FAS ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1197	105 BR-2	WHITESIDE	59	32
STA.		TO STA.		
EXISTING CONDITIONS:				

CONTRACT 64421

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 86 F.A.	105 BY	Whiteside	9	6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

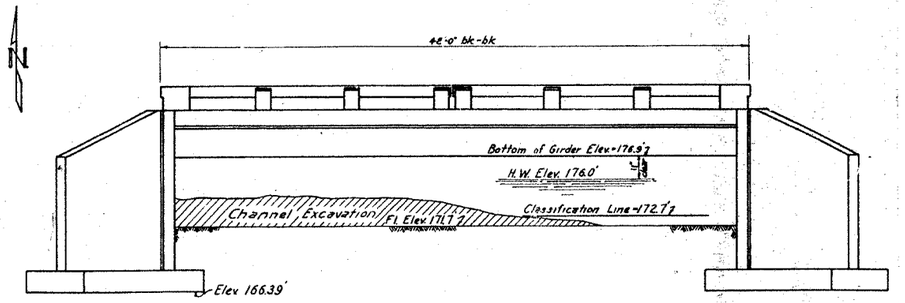
SHEET NO. 1
3 SHEETS

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

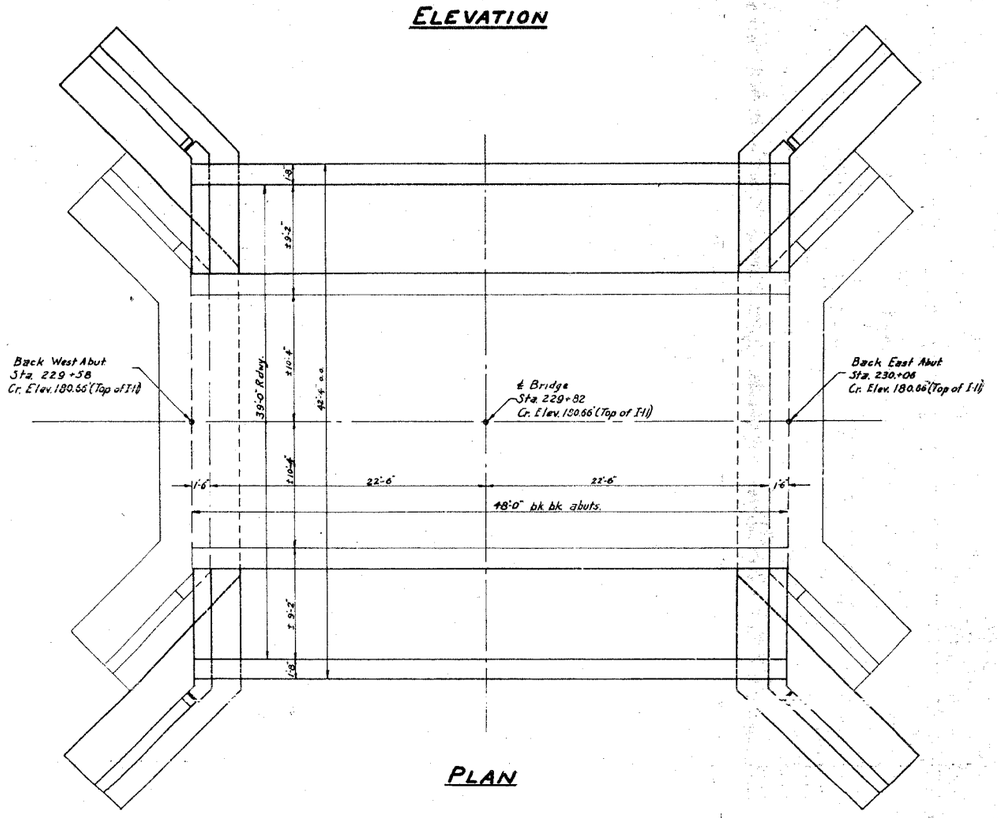
B.M. "a" Top of N.W. Wing of Bridge
Elev. 180.39 = 618.31 U.S.G.S. datum
Existing Bridge: R.C. Deck Girder: 1 Span @ 45°; on R.C. Closed Abut. 22' Rdwy.
Built 1929
Remove portions of Super and Sub as indicated

WATERWAY INFORMATION

Drainage Area	6000 Acres
Character	level, sand, clay, wooded & cultivated
Required Opening	188 Sq. ft.
Present Opening	135 Sq. ft.
Proposed Opening	194 Sq. ft.



ELEVATION



PLAN

STATION 229+82
BUILT 195 BY
STATE OF ILLINOIS
S.B.I. RT. 86 SEC. 105 BY
LOADING H20

Name Plate
See Std. 2113

DESIGN STRESSES

fc = 1400 #/□" Super.
fc = 800 #/□" Sub.
fs = 20000 #/□" Reinf.
fs = 18000 #/□" Struct.
n = 10

GENERAL NOTES

Class "X" concrete shall be used throughout except in handrails.

Handrail concrete shall be used in handrails.

The concrete girder and floor slabs shall be poured in one continous operation between joints on either side of the existing structures except for part shown to be poured after falsework has been removed, and the floor slab shall be finished in accordance with Section 29 of the Standard Specifications.

The handrail shall not be poured untill after the falsework has been removed.

The following surfaces of the bridge shall be waterprooted: Back of abutments and wingwalls, from top of wall or slab to top of footing. Waterproofing shall be done in accordance with article 51.20 of the Standard Specifications.

The contract unit price for expansion bolts shall include furnishing, drilling holes, and setting expansion bolts.

TOTAL BILL OF MATERIAL

		Super.	Sub.	Total
Class "X" Concrete	Cu. Yds.	48.7	71.4	120.1
Handrail Concrete	Cu. Yds.	2.5		2.5
Reinforcement Bars	Lbs.	12420	3950	16370
Masonary Removal	Cu. Yds.	16.0	2.0	18.0
Name Plates	Each			One
Expansion Bolts	Each	8	36	44
Untreated Timber Piles	Lin. Ft.			780
Test Pile (Timber)	Each			One
Channel Excavation	Cu. Yds.			220
Class "A" Exc. For Structures	Cu. Yds.			180
Class "B" Exc. For Structures	Cu. Yds.			230
Structural Steel	Lbs.	1620		1620

DESIGNED	Edgard M. Esquer
CHECKED	George F. Hawkins
DRAWN	EMF R. Rash
CHECKED	[illegible]

MAR 4 1955
EXAMINED V. M. Romine — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED [illegible] — ENGINEER OF DESIGN
APPROVED R. R. Bartelsmeyer — CHIEF HIGHWAY ENGINEER

Loading H20

GENERAL PLAN & ELEVATION
S.B.I. RT. 86 SEC. 105-BY
WHITESIDE COUNTY
STA. 229+82