Install Wider Edgelines (4 Into 6 In)



Wider edgelines involve increasing the standard width of pavement edge markings from 4 inches to 6 inches.

Implementation Strategy

How and Where to Apply

- This treatment is typically applied on rural highways, curves, and corridors with high rates of lane departure crashes or low ambient lighting.
- It is particularly effective on roads with narrow shoulders, minimal lighting, frequent wet pavement conditions, or high nighttime travel volumes.
- Best suited for rural highways and multilane roads to improve visibility; not suited for narrow urban streets where space and maintenance are concerns.

Use in a Safe System Approach

Wider edgelines support the Safe System Approach by enhancing visibility and lane guidance, accommodating human mistakes and vulnerability to reduce crash risks for fatigued or distracted drivers.

Key Stakeholders

State DOTs, MPOs, engineering consultants, construction contractors, safety advocacy groups.

Proactive Implementation

Agencies can proactively implement wider edgelines through systemic safety programs, particularly in corridors identified through crash data analysis or road safety audits. They are also a cost-effective safety enhancement to incorporate into routine resurfacing projects.

Countermeasure Overview

Objective: Keep vehicles from encroaching on the roadside. Strategy: Provide enhanced pavement markings.

Cost: \$ (Low)

Service Life: 5 years

Benefit-Cost Ratio: 25.0:1

Targeted Solution



- Reduced visibility
- Driver inattention/ distraction



Run-off road



Rural two-lane highways



Rural

Safety Linkage



Run-off Road



Safer Infrastructure



Safe Roads

SAFE SYSTEM ROADWAY DESIGN

TIER 1
TIER 2
TIER 3
TIER 4

Tier 4

Selected Related Countermeasures



Edge-line rumble warnings



Night-visible lane delineation



Augmented curve alignment signage



Reduces all types of crashes and K, A, B, C severities on rural two-lane roads (<u>CMF ID</u>: <u>4737</u>)



Reduces all types of crashes and K, A, B, C severities on rural two-lane roads (<u>CMF ID</u>: <u>4796</u>)



- <u>FHWA Manual on Uniform Traffic Control Devices</u> (MUTCD), Section 3A.06: Widths of Longitudinal Lines
- FHWA Handbook for Roadway Safety Infrastructure Improvements





