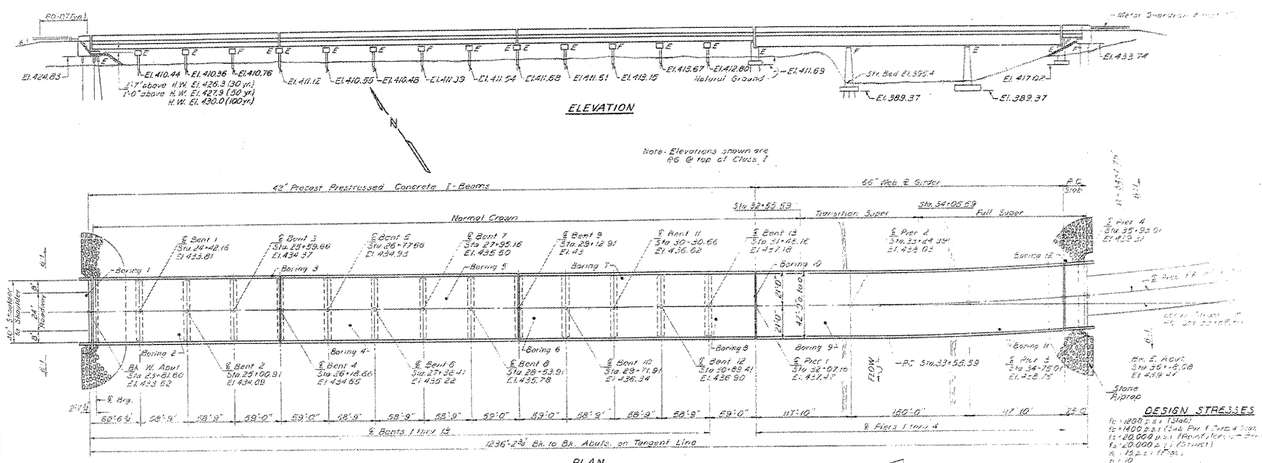
B.M. #2 A. Chiseled "+" on S.W. Wingwall of existing bridge. El. 428.28 - B.M. #3 Chiseled "+" on N.E. Wingwall of existing bridge. El. 428.28. Existing Structure: Built as S.B.I. 18 Sec. 1B, Sta. 35+41.56 in 1924, 1-170' Truss span, 23-R.C. D.S. @ 50' spans. Contractor shall remove existing structure after completion of proposed structure and roadway. Str. No. 091-0030 No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
1-1	1B-1					
F.A.I. 1SPUR	1-HRS	LAWRENCE	60	10	6	SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT				



WATERWAY INFORMATION

Drainage Area	2250 Sq. Mi.
Character	Silt & Clay
Required Opening	16,025 Sq. Ft.
Proposed Opening	18,023 Sq. Ft.
Existing Opening	18,023 Sq. Ft.

Design H.W. El. 427.5 (50 yr.)
Qpo = 54,600 c.f.s. ; Qexp = 60,000 c.f.s.
Creatinl Head = 0.9'
Note - P.G. established to provide 2'0" freeboard above 20 yr. D.H.W. El. 426.3 consistent with Relief Classification. 50 yr. criteria shown to protect against backwater damage

PROP. HORIZ. CURVE DATA

P.I. Sta. 42+03.88
P.C. Sta. 33+55.59
P.T. Sta. 50+16.05
Δ 27°43'16"
D 1°40'00"
T 848.29'
R 3437.75'
L 1660.27'
L' 1053.10'
S.E. 0.0347, allowed in 150'
Sta. 32+55.59 to Sta. 34+05.59

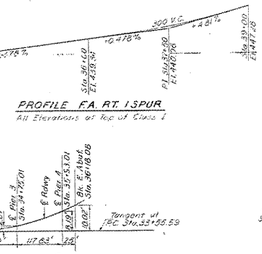
DESIGN STRESSES

fc = 1800 p.s.i. (Pier)
fc = 1400 p.s.i. (Bents, Pier & Piers 1 thru 4 Caps)
fc = 1,200 p.s.i. (Remaining Piers & Bents)
fs = 20,000 p.s.i. (Structural)
fv = 75 p.s.i. (Piles)
n = 10

PSR P.S.I. I BEAMS
fc = 2000 p.s.i.
fci = 4000 p.s.i.
fs = 20,000 p.s.i.
fsi = 40,000 p.s.i. (Top Strand)
fsi = 40,000 p.s.i. - 1/2 Strand

LOADING HS 20-44

Design Specifications AASHO 1957
No replicable
Allow 25# psf for future wear



DESIGNED	O. Lindholm	EXAMINED	March 2nd 1976 Carl E. Dammann
CHECKED	J. Mc Mil	PASSED	
DRAWN	H. P. Summer	APPROVED	
CHECKED			

PROJECT BRF-RF 70 (E)
GENERAL PLAN & ELEVATION
F.A. RT. 1 SPUR SEC. 1B-1
LAWRENCE COUNTY
STATION 23+99.54

74520
SHEET 6 OF 9