



Install Raised Pavement Markers

Devices placed on the roadway surface to better delineate the travel lanes and attract attention to the intersection ahead. They may be a ceramic non-reflective marker or include a lens or sheeting that reflects vehicle headlamps and can be used in conjunction with or as a substitute for longitudinal paint or thermoplastic markings.



Source: Lee Engineering, LLC

Standard reflective raised pavement markers enhance the lane lines on the approach to this intersection.



Source: Lee Engineering, LLC

Large ceramic markers are used here to enhance delineation of a painted island along the major road.

Targeted Crash Types

- Right-angle
- Rear-end (major road)
- Sideswipe, opposite direction
- Sideswipe, same direction
- Head-on

Conditions Addressed

- Crash history or observed conflicts related to poor visibility of intersection, particularly under nighttime or rainy conditions.

Problems Addressed

- Inadequate motorist guidance
- Inadequate visibility of intersection or intersection traffic control devices

Considerations

- Typical colors are white, yellow, and red, although other colors can be used for some specific applications.
- Raised pavement markers may be removed by snow plows; hence, the markers will need to be either recessed in the pavement or of the snowplowable type.
- Raised pavement markers are not desirable to use in bicyclists paths or to designate bike lane lines or edge lines, and they should not be used to delineate crosswalks.
- Non-retroreflective raised pavement markers should not be used alone without supplemental retroreflective or internally illuminated markers as a substitute for other types of pavement markings (MUTCD: Section 3B.11).
- May be particularly applicable for unusual geometrics and unlit intersections.

Industry Standard

MUTCD

[Section 3B.11: Raised Pavement Markers - General](#)

[Section 3B.12: Raised Pavement Markers as Vehicle Positioning Guides with Other Longitudinal Markings](#)

[Section 3B.13: Raised Pavement Markers Supplementing Other Markings](#)

[Section 3B.14: Raised Pavement Markers Substituting for Pavement Markings](#)

Other Resources

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

[LED Raised Pavement Markers, FHWA](#)

