640 PEDESTRIAN HYBRID BEACON

A pedestrian hybrid beacon (PHB) is a special type of hybrid beacon used to warn and control traffic at an unsignalized location to assist pedestrians in crossing a street or highway at a marked crosswalk.

If used, PHBs shall be used in conjunction with signs and pavement markings to warn and control traffic at locations where pedestrians enter or cross a street or highway. A PHB shall only be installed at a marked crosswalk.

The design and operation of pedestrian hybrid beacons should follow the guidelines set forth in the MUTCD.

PHB Evaluation Guidelines

To improve pedestrian crossings there are many possible treatments. These treatments include, but are not limited to, marked crosswalks, high visibility crosswalks, two-stage crosswalks, median refuges, street lighting, in-pavement lights, rectangular rapid flash beacons, PHBs, and pedestrian signals. A comprehensive evaluation of pedestrian crossing safety should be conducted in order to identify the most effective treatment.

PHBs should not be installed on roadways with speed limits greater than 45 mph.

The evaluation form shown in Exhibit 640-A should be used in determining whether or not a Pedestrian Hybrid Beacon should be utilized. A minimum score of 35 points merits Pedestrian Hybrid beacon consideration.

Additional factors that should be considered when a crossing merits PHB consideration:

- Is the location within a coordinated signal network?
- Does the roadway environment support the installation of the PHB? Does the street have adjoining sidewalks and/or pathways that will result in a logical utilization of the PHB?
- Is right-of-way needed?
- Are there utility conflicts?
- Is there significant potential for environmental or cultural issues?
- Is funding of the PHB available?
- Is 120/240 single phase power available at a reasonable cost?
- Does the local jurisdiction support the installation of a PHB? Is the local jurisdiction willing to pay for the power for the PHB? Is the local jurisdiction willing and capable of accepting the maintenance and operation of the PHB? Will the local jurisdiction pay for the power in order to light the crosswalk?

Exhibit 640-A. PEDESTRIAN HYBRID BEACON (PHB) EVALUATION

PEDESTRIAN HYBRID BEACON (PHB) EVALUATION		
	Location:	Date:
1.	Motor vehicle crashes correctable by installation of PHB – Award 5 points for (for the most recent 5 years of data) involving pedestrians, bicyclists, wheel skateboards, motorized scooters, or golf carts crossing within 500 feet on ei of the proposed PHB locations, or half the distance to the nearest signal (wh	chairs, ther side
2.	Peak hour pedestrian crossing volume – Award points if the average peak h crossing volume within 500 feet on either side of the proposed PHB location distance to the nearest traffic signal (whichever is less): 0 points $\rightarrow 0 - 10$ pedestrians per peak hour (average) 2 points $\rightarrow 11 - 20$ pedestrians per peak hour (average) 4 points $\rightarrow 21 - 39$ pedestrians per peak hour (average) 6 points $\rightarrow 40^+$ pedestrians per peak hour (average)	
3.	Location of nearest existing traffic signal or existing PHB – Award points: - 5 points → Less than 500 feet 0 points → 500 – 1,000 feet 5 points → Over 1,000 feet	
4.	Posted speed limit – Award points: 0 points \rightarrow Under 30 mph 2 points \rightarrow 30 – 35 mph 4 points \rightarrow 40 – 45 mph	
5.	Roadway traffic volume (AADT) – Award points: 0 points \rightarrow Less than 5,000 2 points \rightarrow 5,000 – 9,999 4 points \rightarrow 10,000 – 14,999 6 points \rightarrow 15,000 ⁺	
6.	Raised median – Award 5 points if the roadway does not have a raised med width of 6 feet.	dian with a minimum
7.	Shared-use path or walkway – Award 5 points if a designated, maintained, a shared-use path or walkway crosses the road at the proposed PHB location	
8.	Pedestrian activity generator – Award 5 points if the proposed PHB location a senior center, medical facility, community center, school, or other pedestri	
9.	Roadway illumination – Award 5 points if the proposed PHB location does no illumination.	t have roadway
10.	Crossing distance – Award 5 points if the crossing distance is greater than 36 median with a minimum width of 6 feet is present, the crossing distance is median with a minimum width of 6 feet is present, the crossing distance is median with a minimum width of 6 feet is present.	
		GRAND TOTAL