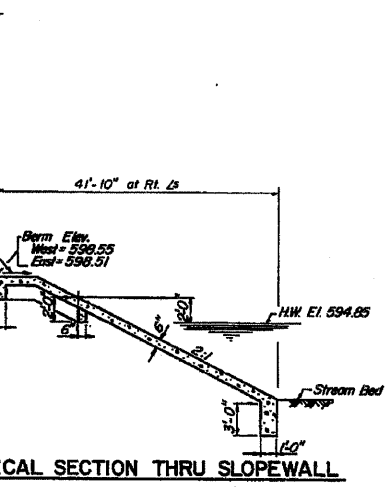
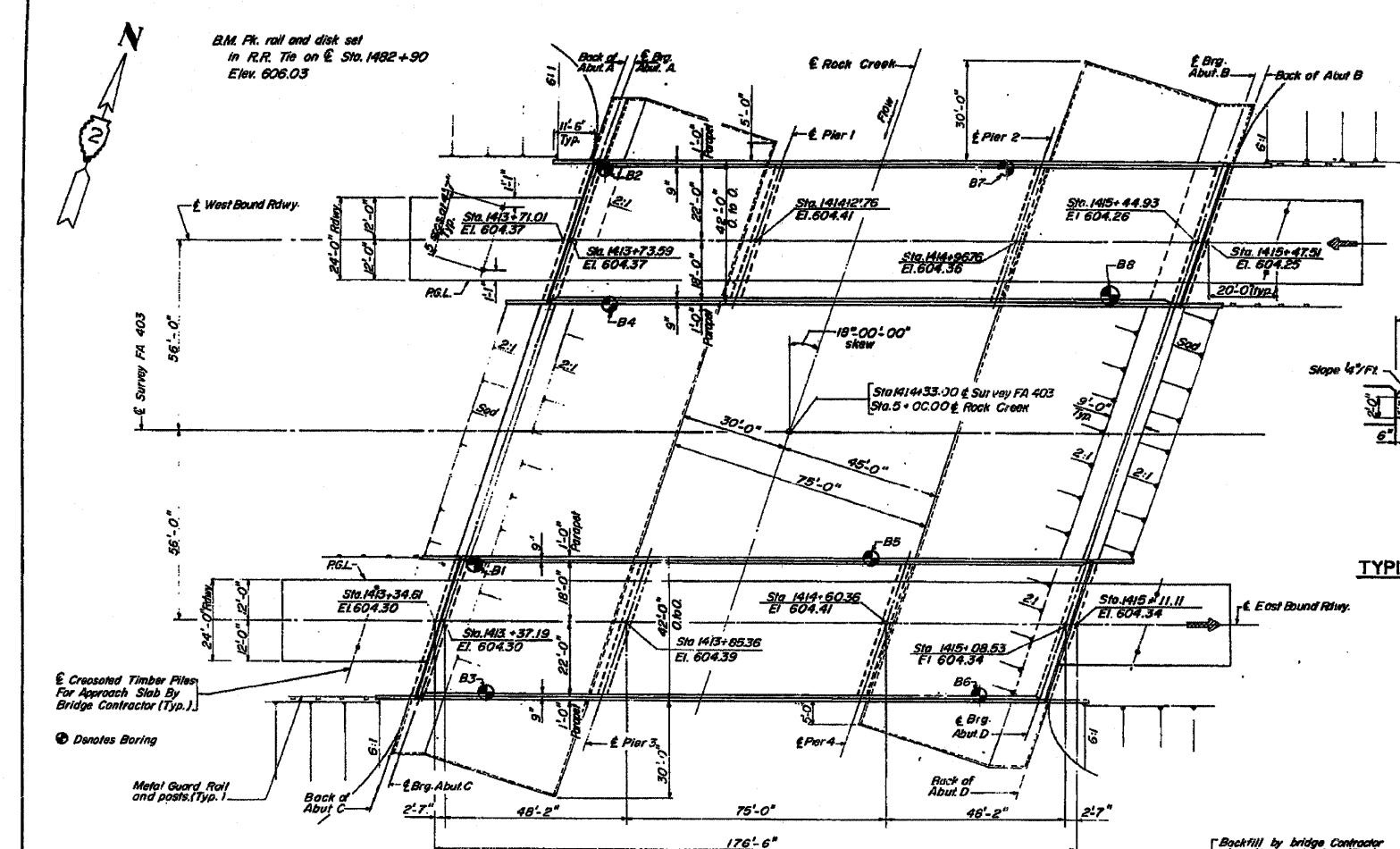


PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
195-18-1	2	WHITESIDE	250	78
SHEET NO. 1				
7 SHEETS				

# FOR INFORMATION ONLY



**GENERAL NOTES**

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.

FIELD CONNECTIONS SHALL BE BOLTED USING HIGH STRENGTH BOLTS. BOLTS 3/4" & OPEN HOLES 13/16" Ø, UNLESS OTHERWISE NOTED.

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 OF FLANGE OF BEAMS OR GIRDS 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.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" x 6" MESH, WEIGHING 50# PER 100 SQ. FT..

THE FINISHMENT CONFORMATION SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ADJUSTMENTS.

THE CONTRACTOR SHALL DRIVE FOUR TEST PILES IN A PERMANENT LOCATION, ONE EACH AT ABUTMENT A AND PIER 2 OF WEST BOUND AND ONE EACH AT PIER 3 AND ABUTMENT D OF EAST BOUND, AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

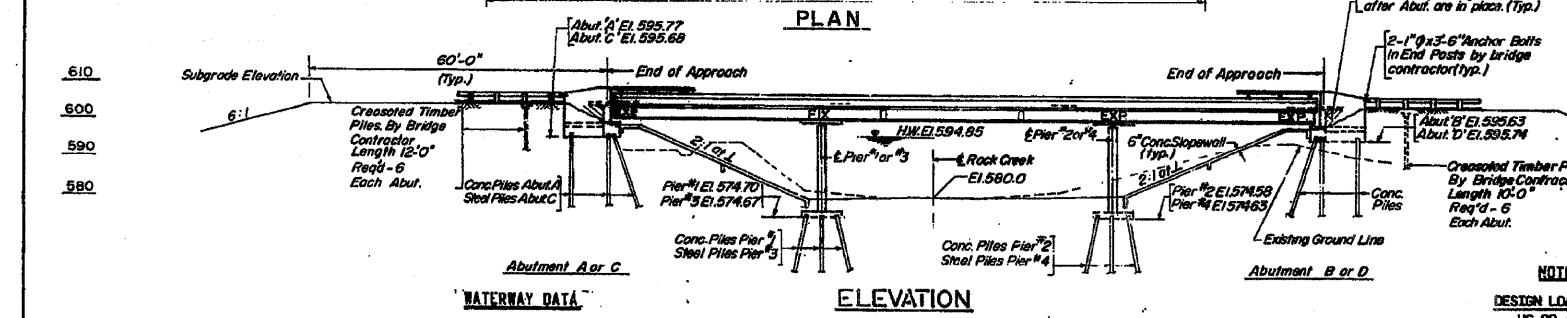
THE CONCRETE RAIL SECTION ABOVE THE IMMEDIATE CURB, JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS I CONCRETE, EXCEPT THE APPROVED SHALL CONFORM TO THE REQUIREMENTS OF HAMBURG CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM IS APPLIED.

LAYOUT OF SLOPE WALLS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

Bearing seat surfaces shall be constructed or adjusted to the design-stated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" 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 main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the Hangers, webs, cover plates, and splice plates. The steel girders or wide flange beams.

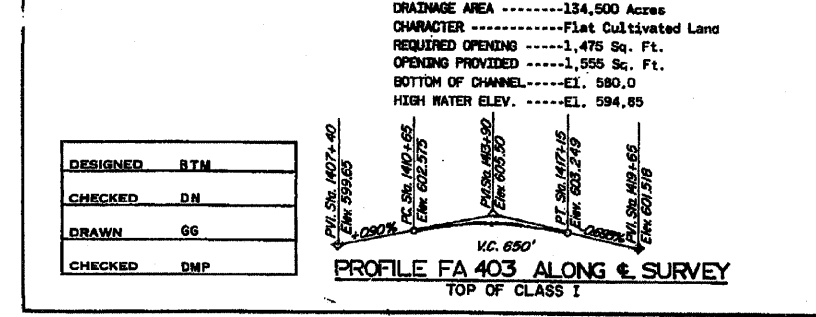


STATION 1414+33.00  
BUILT IN BY  
STATE OF ILLINOIS  
FA 403 SECTION 195-18-1  
FA PROJECT-ENRFS-403-1141  
LOADING HS 20

**NAME PLATE**  
SEE STD 2113

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
STRUCTURE EXCAVATION	CU. YDS.	530		530
PROTECTIVE GRAY	SQ. YDS.	312		312
CLASS "X" CONCRETE	CU. YDS.	940.5	728.0	1668.5
STRUCTURAL STEEL	L. 300	0.32		0.32
ALUMINUM BAILING	LIN. FT.	682		682
REINFORCEMENT BARS	LS.	106,630	30,200	144,830
STUD SHEAR CONNECTORS	EACH	8,382		8,382
CREOSOTED PILES UP TO 20 FEET	LIN. FT.		264	264
STEEL PILES 18"x36"	LIN. FT.		1,094	1,094
TEST PILES 18"x36"	EACH		1	1
CONCRETE PILES	LIN. FT.		1,085	1,085
CONCRETE TEST PILES	EACH		3	3
NAME PLATES	EACH		2	2
SLOPE WALL (6")	SQ. YDS.		2,300	2,300
SUB. CONC. SURFACE COURSE CLASS I	TONS	126		126
REINFORCED JOINT SEALER, 2 1/2"	LIN. FT.	1,000		1,000
PERMANENT BENCH MARK, TYPE I	EACH		88	88
PERMANENT JOINT SEALER 4"	LIN. FT.		88	88
* CALCULATED WEIGHT OF STRUCTURAL STEEL = 30,430 LBS.				



**WATERWAY DATA**

DRAINAGE AREA -----134,500 Acres  
CHARACTER -----Flat Cultivated Land  
REQUIRED OPENING -----1,475 Sq. Ft.  
OPENING PROVIDED -----1,555 Sq. Ft.  
BOTTOM OF CHANNEL -----EL. 580.0  
HIGH WATER ELEV. -----EL. 594.85

**DESIGNED** BTM  
**CHECKED** DN  
**DRAWN** GG  
**CHECKED** DMP

**NOTE:**  
For Footing Layout Refer Sheet # 8

**NOTES:**

**DESIGN LOADING:**  
HS 20-44 And Allowance For 25 P.S.F.  
Future Wearing Surface

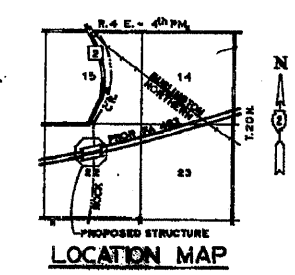
**DESIGN STRESSES:**

$f_c = 1400$  P.S.I. Except As Follows:  
 $f_c = 1200$  P.S.I. For Deck Slab;  
 $f_c = 1000$  P.S.I. For Conc. In Contact With Earth.  
 $f_s = 20,000$  P.S.I. - Structural Steel;  
 $f_s = 20,000$  P.S.I. - Reinforcement Steel.  
 $v = 75$  P.S.I. Allowable Shear In Footings.  
 $n = 10$

Allowable Live Load Deflection =  
L/1200 (Composites)

DESIGN SPECIFICATIONS: AASHTO 1969 As Applicable

APPROVED



**GENERAL PLAN & ELEVATION**

FA 403 SECTION 195-18-1  
FA 403 OVER ROCK CREEK  
WHITESIDE COUNTY  
STATION 1414+33.00