ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 885	104BR-1	UNION	37	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

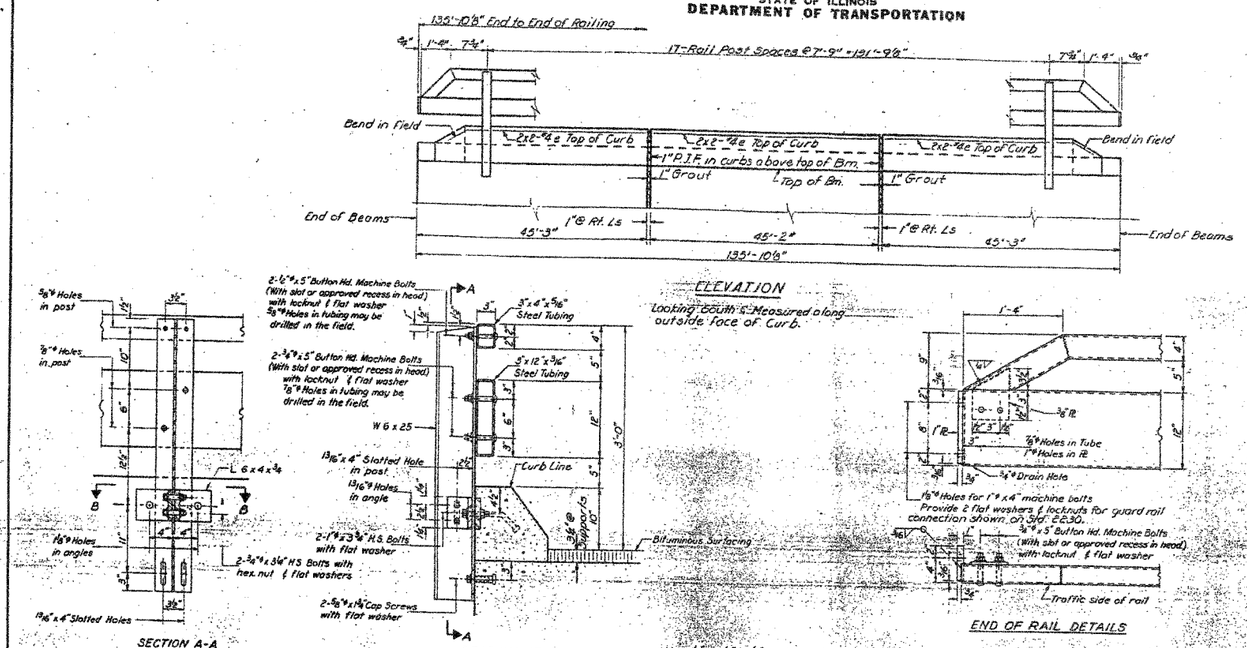
SHEET NO. 5
9 SHEETS

Contract # 78025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1151	104B-1	UNION	26	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
9 SHEETS



ELEVATION
Looking South & Measured along outside face of Curb.

SECTION A-A

SECTION AT RAIL POST

END OF RAIL DETAILS

NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of A.S.T.M. designation A-36 except posts shall conform to A.S.T.M. A-441.

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 A.S.T.M. designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.S.T.M. designation A-153.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with A.S.T.M. designation A-123 and A-385. Galvanized rail shall not be painted.

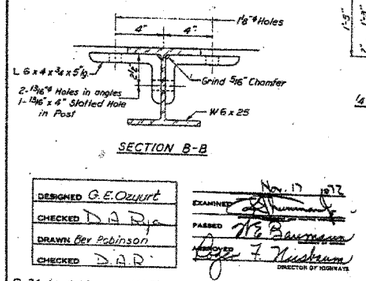
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE T.

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

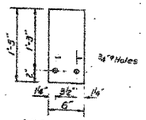
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.02 Type B or place ⅛" fabric bearing pad between the post and concrete.

The ¾"⊘ high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 710.11 of the Standard Specifications. The 1"⊘ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ½ turn.

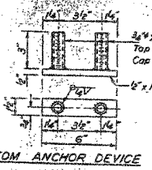
For multi-span bridges, sufficient 14"x 6'x 1'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.



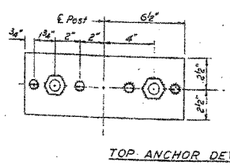
SECTION B-B



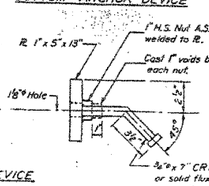
¼" SHIM PLATE

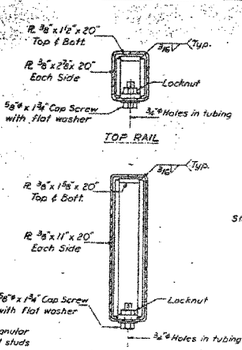


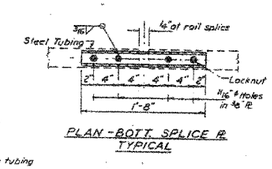
BOTTOM ANCHOR DEVICE



TOP ANCHOR DEVICE







PLAN - BOTT. SPLICE ℞ TYPICAL

CURB & RAIL
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
c	24	#4	29'-0"	
			(Spl.)	
Reinforcement Bars			Lbs.	370
Class X Concrete			Cu. Yds.	9.3
Steel Railing, Type T			Lin. Ft.	272

TYPE T
STEEL RAILING
F.A. RT. 31 SEC. 104B-1
UNION COUNTY
STA. 268+27.00

DESIGNED	G.E. Oswurt
CHECKED	D.A.D.
DRAWN	Rev. Robinson
CHECKED	D.A.D.

EXAMINED Nov. 17 1977
PASSED W. B. Barnhart
DIRECTOR OF HIGHWAYS
Roger F. Nusbaum

R-24 (12-10-71) (9'-0" Maximum Post Spacing)

PLOT DATE = 12/03/2007
FILE NAME = IB24-32-existing-structure.dgn
PLOT SCALE = 0.0000 '/ IN.
USER NAME = CFC

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
EXISTING STRUCTURE PLANS

PROJECT
IL ROUTE 146 OVER DUTCH CREEK
FAP ROUTE 885 SECTION 104BR-1
UNION COUNTY
STATION 268+27.00
STRUCTURE NUMBER 091-0059

PROJECT NO. 06056-5
SCALE
DATE / /
DRAWN BY CFC
CHECKED BY MCB/BD
DRAWING NO. 5

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

OF 9 SHTS