

B.M. 5. & 2W. Roof 31' Pean  
 120' Lt. Sta. 86+50 Elev. 344.18  
 Existing structure to remain in place.  
 Located approx. 1200' upstream from Proposed Bridge.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

VARIOUS ROUTES  
 D9 BRIDGE PAINTING FY 09-1  
 VARIOUS COUNTIES  
 CONTRACT 78093  
 FOR INFORMATION ONLY  
 SHEET 6 OF 31

STATION 85+51.37  
 BUILT 195 BY  
 STATE OF ILLINOIS  
 F.A. RTE. 35 SEC. II-B-1  
 F.A. PROJ. F-610(5)  
 LOADING H20-S16

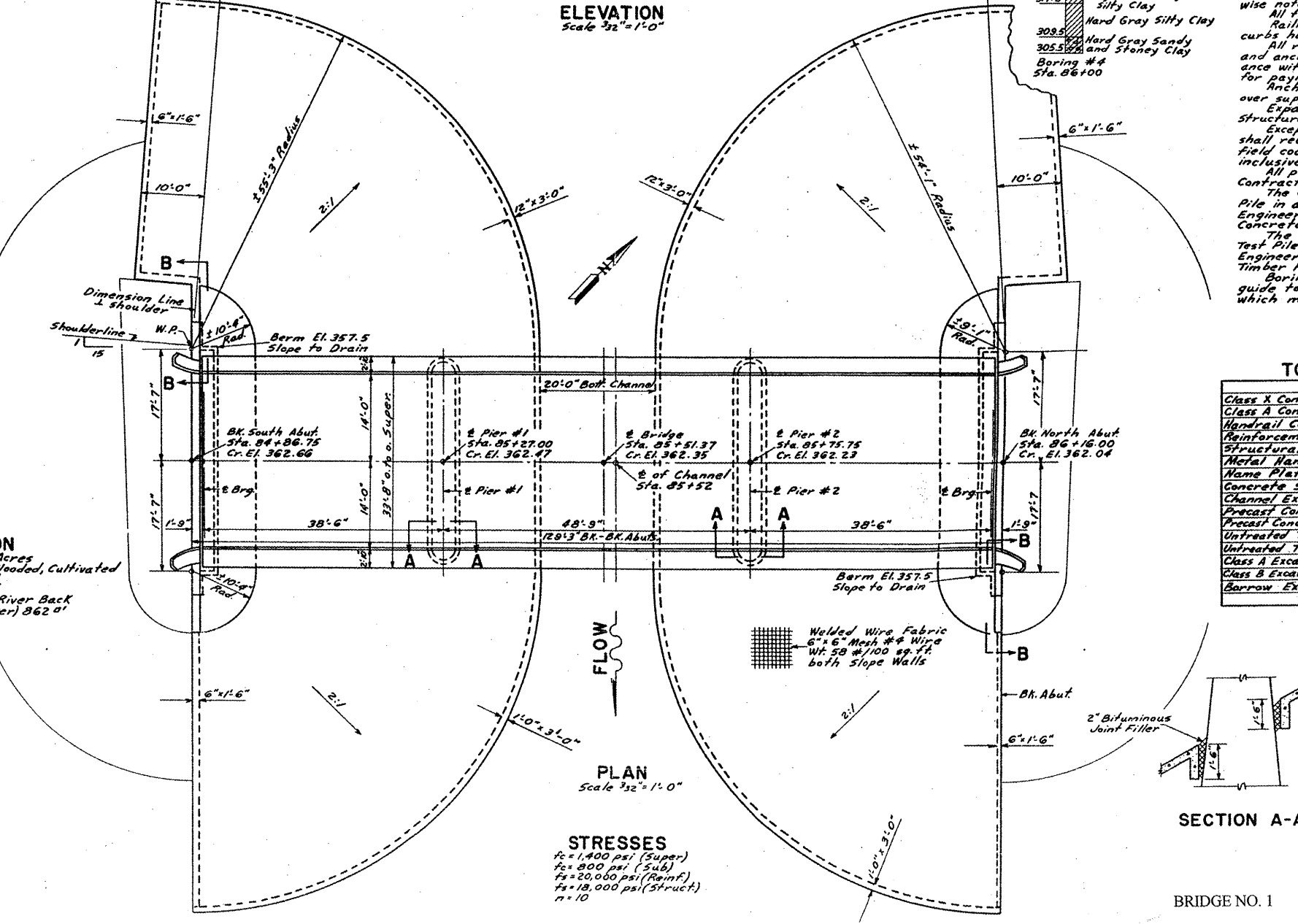
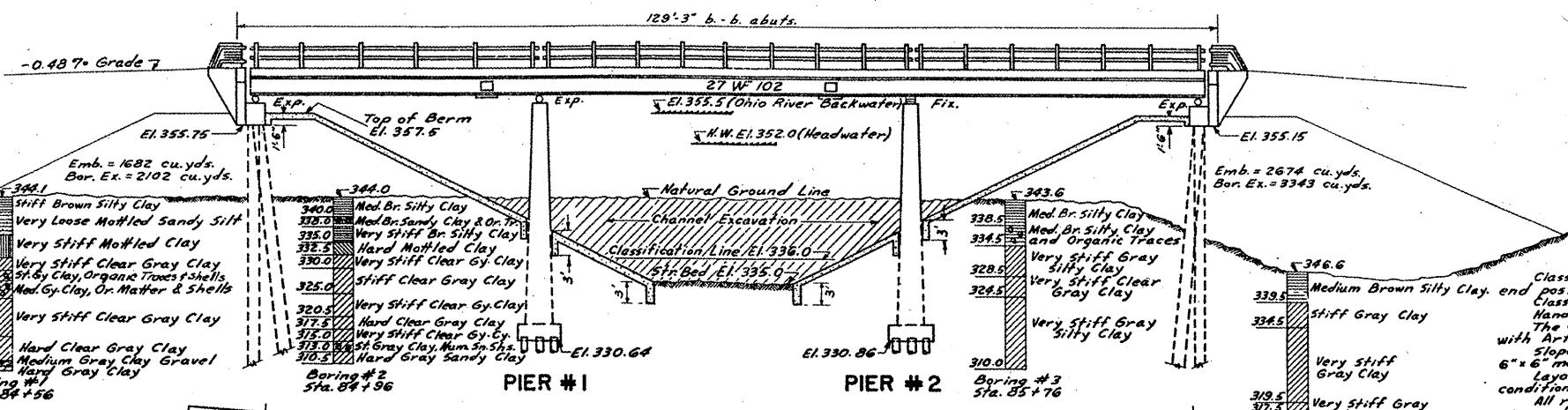
LETTERING FOR  
 NAME PLATE  
 See 514.1882

GENERAL NOTES

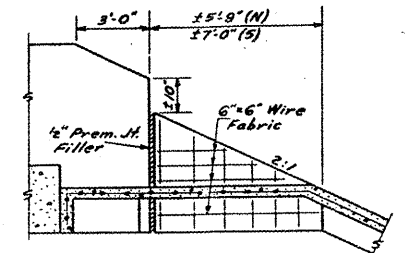
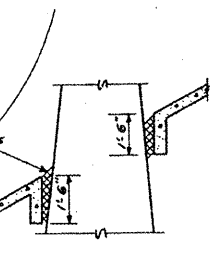
Class X Concrete shall be used throughout except in rail end posts and in Piers.  
 Class A Concrete shall be used in Piers.  
 Handrail Concrete shall be used in Rail End Posts.  
 The Concrete Floor Slab shall be finished in accordance with Art. 51.18 (a) of the Std. Specs.  
 Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires, weighing 50 #/100 sq. ft. Layout of slope wall may be varied to suit ground conditions in the field as directed by the Engineer.  
 All rivets shall be 3/4", open holes 1 1/8", unless otherwise noted.  
 All field connections shall be riveted.  
 Railings shall be adjusted to true alignment after curbs have been poured.  
 All rollers, rockers, bearing plates, lead plates, pintles, and anchor bolts shall be fabricated and set in accordance with Art. 54.14 of the Std. Specs. and are included for payment as Structural Steel.  
 Anchor Bolts shall be set before riveting diaphragms over supports.  
 Expansion Guards are included for payment as Structural Steel.  
 Except as otherwise provided, all Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Art. 57.1 to 57.5 inclusive of the Std. Specs.  
 All paint shall be furnished and applied by the Contractor.  
 The Contractor shall drive one Precast Concrete Test Pile in a permanent location as directed by the Engineer before casting the remainder of the Concrete Piles.  
 The Contractor shall drive one Timber Test Pile in a permanent location as directed by the Engineer before ordering the remainder of the Timber Piles. All Timber Piles shall be untreated. Boring Data are shown on the plans only as a guide to bidders in estimating soil conditions which may be encountered in the work.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Abuts.	Piers	Total
Class X Concrete	cu. yd.	114.7	44.5		159.2
Class A Concrete	cu. yd.			288.2	288.2
Handrail Concrete	cu. yd.			1.6	1.6
Reinforcement Bars	lb.	18,790	3,440	9,960	32,190
Structural Steel	lb.	100,020			100,020
Metal Handrail	lin. ft.	256.83			256.83
Name Plate	ea.				1
Concrete Slope Wall	sq. yd.				1630
Channel Excavation	cu. yd.				12,093
Precast Concrete Piles (40 lb.)	lin. ft.		440		440
Precast Concrete Test Piles	ea.		1		1
Untreated Timber Piles (16 lb.)	lin. ft.			1120	1120
Untreated Timber Test Piles	ea.			1	1
Class A Excavation for Struct	cu. yd.			240	240
Class B Excavation for Struct	cu. yd.			210	210
Borrow Excavation	cu. yd.		5445		5445



STRESSES  
 Fc = 1,400 psi (Super)  
 Fc = 800 psi (Sub)  
 Fc = 20,000 psi (Reinf.)  
 Fc = 18,000 psi (Struct.)  
 n = 10



TYPICAL SECTION  
 BRANCH CHANNEL

TYPICAL SECTION  
 MAIN CHANNEL

Construct New Channel 800 ft Left and 300 ft Right of Sta. 85+52.

Place all excavation in old channel as directed by the Engineer. Channel Excav. Est. 10,880 c.y.

Construct New Channel 100 ft left of Sta. 85+62, to Sta. 88+50. Place all excavation in adj. road emb. as directed by the Engineer. Est. 1213 c.y.

WATERWAY INFORMATION  
 Drainage Area - 1750 Acres  
 Character - Nilly, Wooded, Cultivated  
 Opening Reg. of Cr. & Talbot - 217 a  
 Existing Bridge Opening - 220 a  
 Proposed Bridge Opening - (Ohio River Back Water) 362 a

CHANNEL CHANGE LAYOUT

DESIGNED *P.A. Sandoral*  
 CHECKED *James J. Hanning*  
 DRAWN *W.A. Sausaman, Jr.*  
 EXAMINED *W. Johnson*  
 PASSED *E. Ch... ..*  
 APPROVED *F. N. Barker*