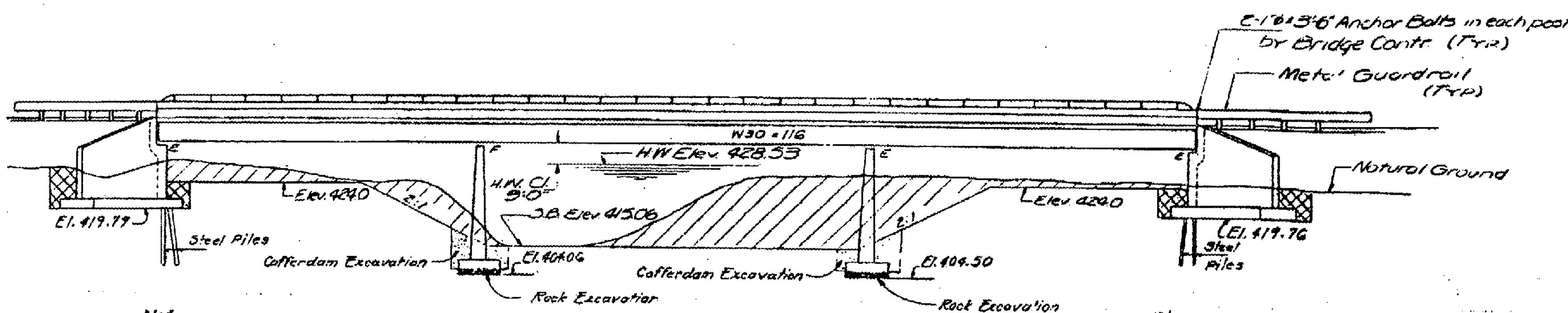
B.M. R.R. Spike in R.R. 51' rt. Sta. 276+96 Elev. 425.29
Existing Structure: Built as FA 128, Sec. 8BCD Sta. 272+35.38 in 1936. Superstr. is R.C. Slab on Steel Bms. Substr. is Pile Bent. Contractor shall remove existing structure after completion of new structure.

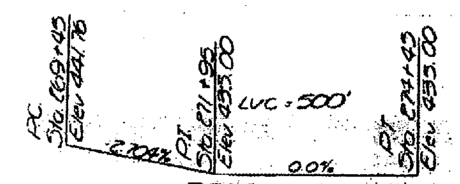
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VARIOUS ROUTES
VARIOUS COUNTIES
D-9 BRIDGE PAINTING FY 06-1
CONTRACT 98941
SHEET 38 OF 48

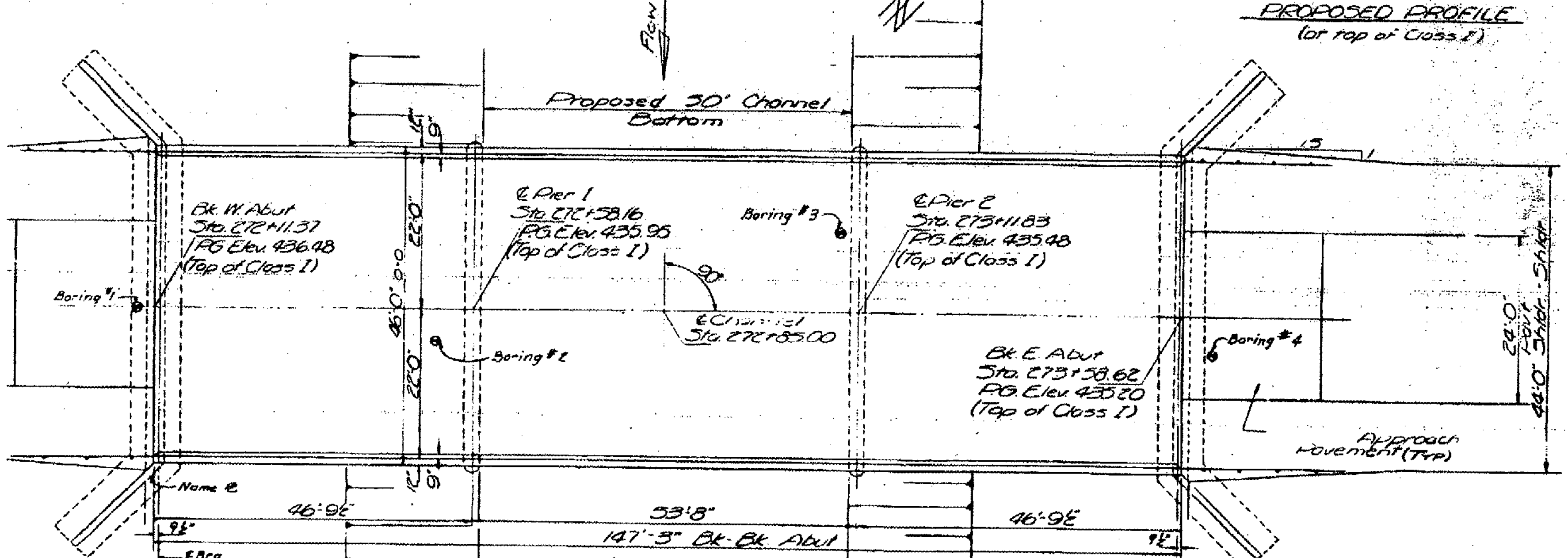


Note:
Hatched areas indicate Channel Excavation.
Cross hatched areas indicate Structure Excavation.

ELEVATION



PROPOSED PROFILE
(or top of Class I)



PLAN

STATION 272+85.00
BUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 128 SEC. 8-1-B
PROJ. RF-237(33)
LOADING HS 20

NAME PLATE
(See Std. 2113)

DESIGNED	
CHECKED	
DRAWN	
CHECKED	JP

October 12, 1973
EXAMINED
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

DESIGN STRESSES
f'c = 1200 psi Deck Slab f'c = 1000 psi Abutments
f'c = 1400 psi Curb, Parapet & Piers
fs = 20000 psi Reinf.
fs = 27000 psi Structural
vc = 75 psi Ftgs n = 10
Allow 25#/Sq Ft for Fut. W.S.
Design Specifications 1969 AASHO (as applicable)

LOADING HS20-44

WATERWAY INFORMATION
Drainage Area: 53.0 Sq. Miles
Present Opening: 3345 Sq. Ft.
Proposed Opening: 2247 Sq. Ft.
Proposed Opening: (Main Structure) 1183 Sq. Ft.
Q(50) 11,000 cfs.
Created Head 0.77'

GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts ¾" ⌀; open holes 13/16" ⌀, unless otherwise noted.

Calculated weight of Structural Steel = 130,480 Lbs.

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.

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 Waterproofing Membrane System is applied.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± ⅛ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two ⅛" 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 Contractor shall drive one steel test pile in a permanent location at East Abutment as directed by the Engineer before ordering the remainder of piles.

All structural steel shall be AASHTO M222 and shall not be painted, except as noted.

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders or wide flange beams.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Conc. Surface Crse Class I	Tons	57		57
Structure Excavation	Cu. Yds.		307	307
Class A Concrete	Cu. Yds.		243.7	243.7
Waterproofing Membrane System	Sq. Yds.	704		704
Class X Concrete	Cu. Yds.	210.5	174.9	385.4
Reinforcement Bars	Lbs.	52,570	35,040	87,610
Structural Steel	L. S.	L.S.		0.36
Aluminum Railing	Lin. Ft.	290		290
Protective Coat	Sq. Yds.	111		111
Steel Piles HP10×42	Lin. Ft.		1524	1524
Test Piles (Steel)	Each		1	1
Rock Excavation for Structures	Cu. Yds.		11	11
Preformed Joint Sealer (2½")	Lin. Ft.	92		92
Name Plates				1
Removal of Existin[illegible]				
Cofferdam Excavati[illegible]				
Cofferdams				

BRIDGE NO. 10
073-0025
FOR INFORMATION ONLY

F.A. RTE. 128 SEC. 8-1-B
PERRY COUNTY
STA. 272+85.00