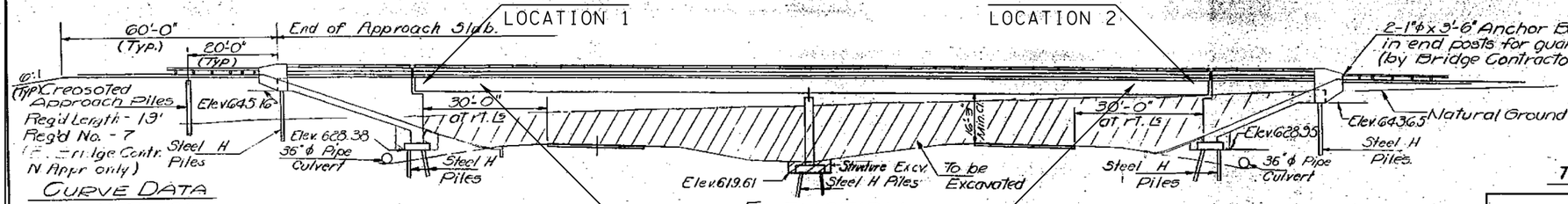
B.M.: #107-Orange Painted X Top of East Headwall
17' Lt. Sta. 584+54 Elev. 636.307

STATE OF ILLINOIS

044-0031

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B.R.I. P.A.I. 24	44-2HB-1	JOHNSON	127	21
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

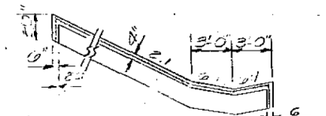
SHEET NO. 1
21 SHEETS



ELEVATION
EXTERIOR FASCIA BEAMS AND
BOTTOM CHORD OF FASCIA BEAMS

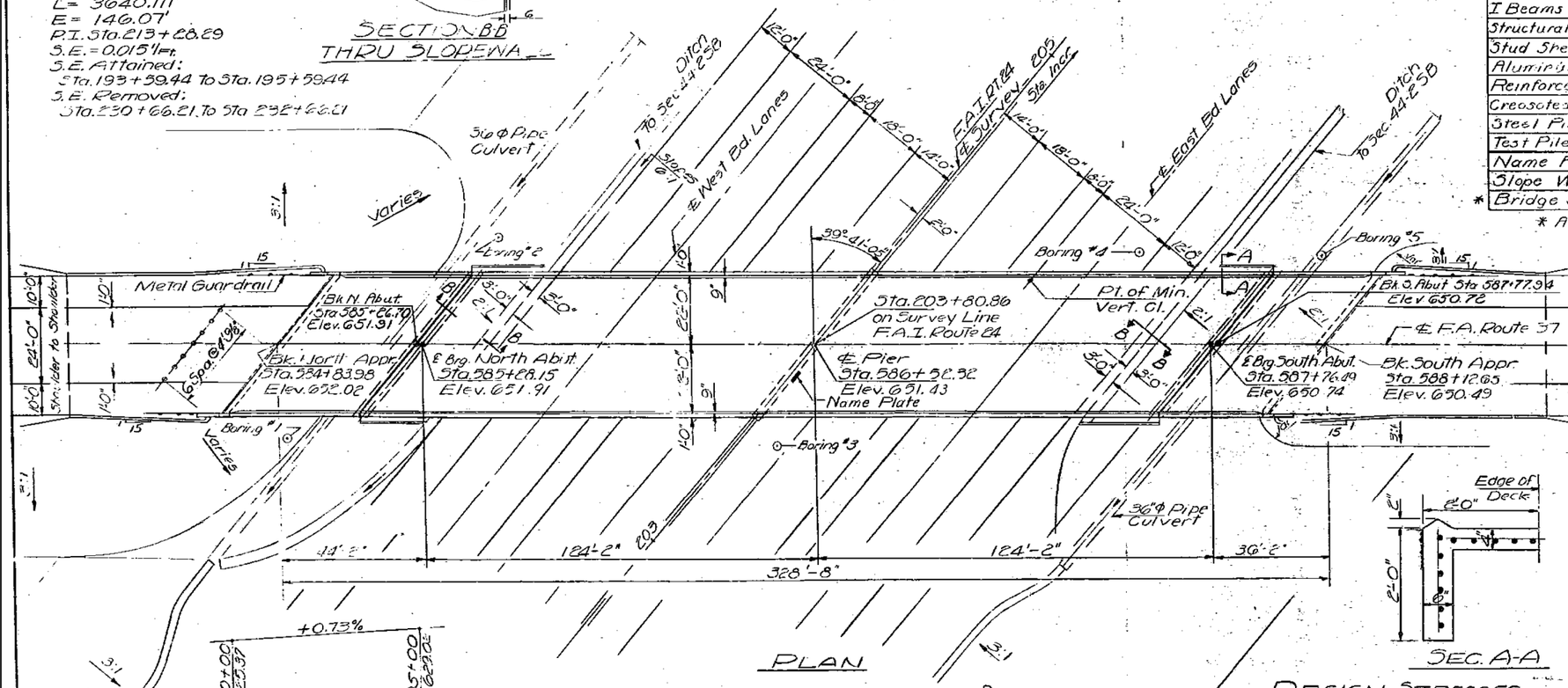
CURVE DATA
F.A.I. RT. 24

Δ = 18° 12' 02"
D = 00° 30' 00"
R = 11,459.156'
T = 1835.52'
L = 3640.111'
E = 146.07'
P.I. Sta. 213+28.29
S.E. = 0.015 ft.
S.E. Attained:
Sta. 193+39.44 to Sta. 195+59.44
S.E. Removed:
Sta. 230+66.21 To Sta. 232+66.21

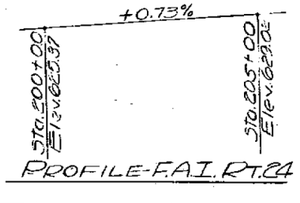


SECTION B-B
THRU SLOPE WALL

N



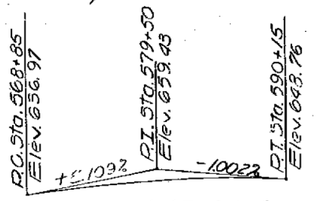
PLAN



PROFILE-F.A.I. RT. 24

STATION 203+80.86
BUILT IN BY
STATE OF ILLINOIS
FAI RT 24, SEC. 44-2HB-1
PROJ. I-IG-24-1(82)2
LOADING HS 20

NAME PLATE
Std 2113-1



L.V.C. = 2130'

PROFILE-F.A. RT. 37

TOTAL BILL OF MATERIALS

Item	Unit	Super.	Sub.	Total
Structure Excavation	Cu. Yd		370	370
Protective Coat	Sq. Yd	1820		1820
Class X Concrete	Cu. Yd.	493.9	412.9	906.8
Furnishing & Erecting P.P.C. I Beams 36"	Lin Ft	292		292
Structural Steel	L.S	0.3		0.3
Stud Shear Connectors	Each	2700		2700
Aluminum Railing	Lin Ft	644		644
Reinforcement Bars	Lbs.	132620	45350	177970
Creosoted Piles Up to 20'	Lin Ft		133	133
Steel Piles 10 BP 42	Lin. Ft.		2494	2494
Test Pile Steel 10 BP 42	Each		3	3
Name Plates	Each		1	1
Slope Wall 4"	Sq. Yd.		330	330
* Bridge Seat Sealer	L.S.		L.S.	L.S.

* At Abutments only.

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 = 409,350 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 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 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 steel test piles in a permanent location. One each at N. Abutment ; S. Abutment and Pier as directed by the Engineer before ordering the remainder of piles.

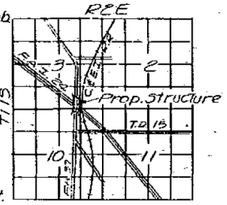
SEC. A-A

DESIGN STRESSES
FIELD UNITS

fc = 1200 psi. Deck Slab
fc = 1400 psi. Curb, Parapet, Sub
fs = 20,000 psi. Reinf.
fs = 20,000 psi. Struct.
Vc = 75 psi. Ftgs.
n = 10

PRECAST PRESTRESSED UNITS

ft = 5000 psi
fci = 4000 psi.
fs = 248,000 psi. Strands
fsi = 173,600 psi. Strands
Allowable Future W.S. 251 lbs/sq.ft.
Allowable ℄ Load for Composite



GENERAL PLAN & ELEVATION
F.A.I. RT. 24, SEC. 44-2HB-1
JOHNSON COUNTY
STA. 203 + 80.86

DESIGNED			
CHECKED	Girish T. Desai		
DRAWN	RKM		
CHECKED	SD		

EXAMINED April 24 1970
PASSED
APPROVED

FOR INFORMATION ONLY

* VARIOUS COUNTIES

FILE NAME = c:\pw_work\pwidot\dahmerja\d0384974\78419-sht-plan.dgn	USER NAME = Dahmerja	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 4.1994 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 3/20/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

044-0031
IL 37 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	6
			CONTRACT NO. 78419	
		ILLINOIS	FED. AID PROJECT	