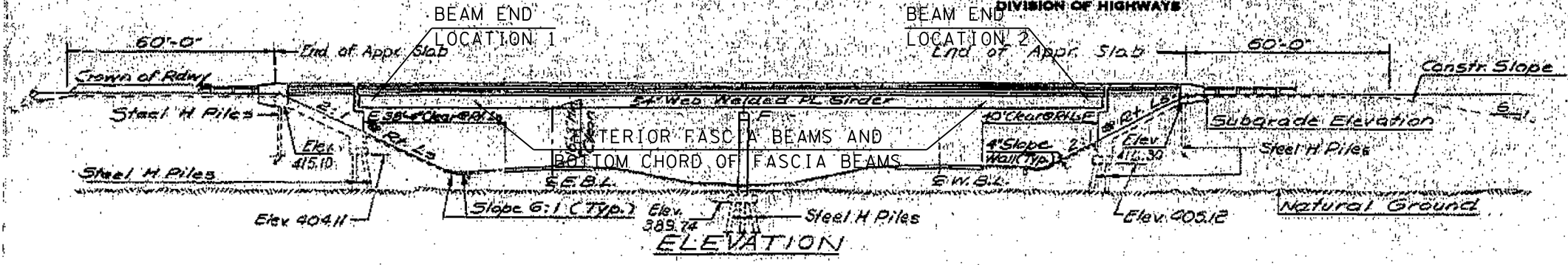


PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	2HB-1	MASSAC	105	58

B.M. #48 R.R Spike in West side 15" Gurn
250' Lt. F.A.I. 24 Sta. 417+97 El. 396.90

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



GENERAL NOTES

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

Field connections shall be bolted using high strength bolts. Bolts shall have open holes 1/4" unless otherwise noted.

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

Calculated Weight of Structural Steel = 229,470 lbs.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before riveting diaphragms over supports.

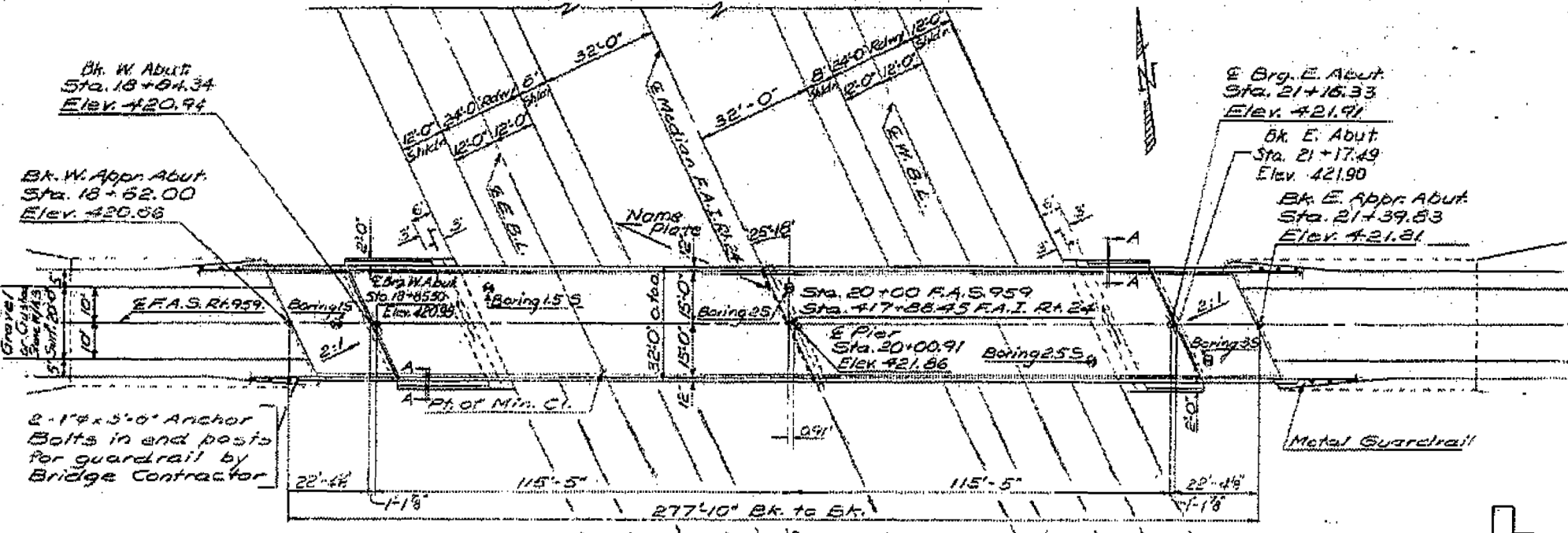
Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 55# per 100 sq.ft.

Class A Excavation for structures includes excavation for slope wall.

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 Standard Concrete.

The contractor shall drive two steel (68P36) test piles in permanent location, one at the West Abut. and one at the Pier as directed by the Engineer before ordering the remainder of piles.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class A Excav. for Structures	Cu Yds		83	83
Protective Coat	Sq Yds	925		925
Class X Concrete	Cu Yds	2934	2093	5027
Structural Steel	L.S.	0.5		0.5
Stud Shear Connectors	Each	1350		1350
Aluminum Railing	Lin Ft.	345		345
Reinforcement Bars	Lbs.	61,280	24,430	85,710
Steel Piles (68P36)	Lin Ft.		4303	4303
Test Piles steel (68P36)	Each		2	2
Name Plates	Each		1	1
Slope Wall (4')	Sq Yds			350
Sand Backfill	Cu Yds			255
Bridge Seat Sealant	L.S.		1	1

Station 417+88.45
Built 197 by
State of Illinois
F.A.I. Rte. 24 Sec. 64-2HB-1
F.A. Proj. I-24-1(42)
Loading HS 15

F.A.I.-24 (E.B. LANE) CURVE DATA

P.I. Sta. 405+84.08 L = 2255.44
Δ = 15°-54'-57"(RT) E = 84.00
D = 0°-45'-00" PC Sta. 394+48.09
R = 7639.44 PT Sta. 417+03.53
T = 1135.99 S.E. = 0.021 F/A
Attained Sta. 393+15.09 to Sta. 395+15.09
Removed Sta. 416+36.53 to Sta. 418+36.53
Remove Crown.

NAME PLATE
See Std 2113

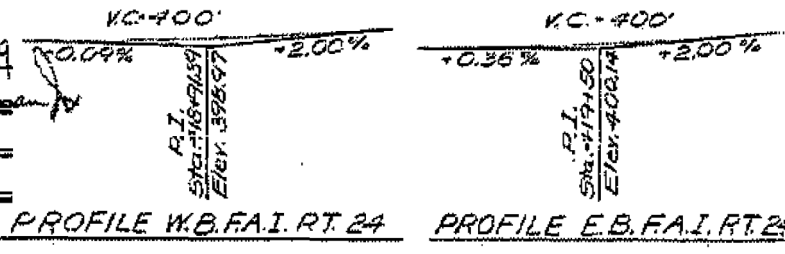
Note: Allowable Fut. Wearing
Surl = 25#/ft
Allowable 4' Defl. L/1200 Comp.

PROFILE FAS 959

SECTION A-A

DESIGNED	J. Smith
CHECKED	E. C. Smith
DRAWN	F. Mercado
CHECKED	ES.

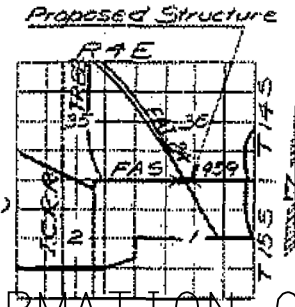
DESIGNED: J. Smith
CHECKED: E. C. Smith
DRAWN: F. Mercado
CHECKED: ES.



DESIGN STRESSES

f_c = 1200 psi (Deck Slab)
f_c = 1400 psi (Curb, Parapet, Sub.)
f_s = 20000 psi (Reinf.)
f_s = 20000 psi (Struct.)
v_c = 75 psi (Frgs.)
n = 10
Loading HS 15-44

**SECTION THRU SLOPEWALL
VAULTED ABUTMENTS**



GENERAL PLAN & ELEVATION
PROJECT: I-24-1(42)27
F.A.S. RT. 959 OVER F.A.I. RT 24
F.A.I. RT 24 SEC. 64-2HB-1
MASSAC COUNTY
STATION 20+00 (F.A.S. 959)
STATION 417+88.45 (F.A.I. 24)