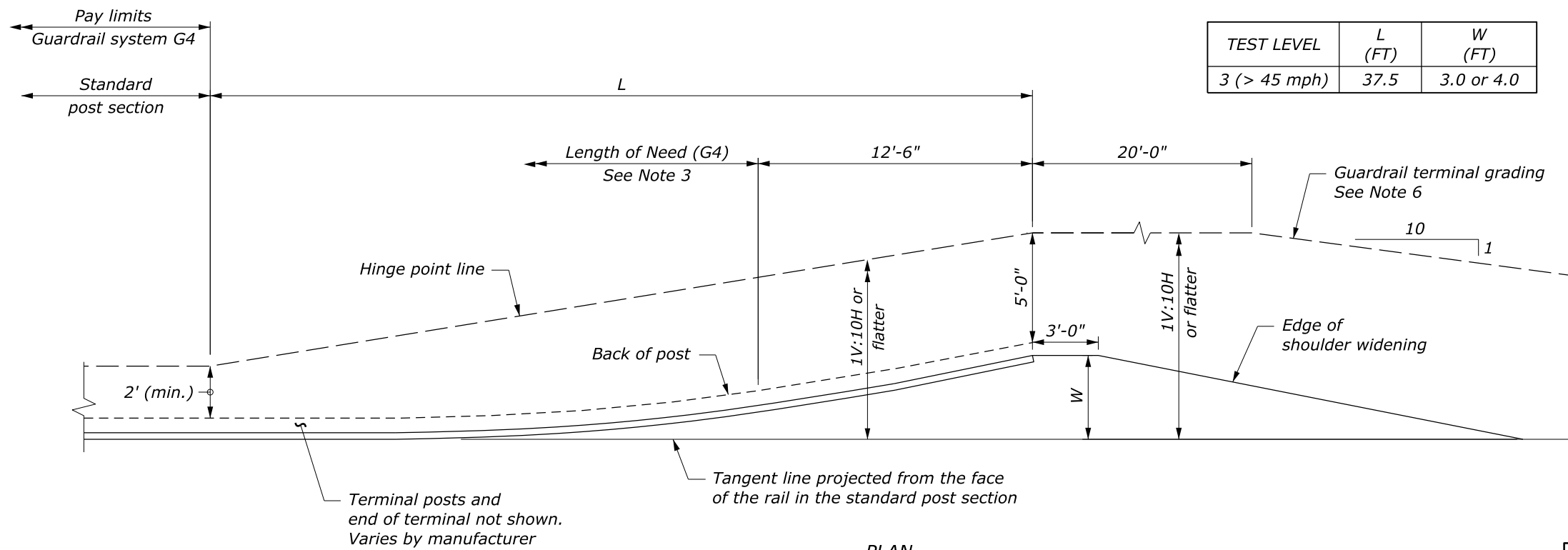


PLAN  
**STRAIGHT FLARED OPTION**  
**MGS AND G4 W-BEAM GUARDRAIL**

**NOTE:**

1. Install a flared W-beam guardrail terminal according to the manufacturer's recommendations. See manufacturer's drawings for other details.
2. Construct the terminal grading as shown in the staking notes or model. If no staking notes or model is provided, construct grading as shown on this sheet and as recommended by the manufacturer.
3. For design purposes, the length of need is assumed to begin as shown on the drawing. Verify the length of need with the manufacturer of a specific product. Adjust grading as necessary to install the flared terminal according to the manufacturer's recommendations.
4. Pave widened shoulder on both ends of guardrail runs when indicated on the plans.
5. Install a reflectorized object marker on the end of the terminal.
6. Construct a 1V:4H or flatter slope outside of the guardrail terminal grading extents where practical.



PLAN  
**PARABOLIC FLARED OPTION**  
**G4 W-BEAM GUARDRAIL**

NO SCALE

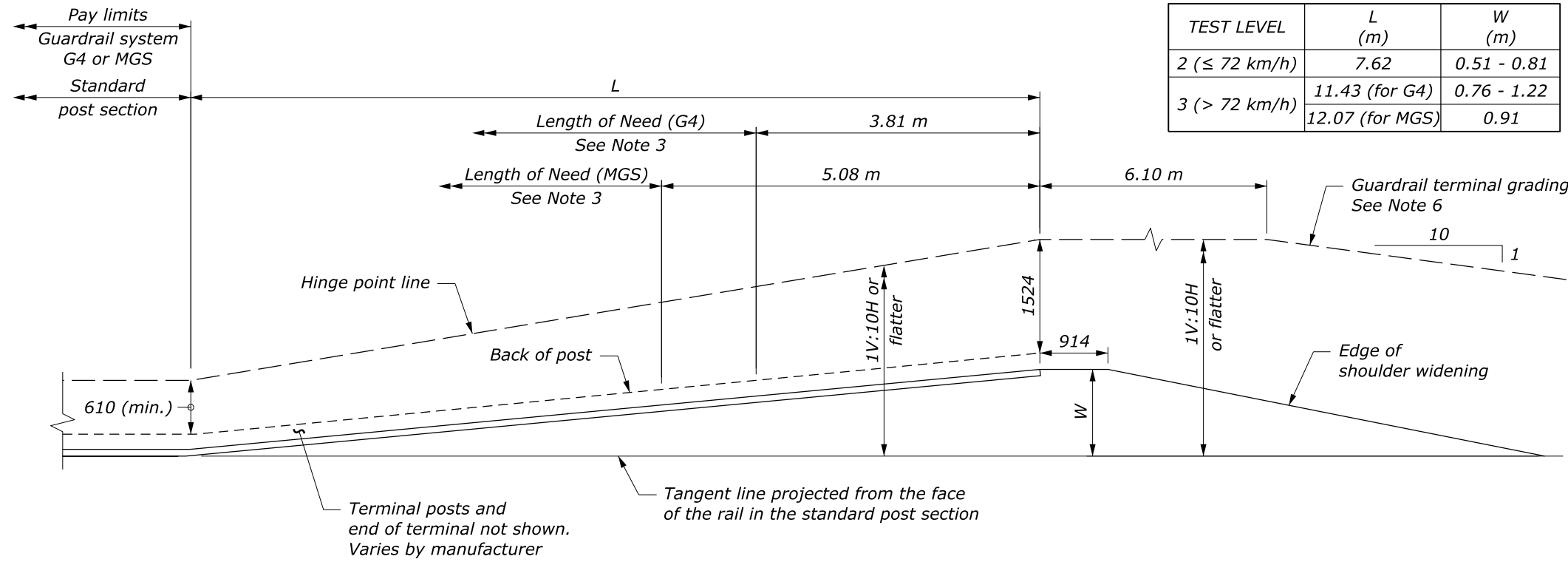
U.S. DEPARTMENT OF TRANSPORTATION, FHWA  
OFFICE OF FEDERAL LANDS HIGHWAY

**MGS AND G4**  
**W-BEAM GUARDRAIL**  
**TYPE FLARED TERMINAL**  
**AND GRADING**

FLH STANDARD  
617-19

SPECIFICATION  
FP-24, FP-14

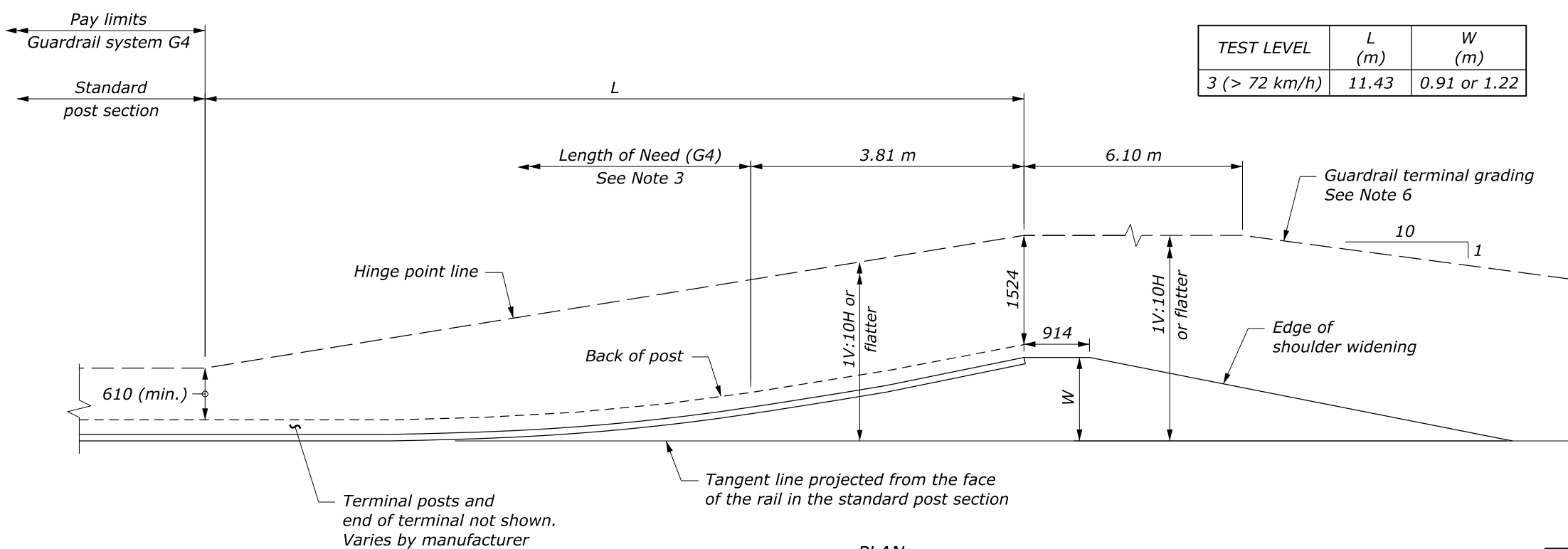
APPROVED FOR USE  
1/2024



TEST LEVEL	L (m)	W (m)
2 ( $\leq 72$ km/h)	7.62	0.51 - 0.81
3 ( $> 72$ km/h)	11.43 (for G4)	0.76 - 1.22
	12.07 (for MGS)	0.91

- NOTE:**
1. Install a flared W-beam guardrail terminal according to the manufacturer's recommendations. See manufacturer's drawings for other details.
  2. Construct the terminal grading as shown in the staking notes or model. If no staking notes or model is provided, construct grading as shown on this sheet and as recommended by the manufacturer.
  3. For design purposes, the length of need is assumed to begin as shown on the drawing. Verify the length of need with the manufacturer of a specific product. Adjust grading as necessary to install the flared terminal according to the manufacturer's recommendations.
  4. Pave widened shoulder on both ends of guardrail runs when indicated on the plans.
  5. Install a reflectorized object marker on the end of the terminal.
  6. Construct a 1V:4H or flatter slope outside of the guardrail terminal grading extents where practical.

PLAN  
**STRAIGHT FLARED OPTION**  
**MGS AND G4 W-BEAM GUARDRAIL**



TEST LEVEL	L (m)	W (m)
3 ( $> 72$ km/h)	11.43	0.91 or 1.22

This drawing contains **Metric** units of measure. Dimensions without units are millimeters.

PLAN  
**PARABOLIC FLARED OPTION**  
**G4 W-BEAM GUARDRAIL**

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY	FLH STANDARD M617-19
<b>MGS AND G4 W-BEAM GUARDRAIL TYPE FLARED TERMINAL AND GRADING</b>	SPECIFICATION FP-24, FP-14
	APPROVED FOR USE 1/2024

c:\pwwork\0419223\Std617-19.dgn [Std: M617-19] 11 July 2024 11:48 AM