Install a pedestrian hybrid beacon (PHB or HAWK)



A Pedestrian Hybrid Beacon (PHB) is a pedestrian-activated signal that stops vehicles to allow safe pedestrian crossing at unsignalized locations.

Implementation Strategy

How and Where to Apply

- PHBs are typically installed at midblock crossings or unsignalized intersections with high pedestrian demand and inadequate gaps in
- They are most effective on multilane roads with high traffic volumes or speeds.
- According to FHWA, PHBs are recommended where marked crosswalks alone have proven insufficient to ensure safe crossing.

Use in a Safe System Approach PHBs align with Safer People and Safer Intersections by controlling vehicle movement to create protected crossing opportunities. They compensate for gaps in driver yielding behavior and offer a predictable signal-based intervention that alerts both pedestrians and drivers. PHBs help reduce the likelihood of severe crashes at locations where complete traffic signals are not warranted.

Key Stakeholders State and local DOTs Urban safety and pedestrian planning agencies

Proactive Implementation

Agencies can implement PHBs proactively in areas with documented pedestrian crashes, near high pedestrian generators like schools, transit stops, or community centers. Systemic safety analysis can identify corridors with risky midblock crossings or long uncontrolled crossing distances. Integrating PHBs into pedestrian safety action plans supports broader Vision Zero and Safe Routes to School efforts.

Countermeasure Overview

Objective: Improve Sight Distance and/or Visibility Between Motor Vehicles and Pedestrians

Strategy: Signals to Alert Motorists That Pedestrians Are Crossing

Curb extensions or median refuge islands

Rectangular Rapid Flashing Beacons (RRFBs)

Selected Related Countermeasures

Raised crosswalks at unsignalized locations

Cost: \$ (Moderate)

Service Life: 10 years



CONTRIBUTING **FACTORS**

Risky crossing behavior



Crossing-related



All



- Urban
- Suburban

Safety Linkage



Pedestrians and Bicyclists



Safer Vulnerable Users

SAFE SYSTEM APPROACH Safe Road Users SAFE SYSTEM

ROADWAY DESIGN TIER 1

Tier 3

pedestrian hybrid beacon. Source: PHB

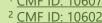


Reduce total crashes of all severity¹



Reduce fatal and injury crashes²

¹ CMF ID: 10607





Safety Benefits

Resources

- Pedestrian Hybrid Beacons
- **Evaluation of Pedestrian Hybrid Beacons**

