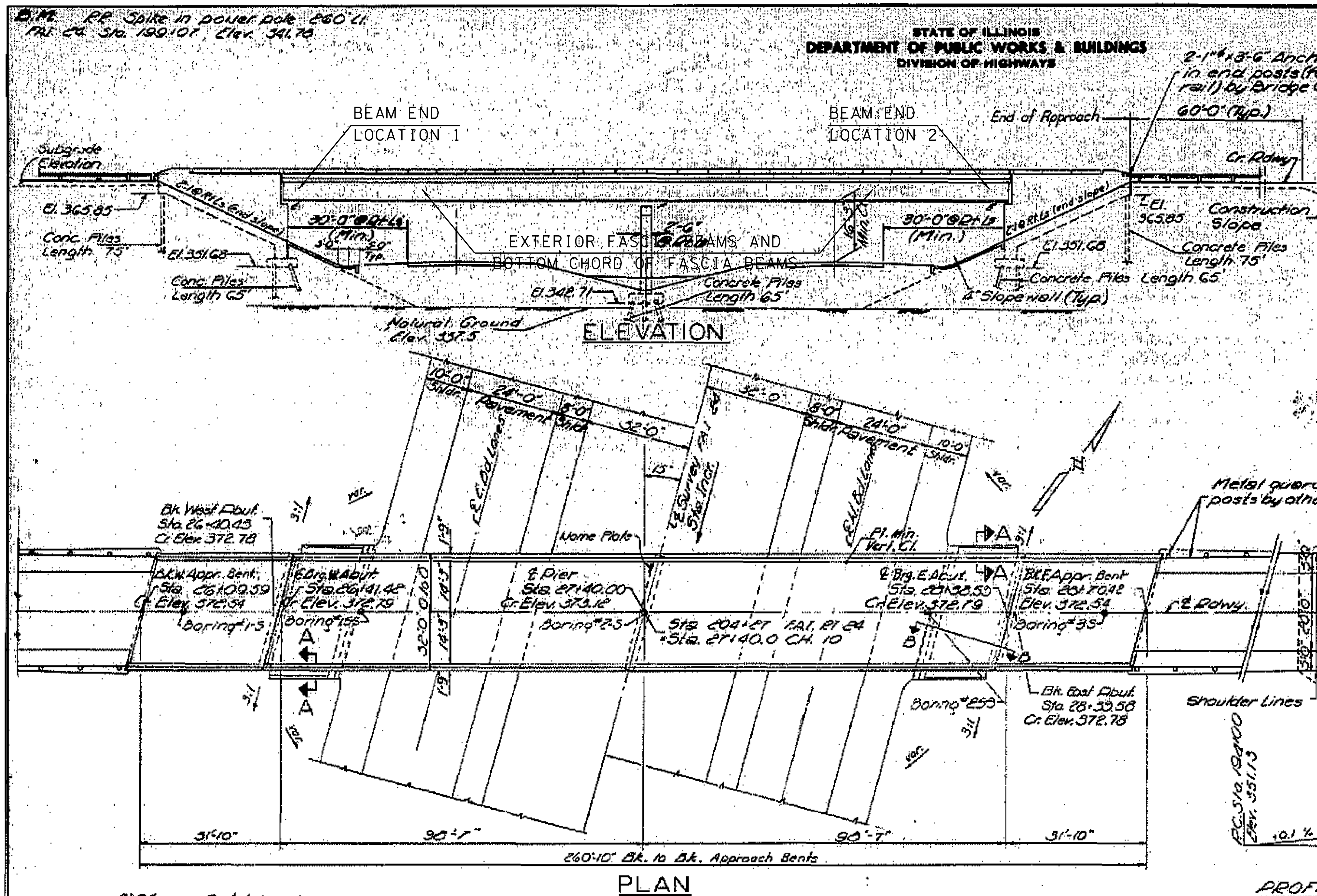
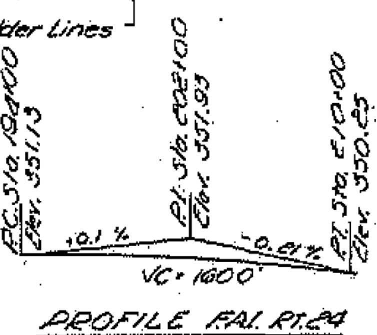
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

064-0016

B.M. RR Spike in power pole 260' Lt. FAI CH Sta. 199+07, Elev. 341.78





GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts ⅞"φ, open holes 15/16"φ, unless otherwise noted.

Calculated weight of Structural Steel = 205,140 Lbs.

The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.

Field welding of construction accessories will not be permitted to the bottom flange of 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 diaphragms over supports.

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

Concrete piles of abutments shall be driven in holes precored through the embankment in accordance with Article 513.09(c) of the Standard Specifications.

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.

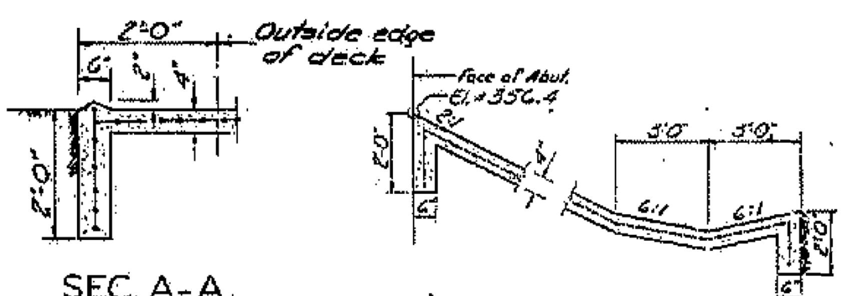
The Contractor shall drive three Concrete test piles in permanent locations, One at West Abutment; One at the Pier and One at East Appr. Bent, as directed by the Engineer before ordering the remainder of piles.

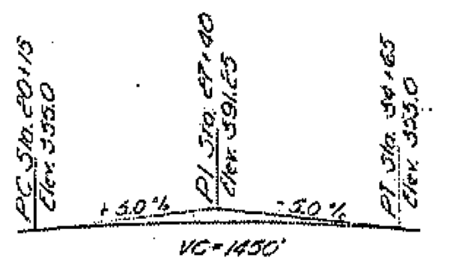
STATION 204+27
BUILT 19 BY
STATE OF ILLINOIS
F.A.I. RT. 24 SEC. 64-1HB-1
F.A. PROJ. I-24-1(39)
LOADING HS 15

NAME PLATE
(See Std. 2113)

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Protective Coat	Sq. Yds.	1020		1020
Class X Concrete	Cu. Yds.	269.1	219.3	488.4
P.P.C. I-Beams 36"	Lin. ft.	297		297
Structural Steel	L.S.	0.48		0.48
Stud Shear Connectors	Each	1590		1590
Aluminum Railing	Lin. ft.	479		479
Reinforcement Bars	Lbs.	56,930	18,110	75,040
Concrete Piles	Lin. ft.		3880	3880
Test Piles (Concrete)	Each		3	3
Name Plates	Each		1	1
Slopewall 4"	Sq. Yds.		210	210
Preformed Joint Sealer	Lin. ft.	66.0		66.0





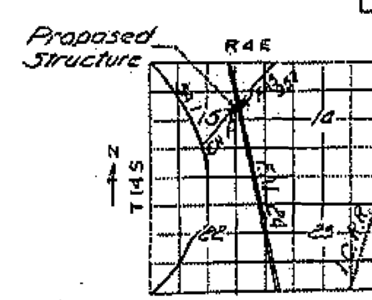
DESIGN STRESSES

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi.
f'ci = 4,000 psi.
f's = 248,000 psi (Strands 7/16"φ)
fsi = 173,600 psi (Strands 7/16"φ)

FIELD UNITS

f'c = 1,200 psi. Deck Slab
f'c = 1,400 psi. Sub, Curb, Parapet
fs = 20,000 psi. Reinf. & Struct.
Vc = 75 psi. Ftgs
n = 10 Allowable ℄ Deflection
LOADING HS 15-44



F.A. PROJ. I-24-1(39)25
GENERAL PLAN & ELEVATION
CH 10 (FAS 957) over FAI. RT. 24
FAI. RT. 24 SEC. 64-1HB-1
MASSAC COUNTY
STATION 204+27

DESIGNED	I. Kapor
CHECKED	Rao G.K.
DRAWN	D.W. Williams Sr.
CHECKED	Rao G.K.

FOR INFORMATION ONLY

* VARIOUS COUNTIES

FILE NAME = c:\pw_work\pwidot\dahmerja\d0384974\78419-sht-plan.dgn Default	USER NAME = Dahmerja	DESIGNED -	REVISED -
	PLOT SCALE = 2.7362 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 3/20/2014	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

064-0016
BIG BAY OVER I-24

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D9 BRIDGE PAINT 2014-2	*	22	15

CONTRACT NO. 78419

ILLINOIS FED. AID PROJECT