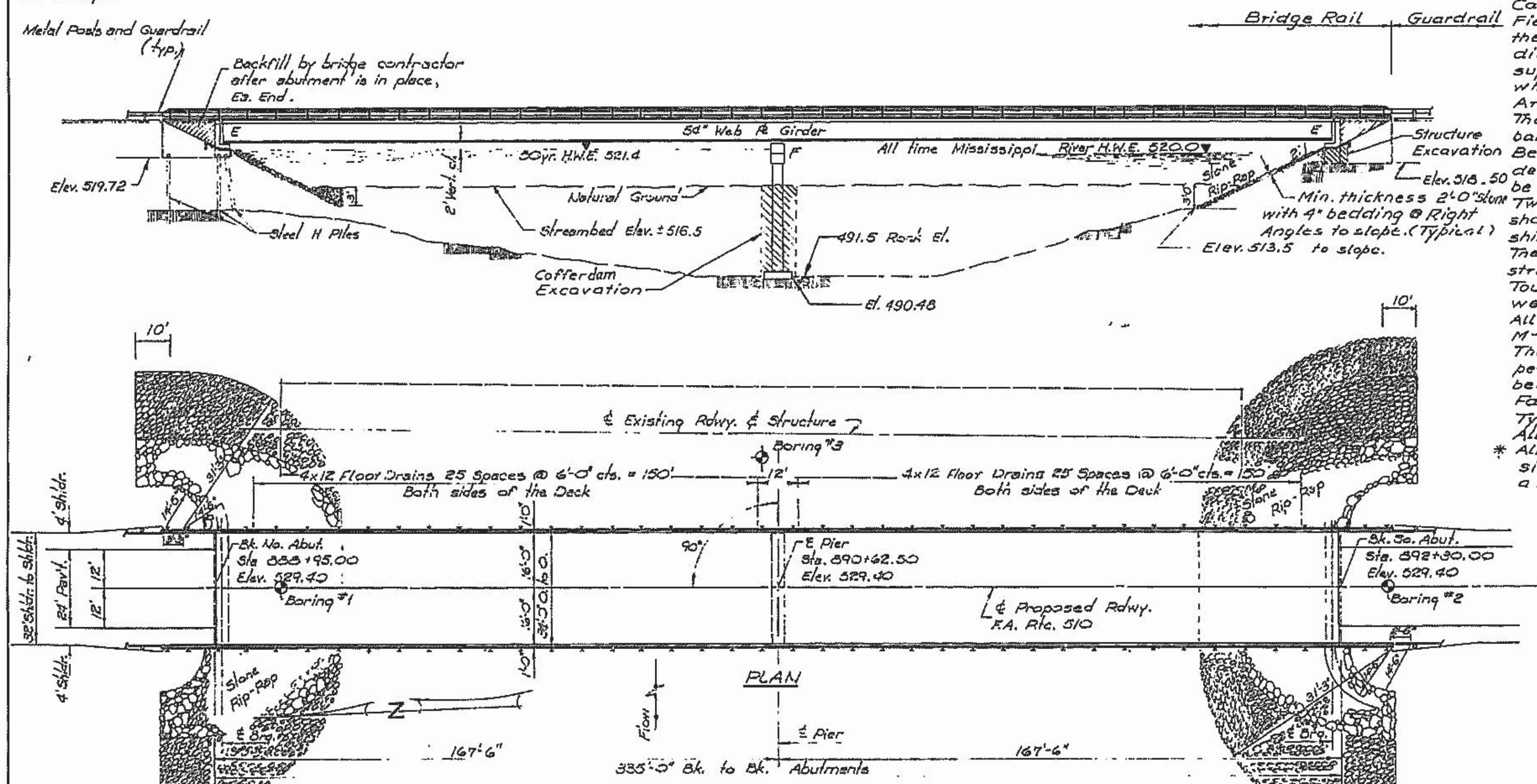
B.M.: "X" cut on N.W. corner of W. wing - N. Abutment - Right
Sta. 389+15 Elev. 528.51
Existing Structure: #034-0027 Built as S.B.I. Rte. 96.
Sec. 120-B1 at Sta. 890+57.00 in 1936. Width 25'-0"; Length 286'-0"
The existing two span steel truss superstructure on P.C.C. abutments and pier shall be removed after the new two span plate girder structure is built. The existing structure shall be used for traffic during construction of the new bridge.
No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. F.A.510	*	HANCOCK	40	23

SHEET NO. 1
11 SHEETS

*120 (W-3, RS-3), 120R & 120 BR-3



GENERAL NOTES

See Proposal for Boring Data.
Fasteners shall be high strength bolts. Bolts 3/4"ø, open holes 13/16"ø, unless otherwise noted.
Calculated weight of Structural Steel - 449440 Lbs. M-222
Field welding of construction accessories will not be permitted to the bottom flange of 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 cross frames over supports.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abuts.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing.
Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These Components are the tension flanges, webs and all splice plate material of the steel girders.
All reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.
The Contractor shall drive one Steel HP8x36 test pile in permanent location at the N. Abut., as directed by the Engineer before ordering the remainder of piles.
Fasteners shall conform to requrements of AASHTO M164 (A525) Type 3 High strength bolts.
All Structural Steel shall be AASHTO M 222 unpainted Steel.
* All railings and accessories shall be painted with basic lead silicon chromate paint system except that the final field coat shall be a maroon finish coat. See Special Provisions.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Structures	Each			1
Structure Excavation	Cu.Yds.		82	82
Protective Coat	Sq.Yds.	1307		1307
Class "X" Concrete	Cu.Yds.	303.3	159.0	462.3
Structural Steel	L.Sum	L.S.		L.S.
Stud Shear Connectors	Each	2610		2610
Reinforcement Bars	Lbs.	29830	20220	50050
Reinf. Bars (Epoxy Ctd.)	Lbs.	45380		45380
Steel Piles (HP8x36)	Lin.Ft.		204	204
Test Pile Steel (HP8x36)	Each		1	1
Name Plates	Each			1
Stone Rip Rap	Sq.Yd.			500
Neoprene Exp. Jt. 2½"	Lin.Ft.	67		67
Cofferdams	Ea		1	1
Cofferdam excavation	Cu.Yd.		292	292
* Steel Railing (Type T)	Lin.Ft.	722		722
Rock Excavation for Structs	Cu.Yds		11	11
Floor Drains	Each	104		104

STATION 890+62.50
BUILT 198 BY
STATE OF ILLINOIS
F.A.RTE. 510 SEC 120BR-3
LOADING HS20
*STR. NO.

PROJECT GR-510(4)

NAME PLATE
(See Std. 2113)

* Structure number shall be supplied by District.

WATERWAY INFORMATION

Drainage Area	=	7.2 sq. mile.
Existing Opening	=	1200 sq. ft.
Required Opening	=	800 sq. ft.
Proposed Opening	=	1200 sq. ft.
Design Discharge	=	3000 c.f.s.
Created Head for Design Flood	=	0.0'
100 yr. Discharge	=	3450 c.f.s.
100 yr. Flood	=	0.0'
H.W.E. (50 yr.)	=	521.4 Elev.
H.W.E. (100 yr.)	=	521.9 Elev.

All time Mississippi River high water 520.0

DESIGN STRESSES

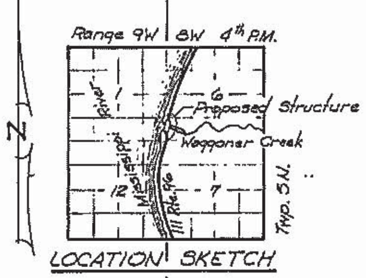
$f'c$ = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Structural)
Epoxy coated Reinforcement Bars shall be used in top layer of slab.

LOADING HS 20-44

Allow 25#/sq.ft. future wearing surface.
Design Specification: 1977 AASHTO; and '78 AASHTO Interim specifications

DESIGNED	[signature]
CHECKED	[signature]
DRAWN	[signature]
CHECKED	[signature]

EXAMINED July 13, 1979
PASSED
APPROVED



GENERAL PLAN & ELEVATION
F.A. Rte. 510 Over WAGGONER CREEK
F.A. Rte. 510 SECTION 120 BR-3
HANCOCK COUNTY
Sta. 890+62.50

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS SN 034-0058 (FOR INFORMATION ONLY)
O:\OPERATIONS\Bridgeplans_CAD\72H37 - beam and paint FY15 CM\plansheet.dgn		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		
Default	PLOT DATE = Aug-20-2014 01:43:51PM	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 BDGE PAINTING 2015-1	VARIOUS	58	42
		CONTRACT NO. 72H37		
	ILLINOIS FED. AID PROJECT			