



Florida Department of Transportation

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ROADWAY DESIGN BULLETIN 16-07

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DATE: August 19, 2016

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Consultant Project Management Engineers, District Construction Engineers, District Geotechnical Engineers, District Structures Design Engineers, District Maintenance Engineers, District Roadway Design Engineers, District Traffic Operations Engineers, District Program Management Engineers, District Materials Engineers

FROM: Michael Shepard, P.E., State Roadway Design Engineer

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SUBJECT: **Rumble Striping**

The Department is in the process of evaluating the usage policy and standard configurations of rumble striping in regards to noise pollution and accommodations for bicyclists. The existing *Design Standards*, Index 519 will be removed and the existing *Developmental Design Standards (DDS)*, Index D519 will be used until the Department further develops the policies and standards associated with Rumble Striping.

REQUIREMENTS

1. *Design Standards*, Index 519 is deleted and the existing *DDS*, Index D519 is used instead.
2. Delete *Plans Preparation Manual, Volume 1*, Section 7.6.1.2 and replace with the following:

Rumble Striping provides an audible and vibratory effect and is used on asphalt pavement as a countermeasure for lane departures and centerline crossover crashes. Rumble Striping is created by utilizing the grinding process as shown in *DDS*, Index D519. Thermoplastic

markings are installed over the ground-in rumble strips producing “Rumble Striping”. Contrast marking is not used with Rumble Striping.

For flush shoulder roadways with a posted speed of 50 mph or greater, see Usage Criteria in the *Instructions for Developmental Design Standards (IDDS)* for Index D519 ([IDDS-D519](#)) to determine if the Index D519 should be requested and used on the project.

COMMENTARY

The Department has received complaints from homeowners regarding the noise resulting from vehicular impacts to Rumble Striping as well as complaints from bicyclists regarding the length of the gap on the edge lines.

The State Roadway Design Office (RDO) has decided to enter into a developmental phase for Rumble Striping which will allow context sensitive modifications of our usage policy and standard configurations. *Design Standards*, Index 519 will be removed and *DDS*, Index D519 will be used instead. During this phase, the RDO will work closely with the Districts on a project-by-project basis.

A DCE Memorandum will soon follow to address projects already in the construction phase.

Rumble Striping continues to be the most effective countermeasure for lane departure crashes nationwide and the Department is committed to finalizing this developmental phase as soon as possible.

IMPLEMENTATION

These requirements are effective on all projects with a letting date of March 1, 2017 or later.

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