CONTRACT NO.: 98882
ROUTE: VARIOUS
COUNTY: VARIOUS
SECTION: D-9 CONTRACT MAINTENANCE 05-7

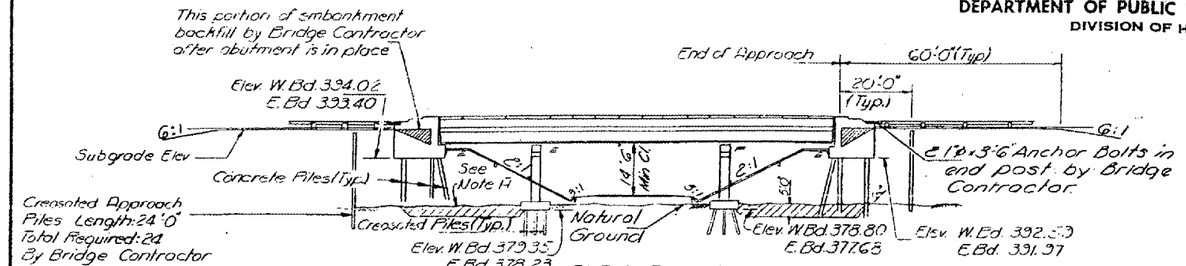
SHEET NO.: 36 OF 58

ROUTE NO.	SECTION			
FAI 24	64 2HB-2	MASSAC	57	18
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

18 SHEETS

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

BM: #11 Elev. 398.12 Bcal Spike in root of 26" Oak 212' Lt. of Station 141+24.

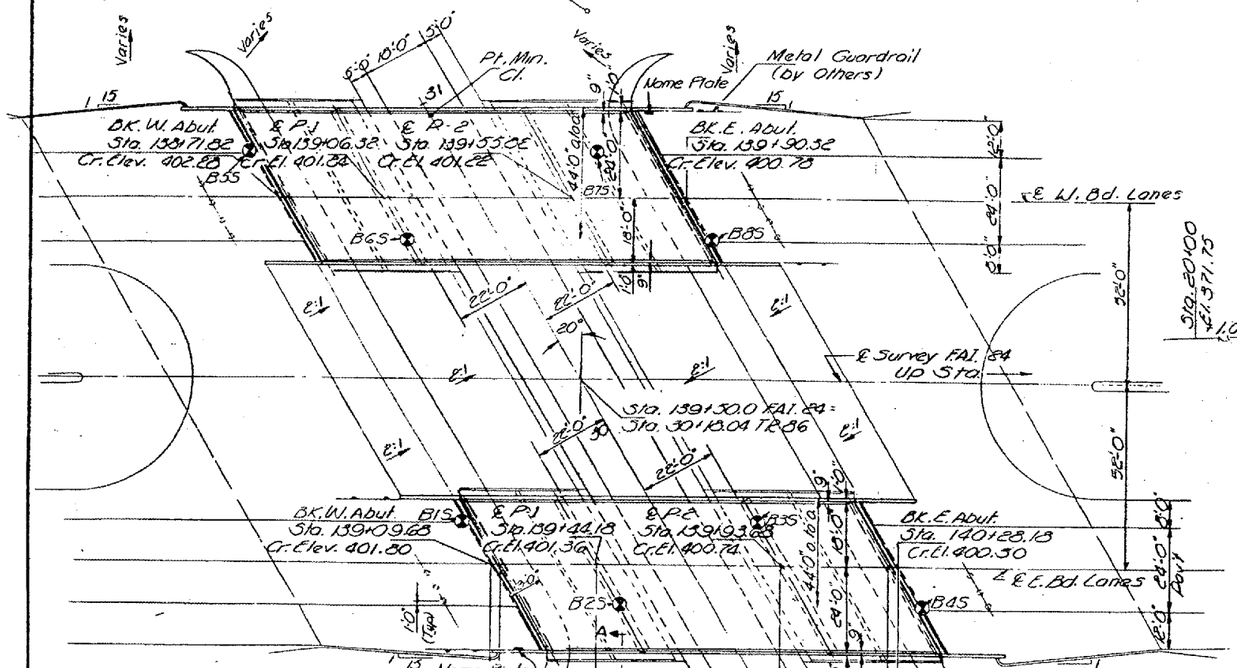


ELEVATION

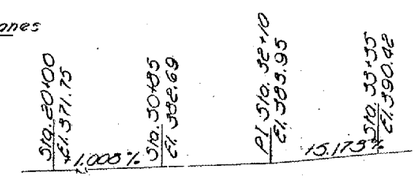
Note A:
Existing earth under abutment embankments shall be removed by the contractor before embankment cones are placed.
For Limits of removal see sheet 2.

STATION 139+50
BUILT IN BY
STATE OF ILLINOIS
F.A.I. RT 24 SEC. 64 2HB2
F.A. PROJ. I-24-1(55)
LOADING HS 20 & ALT.

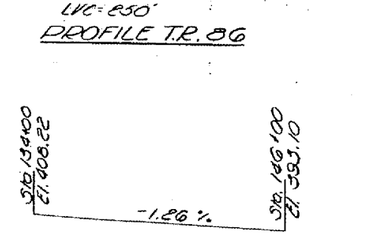
NAME PLATE
(See Std. 2113-1)



PLAN



PROFILE T.R. 86



PROFILE FAI. 24

El. 396.99 W. Abut. W. Bd. Lanes
396.36 W. Abut. E. Bd. Lanes
395.56 E. Abut. W. Bd. Lanes
394.93 E. Abut. E. Bd. Lanes

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" ϕ, open holes 13/16" ϕ unless otherwise noted.

The Basic Lead Silica 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 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 pouring End blocks over supports.

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

Concrete piles at 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.

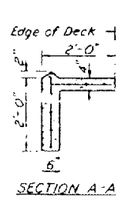
The contractor shall drive two Concrete Test Piles in a permanent location. One of the East Abut-East Bound Lanes; one of the West Abut-West Bound Lanes and two Timber Test Piles, One in the vicinity of Pier 1 of East Bound Lanes, one in the vicinity of Pier 2 of West Bound Lanes as directed by the Engineer before ordering the remainder of piles.

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.

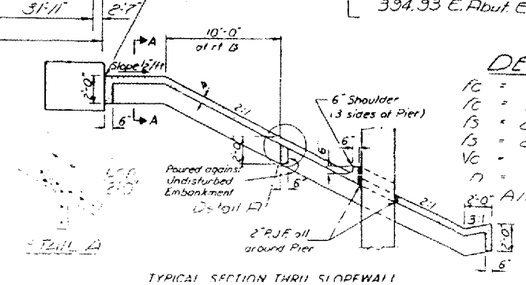
TOTAL BILL OF MATERIAL

Item	Units	Super	Sub.	Total
Class A Excavation for Structures	Cu. Yds.			70
Class X Concrete	Cu. Yds.	318.4	418.1	736.5
* Structural Steel	L. Sum	1		1
Reinforcement Bars	Lbs.	79,610	42,600	122,210
Concrete Piles	Lin. Ft.		1565	1565
Creosoted Piles (20' to 38' long)	Lin. Ft.		3067	3067
Aluminum Railing	Lin. Ft.	460		460
Preformed Joint Sealer	Lin. Ft.	189		189
Test Piles (Concrete)	Each		2	2
Test Piles (Timber)	Each		2	2
Slope Wall (4)	Sq. Yds.			1130
Protective Coat	Sq. Yds.			1280
Name Plates	Each			2
Earth Excavation	Cu. Yds.			2750

* CALCULATED WEIGHT OF STRUCTURAL STEEL = 190,340 LBS.



SECTION A-A



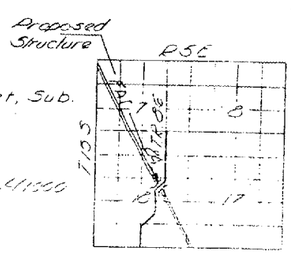
DETAIL A

TYPICAL SECTION THRU SLOPEWALL

DESIGN STRESSES

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
Allowable ℄ Deflection = L/1000

LOADING
HS 20-44 & ALT.



LOCATION SKETCH

DESIGNED	R.L.C.S.F.
CHECKED	
DRAWN	J.T.D.
CHECKED	

EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF BRIDGES
APPROVED — CHIEF HIGHWAY ENGINEER

FEBRUARY, 2019

FOR INFORMATION ONLY:

BRIDGE NO. 7 STRUCTURE 064-0025

BRIDGE NO. 8 STRUCTURE 064-0026