

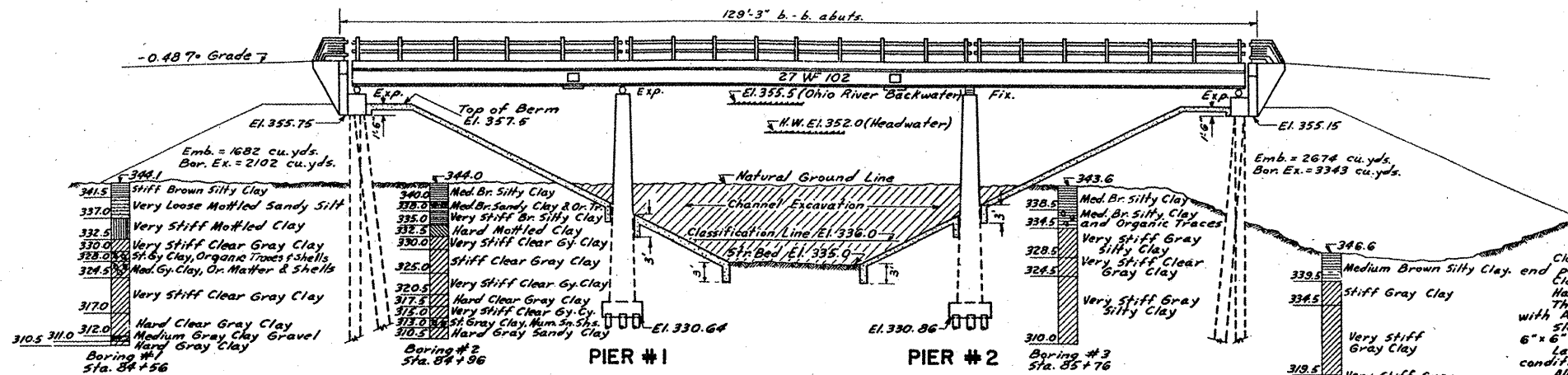
B.M. S. & 2W. Root 31' Pecan
 120' Lt. Sta. 86+50 Elev. 344.18
 Existing structure to remain in place.
 Located approx. 1200' upstream from Proposed Bridge.

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

TYPICAL SECTION
 BRANCH CHANNEL

TYPICAL SECTION
 MAIN CHANNEL



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

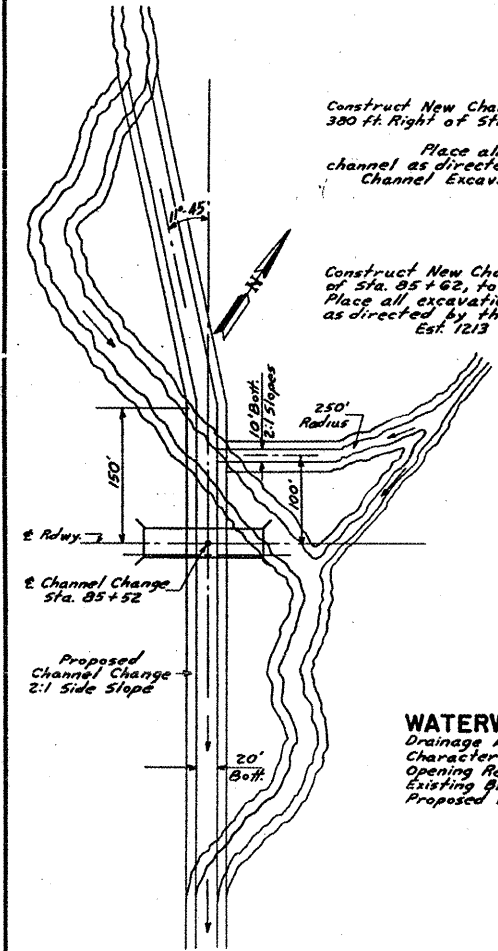
LETTERING FOR
 NAME PLATE
 See Std. 1882

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 20#/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 1/16", 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 casting 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.

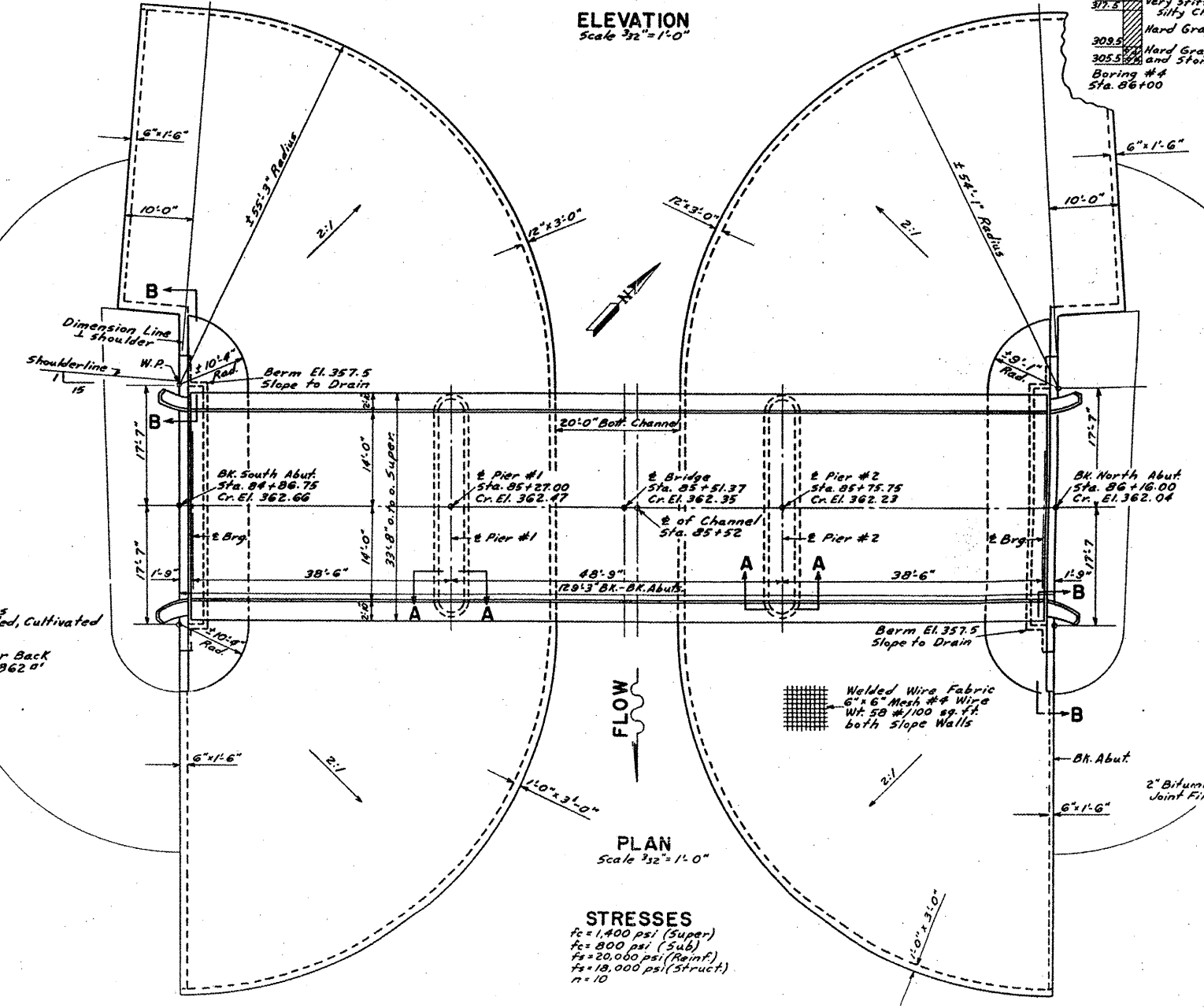
Construct New Channel 300 ft Left and 300 ft Right of Sta. 85+52.
 Place all excavation in old channel as directed by the Engineer.
 Channel Excav. Est. 10,880 c.y.

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 - Hilly, Wooded, Cultivated
 Opening Reg. of (Cr. & Talbot) - 217' 0"
 Existing Bridge Opening - 220' 0"
 Proposed Bridge Opening - (Ohio River Back Water) 362' 0"

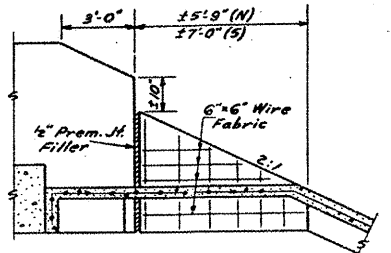
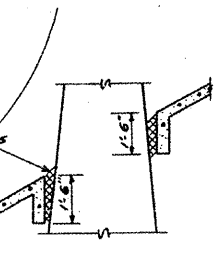
CHANNEL CHANGE LAYOUT



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

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			1
Concrete Slope Wall	sq. yd.				1630
Channel Excavation	cu. yd.				12,093
Precast Concrete Piles (40' lg.)	lin. ft.		440		440
Precast Concrete Test Piles	ea.		1		1
Untreated Timber Piles (16' lg.)	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



SECTION A-A

SECTION B-B

DESIGNED *P.A. Sandवाल*
 CHECKED *James J. Hanning*
 DRAWN *W.A. Saucaman, Jr.*
 EXAMINED *W.C. Hanson*
 PASSED *E.H. Hanning*
 APPROVED *F.W. Barker*

BRIDGE NO. 1
 BRIDGE OVER HOSICK CREEK
 F.A. RTE. 35 SEC. II-B-1
 HARDIN COUNTY
 STA. 85+51.37