

March 1, 2024

TO: Mark Gaines, Development Division Director, State Design Engineer

FROM: Kevin Miller, Assistant State Design Engineer

SUBJECT: Statewide Blanket Proprietary Item Certification  
[Gibraltar MASH16 TL4 Cable Barrier System](#) (GSP 8-11.2.OPT2.GR8)  
2023 -2025 Biennium

The HQ Development Division Design Office certifies blanket proprietary item approval for the 2023 – 2025 biennium ending June 30, 2025 for the Gibraltar Global, LLC MASH16 TL4 Cable Barrier System. This blanket proprietary item approval is given due to the reason that there is no other equally suitable alternative product that exists ([WSDOT Plans Preparation Manual](#) Chapter 700.01(6)(b)).

The Gibraltar MASH16 Cable Barrier System is a 4-cable longitudinal high-tension cable barrier system capable of capturing, stopping and/or redirecting errant vehicles leaving the traveled edges of roadways. Per testing criteria set-forth in the American Association of State Highway and Transportation Officials (AASHTO) Manual for Assessing Safety Hardware Second Edition 2016 (MASH-16), the Gibraltar MASH16 Cable Barrier System is found to be MASH-16 compliant on flat terrain (TL-4), and on 4:1 or flatter slopes (TL-3). See FHWA eligibility Letters B-316A (level terrain), B-340 (4:1 Slope), and CC-162 (End Terminal). The successful MASH-16 crash testing on flat and sloped terrain along with FHWA acceptance letters indicates that the Gibraltar MASH16 Cable Barrier System will perform acceptably in the field to stop and/or redirect errant vehicles comprising today's vehicle fleet from encroaching into the median or roadside areas that the barrier is shielding.

The Gibraltar MASH16 Cable Barrier System is the only currently known high-tension cable barrier system to have obtained full MASH-16 compliance on both level terrain and 4:1 or flatter slopes. Due to no other high-tension cable barrier systems having full MASH-16 compliance on both level terrain and 4:1 or flatter slopes, the Gibraltar MASH16 Cable Barrier System is the only system found suitable for use on WSDOT roadways until other cable barrier manufacturers provide a high-tension cable barrier product meeting the full MASH-16 crash testing matrix on flat and sloped terrains.

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If you have questions concerning this statewide blanket proprietary item certification, please contact Tim Moeckel ([moecket@wsdot.wa.gov](mailto:moecket@wsdot.wa.gov)) or Kevin Burch ([burchk@wsdot.wa.gov](mailto:burchk@wsdot.wa.gov)).

I, Kevin Miller, Assistant State Design Engineer, of Washington Department of Transportation, do hereby certify that no known suitable and equivalent alternative exists for the intended use of this patented or proprietary item.

Signed: \_\_\_\_\_

Date: \_\_03/11/2024\_\_

MG: tjm