

# STEP

Safe Transportation for  
Every Pedestrian



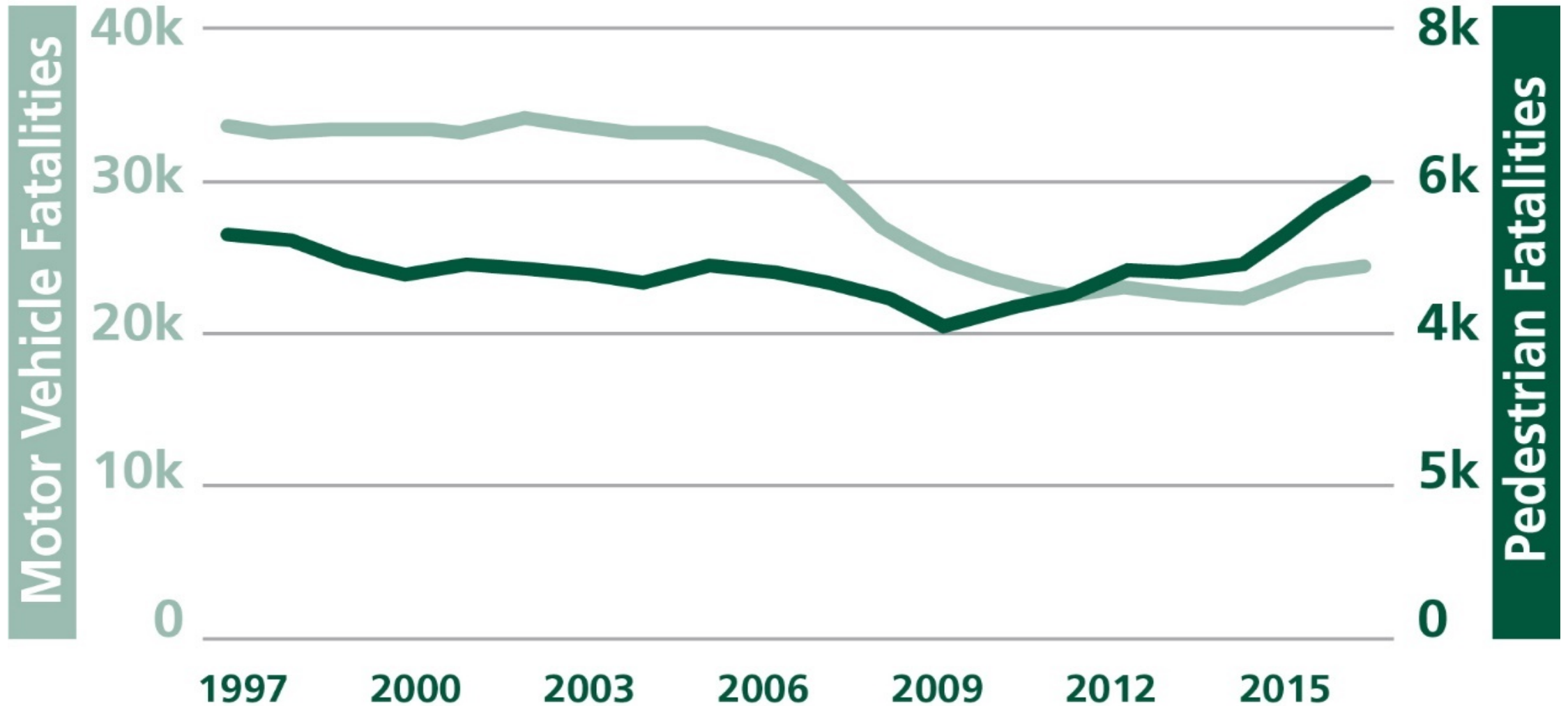
## Pedestrian Safety at Uncontrolled Crossings

Elizabeth Hilton, P.E.  
July 12, 2018



U.S. Department of Transportation  
**Federal Highway Administration**

# U.S. Pedestrian Fatalities\*



\*Data from FARS, NHTSA; Graphic from Systemic Pedestrian Safety Analysis, Final Guidebook



**72% of pedestrian fatalities occur at non-intersection locations**

# The Spectacular Six: STEP Countermeasures



Crosswalk Visibility Enhancements



Raised Crosswalk



Pedestrian Refuge Island



Pedestrian Hybrid Beacon (PHB)



Road Diet

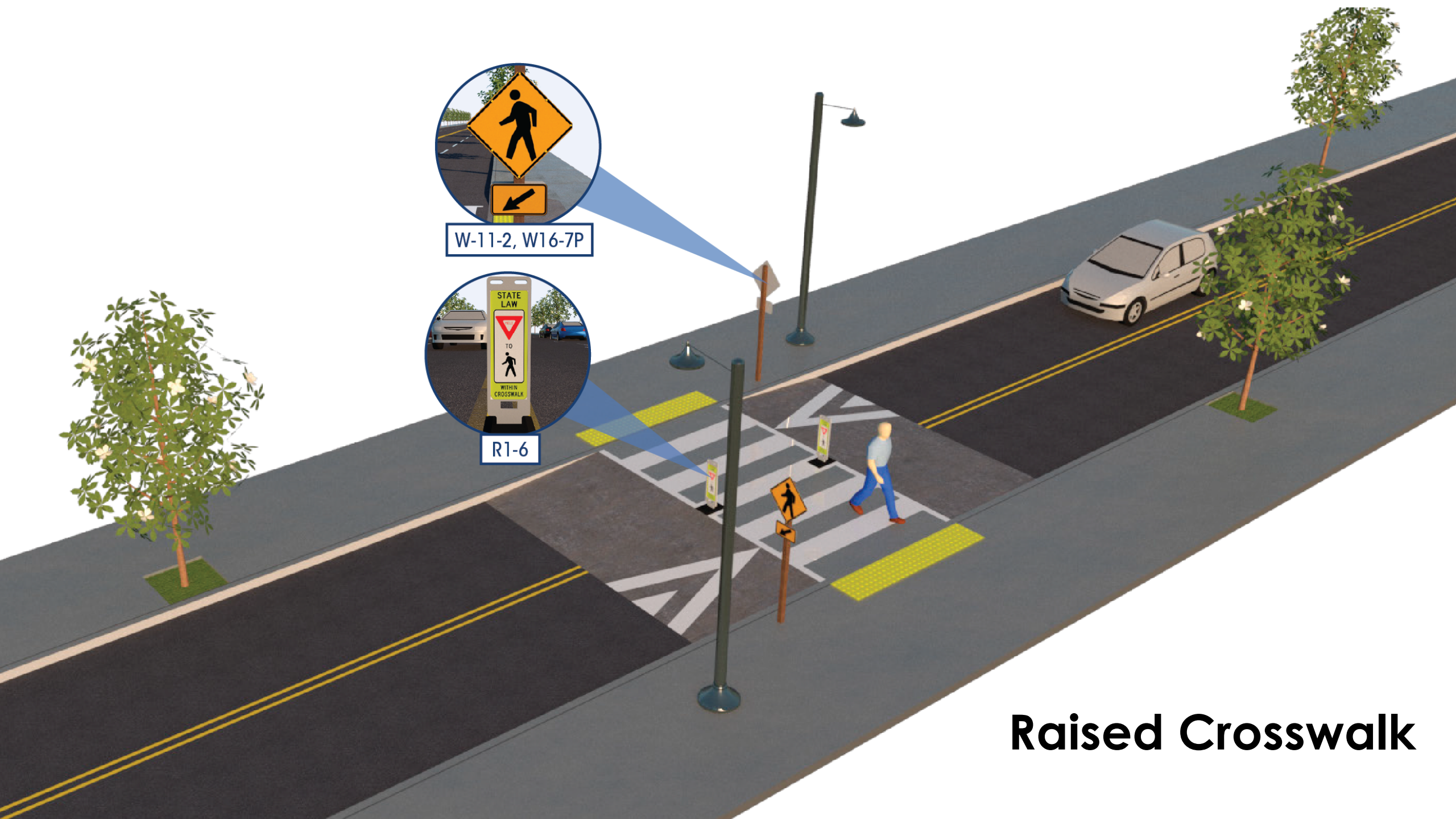


Rectangular Rapid-Flashing Beacon



# Crosswalk Visibility Enhancements



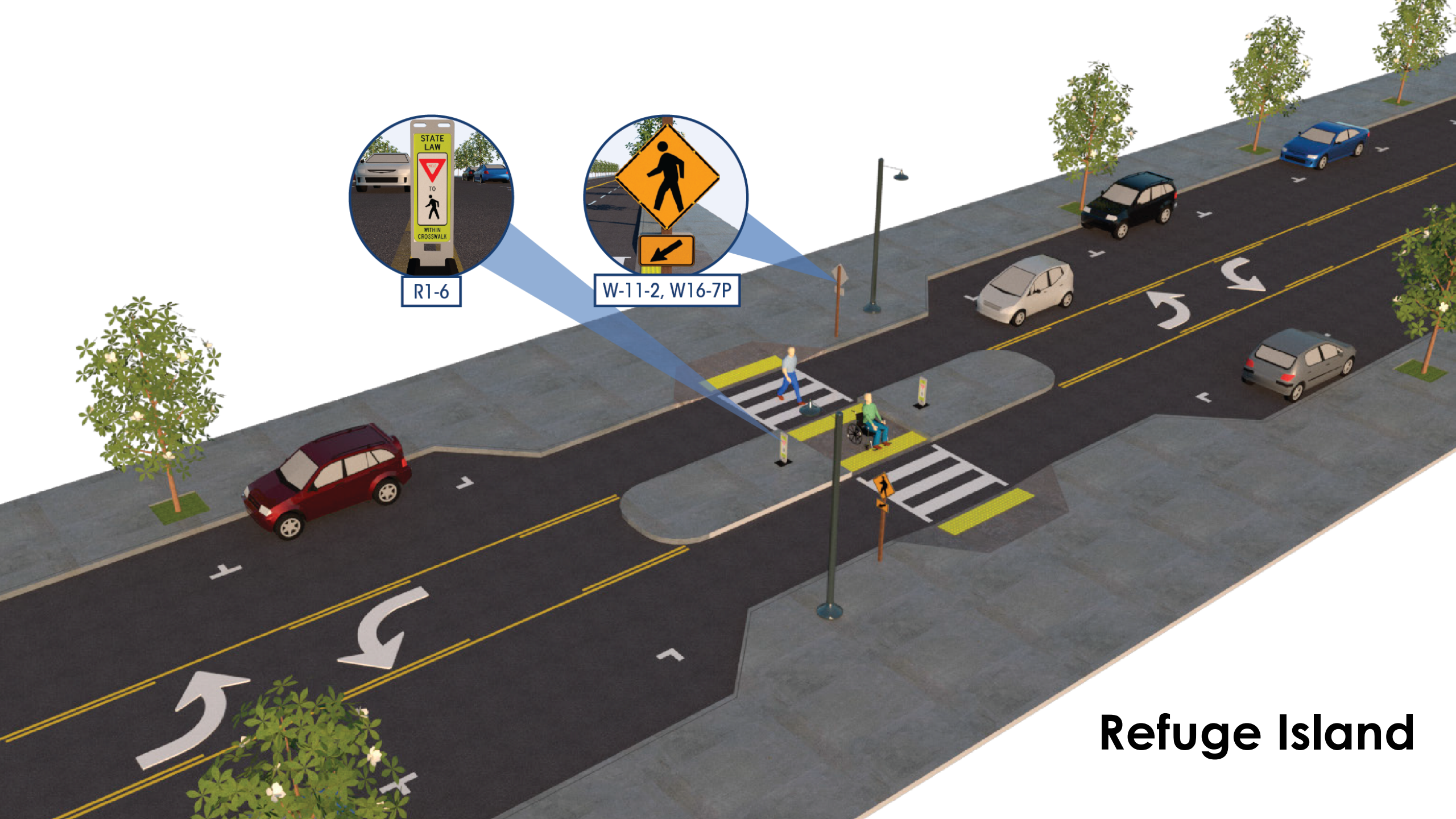


W-11-2, W16-7P

R1-6

**Raised Crosswalk**





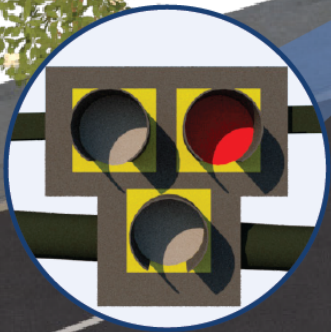
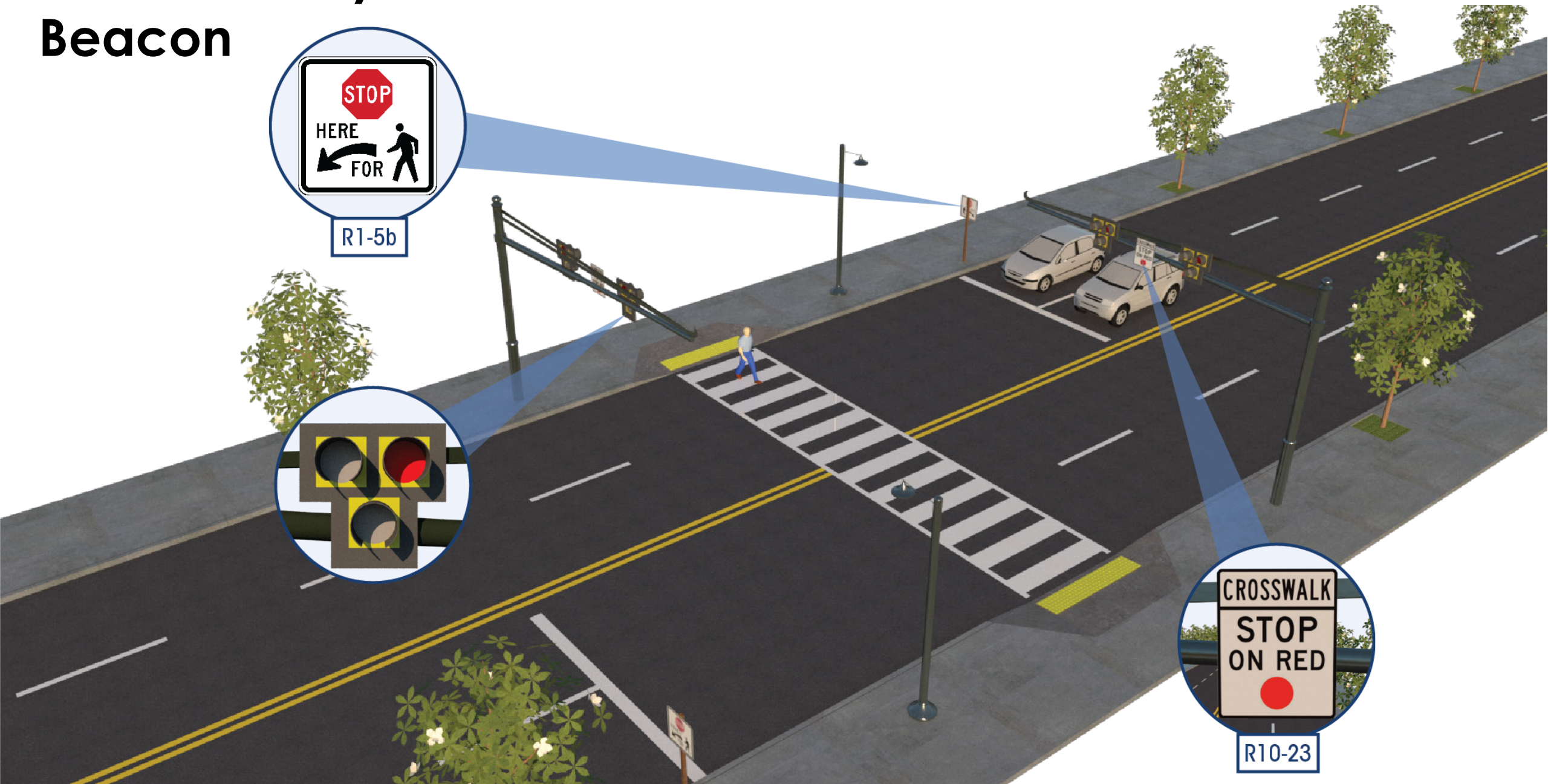
R1-6

W-11-2, W16-7P

Refuge Island



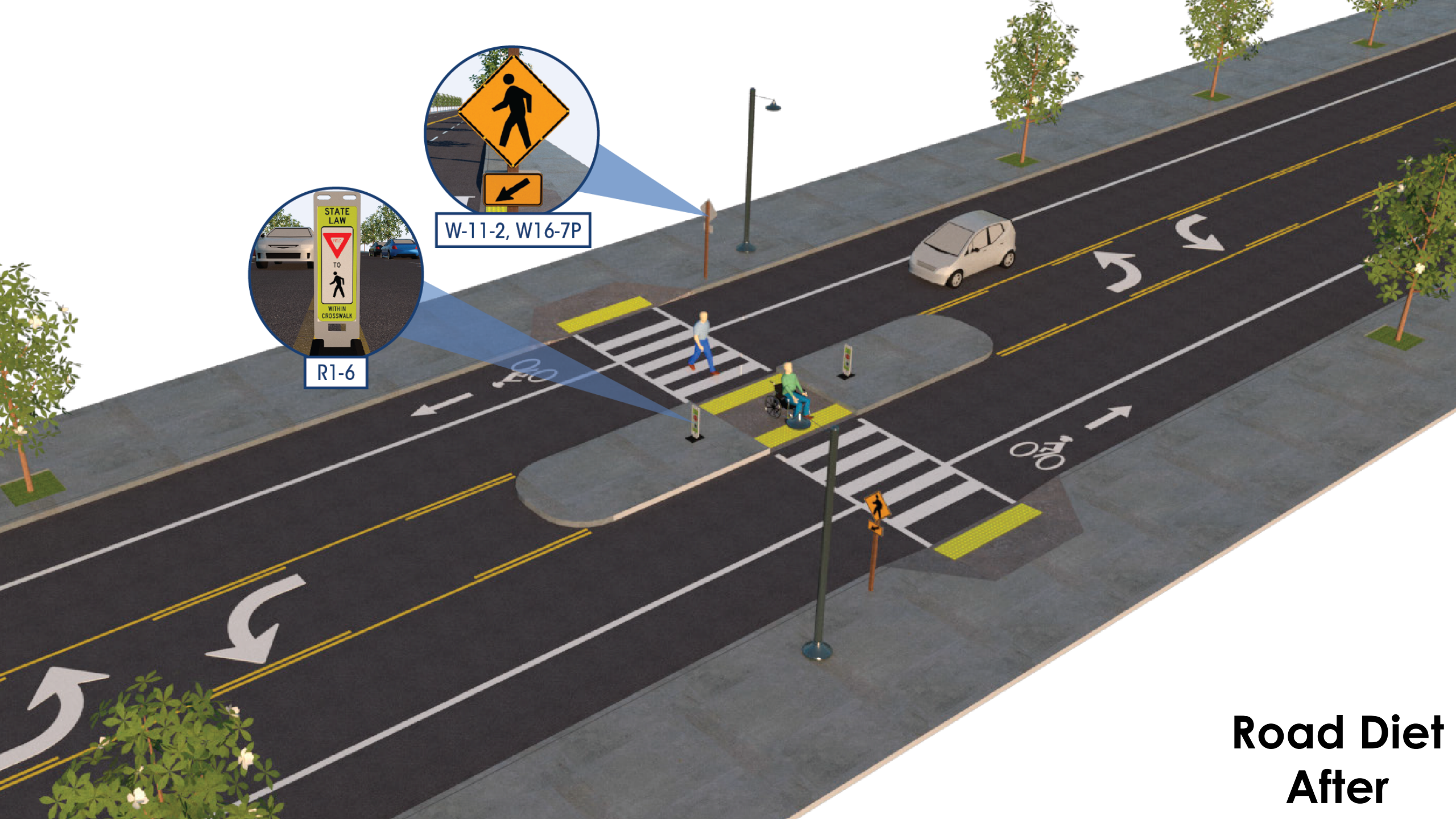
# Pedestrian Hybrid Beacon





**Road Diet – Before**





W-11-2, W16-7P



R1-6

**Road Diet  
After**



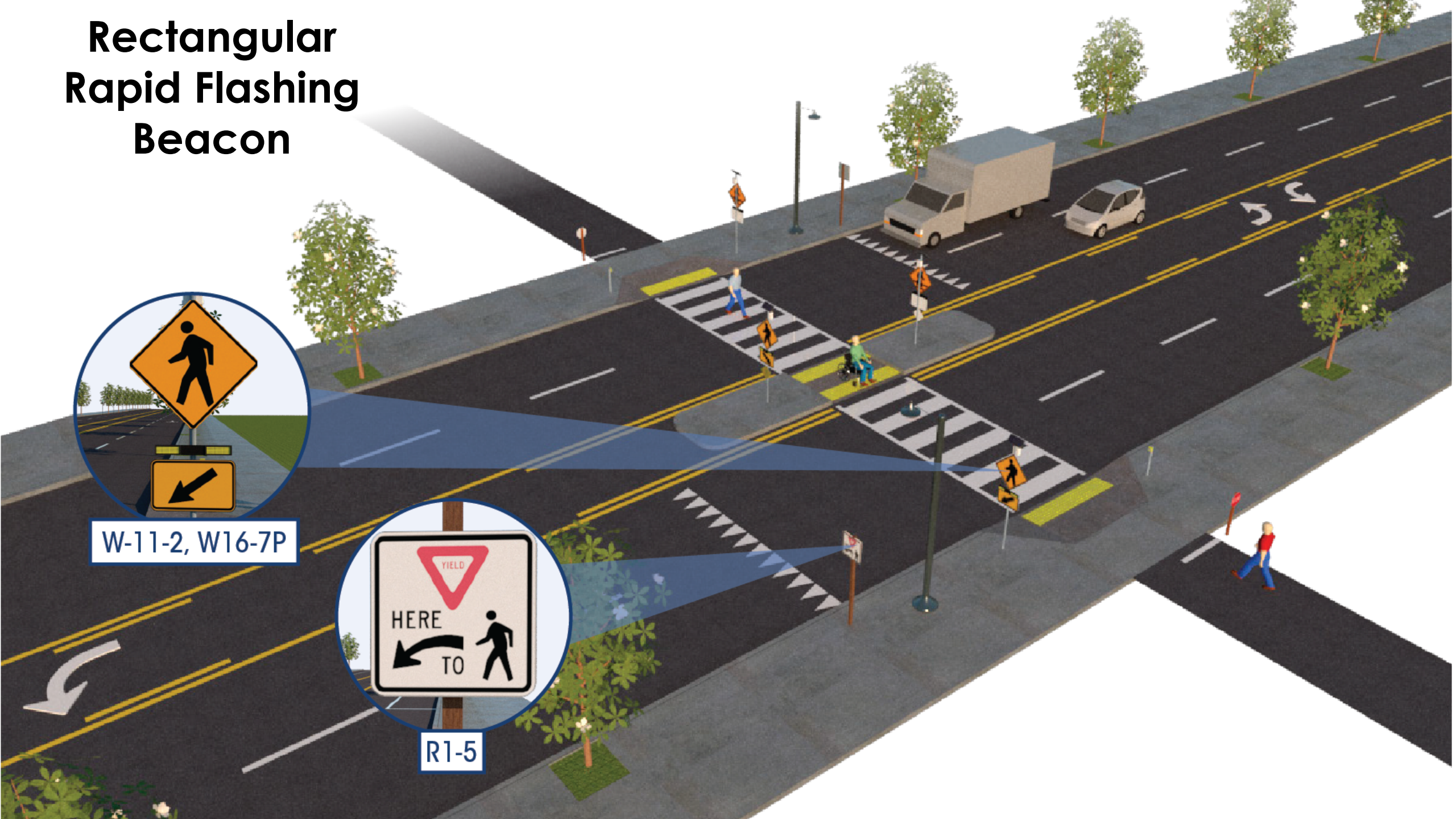
# Rectangular Rapid Flashing Beacon



W-11-2, W16-7P



R1-5

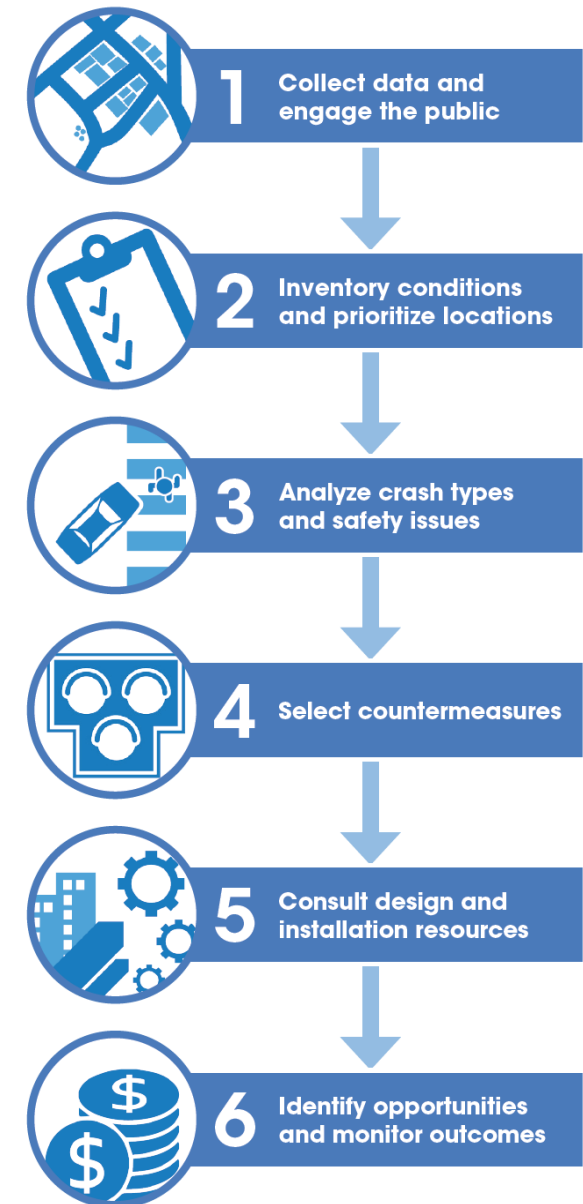


# Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations

Follows a 6-step process

Guides the selection of countermeasures to improve pedestrian safety

Supported by a “Field Guide for Selecting Countermeasures at Uncontrolled Pedestrian Crossing Locations”



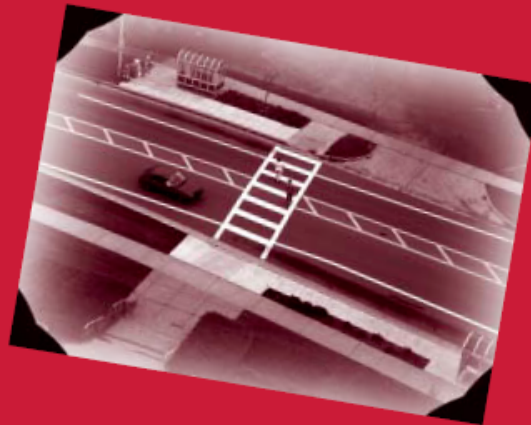


# Safety Effects of Marked Versus Unmarked Crosswalks at Uncontrolled Locations

## Final Report and Recommended Guidelines

FHWA PUBLICATION NUMBER: HRT-04-100

SEPTEMBER 2005



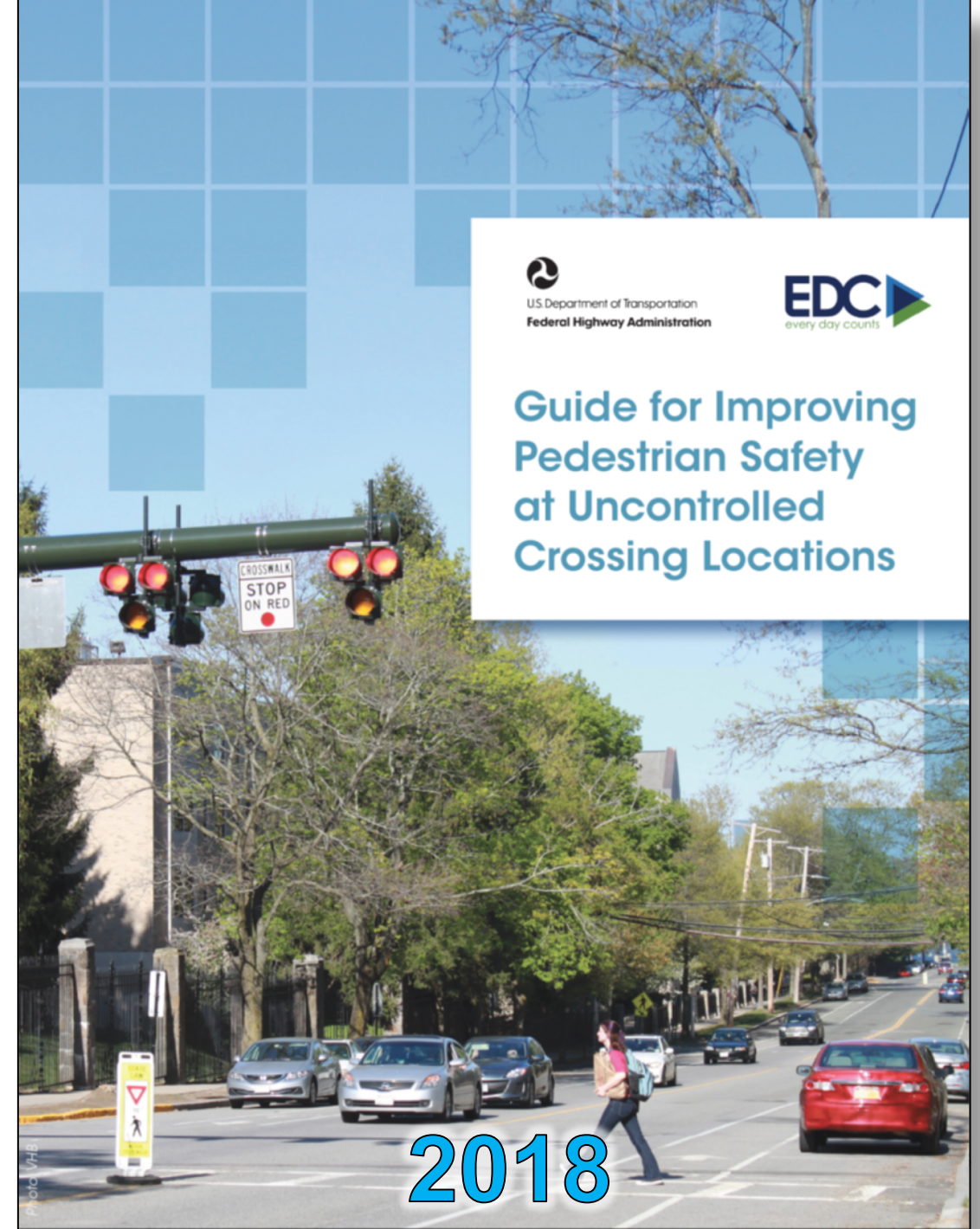
U.S. Department of Transportation  
Federal Highway Administration

Research, Development, and Technology  
Turner-Fairbank Highway Research Center  
6300 Georgetown Pike  
McLean, VA 22101-2296

# 2005



Pedestrian and Bicycle Safety



U.S. Department of Transportation  
Federal Highway Administration



## Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations

# 2018



U.S. Department of Transportation  
**Federal Highway Administration**



## **FHWA EVERY DAY COUNTS 4 / STEP**

**For Additional Information Contact:**

**[https://www.fhwa.dot.gov/innovation/everydaycounts/edc\\_4/step.cfm](https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/step.cfm)**

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