B.M. #1 "□" on S.W. Corner of Hub Rail 40' Rt.
Sta. 14+07 Elev. =700.00

Exist. Struct. To be removed after New Bridge is Built. No Salvage.
Built as Sec. I-B, Sta 14+33, F.A. Rt. (SBI-7A) in 1919
Reinforced Concrete slab bridge 38'-1" f to f abutments, 22'-0" wide on reinforced concrete closed abutments.

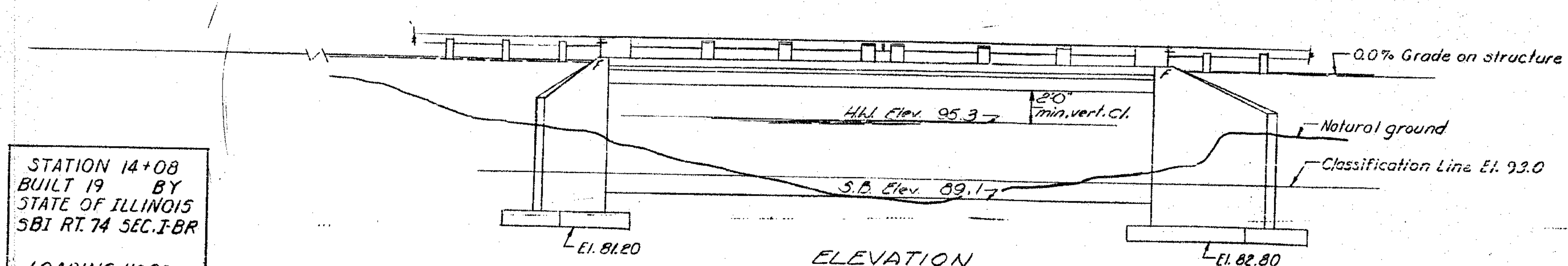
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

Route No.	Section	County	Total Sheets	Sheet No.
S.B.I. 8	I-BR	LA SALLE	44	14

SHEET NO. 1 of 6 SHEETS

STATION 14+08
BUILT 19 BY
STATE OF ILLINOIS
SBI RT. 74 SEC. I-BR
LOADING HS20

NAME PLATE
See Std 2113-1



GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Handrail concrete shall be used in the rail and rail posts. Rail shall be poured in separate operation from interior rail posts.

Backfill shall be placed behind the abutment after the deck beams have been placed and grouted. See Article 502.11 of the Standard Specifications.

An alternate strand pattern using Extra High Strength Prestressing strand (270 k.s.i.) is permitted.

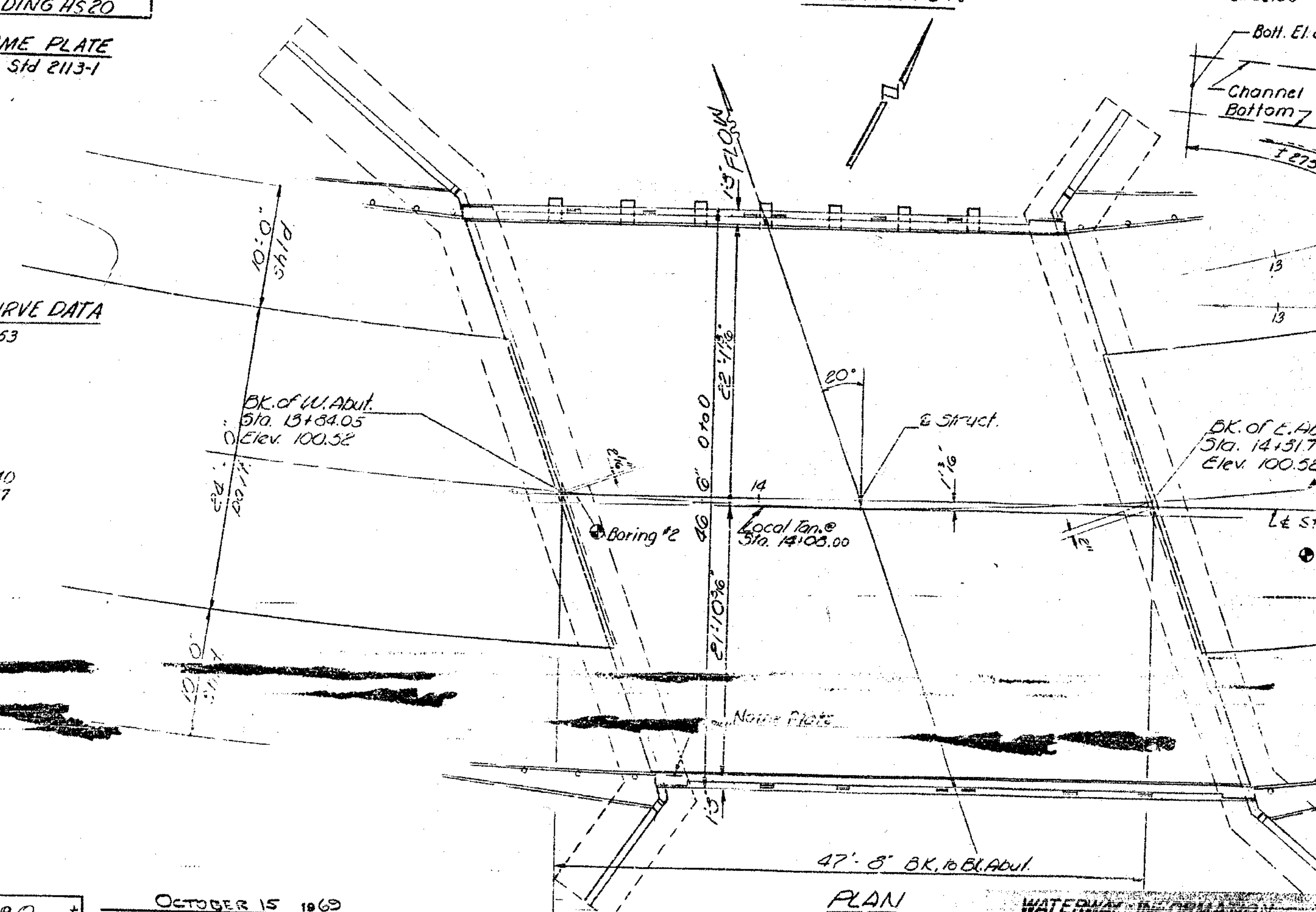
Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.

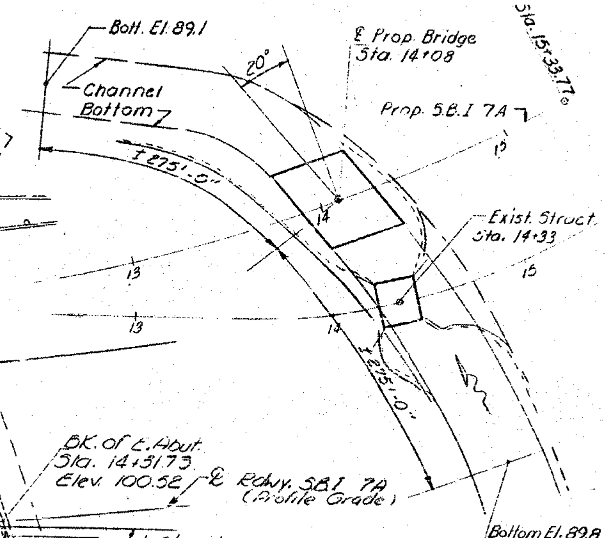
The back surfaces of the abutments and wings shall be waterproofed above the tops of the footings.

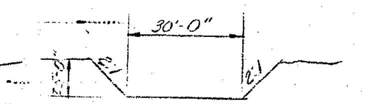
Note: Roadway elevations are on top of 1½" Class I Surface.

HORIZONTAL CURVE DATA

P.I. Sta. 13+07.53
Δ = 28°-40'
D = 6°-12'
T = 236.19'
R = 924.19'
L = 462.37'
E = 29.69'
S.E. = 0.06'/'
P.C. = Sta. 10+71.40
P.T. = Sta. 15+33.77

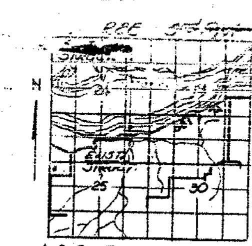






TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bituminous Conc. Surface Course, Class I	Tons	20		20
Removal of Existing Structures	Each			1
Class A Excavation for Structures	Cu Yds			70
Class B Excavation for Structures	Cu. Yds			870
Handrail Concrete	Cu Yds	3.0		3.0
Class X Concrete	Cu. Yds	9.7	213.6	223.3
Precast Prestressed Conc. Deck Beams (21")	Sq. Ft.	2153		2153
Name Plates	Ea.			1
Coal Tar Interlayer Protective Coat	Sq. Yds			235
Reinforcement Bars	Lbs.	3340	23,330	26,670
Protective Coat	Sq. Yds.	50		50
Channel Excavation	Cu. Yds.			418



PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'ci = 4,000 psi
[illegible] psi (Strands ½" Ø)

WATERWAY INFORMATION
Drainage Area 3470 Acres
Character rolling, hilly, wooded, cultivated
Required Opening 130 [illegible] Sq. Ft.
Present Opening [illegible] Sq. Ft.
Proposed Opening 260 Sq. Ft.
Ordinary Water Elev. 92.0
Low Water Elev.
Q_{30} = 1600 CFS

DESIGN STRESSES
fs = 20,000 psi (Reinf.)
fc = 1,000 psi (Substructure)
Vc = 75 psi Ftgs.
n = 10

LOADING HS 20-44

Max Soil Pressure = 2.33 Tons/sq. ft.

DESIGNED	
CHECKED	
G.E.O. DRAWN	D.W. Williams Sr.
CHECKED	

OCTOBER 15 1969
EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

S.B.I. RT. 7A OVER ARMSTRONG BROOK
S.B.I. RT. 7A (III-71) SEC. I-BR
LASALLE COUNTY
STATION 14+08.00