# Raised Intersection



A raised intersection elevates the entire intersection surface to the level of the adjacent sidewalks, creating a continuous, level crossing for pedestrians and a traffic-calming effect for vehicles.

### Implementation Strategy

#### How and Where to Apply

- Apply at low-speed urban intersections with frequent pedestrian crossings to improve safety, visibility, and encourage yielding behavior.
- Use near schools, parks, or downtowns where walkability and pedestrian priority are essential for public space quality and safety.
- Implement at locations with histories of pedestrian-related crashes to reduce conflict severity and support traffic calming through visual elevation changes.

Use in a Safe System Approach Raised intersections align with the Safe System Approach by prioritizing human vulnerability and proactively reducing crash risk. Elevating the intersection creates physical separation and lowers vehicle speeds at conflict points, reducing the likelihood and severity of crashes. This treatment supports safer streets for all users, especially pedestrians and wheelchair users.

#### **Key Stakeholders**

State DOTs, local law enforcement agencies

#### **Proactive Implementation**

Proactive implementation of raised intersections involves identifying high-risk pedestrian areas before severe crashes occur. Planners use crash data, speed studies, and community feedback to target intersections near schools, parks, and commercial zones. Integrating this treatment early in design projects ensures safer environments and supports long-term goals for walkable, livable communities.

#### **Countermeasure Overview**

Objective: Reduce Pedestrian exposure to vehicular traffic. Strategy: Construct pedestrian refuge islands and raised medians.

# **Targeted Solution**

CONTRIBUTING **FACTORS** 

- Approach Speed
- Failure to yield
- Reduced visibility



Crossing-related



N/A



Urban

## Safety Linkage



Pedestrians and **Bicyclists** 



Safer Vulnerable Users



Safer Road Users

SAFE SYSTEM **ROADWAY DESIGN** 

TIER 1 TIER 2 TIER 3

Tier 2

#### Selected Related Countermeasures



Raised Crosswalks



Mini-Roundabouts



**Textured or Colored Pavement** 

**Cost:** \$\$\$ (Moderate to High)

Service Life: 20 years

**Benefit-Cost Ratio:** 0.207

Raised Intersection. Source: FHWA



Slows vehicles and increases awareness of crossing pedestrians at intersections.



#### Resources

- Pedestrian Safety Guide and Countermeasure Selection System
- **CBA: Installation of Speed Humps**

