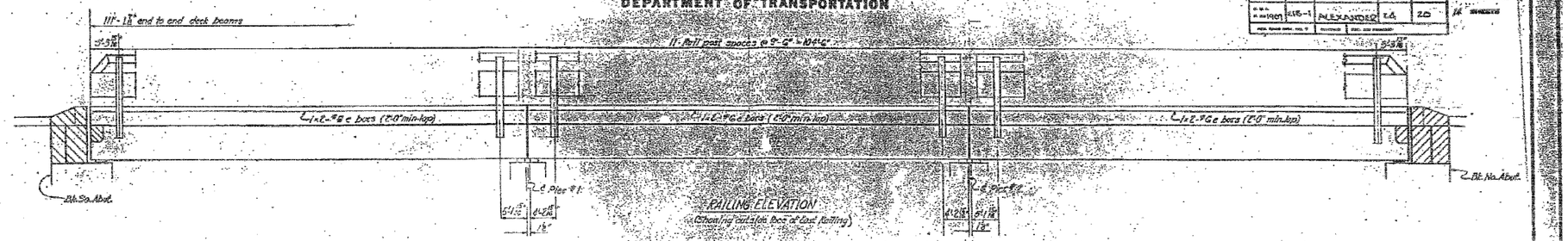
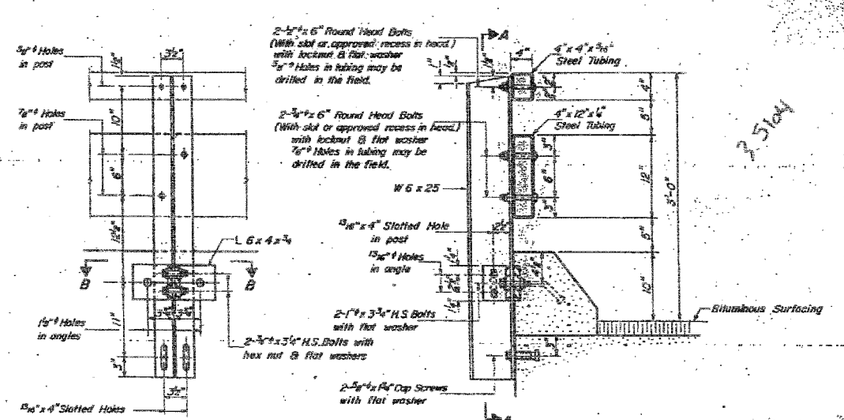
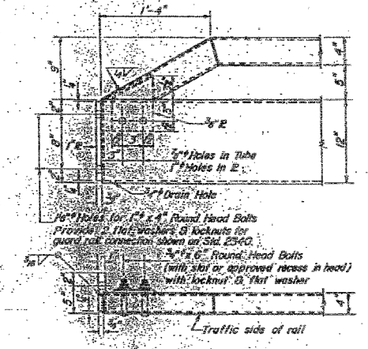
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

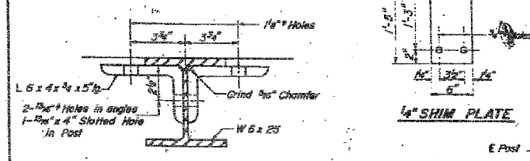
COUNTY NO.	SECTION	DESIGNATION	TOTAL SHEETS	SHEET NO.
0 0 1	21BR-1	ALEXANDER	2.0	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

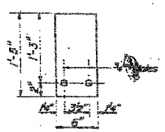
SHEET NO. 10

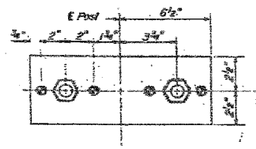


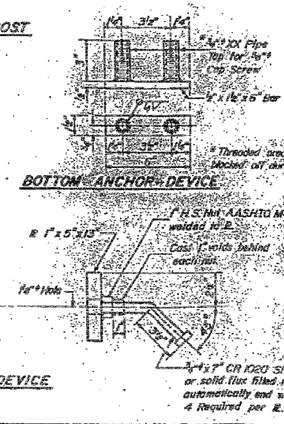


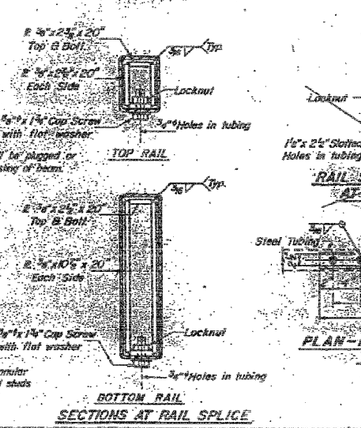


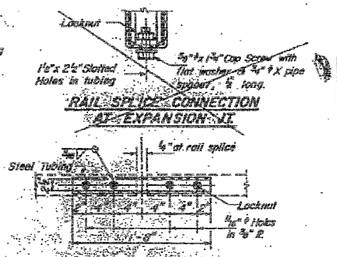












NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except posts and angles shall conform to AASHTO M-223, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and A.S.T.M. A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE T-1.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place ⅛" fabric bearing pad between the post and concrete.

The ¾" ϕ high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 507.04 (g)(3) of the Standard Specifications. The 1" ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ½ turn. The ⅝" ϕ cap screws in bottom of posts shall be tightened to a snug fit only.

For multi-span bridges, sufficient ½" x 6" x 1'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.

CURB & RAIL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	12	#6	19'-3"	
Reinforcement Bars			Lbs.	350
Class X Concrete			Cu. Yd.	9.1
Steel Railing, Type T-1			Lin. Ft.	222

TYPE T-1
STEEL RAILING
F.A.S. RT. 1907 SEC. 21B-1
ALEXANDER COUNTY
STA. 281+60.00

DESIGNED	Patrick M. Peters	July 9	19 82
CHECKED	Amy L. Brown	EXAMINED	James T. Rayburn
DRAWN	S.W.U.	FINISHED	
CHECKED	A.L.B.	APPROVED	

R-24A 8-30-80 (11'-0" Maximum Post Spacing)

MODJESKI and MASTERS
Consulting Engineers
SINCE 1893

FOR INFORMATION ONLY

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JMH	REVISED -
		DRAWN - AEC	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JMH	REVISED -
	PLOT DATE = $DATE$	DATE - 03/04/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1907	21BR-1	ALEXANDER	82	36
		CONTRACT NO. 78032		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		