

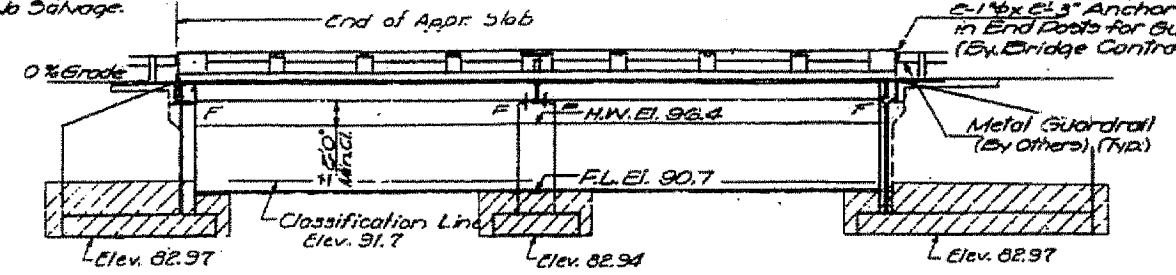
DATE	BY	NO.	REV.	SHEET NO.
8	U-BR	LASALLE	44	20
TOTAL SHEETS				8 SHEETS

See Sheet #2 For General Notes.

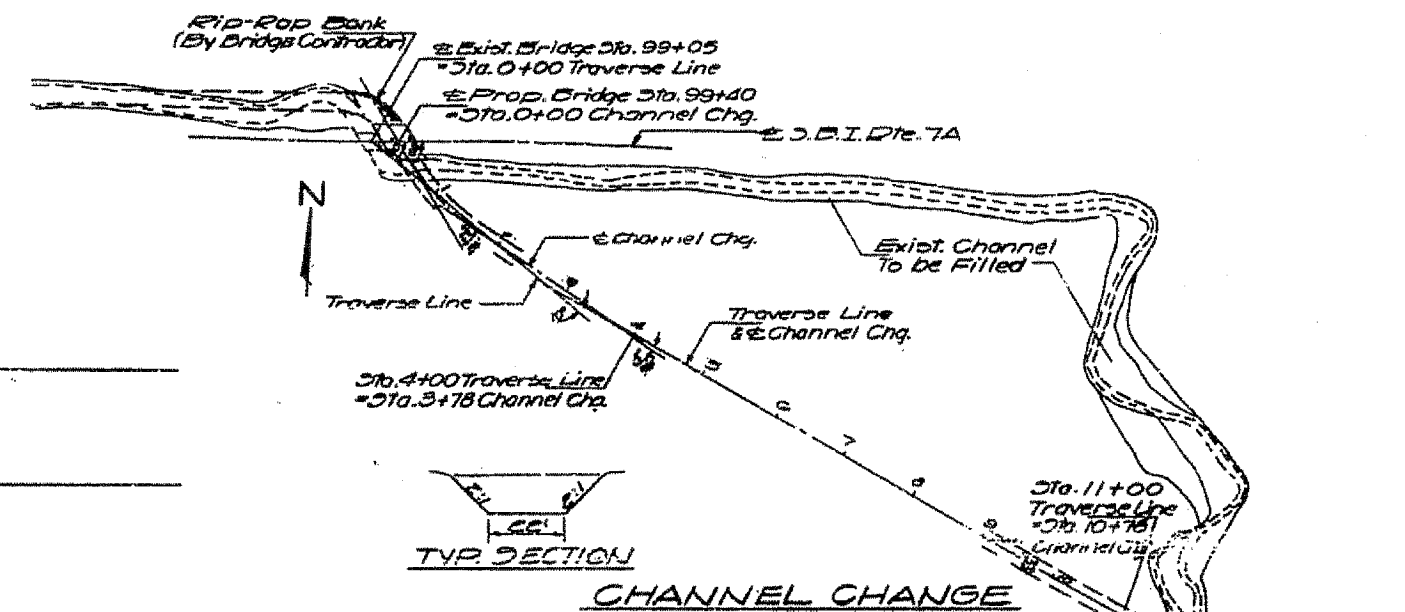
B.M. #1 Chiseled in on N.N. of Headwall
 10' at Sta. 99+00 El. 100.00
 Existing Structure: Rein. Conc. Slab, Rein. Conc. Abut.,
 22" O.A.W.T., R.C.C. & Ell. Wearing Surface.
 Built as S.B.I. 7A, Sec. U-B, 1920.
 To be removed by Bridge Contractor before new
 bridge is built. No Salvage.

Detour Road: Provide 3-12" ϕ
 Pipe Culverts
 (2.5' y. Flood Freq.)

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



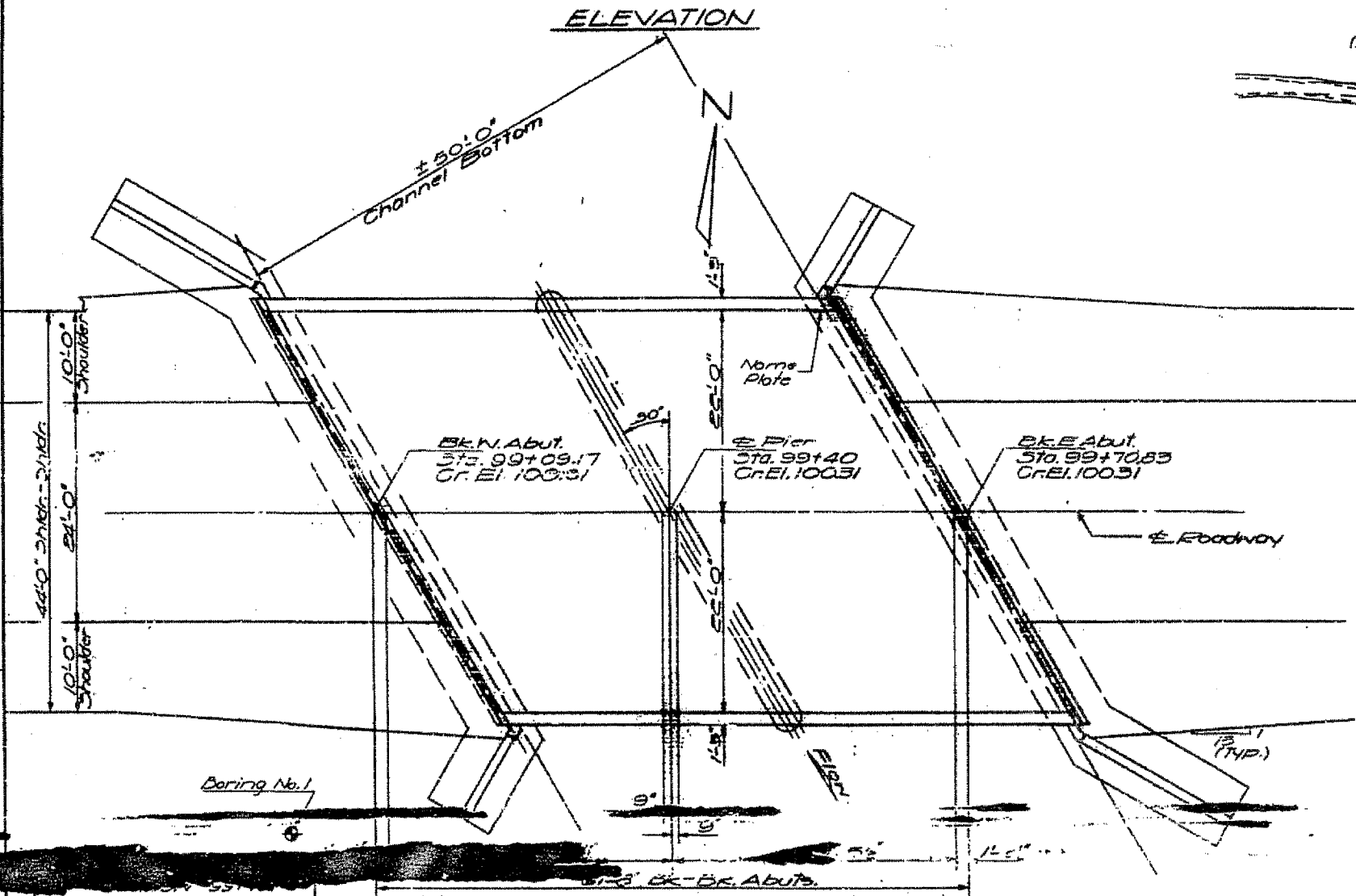
ELEVATION



CHANNEL CHANGE

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Rock Excavation for Structures	Cu. Yds.			53
Channel Excavation	Cu. Yds.			1560
Class B Excavation for Structures	Cu. Yds.			750
Removal of Existing Structures	Ea.			1
Class X Concrete	Cu. Yds.	6.9	208.8	215.7
Class A Concrete	Cu. Yds.		99.7	99.7
Handrail Concrete	Cu. Yds.	3.6		3.6
Reinforcement Bars	Lbs.	4010	29440	33450
RFC Deck Bms. (12")	Sq. Ft.	2769		2769
Name Plates	Ea.	1		1
Protective Coat	Sq. Yds.	58		58
Coal Tar Interlayer, Repeating	Sq. Yds.	297		297
Stone Riprap	Sq. Yds.			270
Class A Excavation for Structures	Cu. Yds.			



PLAN

BUILT BY
 STATE OF ILLINOIS
 S.B.I. RT. 7A SEC. U-BR
 LOADING H3 E0

NAME PLATES
 See Std. 2113-1

DESIGNED	Corby
CHECKED	Suresh T. Desai
DRAWN	Jacobs
CHECKED	S.S.

APPROVED

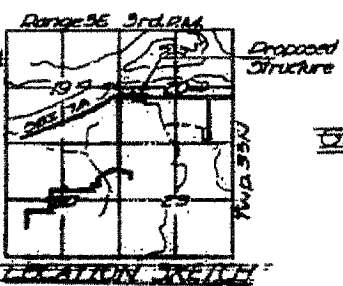
FOR INFORMATION ONLY

WATERWAY INFORMATION

Drainage Area — 4500 Acres
 Character — rolling, hilly, wooded, cultivated
 Required Opening (30-year Flood) — 670 Sq. Ft.
 Present Opening — 102 Sq. Ft.
 Proposed Opening — 670 Sq. Ft.
 Q (30) = 1770 cfs

DESIGN STRESSES

FIELD UNITS
 $f_c = 1400$ psi
 $f_s = 20,000$ psi — Reinf.
 $v_c = 75$ psi — Figs. n=10
 $f_c = 1000$ psi — Abutts. & Wings
 PRECAST PRESTRESSED UNITS
 $f_c = 2000$ psi
 $f_s = 40,000$ psi
 $f_s = 200,000$ psi — Strands
 $f_{si} = 175,000$ psi — Strands



LOADING H3 E0

GENERAL PLAN & ELEVATION
 BROWN BROOK
 S.B.I. ROUTE 7A
 SECTION U-BR
 LASALLE COUNTY
 STATION 99+10