Install Centerline Rumble Strips



Centerline rumble strips on straight sections of undivided highways alert drivers who unintentionally drift due to distraction or drowsiness.

Implementation Strategy

How and Where to Apply

- Install centerline rumble strips on straight, undivided rural highways where there's a higher risk of headon, sideswipe, or run-off-road crashes due to driver inattention.
- Centerline rumble strips are milled into the pavement during resurfacing or as a retrofit to warn drifting drivers through tactile vibration and audible noise signals.
- The **FHWA** states that this marking can be used "Center line rumble strips are a proven safety countermeasure shown to reduce head-on and opposite-direction sideswipe crashes on two-lane rural roads"

Use in a Safe System Approach Centerline rumble strips support the SSA by providing tactile and audible warnings to drifting drivers, enabling early corrective action and reducing head-on and run-off-road crashes on undivided highways.

Key Stakeholders

State DOTs, local law enforcement agencies

Proactive Implementation

For center line applications, milled rumble strips are preferred for their effectiveness and ease of installation. The recommended dimensions (7" wide, 16" long, 0.5" deep) provide optimal noise and vibration. Since center line strips produce more invehicle noise than shoulder strips, they can be effective at shallower depths.

Countermeasure Overview

Objective: Keep vehicles from encroaching on the roadside

Strategy: Install shoulder rumble strips

Selected Related Countermeasures

- **Shoulder Rumble Strips**
 - **High-Visibility Pavement Markings**
 - **Enhanced Curve Delineation**

Cost: \$ (low)

Service Life: 10 years

Benefit-Cost Ratio: 75:1

Targeted Solution



- Reduced visibility
- Driver inattention



- Single Vehicle
- Sideswipe
- Head-on



- ΑII
- Not specified
- Principal Arterial Other



All

Safety Linkage



Run-off Road



Safer Infrastructure SAFE SYSTEM **APPROACH**

Safe Roads



Tier 4

Install Centerline Rumble Strips Source: lohud.

afety Benefits

An effective safety device on undivided high-speed roads, reducing frontal and opposite-direction crashes¹

Helps prevent head-on, sideswipe, and opposite-direction run-off-the-road collisions

CMF ID: 5399 ² CMF ID: 3355

Resources

- FHWA Longitudinal Rumble Strips
- Centerline rumble strips on secondary highways
- Traffic safety bulletin 20-07: rumble strip guidelines



