W BEAM RAIL

1/2" x 10" guardrail post bolt

2'-0" (typ.)

2" (typ.)

6'-0"

W beam rail

1/2" x 10" guardrail bolt

1/2" dia. (typ.)

Post length stamp
1/2" high (typ.)

1/2" plain round washer; All posts except those on terminal sections

1/2" recess nut; Thread not to extend beyond nut by more than 1/2"

STANDARD HOLE ARRANGEMENT POST AND BLOCK DETAIL

Upper 2 holes for raising guardrail to accommodate future overlays

GUARDRAIL BOLT AND RECESS NUT

1/2" GUARDRAIL BOLT

1/2" dia.

1/2" RECESS NUT

1" dia. x 1/2" deep recess both sides

Reflective sheeting (white to right of traffic; yellow to left of traffic)

FLEXIBLE GUIDE POST GUARDRAIL MOUNT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

G4 W-BEAM GUARDRAIL STEEL POSTS

NOTE:
1. When encountering impenetrable material, see ET Details 617-13 or 617-24.
2. See Special Contract Requirements when 7 foot or longer posts are specified.
3. See Special Contract Requirements when the alternative hole arrangement is specified.
4. Install delineator every fourth post. Fasten delineator to post using two galvanized 2" x 1/4" bolts with a washer on both sides, a lock washer, and nut; or as specified by the manufacturer.
5. Modified block may be wood, plastic, or composite material. Use consistent material throughout the length of guardrail run.
6. Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance, and accepted manufacturing practices.

TYPICAL GUARDRAIL CROSS SECTION

Edge of pavement or groundline at face of rail as applicable

Post spacing 6'-3"

Lap in direction of traffic

1/2" x 10" guardrail splice bolts and nuts (8 per splice)

POST SPACING STANDARD POST SECTION

1/2" x 10" guardrail bolt and recess nut

Hinge line of foreslope

Variable slope but not steeper than fill slope

Subgrade shoulder; Widening required for approach and departure terminal sections

NOTE:

SIDE POST FACE

BLOCK

SIDE

FRONT

STRUCTURAL SHAPE POST
(Stanadard hole arrangement)

NO SCALE