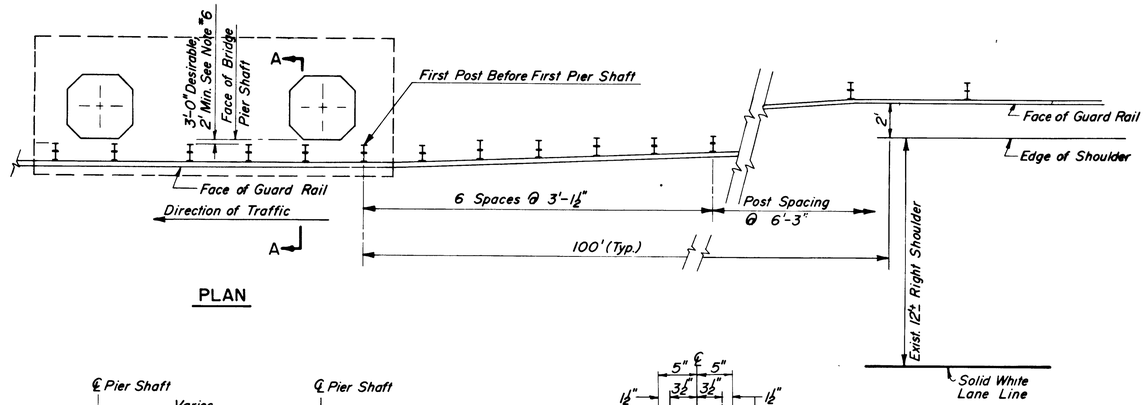
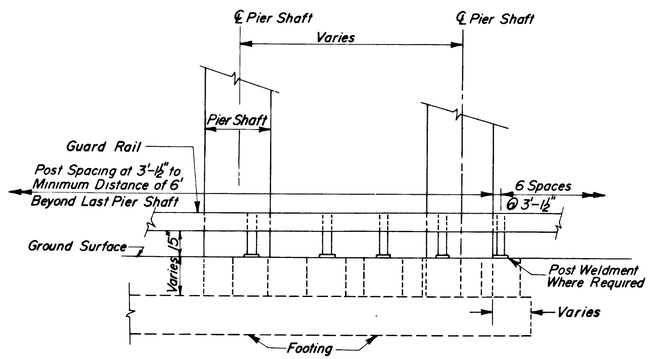
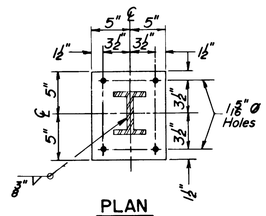


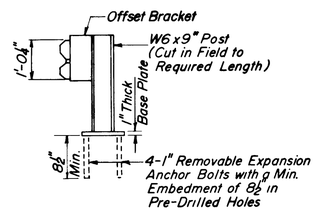
PLAN



ELEVATION



PLAN

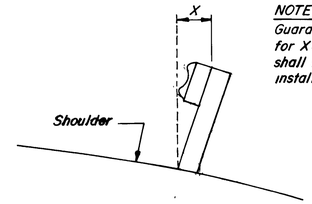


ELEVATION

TYPICAL GUARD RAIL INSTALLATION AT BRIDGE PIERS

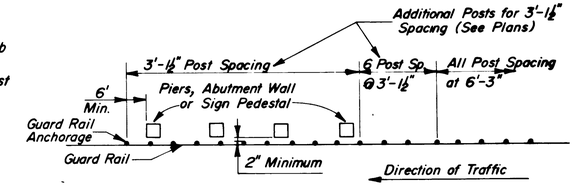
Scale $\frac{1}{4}$" = 1'-0"

POST WELDMENT DETAILS

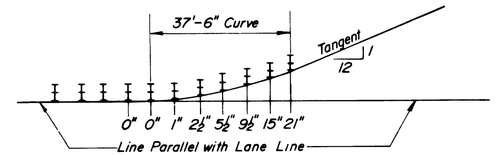


NOTE:
Guard rail shall be set plumb for X ≤ 6". Guard rail post shall be removed and new post installed for X > 6

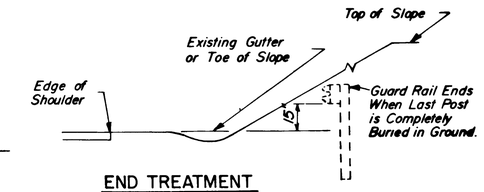
REMOVE GUARD RAIL POST



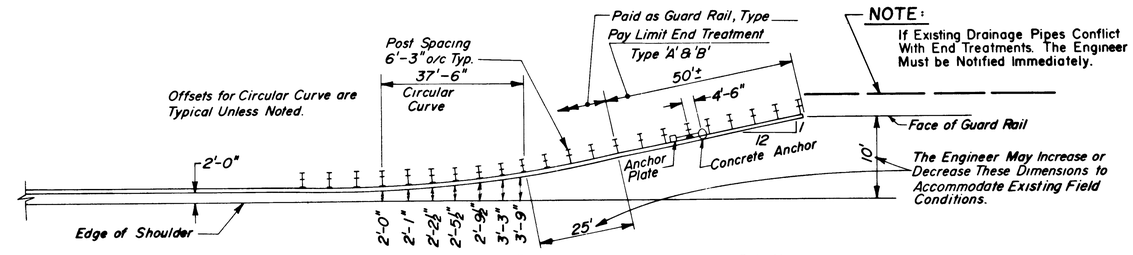
ADDITIONAL POST INSTALLATION AT PIERS, ABUTMENT WALL OR SIGN PEDESTALS



CIRCULAR CURVE OFFSETS



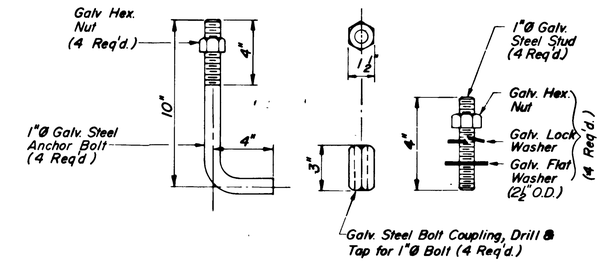
END TREATMENT TYPE 'A'



PLAN

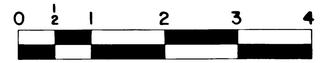
END TREATMENT TYPE 'A'

NOTE:
If Existing Drainage Pipes Conflict With End Treatments, The Engineer Must be Notified Immediately.



DETAIL A

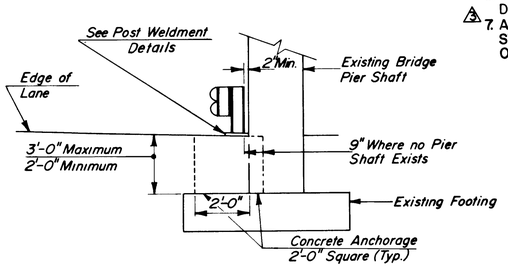
NOTES:
1. Anchor Bolts, Couplings & Studs – A.S.T.M. Designation A307, Class A.
2. Threading – 8 Threads per inch, N.C. Class 2.



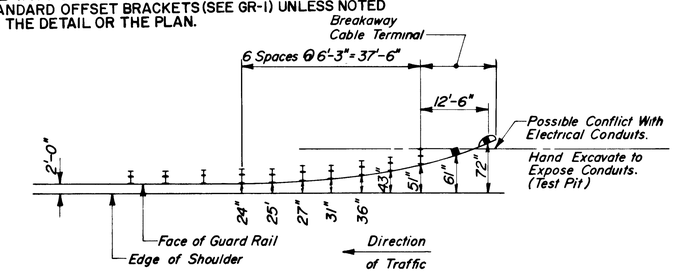
ORIGINAL SIZE IN INCHES

NOTES:

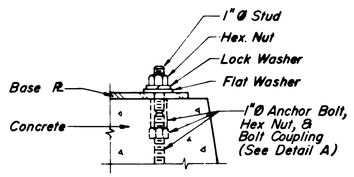
1. GUARD RAIL IS PAID FOR UNDER THE APPROPRIATE TYPE. ADDITIONAL POSTS REQUIRED TO REDUCE POST SPACING ARE PAID FOR UNDER "GUARD RAIL POST"
2. WHERE POST WELDMENTS ARE REQUIRED, PAYMENT WILL BE MADE FOR GUARD RAIL TYPE AND FOR EACH "POST WELDMENT."
3. POST WELDMENT SHALL BE USED WHERE A MINIMUM OF 3'-0" GUARD RAIL POST EMBEDMENT CANNOT BE OBTAINED.
4. POST WELDMENT INCLUDES THE CONCRETE ANCHORAGE.
5. PAYMENT FOR END TREATMENT, TYPE A OR B SHALL INCLUDE COST OF GUARD RAIL ANCHORAGE.
6. GUARD RAIL FACE SHALL BE SET A CONSTANT DIMENSION FROM SHOULDER.
7. △3 ALL W6x9 BRACKETS/OFFSET BRACKETS SHALL BE STANDARD OFFSET BRACKETS (SEE GR-1) UNLESS NOTED ON THE DETAIL OR THE PLAN.



SECTION A-A



MODIFIED GUARD RAIL FLARE



ALTERNATE CONCRETE ANCHORAGE DETAIL

APP.	NO.	DATE	REVISION
	3	10/01	Added Note 7
	2	12/96	Delete Type B and Add Post Removal
	1	5/88	Minor Revisions
		3/87	Reissued, Conforms to 1987 Specs.

NEW JERSEY TURNPIKE AUTHORITY

NEW JERSEY TURNPIKE

END TREATMENTS AND DETAILS

OFFICE OF THE CHIEF ENGINEER
NEW BRUNSWICK NEW JERSEY

1987 STANDARD DRAWING GR-5

CONTRACT NO. SHEET NO. OF