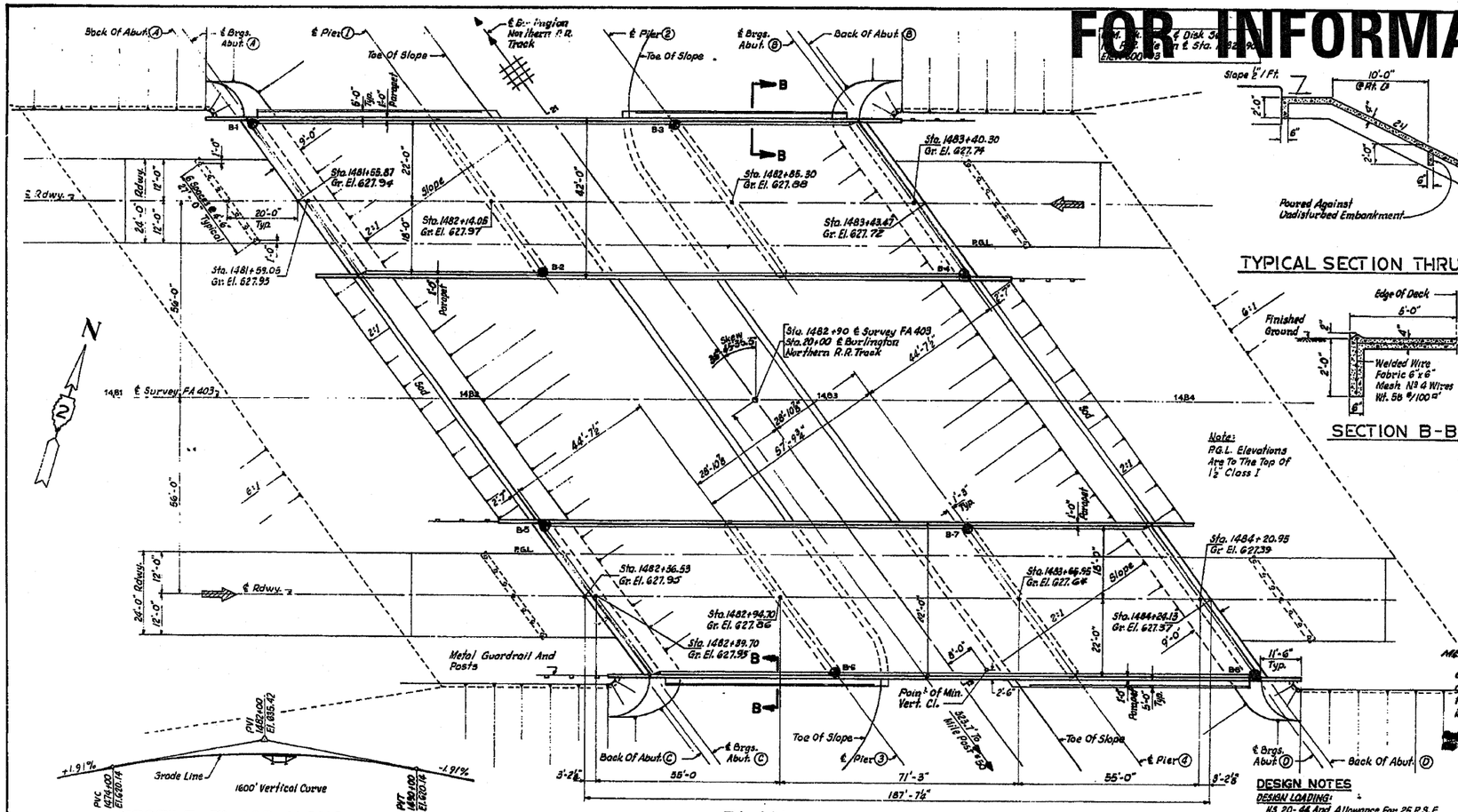
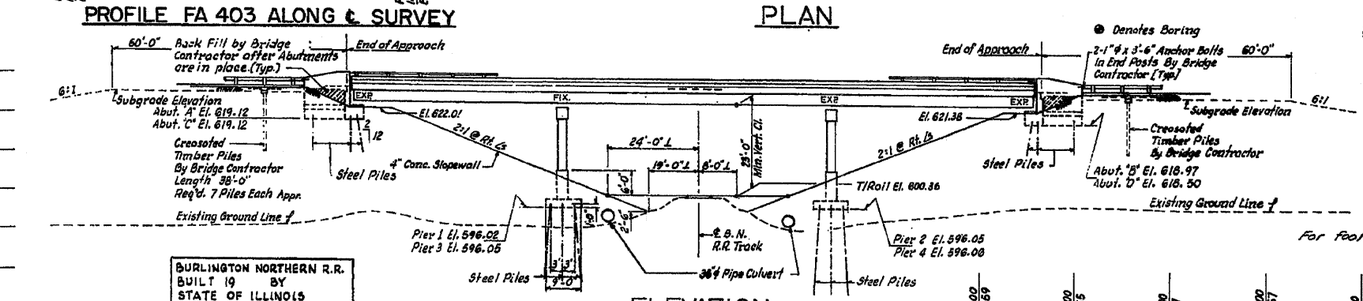


PROFILE FA 403 ALONG ℄ SURVEY



ELEVATION

● Denotes Boring

End of Approach

2-1"ϕ x 3'-6" Anchor Bolts In End Posts By Bridge Contractor (Typ.)

60'-0"

For footing layout see sheet # 5.

Note:
Before Beginning Construction Of The Piers The Elevation Of The Embankment Must Be Built To The Bottom Of The Pier Footing Elevation Full Width And Length.

BURLINGTON NORTHERN R.R.
BUILT 19 BY
STATE OF ILLINOIS
FA 403 SECTION 195-1VB
FA PROJ. EBRF-EBRG-403-1(4)
LOADING H S 20

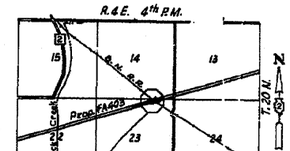
NAME PLATE

See Std. 2118

Designed By..P.B.
Checked By..R.A.
Drawn By..G.G.
Checked By..RMP.

PLAN

TYPICAL SECTION THRU SLOPE WALL



SECTION B-B

LOCATION MAP

GENERAL NOTES

ALL REINFORCEMENT BARS SHALL BE LAPPED 25 DIAMETERS UNLESS OTHERWISE SHOWN.

FIELD CONNECTIONS SHALL BE BOLTED USING HIGH STRENGTH BOLTS. BOLTS 3/4" ϕ, OPEN HOLES 13/16" ϕ, 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 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 CONCRETE SUPERSTRUCTURE OVER 24 HOURS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" x 6" MESH, WEIGHING 58# PER 100 SQ. FT..

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

THE CONTRACTOR SHALL DRIVE EIGHT STEEL TEST PILES IN A PERMANENT LOCATION, ONE EACH AT PIERS AND ONE AT EACH ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONST. 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 MEMBRANE SYSTEM IS APPLIED.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" 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 [illegible] for Notch Toughness are the flanges, webs, [illegible] of plate girders or wide flange beams.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT	TOTAL
STRUCTURE EXCAVATION	CU. YDS.	---	---	---
PROTECTIVE COAT	SQ. YDS.	266	---	266
CLASS "X" CONCRETE	CU. YDS.	478.8	522.6	1,001.4
STRUCTURAL STEEL	L. SUM	0.33	---	0.33
ALUMINUM RAILING	LIN. FT.	736	---	736
REINFORCEMENT BARS	LBS.	126,020	61,650	187,670
CREOSOTED TIMBER PILES(20.1" TO 38')	LIN. FT.	---	1,064	1,064
STEEL PILES HP 10x42	LIN. FT.	---	4,759	4,759
TEST PILES HP 10x42	EACH	---	8	8
NAME PLATES	EACH	---	2	2
SLOPE WALL (6")	SQ. YDS.	---	2,802	2,802
Bit. Conc. Surface Course CX 2	TONS	132	---	132
Waterproofing Membrane System	SQ. YDS.	1,570	---	1,570
2" NEOPRENE JOINT	LIN. FT.	100	---	100
2½" PREFORMED JOINT SEALER	LIN. FT.	104	---	104
STUD SHEAR CONNECTORS	EACH	4,428	---	4,428
PERMANENT BENCH MARK, TYPE I	EACH	1	---	1

* CALCULATED WEIGHT OF STRUCTURAL STEEL = 397,300

DESIGN NOTES

DESIGN LOADING:
H S 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 Concrete In Contact With Earth.
f_s = 20,000 P.S.I. ASTM 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 [Composite]
DESIGN SPECIFICATIONS: AASHO 1969 As Applicable.

PROFILE BURLINGTON NORTHERN R.R. TRACK

TOP OF RAIL ELEVATION

Sta. 23+00 El. 600.69 | Sta. 22+00 El. 600.55 | Sta. 21+00 El. 600.47 | Sta. 20+00 El. 600.57 | Sta. 19+00 El. 600.36 | Sta. 18+00 El. 600.37 | Sta. 17+00 El. 600.36

APPROVED

GENERAL PLAN & ELEVATION

FA 403 SECTION 195-1 VB

FA 403 OVER BURLINGTON NORTHERN R.R.

WHITESIDE COUNTY

STATION 1482+90.00

098-0061, 2

* FAI Route 88 & FAP Route 309 (I-88 & US 30)
** D2 Bridge Painting 2009-2

FILE NAME = P:\PAINTING\64E63\PLANeng.dgn	USER NAME = linkdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			*	**	Whiteside	29	11
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -					CONTRACT NO.		
	PLOT DATE = Fri Dec 05 14:14:56 2008	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	