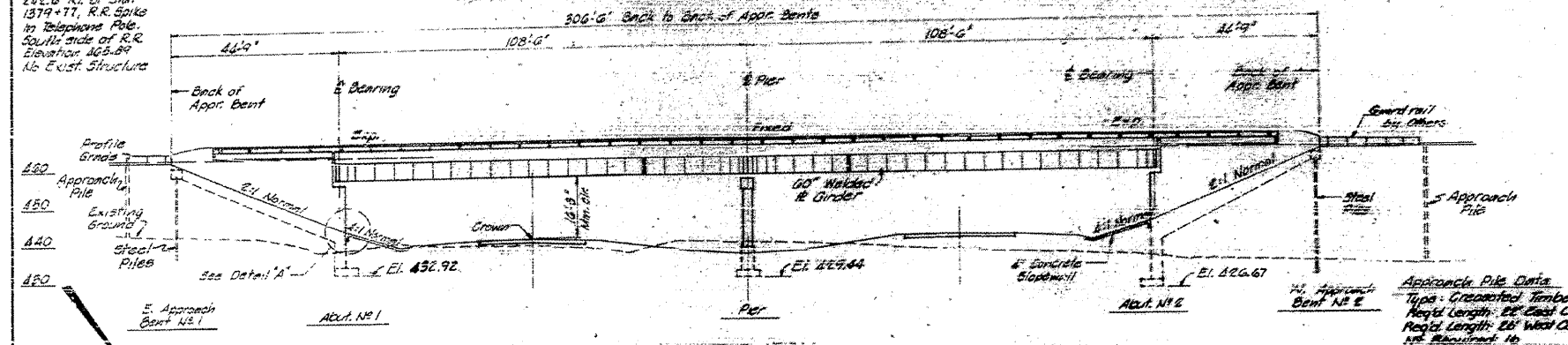


BENCH MARK *
242.0' R. of Sta.
1379+77, R.R. Spike
to Telephone Pole.
South side of R.R.
Elevation 465.89
As Exst. Structure

Sheet No. 1
of 14 Sheets

DATE	200	42
BY		
CHECKED		
APPROVED		



-GENERAL NOTES-

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

Field connections shall be bolted using high strength bolts. Bolts 3/4" Ø, open holes 13/16" Ø, unless otherwise noted.

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

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 bolting cross frames over supports.

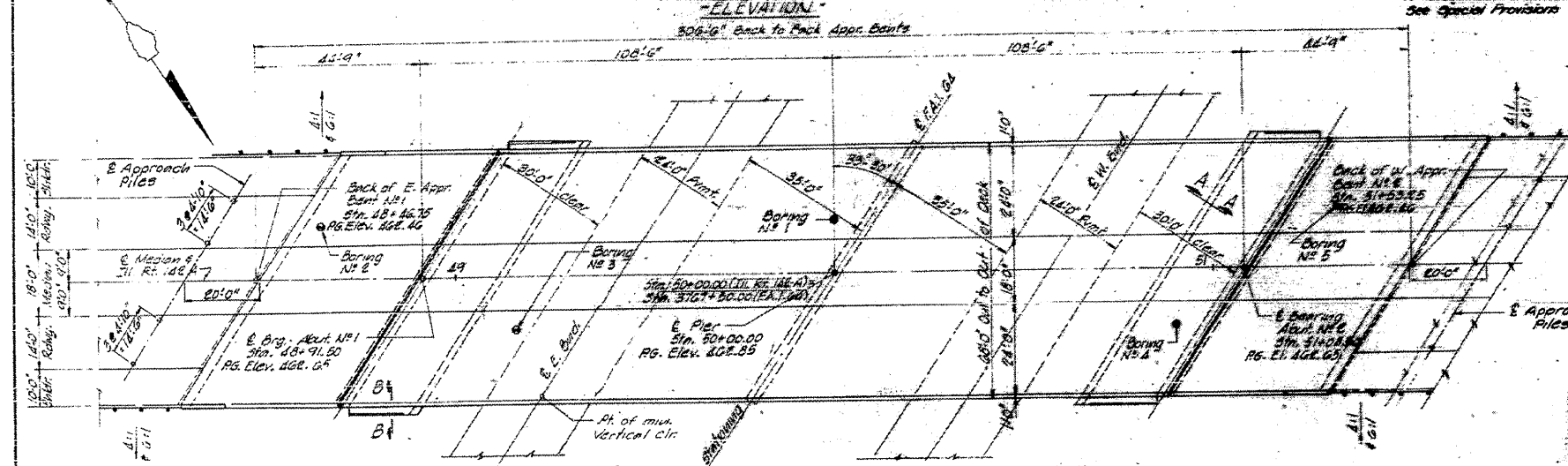
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq ft.

The Contractor shall drive 2 steel test piles in a permanent location at Bents No. 1 & 2 as directed by the Engineer before ordering the remainder of piles.

An alternate strand pattern using Extra High Strength Prestressing strand (270 KSI) is permitted.

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

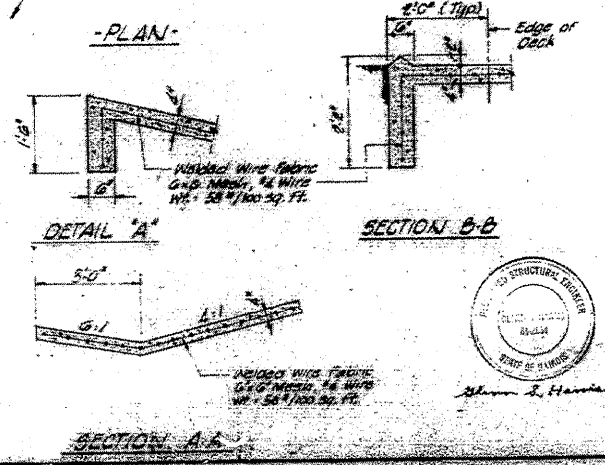
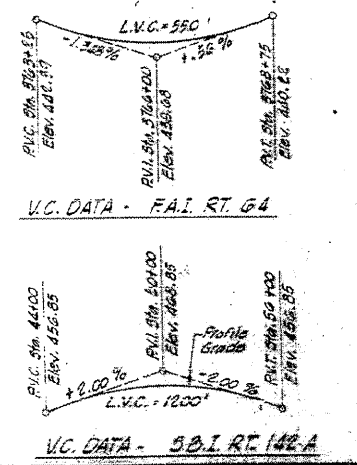
Calculated plan weight of Structural Steel = 507,910 lbs.



-DESIGN LOADING-
Live HS 20-44 AASHTO 1965 Specifications
Dead Load includes 25#/sq ft. of Roadway for future wearing surface.

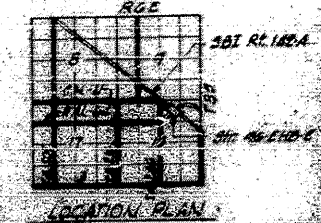
-DESIGN STRESSES-
F_c = 1400 p.s.i. Superstructure, Curbs & Parapets
F_c = 1200 p.s.i. Superstructure Slab
F_s = 75 p.s.i. Footings
F_s = 20,000 p.s.i. Reinforcing Steel
F_s = 20,000 p.s.i. Structural Steel (A-36)
n = 10
Live Load Deflection:
1/1000 for non-composite construction

-PRESTRESS BEAMS-
F_s = 5000 p.s.i.
F_s = 2000 p.s.i.
F_s = 238,000 p.s.i.
F_s = 178,500 p.s.i.



STATION 3167+30.00
BUILT BY
STATE OF ILLINOIS
F.A.I. 64 - 200 74-ENB-1
P.A. PROJECT 1-64-64
LORCHING NO 82

LETTERING FOR NAMEPLATE
(See Sta. 218-1)



TOTAL BILL OF MATERIAL

Item	UNIT	QUANTITY	UNIT PRICE	TOTAL
Precast Prestressed Deck - 2 Beam-30	Lin. Ft.	747	147	109,779
Class X Concrete	Cu. Yds.	TOTAL	109.7	14,171
Structural Steel	L.S.	507,910	1.0	507,910
Aluminum Railings	Lin. Ft.	516	5.64	2,912
Reinforcing Bars	Lin. Ft.	174,400	30.00	5,232,000
Crested Piles (20" to 30")	Cu. Yds.	3,25	7.92	25,740
Steel Piles - 24" dia	Lin. Ft.	2	2	4
Test Piles - 24" dia	Lin. Ft.	2	2	4
Protective Coat	Sq. Yds.	244.0	2.66	648.84
Name Plates	Each	1	4.10	4.10
Sign Posts (2")	Each	2	4.50	9.00
Clear Cut Connections for Structures	Cu. Yds.	47	4.7	220.9
Back Excavation for Structures	Cu. Yds.	1.0	1.0	1.0
Bridge Seal-Coater	L.S.	1.0	1.0	1.0

GENERAL PLAN AND ELEVATION
STATE OF ILLINOIS
DEPT. OF PUBLIC WORKS AND BUILDING
DIVISION OF HIGHWAYS
ST. LOUIS, MISSOURI PROJECT 1-64-64
LORCHING NO 82

13816

74529

LOCATION 3 SN 096-0032