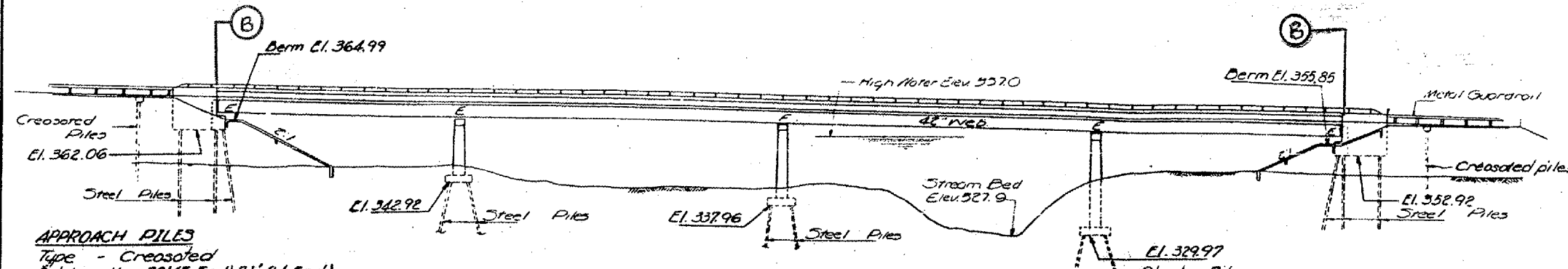


B.M. U.S.G.S. Brass Cap. Sht. Disc. Stamped 3476 SE. Wing Wall
Existing Bridge Elev. 356.13
Existing Structure: Built as SBI 146 Dec 10/42 Sta 333+04
in 1931. Superstr. is Fern Truss & RC Deck Girder. Open
Substr. is RC Open. Contractor shall remove existing
structure after completion of new structure.
Existing Structure is 344'-0" by 24'-4" o.o.
No Salvage

Beam End Location

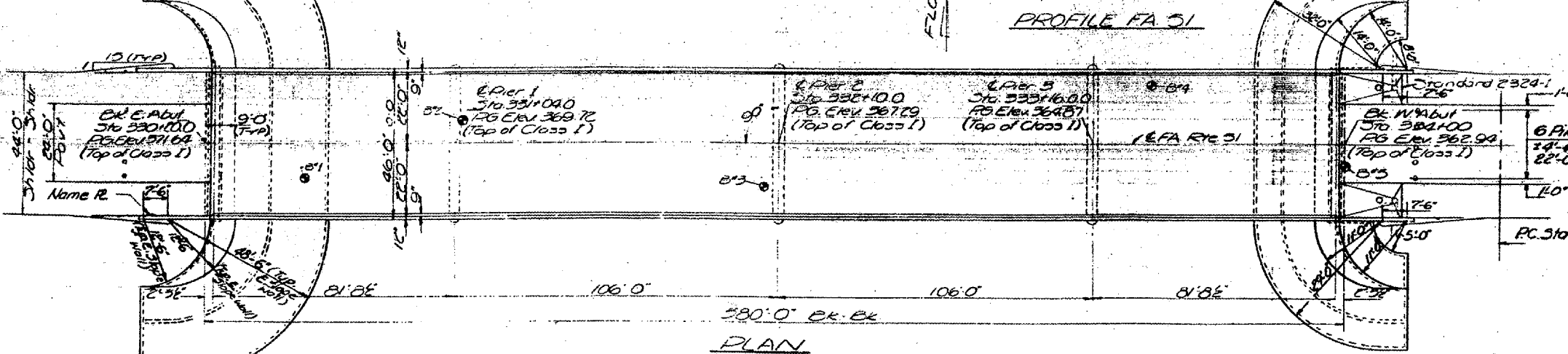
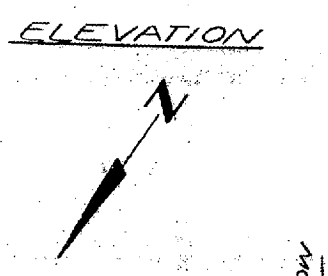
GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
Fasteners shall be high strength bolts. Bolts 7/8"; open holes 1 1/8" unless otherwise noted.
Calculated weight of Structural Steel = 474,910#
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 over supports.
Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
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 surface to which Waterproofing Membrane System is applied.
The Contractor shall drive two steel test piles in permanent locations one at West Abut. and pier 2, as directed by the Engineer before ordering the remainder of piles.
Bearing seal surfaces shall be constructed or adjusted to the designed elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 5" adjusting shims of the dimensions of the bolt, brg. R, shall be provided for ea. brg. in addition to all other R's or shims. **TOTAL BILL OF MATERIAL**

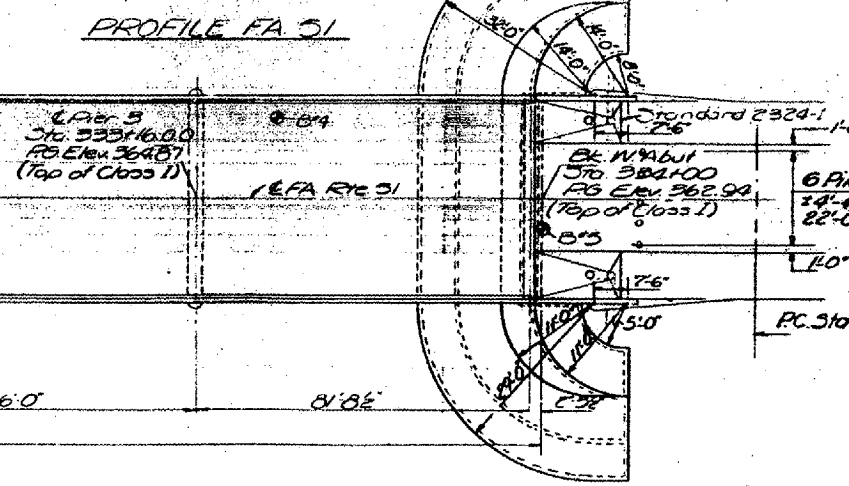


APPROACH PILES
Type - Creosoted
Est. Length - 32' (E. End) 21' (W. End)
Capacity - 24 Ton
No. Req'd. 6 Ea. Appr.

CURVE DATA, FA 51
Δ: 38° 50' 34"
D: 3° 30'
R: 1637.02'
T: 577.06
L: 1109.93
E: 98.80
SE: 0.0725 1/4
SE Transition (100')
Sta. 333+01.0 to Sta. 334+96.0
Sta. 344+76.0 to Sta. 346+81.0



PLAN



PROFILE FA 51

STATION 332+10.00
BUILT 197 BY
STATE OF ILLINOIS
FA. RT. 51 SEC. 10&B-2
PROJ. BR-F-161(15)
LOADING H520

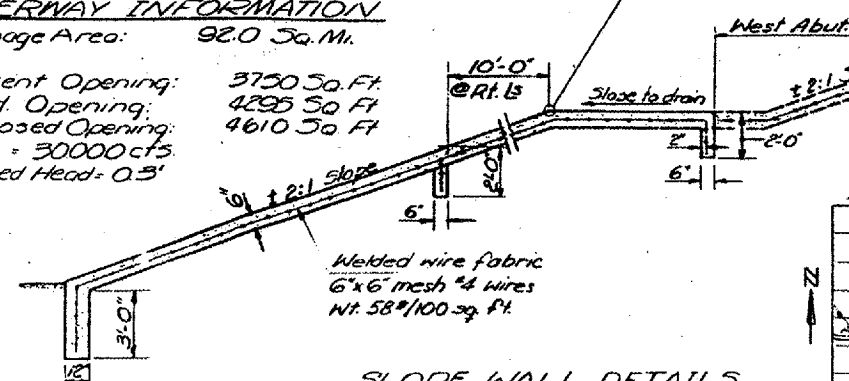
DESIGN STRESSES
fc: 1800 psi Deck Slab
fc: 1400 psi. Curb, Parapet & Sub
fs: 20000 psi. Rein. & Struct.
vc: 75 psi. Fkgs
n: 10
Allow for 25' 15a Ft for Fut IVS
Design Specifications 1969 AASHTO
(as applicable)
LOADING H520-44

WATERWAY INFORMATION
Drainage Area: 92.0 Sq. Mi.
Present Opening: 3750 Sq. Ft.
Requ'd. Opening: 4295 Sq. Ft.
Proposed Opening: 4610 Sq. Ft.
Q50 = 30000 cfs
Created Head: 0.3'

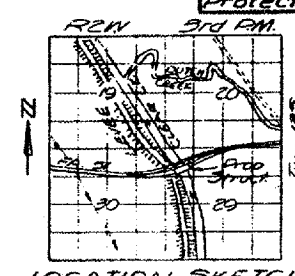
Item	Unit	Super	Sub.	Total
Structure Excavation	Cu. Yd.		360	360
Bituminous Concrete				
Surface Course, Class I	Ton	150		150
Class X Concrete	Cu. Yd.	524.0	107.0	631.0
Class A Concrete	Cu. Yd.		343.9	343.9
Structural Steel	Lump Sum	1		1
Stud Shear Connectors	Each	3870		3870
Aluminum Railing	Lin. Ft.	804		804
Reinforcement Bars	Pound	157040	29910	166950
Steel Piles (HP8x36)	Lin. Ft.		4638	4638
Test Piles Steel (HP8x36)	Each		2	2
Creosoted Piles (201438)	Lin. Ft.		318	318
Slope Wall (6')	Sq. Yd.		1375	1375
Waterproofing Membrane System	Sq. Yd.	1774		1774
Neoprene Expansion Joint (25')	Lin. Ft.	91		91
Removal of Exist. Structure	Cu.			1
Name Plates	Ea.	1		1
Protective Coat	Sq. Yd.	302		302

NAME PLATE
See Std. 2113

DESIGNED	J. J. Edwards	EXAMINED	March 9 1973
CHECKED	Stanley S. Lee	PASSED	W. E. Bauman
DRAWN	A. Borfozo	APPROVED	Richard H. Hollerman
CHECKED	Stanley S. Lee		



SLOPE WALL DETAILS



LOCATION SKETCH

GENERAL PLAN & ELEVATION

BRIDGE NO. 5
091-0060
FOR INFORMATION ONLY