



# Install Transverse Rumble Strips on the Intersection Approach

*Application of depressions or raised areas across the surface of an approach lane to produce an audible and tactile warning of the impending intersection.*



Source: VHB

Raised transverse rumble strips warn drivers on this approach of the upcoming intersection.



Source: VHB

Transverse rumble strips are installed ahead of this yield-controlled intersection.



Source: VHB

Transverse rumble strips are applied along this multilane stop-controlled approach.



## Targeted Crash Types

- Right-angle
- Rear-end (major road)
- Rear-end (minor road)

## Problems Addressed

- Inadequate visibility of intersection or intersection traffic control devices
- Speeding

## Conditions Addressed

- Crash history or observed conflicts due to lack of awareness of the intersection.
- Citation history or observations of speeding on approach to intersection.

## Considerations

- Use in combination with Intersection Warning (W2-1 through W2-8), Advance Traffic Control (W3-1 or W3-2), or Pedestrian Crossing (W11-2) signs.
- Noise generated from vehicles traversing the rumble strips can be an issue when residences are in close proximity to the intersection.
- Can require significant maintenance activities, especially on approaches characterized by high volumes of truck traffic.
- Raised rumble strips should not be used in areas where snowplowing is conducted.

## Industry Standard

MUTCD

[Section 3J.02: Transverse Rumble Strip Markings](#)

## Select Examples

[Crest Rd. & Allen Rd., East Flat Rock, NC](#)

[County Road 833 & FL 80, Clewiston, FL](#)

## Other Resources

[Innovative Operational Safety Improvements at Unsignalized Intersections, Florida DOT](#)

[Low-Cost Safety Enhancements for Stop-Controlled and Signalized Intersections, FHWA](#)

[Intersection Safety: A Manual for Local Rural Road Owners, FHWA](#)

[NCHRP 613: Guidelines for Selection of Speed Reduction Treatments at High-Speed Intersections](#)