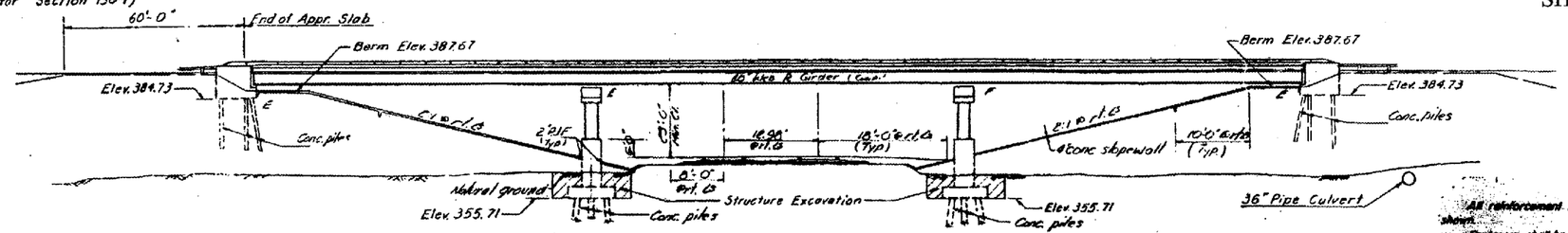
B.M.: R.R. Spike in F.P. 95' Rt. Sta. 2+93.90 Elev. 390.36
Existing Structure: Built as 301.130, Sec. 130 IBC, in 1936
@ Sta. 2+92+57.5 Rdwy: 36', Length: 215', 5 span
8'-0in. Superstructure with R.C. Open Rail. & Piers to be removed by Contractor after new Structure is built.
No Salvage. (To be removed by Roadway Contractor for Section 130-1)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

VARIOUS ROUTES
VARIOUS COUNTIES
D-9 BRIDGE PAINTING FY 06-1
CONTRACT 98941
SHEET 7 OF 48



ELEVATION

STATION 247+02.81
BUILT 197 BY
STATE OF ILLINOIS
F.A. RT. 100 SEC 130-IVB
F.A. PROJ. BR-F-198(23)
LOADING HS20

NAME PLATE
See Std. 2113

PROFILE MO. PAC. R.R.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course Class I	Tons	128		128
Protective Coat	Sq. Yds.	250		250
Class X Concrete	Cu. Yds.	480.1	667.0	1147.1
Structural Steel	L. S.			L. S.
Stud Shear Connectors	Each	3420		3420
Aluminum Railing	Lin. Ft.	719		719
Reinforcement Bars	Lbs.	138630	75830	214460
Concrete Piles	Lin. Ft.		8870	8870
Test Piles (Concrete)	Each		4	4
Name Plates	Each			1
Slope Wall 4"	Sq. Yds.			1735
Waterproofing Membrane System	Sq. Yds.	1575		1575
Neoprene Expansion Joint (2")	Lin. Ft.	102		102
Neoprene Expansion Joint (4")	Lin. Ft.	102		102
Structure Excavation	Cu. Yds.			632
(To be done under paving contract)				

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Fasteners shall be high strength bolts. Bolts ¾"ø, open holes 15/16" ø, unless otherwise noted.

Calculated weight of Structural Steel = 471,700 Lbs.

The Basic Lead Silica Chromate paint system shall be used for shop and final 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 to other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting cross frames over supports.

Slope wall shall be reinforced with welded wire fabric 6"x 6" mesh, weighing 58# per 100 sq. ft.

The Contractor shall drive 4 Concrete test piles in a permanent location at each Substructure Unit as directed by the Engineer before ordering the remainder of piles.

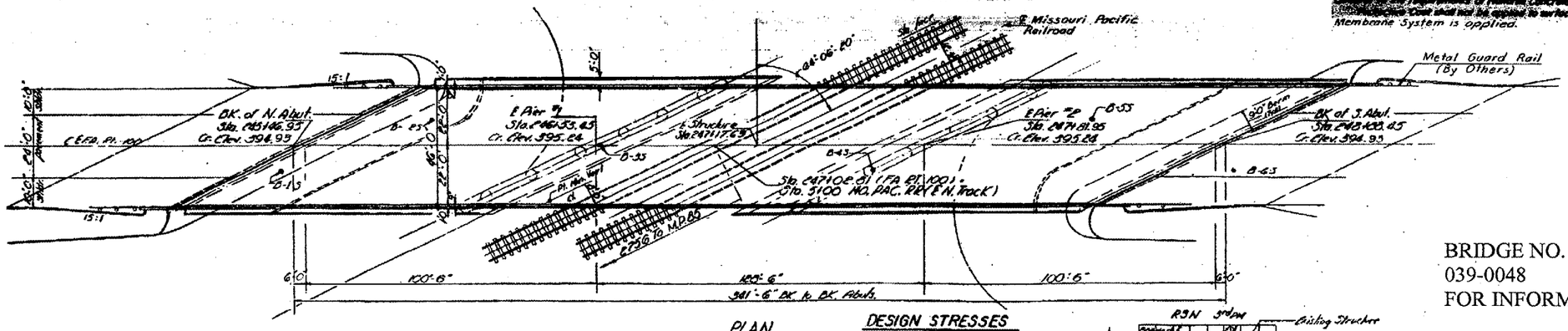
Concrete piles at S. Abut. shall be driven in holes precored through the embankment in accordance with Article 513.09(c) of the Standard Specifications.

Concrete piles at N. Abut. shall be driven in holes precored through the (Rock) and in accordance with the requirements of Article 513.09(c) of the Standard Specifications.

All "Structural" reinforcement bars shall be the minimum embedment [illegible] after the construction of the abutments.

All [illegible] shall be roughened construction joint at the top of [illegible] prior to placement of Class X Concrete, except the aggregate shall [illegible] the reinforcement of Concrete.

Cure shall not be applied to surfaces to which Waterproofing Membrane System is applied.



PLAN

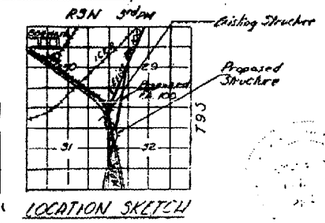
DESIGN STRESSES

fc = 1200 psi. (Deck Slab)
'c = 1400 psi. (Curb, Parapet, Sub)
fs = 20000 psi. (Reinf.)
fs = 20000 psi. (Struct.)
Vc = 75 psi. (Hgs.)
n = 10

Allow 25 #/sq.ft. for Future N.S.

LOADING HS 20-44

Design Specifications: AASHO 1969, as applicable.

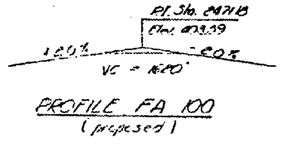


LOCATION SKETCH

BRIDGE NO. 1
039-0048
FOR INFORMATION ONLY

PROJECT BR-F-194(23)
GENERAL PLAN & ELEVATION
F.A. RTE. 100 OVER MISSOURI PACIFIC R.R.
F.A. RTE. 100 SEC. 130-IVB
JACKSON COUNTY
STATION 247+02.81 F.A. RTE. 100
STATION 3+00.00 MO. PAC. R.R. (E.N. TRACK)

January 11 1972
EXAMINED
PASSED
APPROVED
ENGINEER OF BRIDGES AND STRUCTURES
ENGINEER OF DESIGN
DIRECTOR OF HIGHWAYS



PROFILE FA 100
(Proposed)