Crosswalk Visibility Enhancements

Poor lighting conditions, obstructions such as parked cars, and horizontal or vertical roadway curvature can reduce visibility at crosswalks, contributing to safety issues. For multilane roadway crossings where vehicle volumes are in excess of 10,000 Average Annual Daily Traffic (AADT), a marked crosswalk alone is typically not sufficient. Under such conditions, more substantial crossing improvements could prevent an increase in pedestrian crash potential.

Three main crosswalk visibility enhancements help make crosswalks and the pedestrians, bicyclists, wheelchair and other mobility device users, and transit users using them more visible to drivers. These include high-visibility crosswalks, lighting, and signing and pavement markings. These enhancements can also assist users in deciding where to cross. Agencies can implement these features as standalone or combination enhancements to indicate the preferred location for users to cross.

**High-visibility crosswalks**

High-visibility crosswalks use patterns (i.e., bar pairs, continental, ladder) that are visible to both the driver and pedestrian from farther away compared to traditional transverse line crosswalks. They should be considered at all midblock pedestrian crossings and uncontrolled intersections. Agencies should use materials such as inlay or thermoplastic tape, instead of paint or brick, for highly reflective crosswalk markings.

**Improved Lighting**

The goal of crosswalk lighting should be to illuminate with positive contrast to make it easier for a driver to visually identify the pedestrian. This involves carefully placing the luminaires in forward locations to avoid a silhouette effect of the pedestrian.

**Enhanced Signing and Pavement Markings**

On multilane roadways, agencies can use “YIELD Here to Pedestrians” or “STOP Here for Pedestrians” signs 20 to 50 feet in advance of a marked crosswalk to indicate where a driver should stop or yield to pedestrians, depending on State law. To supplement the signing, agencies can also install a STOP or YIELD bar (commonly referred to as “shark’s teeth”) pavement markings.

In-street signing, such as “STOP Here for Pedestrians” or “YIELD Here to Pedestrians” may be appropriate on roads with two- or three-lane roads where speed limits are 30 miles per hour or less.

**Safety Benefits:**

High-visibility crosswalks can reduce pedestrian injury crashes up to: 40%  
Intersection lighting can reduce pedestrian crashes up to: 42%  
Advance yield or stop markings and signs can reduce pedestrian crashes up to: 25%


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