

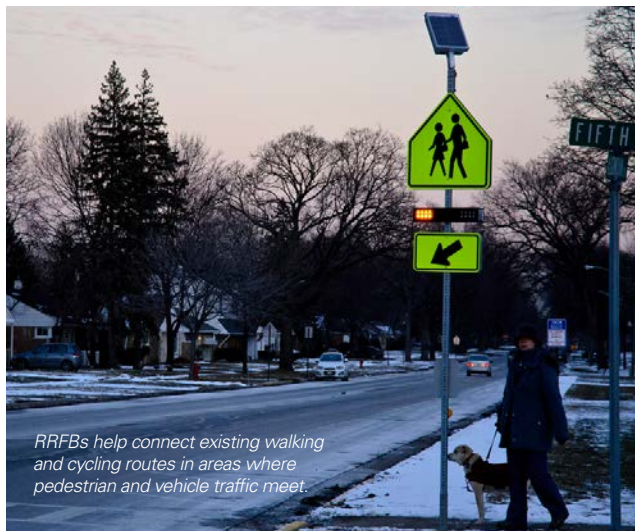
CROSSWALKS FOR WALKABLE NEIGHBORHOODS



AN EASIER WAY TO IMPROVE PEDESTRIAN ACCESS

Improving walkability doesn't have to mean significant infrastructure changes for a city. Every community has existing pedestrian-friendly routes that often only require enhancements to increase use and allow pedestrians to cross roadways safely.

Using FHWA and TAC recommended Rectangular Rapid Flashing Beacons (RRFBs) is one of the best and easiest ways to connect walkable routes and improve driver yield rates for pedestrians at crossings that exist away from traffic signals or stop signs.

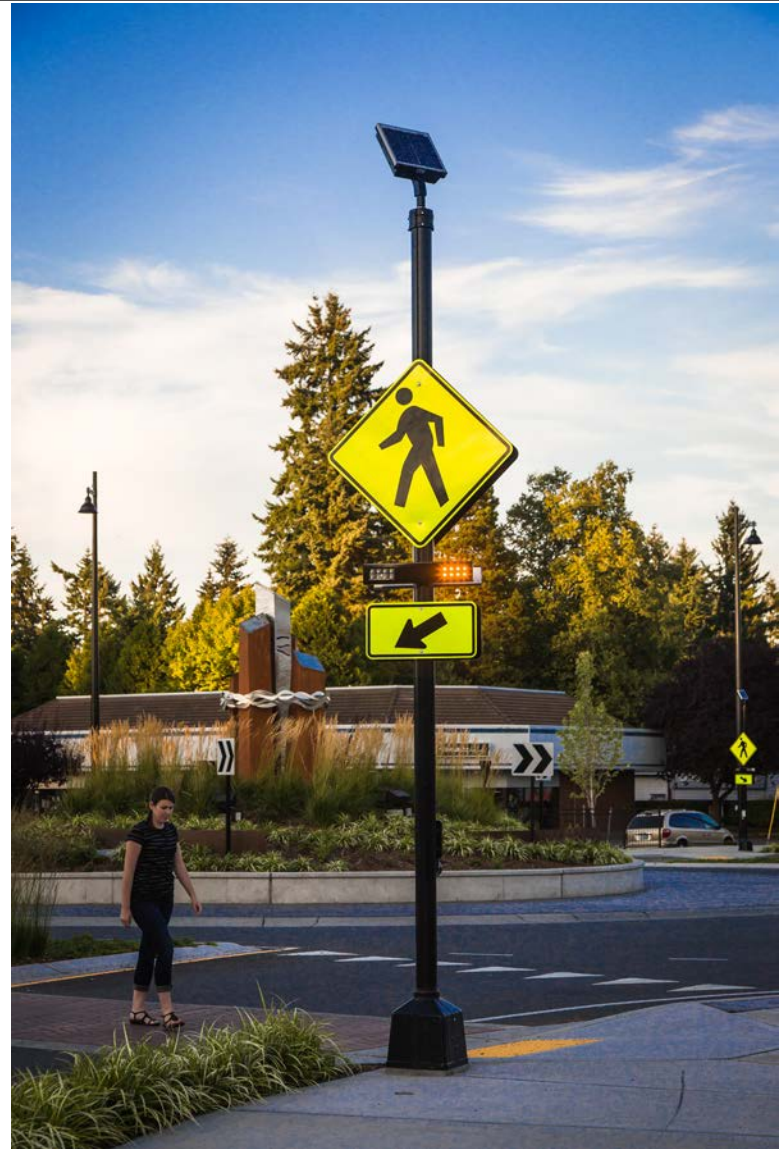


RRFB TECHNOLOGY

Rectangular Rapid Flashing Beacons (RRFBs) are pedestrian-activated, high-intensity warning lights that notify drivers when a pedestrian is entering the crosswalk.

RRFBs are only for use in crosswalk applications, specifically at uncontrolled marked crosswalks (crosswalks marked with pedestrian, school or trail crossing signs).

Rectangular Rapid Flashing Beacons are not intended for crosswalks that already have stop signs, yield signs or traffic control signals.



Rectangular Rapid Flashing Beacons are ideal for a range of applications:

- Intersections with thru-lanes on major legs
- Urban mid-block crosswalks
- Multi-lane crosswalk locations
- Roundabouts
- University campus crosswalks
- School zone crosswalks
- Greenways
- Trail crossings



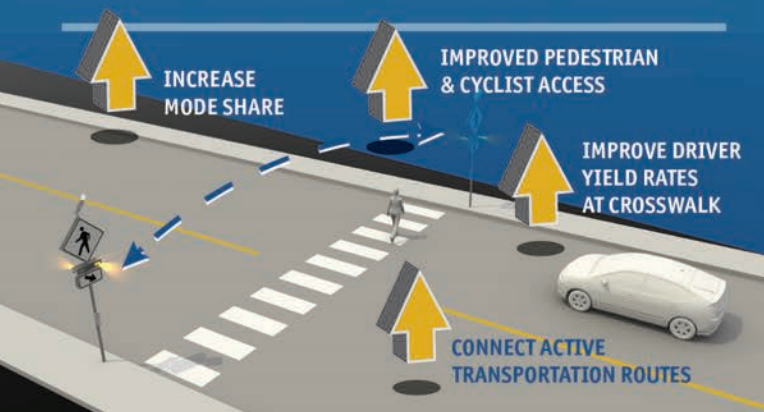
EASY INSTALL
ONTO EXISTING SIGN POSTS.

USE
EXISTING CREW
AND EQUIPMENT



INSTALLATION TIME
IN **MINUTES**
NOT HOURS

LIMITED
BUDGETS GO FURTHER



FLASHING BEACONS: A RECOMMENDED IMPROVEMENT

RRFBs are an important part of the tool kit for traffic engineers seeking to improve pedestrian service levels and multi-modal transportation access. In addition to appearing in pedestrian master plans across the US, RRFBs also appear in national design guides including The National Association of City Transportation Officials (NACTO) Bike Design Guide.

RRFB effectiveness has been documented by several organizations including:

- The U.S. Department of Transport Federal Highways Administration (FHWA)
- The Transportation Association of Canada (TAC)
- Transit Cooperative Research Program (TCRP)
- National Cooperative Highway Research Program (NCHRP)
- Oregon Department of Transportation (ODOT)

As crosswalk improvements continue to be an important element in creating sustainable communities, RRFBs have also been included in:

- Pedestrian master plans and design guidelines in major urban centers including Portland, OR; Philadelphia, PA; Chicago, IL; Boston, MA and Washington DC
- Pedestrian projects in suburban municipalities across North America



Rectangular Rapid Flashing Beacons
improve driver yield rates up to **96%**
in some locations.

They also:

- Improve pedestrian safety even across wide, high-speed multi-lane roads
- Increase driver yield rates 73% over traditional beacon systems such as side-mounted and overhead beacons
- Improve driver yield behavior over time



RRFBs are installed on either side of the crosswalk with a push button system that allows pedestrians to activate the beacons prior to crossing.

CARMANAH TRAFFIC

Carmanah's mission is to provide active communities with affordable and accessible crosswalk solutions that improve the places people live, work and play. Carmanah crosswalk solutions are ideal for communities looking to transform their urban landscapes into vibrant, livable spaces shared by all modes of transportation. RRFBs are an ideal fit for Smart Growth America initiatives, Complete Street projects and communities seeking LEED ND certification.



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