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INTENDED USE

The Retro-RailTM System has been crash tested and found to successfully meet MASH Test Level 3 impact criteria when properly attached to structurally-sound, "Strong-Post" Guardrail, with a rail height of 25" to 29". Height is measured to the top of the rail from a horizontal tangent projected out from the top of an adjacent roadway. The following types of Strong-Post Guardrail have been evaluated and are deemed suitable for retrofitting with the Retro-RailTM System:

- SGR04c Steel Post/ Wood Blockout.
- SGR04b Wood Post/ Wood Blockout.
- SGR04c Steel Post/ Plastic or Composite Blockout (Similar to King Block®).

The Retro-RailTM System consists of two Cable End Brackets, a single 3/4" (19 mm) galvanized wire rope running the length of the installation, and numerous Cable Mid Brackets supporting the wire rope ~ 6" (152 mm) above the top of the rail. Cable Mid Brackets are installed every 12'-6" (3,810 mm), using standard guardrail splice locations. The Cable End Brackets and Mid Brackets maximize use of existing holes in the rail for attachment, minimizing the need to drill additional holes

A combined MASH Test Level 3 Guardrail & End Terminal system can be created by attaching one of the above NCHRP 350 Retro-RailTM-fitted Strong-Post Guardrails immediately downstream from a MASH, TL-3-accepted End Terminal.

APPROVALS

The Retro-Rail™ System is compliant to MASH criteria for TL3 applications. FHWA Eligibility Letter HSST/B-246, March 11, 2014.

REFERENCES

American Association of State Highway and Transportation Officials (AASHTO), Executive Committee 2008-2009; The AASTHO Manual for Assessing Safety Hardware (MASH), 2009

CONTACT INFORMATION

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Retro-RailTM System

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