


STATE OF NEW HAMPSHIRE  
INTER-DEPARTMENT COMMUNICATION

**DATE:** June 5, 2020  
**FROM:** Kirk Mudgett, PE  
Specialty Section  
**AT (OFFICE):** Highway Design Bureau

**SUBJECT:** Creation and Adoption of new Standard Plans GR-24 & GR-25 (MASH compliant Portable Concrete Barrier) **with Revision #1.**

**THRU:** James A. Marshall, P.E.   
Administrator, Bureau of Highway Design

**TO:** Project Development, Turnpikes, and Operations Bureau

MEMORANDUM

Please share with all appropriate personnel.

Per the 9/29/17 FHWA and AASHTO agreement, "Temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives." Therefore, any barrier used on National Highway System (NHS) and manufactured after 12/31/19 must be MASH compliant.

Consequently, on January 1, 2020 the Department archived – Standard Plan GR-23 – Portable Concrete Barrier, as "Not for Production" as it had not been tested under MASH criteria. The standard is still referenced as NHDOT NCHRP-350 compliant portable concrete barrier that can be used on National Highway System (NHS) roadways through its sun-setting date.

In order to meet MASH criteria, the department researched available MASH compliant proprietary and non-proprietary barrier systems. The selection of barrier for a standard was a joint effort between Highway Design, the Specifications Committee, and the Association of General Contractors. The chosen barrier is the F-shape, 12 ½ foot long barrier developed by the Roadside Pooled Fund group and tested through Texas A&M Transportation Institute (TTI). Minor modifications were integrated into this system, mostly for fabrication purposes. The modifications are reflected in the detailed standard.

On May 12, 2020 – FHWA issued concurrence on Standard Plans GR-24 & GR-25 as a Manual for Assessing Safety Hardware (MASH) compliant version of portable concrete barrier.

**On June 1, this standard was posted. On June 5, Revision 1 was made, in order to match the tested concrete strength of 5000 psi listed on Material Note 1. (Previously 4000 psi was shown)**

These new Standards are now posted on the website. Please do not hesitate to contact me with questions.