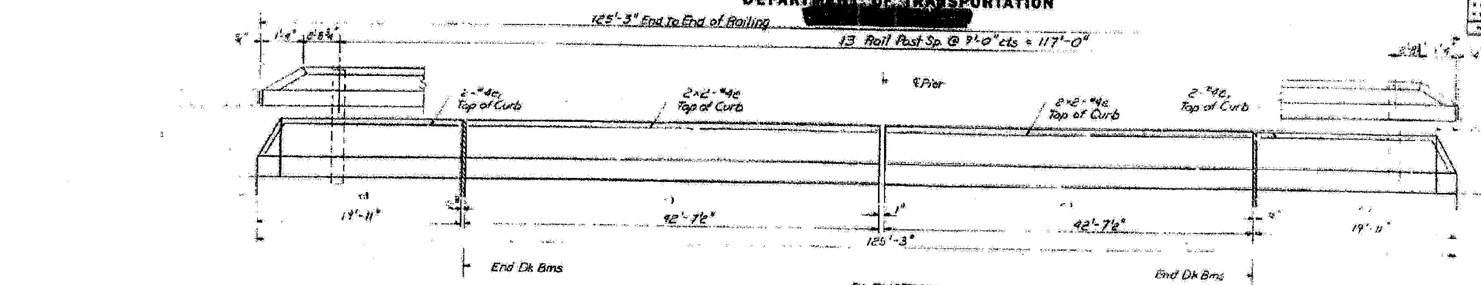
FOR INFORMATION ONLY

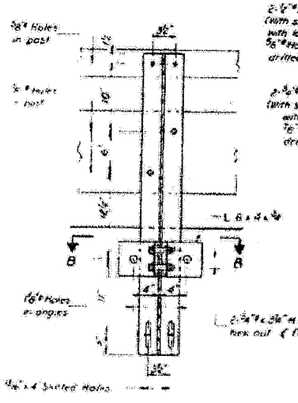
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 328	*	CLAY	61	48
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT -	

SHEET NO. 5
13 SHEETS

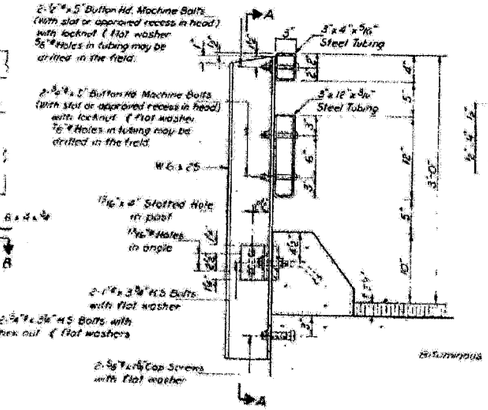
CONTRACT NO. 74037 * (6BR-21B-1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

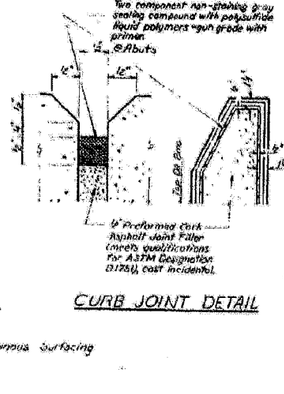




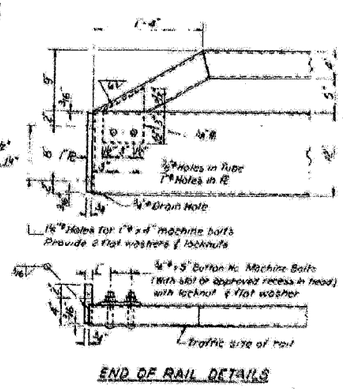
SECTION A-A



SECTION AT RAIL POST



CURB JOINT DETAIL



END OF RAIL DETAILS

NOTES

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

All other steel shapes and plates shall conform to the requirements of ASTM designation A-36 except posts shall conform to ASTM A-499.

Bolts, nuts, and screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and tack welding shall be galvanized or cooperate with ASTM designation A-153.

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

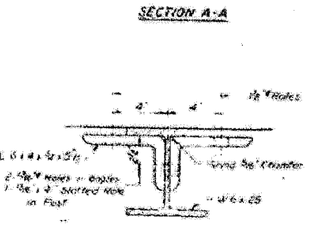
Welding shall be in accordance with Section 505 of the Standard Specifications, except as noted, and shall be done by an approved welder per latest Bridge Memo 505.01, Road Mill, Type 1.

All field drilled holes shall be 13/16" in diameter with an approved drill motor before erection.

The flange portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1080.04 Type B in place of fabric bearing pad between the post and concrete.

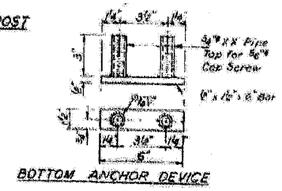
The ¾"ø high strength bolts used to connect the 6" x 4" x ½" angles to the post shall be tightened in accordance with Article 505.07 of the Standard Specifications. The 1"ø high strength bolts connecting the angles to the crossmember shall be "tightened to a snug fit and driven an additional ⅓ turn.

For installation purposes, sufficient ⅜" x 3" x 8" galvanized steel shims shall be provided to adjust rail between adjacent posts. Cost incidental to Steel Railing.

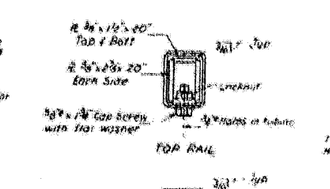


SECTION B-B

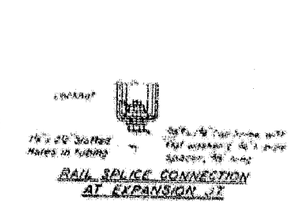
¾" SHIM PLATE



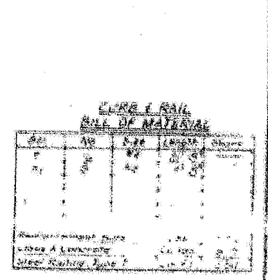
BOTTOM ANCHOR DEVICE

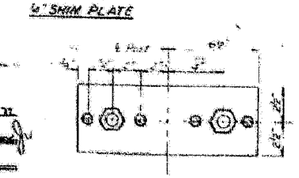


TOP RAIL

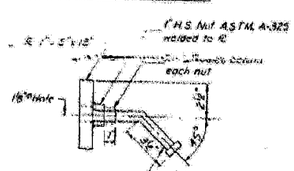


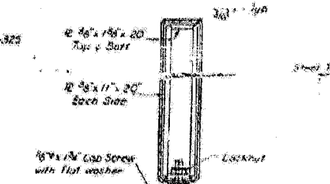
RAIL SPLICE CONNECTION AT EXPANSION JT



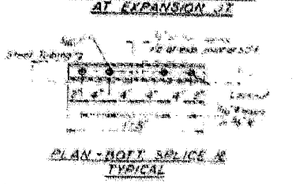


TOP ANCHOR DEVICE





BOTTOM RAIL SECTIONS AT RAIL SPLICE



PLAN - RAIL SPLICE @ TYPICAL

DESIGNED	G.E. Oswald
CHECKED	J.P. Hulett
DRAWN	J.E.D.
CHECKED	J.P.H.

CHECKED	
DRAWN	
TRACED	
DESIGNED	
QUANTITIES	
CHECKED	
APPROVED	

R-28 (6'-10" to 8'-0" Maximum Post Spacing)

TYPE 1 STEEL RAILING IN ACCORDANCE WITH STANDARD CLAY COUNTY STA 1510+00

EXISTING BRIDGE PLANS