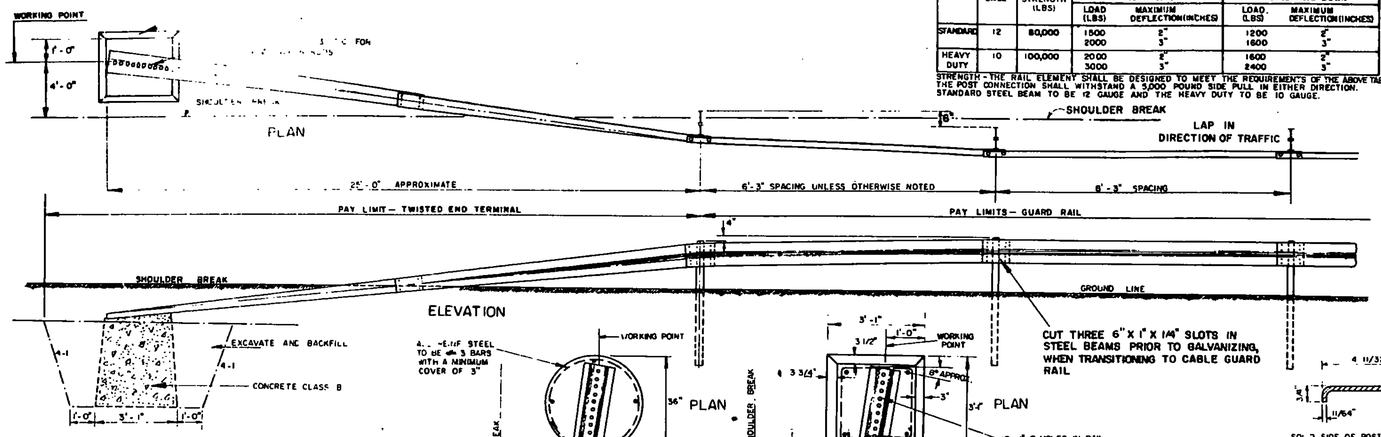
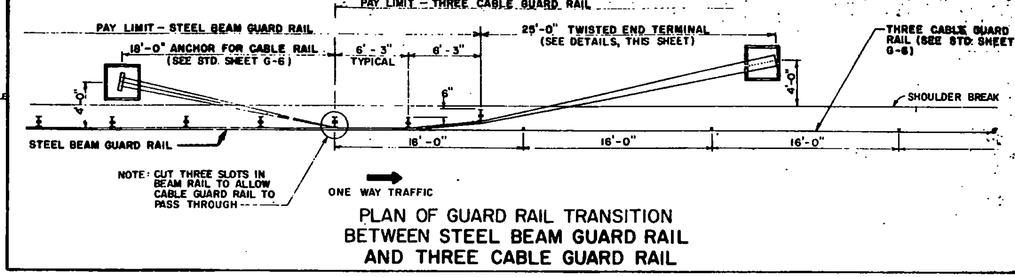
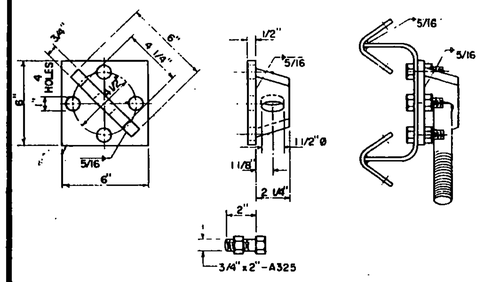
BEAM	MIN. GAGE	TENSILE STRENGTH (LBS)	RAIL OR JOINT STRENGTH			
			TRAFFIC FACE UP		TRAFFIC FACE DOWN	
			LOAD (LBS)	MAXIMUM DEFLECTION (INCHES)	LOAD (LBS)	MAXIMUM DEFLECTION (INCHES)
STANDARD	12	80,000	1500 2000	2" 3"	1200 1600	2" 3"
HEAVY DUTY	10	100,000	2000 3000	2" 3"	1600 2400	2" 3"

STRENGTH - THE RAIL ELEMENT SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF THE ABOVE TABLE. THE POST CONNECTION SHALL WITHSTAND A 5,000 POUND SIDE PULL IN EITHER DIRECTION. STANDARD STEEL BEAM TO BE 12 GAUGE AND THE HEAVY DUTY TO BE 10 GAUGE.

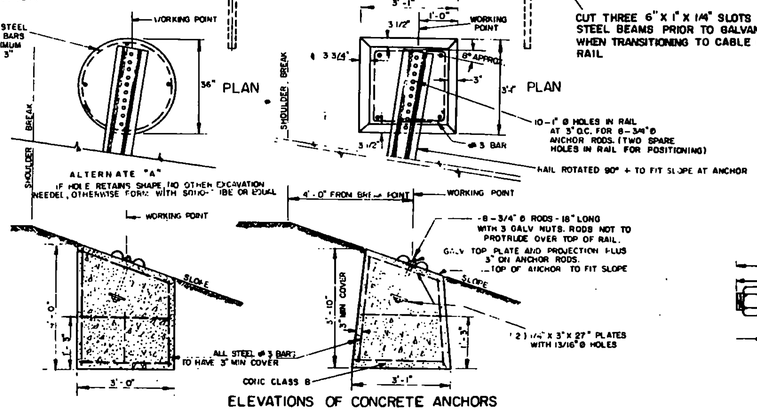




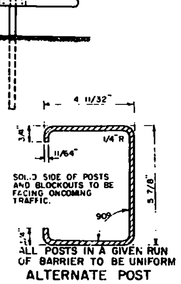
PLAN OF GUARD RAIL TRANSITION BETWEEN STEEL BEAM GUARD RAIL AND THREE CABLE GUARD RAIL



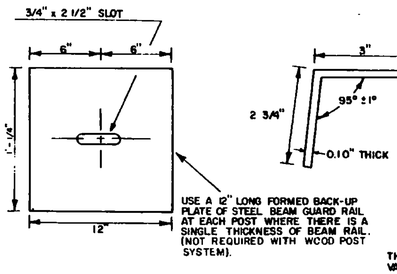
ALTERNATE ANCHOR ROD CONNECTOR

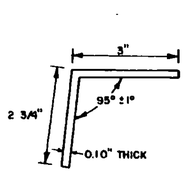


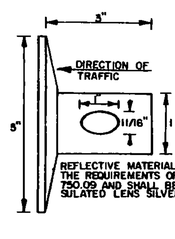
ELEVATIONS OF CONCRETE ANCHORS

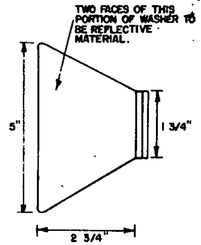


ALTERNATE POST

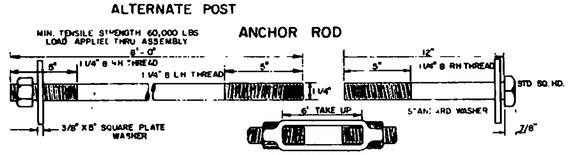






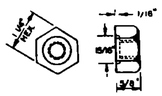


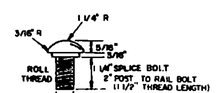
THIS REFLECTORIZED ALUMINUM WASHER IS TO BE PLACED IN VALLEY OF BEAM WHEN MOUNTING BEAM ONTO EACH FIFTH POST. WASHER SHALL MEET SPECIFICATION REQUIREMENTS FOR ASTM B 209 ALLOY 5052 - H32.

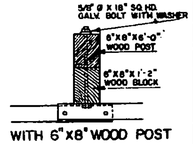


ANCHOR ROD

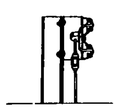
TURNBUCKLE

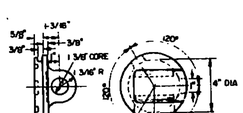




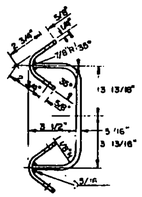


WITH 6"X8" WOOD POST

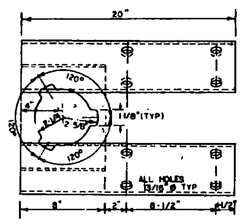


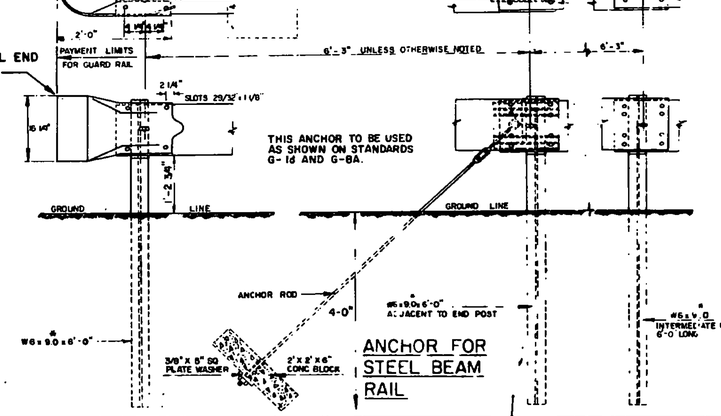


ANCHOR ROD CONNECTOR
(MALLEABLE IRON CASTING OR EQUAL)

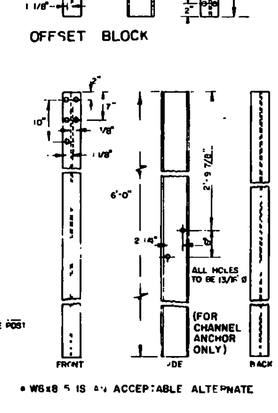


ANCHOR SPIDER
(WELDMENT)



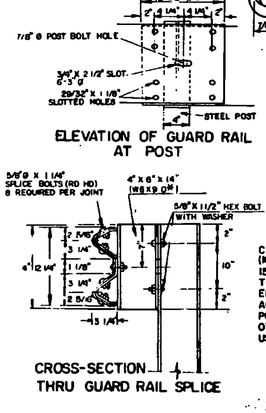


ANCHOR FOR STEEL BEAM RAIL



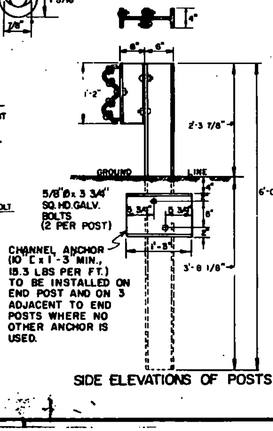
OFFSET BLOCK

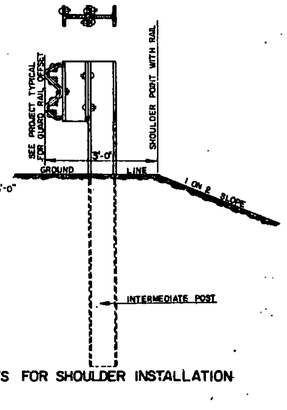
* W6x8.5 IS AN ACCEPTABLE ALTERNATE



ELEVATION OF GUARD RAIL AT POST

CROSS-SECTION THRU GUARD RAIL SPLICE





SIDE ELEVATIONS OF POSTS FOR SHOULDER INSTALLATION

REVISIONS AND CORRECTIONS	
APR. 10, 1972	POST HEIGHT INCREASED
JULY 9, 1973	NEW TRANSITION DETAIL ADDED
JUNE 4, 1974	TRANSITION REVISED, ALTERNATE ANCHOR ROD CONNECTOR AND ALTERNATE POST ADDED
NOV. 29, 1977	ANCHOR DETAIL FOR STEEL BEAM GUARD RAIL WITH STEEL OR WOOD POSTS REMOVED.
JAN. 17, 1978	REVISED ANCHOR DETAIL.
JUNE 1, 1978	CHANNEL ANCHOR DETAILS CHANGED
MAY 28, 1979	NOTE ON REFLECTIVE MATERIAL CHANGED
DEC. 16, 1980	INCREASED SHOULDER WIDENING FOR GUARD RAIL.
MAR 12, 1984	REVISED ANCHOR SPIDER DETAILS
JUNE 5, 1984	POST SIZE AND BACK UP PLATE NOTE CHANGED
DEC. 21, 1984	REMOVED POST WASHER
OCT. 31, 1985	REVISED TO CONFORM WITH 1986 SPECIFICATIONS

APPROVED: Dec 8, 27

R.V. Arnold
CHIEF ENGINEER

E.H. Stickney
ASST. CHIEF ENGINEER

G. M. Lane
HIGHWAY ENGINEER

STEEL BEAM GUARD RAIL
HEAVY DUTY STEEL BEAM GUARD RAIL
TWISTED END TERMINAL
ANCHOR FOR STEEL BEAM RAIL

G-1