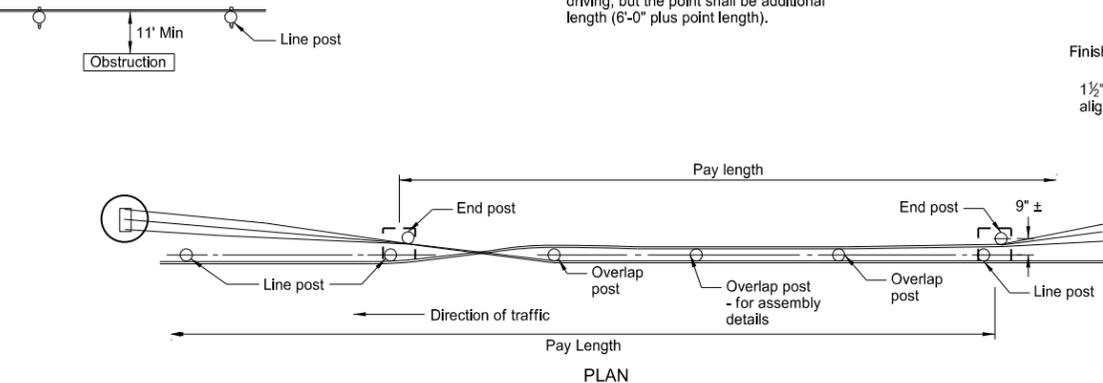
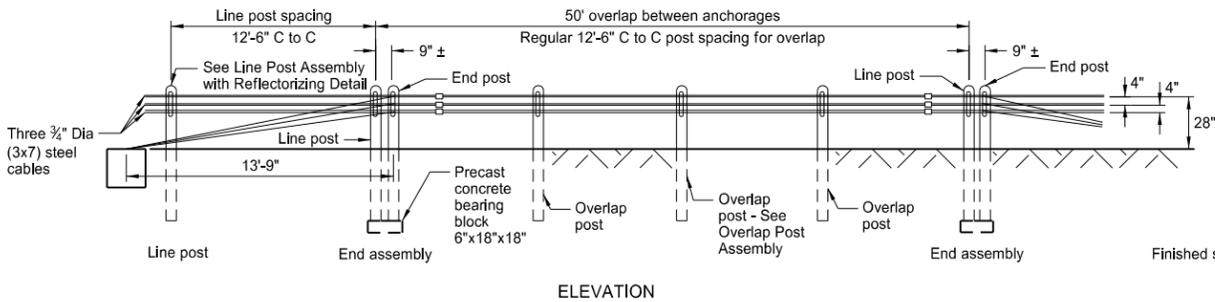


ASSEMBLY WITH END ANCHORAGES

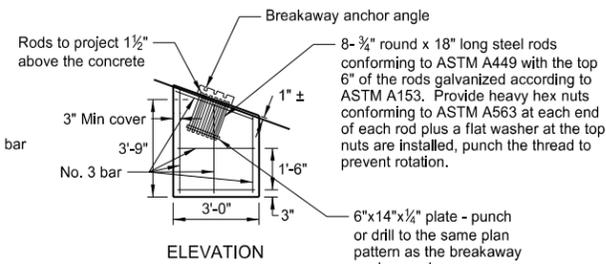
Note: Line post may be pointed to facilitate driving, but the point shall be additional length (6'-0" plus point length).



ASSEMBLY WITH INTERMEDIATE ANCHORAGES

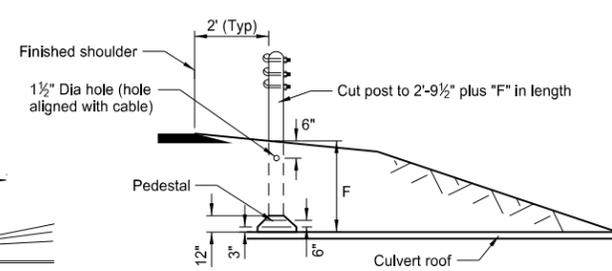


THREE CABLE GUARDRAIL



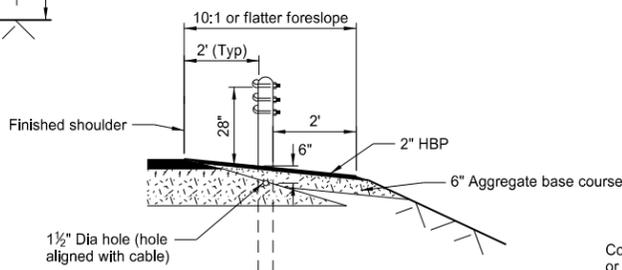
Foundation shall be class AE concrete and cast in place. The foundation shall be formed 6 inches into the ground and the top surface rubbed finished with the edges chamfered.

CONCRETE ANCHOR

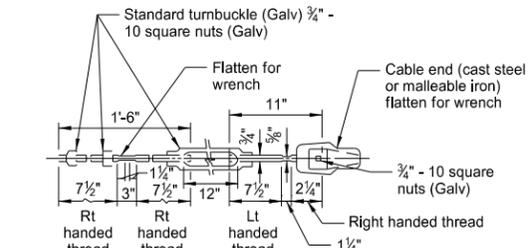


CONCRETE PEDESTAL AT CULVERTS (WHERE REQUIRED)

Detail of concrete pedestal for posts to be used over culverts or footings when dimension "F" is less than 3'-8".

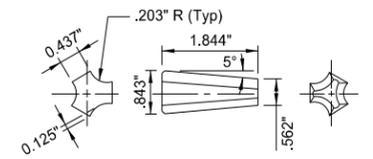


TYPICAL SECTION

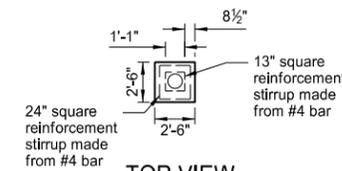


STEEL TURNBUCKLE CABLE END ASSEMBLY

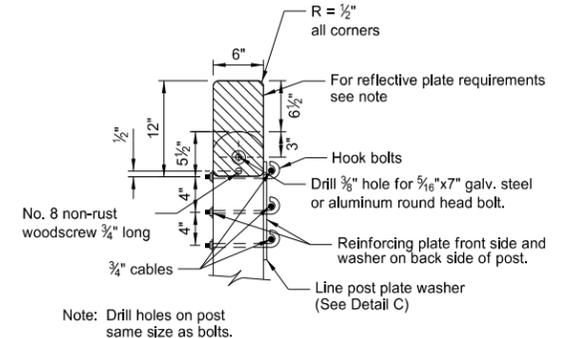
Minimum tensile strength - 25,000 lbs.



WEDGE DETAIL



TOP VIEW PEDESTAL



LINE POST ASSEMBLY WITH REFLECTORIZING DETAIL

Notes: Reflectorized Plates: Reflector plates shall be on first and last posts. Spacing in - between at 25' centers on guardrail less than 250' in length and at 50' centers for guardrail over 250' in length. The reflector shall be the same color as the pavement marking adjacent to that reflector unless noted otherwise on the plans.

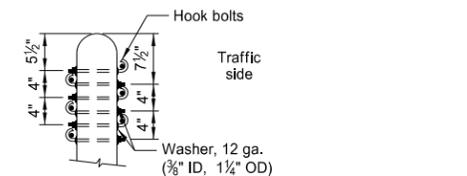
Intermediate anchors shall be equally spaced at intervals not to exceed 1000 ft. on tangents and the outside of horizontal curves. Do not use cable guardrail on the inside of curves sharper than 4°. On the inside of curves 4° or flatter, intermediate anchors shall be spaced at intervals not to exceed:

DEGREE OF CURVE (° MEASUREMENT)	DISTANCE BETWEEN INTERMEDIATE ANCHORS
4°	150 ft.
3°	175 ft.
2°	215 ft.
1°	300 ft.
30 minutes	430 ft.
15 minutes	600 ft.

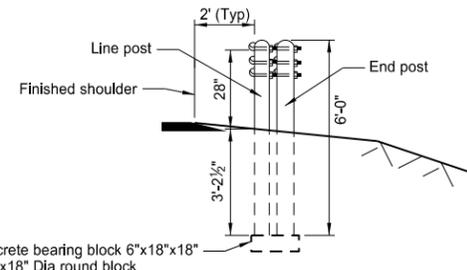
For intermediate curves, interpolate between values listed above.

The pay length shall be from end post to end post. The end posts, hardware, and blocks for the intermediate anchorage assembly shall be included in the price bid for "3-cable guardrail".

Wood posts shall be furnished and installed.

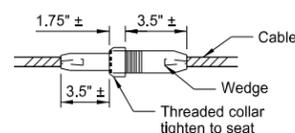
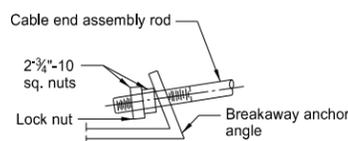


OVERLAP POST ASSEMBLY

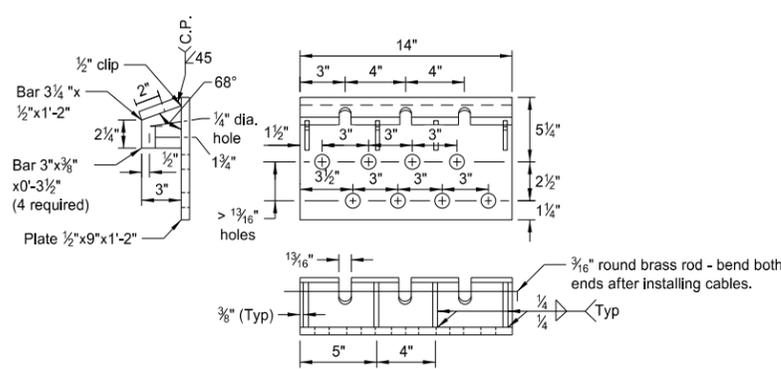


END VIEW

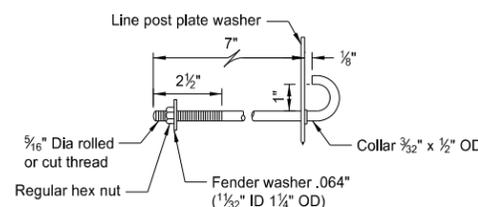
CABLE END ASSEMBLY ROD BREAKAWAY ANCHOR ANGLE CONN.



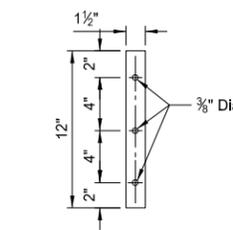
CABLE SPLICE ASSEMBLY



BREAKAWAY ANCHOR ANGLE



HOOK BOLT



LINE POST PLATE WASHER 1/8" x 1 1/2" x 12" DETAIL C

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
2-28-14	
REVISIONS	
DATE	CHANGE

This document was originally issued and sealed by Roger Weigel, Registration Number PE-2930, on 2/28/14 and the original document is stored at the North Dakota Department of Transportation