811.25

B.M. Railroad spike in power pole 82' Rt.
Sta. 331+94 Sta. 701.18
No existing structure.

STATE OF ILLINOIS

FOR INFORMATION ONLY
THIS SHEET IS FROM THE ORIGINAL PLANS AND IS TO BE USED FOR REFERENCE ONLY

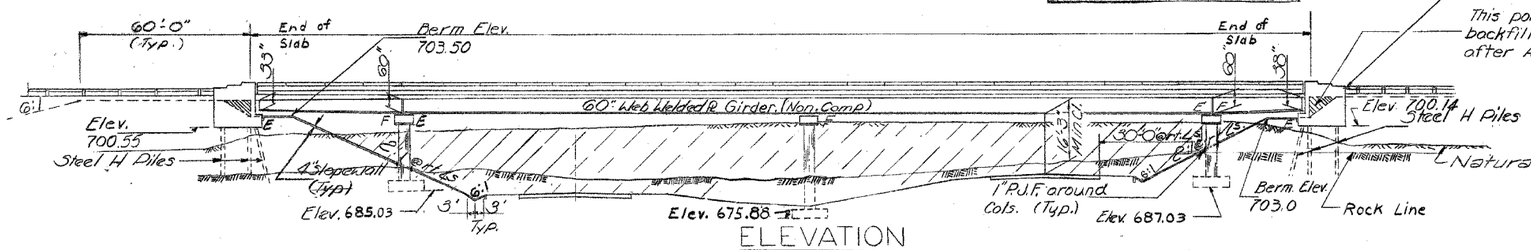
F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
24	*	**	189	153
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* X1-2,44(2,3,4)RS BSMARTFY04-4
** WILLIAMSON/JOHNSON
CONTRACT NO. 98758

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Federal F. A. I.	24 443HB	JOHNSON	187	26
FED. HIWAY DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
18 SHEETS

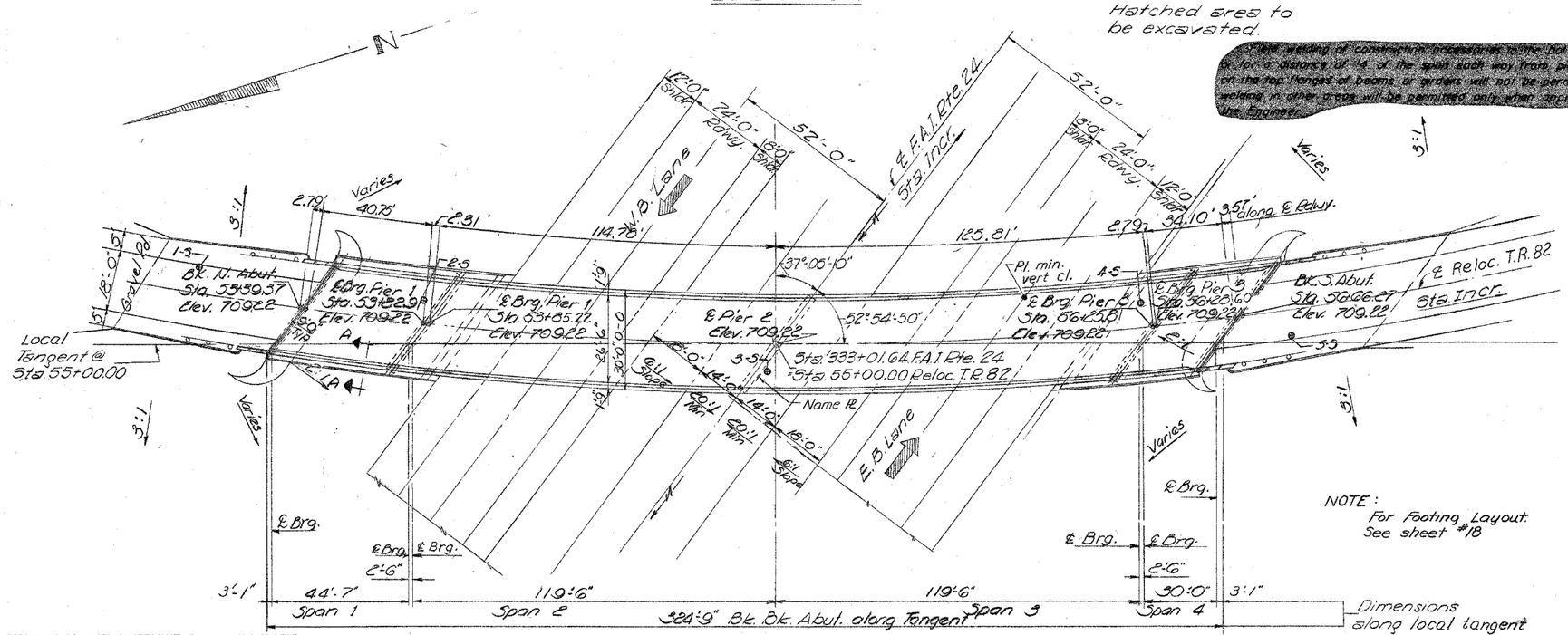
FA I. 24 x44-3HB



ELEVATION

Hatched area to be excavated.

"Field welding of construction accessories to the bottom flanges, for a distance of 4' at the splice each way from pier supports on the top flanges of beams or girders will not be permitted. Field welding in other areas will be permitted only when approved by the Engineer."



PLAN

NOTE:
For Footing Layout
See sheet #18

GENERAL NOTES

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

Field connections shall be bolted using high strength bolts. Bolts ¾" ϕ, open holes 13/16" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 353,380 lbs

The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.

Anchor bolts shall be set before bolting cross frames over supports.

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.

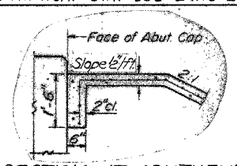
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

The Contractor shall drive two steel test piles in permanent locations, one each at North and South Abutment, as directed by the Engineer, before ordering remainder of piles.

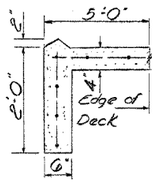
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Structure Excavation	Cu. Yds.		20	20
Protective Coat	Sq. Yds.	1160		1160
Class X Concrete	Cu. Yds.	298.7	215.1	513.8
Rock Excavation for Structures	Cu. Yds.		109.	109.
Neoprene Expansion Jt. (2")	Lin. Ft.	73		73
Structural Steel	L.S.	L.S.		L.S.
Aluminum Railing	Lin. ft.	646		646
Reinforcement Bars	lbs.	76,790	29,890	106,680
Steel Piles (HP8x36)	Lin. ft.		192	192
Test Piles - Steel (HP8x36)	Each.		2	2
Name Plates	Each.		1	1
Slope Wall (4")	Sq. Yds.			575

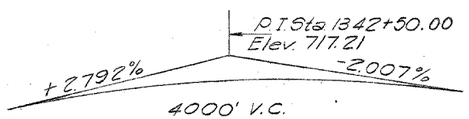
STATION EQUATION
EQ. P.O.T. STA. 333+29.18 ℄ F.A.I. 24
= 52' LT. EQ. P.C. STA. 1333+29.18 WBL.
= 52' RT. P.O.T. STA. 333+29.18 EBL.



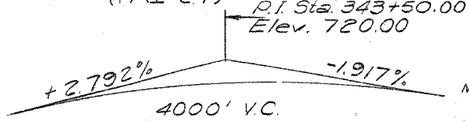
SECTION AT ABUTMENT



SEC. A-A



PROFILE W.B. LANE (℄ RDWY)
(FAI 24)

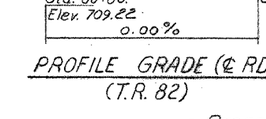


PROFILE E.B. LANE (℄ RDWY)
(FAI 24)

Note:
Allow 25#/□' for future wearing surface.

HORIZ. CURVE DATA (RELOC. T.R. 82)

Δ = 52°-33'-10"
D = 5°-43'-47"
T = 493.72'
L = 917.21'
E = 115.24'
R = 1000'
S.E. = .045 ½
P.I. Sta. 55+51.01
S.E. Attained Sta. 49+73 to Sta. 51+00
S.E. Removed Sta. 59+32 to Sta. 60+56

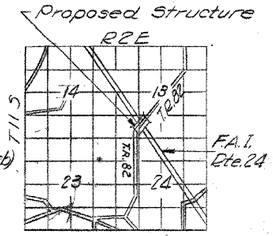


PROFILE GRADE (℄ RDWY)
(T.R. 82)

DESIGN STRESSES

f'c = 1400 psi. (Sub, parapet, curb)
fs = 20,000 psi. (Reinf)
fs = 20,000 psi. (Struct)
Vc = 75 psi. (Ftgs)
n = 10
fc = 1200 psi. (Deck Slab)

LOADING HS15-44
Allowable ℄ Deflection = 7650 (Non-Comp)



LOCATION PLAN

SN 044-0034

STATION 333+01.64
BUILT 19 BY
STATE OF ILLINOIS
F.A.I. RT. 24 SEC. 44-3HB
F.A. PROJ. I-24-1(45)
LOADING HS15

NAME PLATE
(See Std. 2113-1)

DESIGNED	Emile A. Sawaya
CHECKED	A. Keramati
DRAWN	M. Meyer C.E.W.
CHECKED	A.K.

DECEMBER 23 1965
EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

GENERAL PLAN & ELEVATION
T.R. 82 OVER F.A.I. RTE. 24
PROJ. I-24-1(45)4
F.A.I. RTE. 24 SEC. 44-3HB
JOHNSON COUNTY
STA. 333+01.64 (FAI 24)

Revised 2-3-70 W.H. Revised 6-30-71 W.H. Rev. 2-23-72 W.H.

Rev. 6-5-72