removal of Existing Superstructure	Each			1
Concrete Removal	Cu. Yds.			12.6
Expansion Bolts (34)	Each	126		126
Structure Elevation	Cu. Yds.	135		135
Protective Coat	Sq. Yds.		2,850	2,850
Class X Concrete	Cu. Yds.	68.6	670.6	739.0
Structural Steel	Long. Ton.		1	1
Slud. Shear Connectors	Each		2,728	2,728
Aluminum Rolling	Lbs.		1,034	1,034
Reinforcement Bars	Lbs.	6,780	173,770	180,550
Concrete Piles	Lbs.		927	927
Test Piles (Concrete)	Each		2	2
Name Plate	Each			1
Slope Wall (4')	Sq. Yds.	374		374
Temporary Bridge Complete	Each			1
Neoprene Expansion Joint (2')	Lbs.		104	104
Neoprene Expansion Joint (4')	Lbs.		33	33

GENERAL PLAN and ELEVATION
FA. 119 OVER SUGAR CREEK
FA. RT. 119 SEC. 118 BR
LOGAN COUNTY
STA. 166+03



SN 054-0027
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
(NOT TO SCALE)