

	PROJECT	SHEET NUMBER	
OTE:			
OTE: When encountering impenetrable material, one post may be omitted in locations where the typical guardrail cross section includes 609 mm (min.) between the back of the guardrail post and the hinge point. For all other locations, see Section 617 and Standard M617-13 or M617-37.			
Size of block shown elsewhei nay be wood, plastic, or con consistent material througho	nposite material. Use		
Dimensional tolerances not s o be those consistent with t part, including its appearance practices.	he proper functioning of th	he	
install a flexible hinged delineator every fourth post. Fasten delineator to the web of the steel post using either an adhesive or mechanical means according to the manufacturer's recommendations.			
Dimensions without units are millimeters.			
Atter slope or as l Section GUARDRAIL CROSS SECTION Subgrade shoulder. Widening required for approach and departure terminal sections 200 Post Subgrade shoulder. Widening required for approach and departure terminal sections 200 Post Subgrade shoulder. Widening required for approach and departure terminal sections Subgrade shoulder. Widening required for approach and departure terminal sections 200 Post Subgrade shoulder. Widening required for approach and departure terminal sections Subgrade shoulder. Widening required for approach and departure terminal sections			
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	TRIC FLH STANDARD		
	BEAM GUARDRA	1L	
	VED FOR USE 7/2022 STA	NDARD	

NO SCALE

REVISED:

STANDARD APPROVED FOR USE 7/2022

STANDARD M617-32

MGS W-Beam Guardrail, Steel Posts

General Information

Appropriate Applications.

• The Midwest Guardrail System (MGS) is a non-proprietary w-beam guardrail system that meets the current crash testing requirements. MGS is used when w-beam guardrail is selected for barrier installation.

Crash Test Criteria	MASH	
Test Level	TL-3	
FHWA Eligibility Letter	B-212, B-240, B-261	
TF 13 Designator	SGR20a-b	
Crash Test Report	Multiple MwRSF reports available at <u>https://mwrsf.unl.edu/mgs.php</u> Multiple TTI reports available at <u>https://www.roadsidepooledfund.org/mash-</u> implementation/search/	

Limitations. The drawing shows the various options for guardrail near slopes. The preferred option is to use 6' post with 2' between the back of post and the slope hinge point.

Layout Guidance.

- See AASHTO Roadside Design Guide
- Use the FLH Barrier Length of Need Calculator available at <u>https://highways.dot.gov/federal-lands/safety/barrier-length-need</u>
- See the FLH *Midwest Guardrail System FAQ* document for more information.

Typical Pay Item Used

- 61701-4500 Guardrail system MGS, type 2, class A steel posts [LNFT] for galvanized steel
- 61701-5100 Guardrail system MGS, type 4, class B steel posts [LNFT] for weathering steel

Updates

February 2019

New Detail drawing

June 2022

• Converted from CFL Detail to FLH Standard