NOTE:
1. See Detail C617-31 for other details.
2. Steel posts shown. Wood posts may be used as an alternate, except for Posts 1 - 3 where steel posts are required.
3. Typical post spacing is 6' - 3" unless otherwise noted.

STANDARD POST SIZES

3'-0" Guardrail system MGS

3'-0" Guardrail system MGS-BAT

ALONG RAIL

See Note 3

or flatter

1 V :4 H

or steeper

1 V :3 H

NO SCALE

SECTION D-D

Sheet 1 of 2

MGS W-BEAM GUARDRAIL
BACK SLOPE ANCHOR TERMINAL
TYPE MGS-BAT

DIFFICULT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL TERRITORIAL UNITS HIGHWAY DIVISION

CFLU DETAIL

04/2020

DETAIL APPROVED FOR USE

08/2021

REVISED:

STATE PROJECT NUMBER

PROJECT NAME

Drawing No.: ####

NPS PMIS No. ####
NOTE:
1. See Sheet 1 of 2 for terminal layout.
2. Use zinc rich paint to coat field drilled holes.
3. Anchor plate and hardware are typical on top rail of Posts 1 -3 and rub rail at Post 4.

SPECIAL RAIL TO POST CONNECTION
AT POSTS 1, 2, AND 3

Field drill 1" holes as needed for ⅜" bolts

Steel plate (see Detail)
Washer
⅜" x 2" bolt (typ.)
⅞" nut (typ.)

GALVANIZED SQUARE WASHER
GALVANIZED STEEL PLATE

STEEL PLATE AND WASHER
See Note 3
Notes to the Designer
Updated August 2021
MGS W-Beam Guardrail, Back Slope Anchor Terminal Type MGS-BAT

General Information
- Printing should be done from the [Sheet] View model

- Appropriate Applications.
  In areas of cut sections, or where the road is transitioning from cut to fill, the back slope anchor terminates a W-beam guardrail installation by burying the end into a slope.

- Limitations.
  Need a steep, natural backslope (1V:3H or steeper) to bury the terminal into, and a 1V:4H or flatter foreslope.

- Layout Guidance.
  See AASHTO Roadside Design Guide Section 8.3.6.1
  Carefully review the site, especially the foreslope, backslope, and ditch configuration. Verify onsite drainage needs can be met.

Applicable SCRs
- Section 563 (if weathering agent applied to galvanized elements)
  Section 617
  Section 710
  Section 725 (if weathering agent applied to galvanized elements)

Typical Pay Item Used
- 61702-1700 Terminal section, type MGS-BAT [EA]

Updates
- February 2019
  - New Detail drawing
- April 2020
  - Revised LON point, note 2, added rail height callouts, revised steel post callouts
- August 2021
  - Updated for OpenRoads Designer