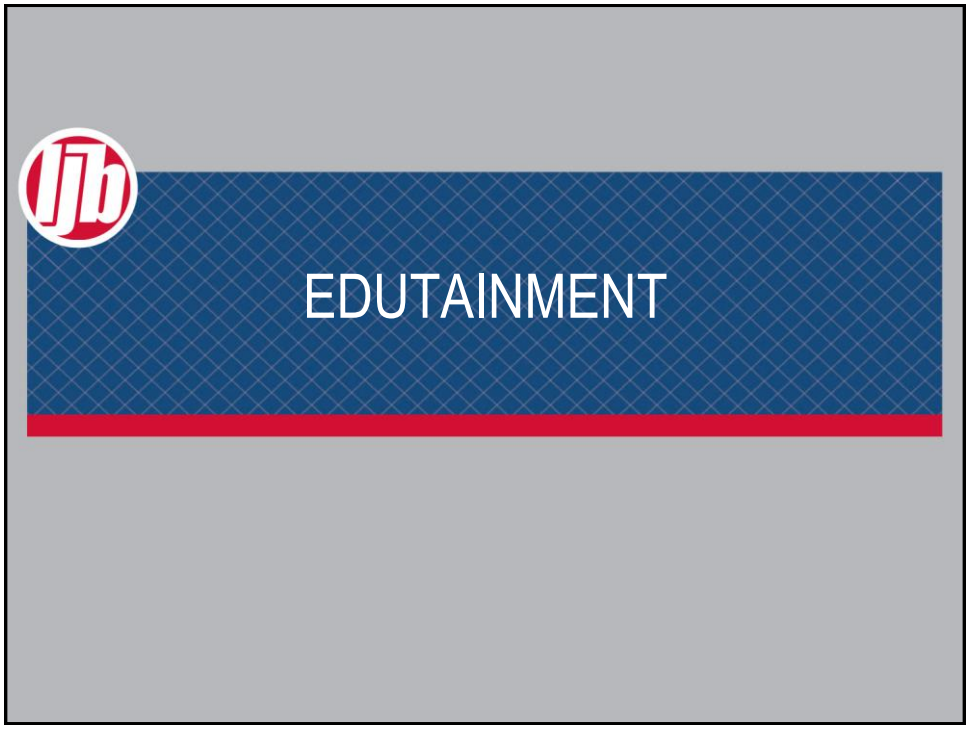

IMPLEMENTING NEW SAFETY TECHNOLOGIES
Ohio's First Pedestrian Hybrid Beacon
DYLAN FOUKES, P.E., PTOE – ODOT DISTRICT 2
ELIZABETH SLIEMERS, P.E., - LJB INC.

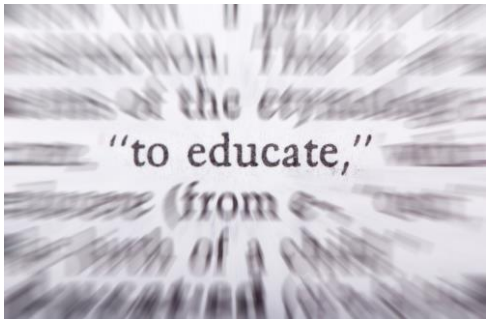

EDUTAINMENT

EDUTAINMENT

- What was the first city to implement a PHB or HAWK?
- In what edition of the MUTCD did the PHB first appear?
- In 2010, FHWA issued a report on the safety effectiveness of the HAWK. In that report, what was the reduction in pedestrian crashes after installation?

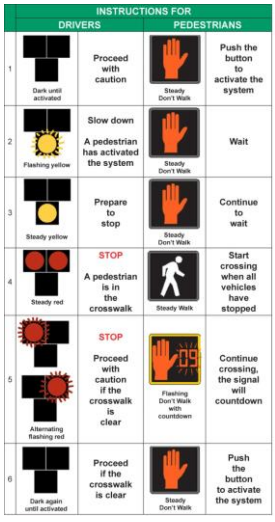
BOTTOM LINE

- Successful implementation of new technology requires coordinated public education



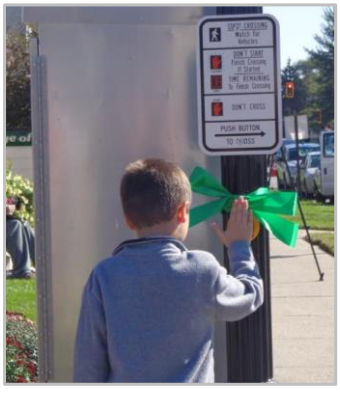
WHAT IS A PHB?

- Pedestrian Hybrid Beacon



BRINGING A PHB TO DELTA, OHIO

- Needed options to improve pedestrian safety
  - > 3 unwarranted signals removed
- PHB = pedestrian activated
  - > Only active when actuated
- First PHB installed on the Ohio highway system



PUBLIC OUTREACH

PUBLIC EDUCATION

- Press release

OHIO DEPARTMENT OF TRANSPORTATION

JOHN KASICH, OHIO GOVERNOR JERRY WRAY, ODOT DIRECTOR

Ohio Department of Transportation • News Release

DISTRICT 2 • TODD M. AUDET, P.E., DEPUTY DIRECTOR
317 East Poe Rd. • Bowling Green, Ohio 43402-1330
www.transportation.ohio.gov/dist2

ODOT District 2 Introduces Pedestrian Hybrid Beacon in Delta, Ohio

BOWLING GREEN (September 23, 2013) – The Ohio Department of Transportation (ODOT) in partnership with the Village of Delta is installing new cutting edge technology to make crossing the street safer for pedestrians. A new traffic safety device, called a pedestrian hybrid beacon (PHB), is being installed at the intersection of Main Street (U.S. Route 20A) and Wood Street in downtown Delta. This is the first pedestrian hybrid beacon installed on the Ohio highway system.

Activated by a pedestrian push-button, PHBs provide a red stop light to motorists approaching the intersection. By alerting and controlling drivers with a beacon warning system, pedestrians can more safely and easily cross the street at marked crosswalks.

The recent removal of traffic signals at Monroe Street, Lincoln Street and Wood Street left downtown Delta with no signal controlled location for pedestrians to cross. A PHB was selected for the Wood Street intersection due to its proximity to the Village's public library and downtown business district.

The device remains dark unless a pedestrian activates the system using a push-button. The system then follows the steps below:

1. When the pedestrian presses the button, approaching drivers will see a FLASHING YELLOW light for a few seconds, indicating that motorists should reduce their speed and be prepared to stop for a pedestrian in the crosswalk. Pedestrians should wait.
2. Drivers will see a STEADY YELLOW light, warning that the indication will soon turn to a STEADY RED light. Pedestrians will continue to see the DON'T WALK symbol and should wait.
3. Drivers will see a STEADY RED light, which requires them to STOP at the stop line. Then, the pedestrian receives a STEADY WALK symbol to cross.
4. Drivers will see ALTERNATING FLASHING RED lights, indicating that they need to stop until pedestrians have finished crossing the street. They may proceed with caution if the crosswalk is clear. Pedestrians will see a flashing countdown that indicates how much time they have to cross the street.
5. At the end of the countdown, drivers will see that all indication lights are dark; the pedestrian will see a DON'T WALK symbol. Pedestrians waiting to cross will have to push the button to activate the system.

Additional informational posters and brochures are now available at area libraries, fire stations and government buildings.

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For more information contact:
ODOT District 2 Public Information office at (419) 373-4428 or email D02.PIO@dot.state.oh.us

PUBLIC EDUCATION

- Letters to residents

OHIO DEPARTMENT OF TRANSPORTATION
JOHN KASICH, OHIO GOVERNOR JERRY WRAY, ODOT DIRECTOR
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Pedestrian Hybrid Beacon Coming Soon to Delta

The Ohio Department of Transportation (ODOT) and Village of Delta are making crossing the street easier for pedestrians. A new safety device, called a pedestrian hybrid beacon (PHB) is being installed at the intersection of Main Street (U.S. Route 20A) and Wood Street in downtown Delta. This is the first pedestrian hybrid beacon to be installed on the Ohio highway system.

A PHB is activated by a pedestrian push button. It is installed at marked crosswalks to warn and control traffic so that pedestrians can safely cross the street.

We invite you to attend a ribbon cutting ceremony on **Wednesday October 9, 2013** to see first-hand how the PHB works. The event will begin at 11:30 AM at the village administrative offices, 401 Main Street. Refreshments will be provided.

More information on the PHB and the event will be coming soon.

For more information contact:
ODOT District 2 Public Information office at (419) 373-4428 or email D02.PIO@dot.state.oh.us

PUBLIC EDUCATION

- Educational poster

OHIO DEPARTMENT OF TRANSPORTATION

PEDESTRIAN HYBRID BEACON - coming to Delta, Ohio

The Ohio Department of Transportation (ODOT) in partnership with the Village of Delta is installing new cutting edge technology to make crossing the street safer for pedestrians. A new traffic safety device, called a pedestrian hybrid beacon (PHB), is being installed at the intersection of Main Street (U.S. Route 20A) and Wood Street in downtown Delta. Activated by a pedestrian push-button, PHBs provide a red stop light to motorists approaching the intersection. By alerting and controlling drivers with a pedestrian-activated beacon warning system, pedestrians can more safely and easily cross the street at marked crosswalks.

RIBBON CUTTING CEREMONY
Wednesday
October 9
11:30 AM
Village Administrative Offices
401 Main Street
Refreshments will be provided

Why is ODOT installing a PHB?
The recent removal of unwarranted traffic signals at Monroe Street, Lincoln Street and Wood Street left downtown Delta with no signal controlled location for pedestrians to cross. A PHB was selected for the Wood Street intersection due to its proximity to the Village's public library and downtown business district. This is the first PHB installed on the Ohio highway system.

How do I use a PHB?

1. When there is no pedestrian waiting to cross, drivers will see that all indication lights are dark. A pedestrian who wants to cross the street will need to push the button to activate the system.
2. When the pedestrian presses the button, approaching drivers will see a **FLASHING YELLOW** light for a few seconds, indicating that they should reduce speed and be prepared to stop for a pedestrian in the crosswalk. Pedestrians should wait.
3. Drivers will see a **STEADY YELLOW** light, warning that the indication will soon turn to a **STEADY RED** light. Pedestrians will continue to see the **DON'T WALK** symbol and should wait.
4. Drivers will see a **STEADY RED** light, which requires them to **STOP** at the stop-line. Then, the pedestrian receives a **STEADY WALK** symbol to cross.
5. Drivers will see **ALTERNATING FLASHING RED** lights, indicating that they need to stop until pedestrians have finished crossing the street. They may proceed with caution if the crosswalk is clear. Pedestrians will see a flashing countdown that indicates how much time they have to cross the street.
6. At the end of the countdown, drivers will see that all indication lights are dark; the pedestrian will see a **STEADY DON'T WALK** symbol. Pedestrians waiting to cross will push the button to reactivate the system.

PUBLIC EDUCATION

- Pamphlet handout

OHIO DEPARTMENT OF TRANSPORTATION

PEDESTRIAN HYBRID BEACON
Coming to Delta, Ohio

The Ohio Department of Transportation (ODOT) in partnership with the Village of Delta is installing new cutting edge technology to make crossing the street safer for pedestrians. A new traffic safety device, called a pedestrian hybrid beacon (PHB), is being installed at the intersection of Main Street (U.S. Route 20A) and Wood Street in downtown Delta. This is the first pedestrian hybrid beacon installed on the Ohio highway system.

START CROSSING
Watch for Vehicles
DON'T START
Finish Crossing If Started
TIME REMAINING To Finish Crossing
DON'T CROSS
PUSH BUTTON TO CROSS

How will a PHB improve pedestrian safety?

Activated by a pedestrian push-button, PHBs provide a red stop light to motorists approaching the intersection. By alerting and controlling drivers with a pedestrian-activated beacon warning system, pedestrians can more safely and easily cross the street at marked crosswalks.

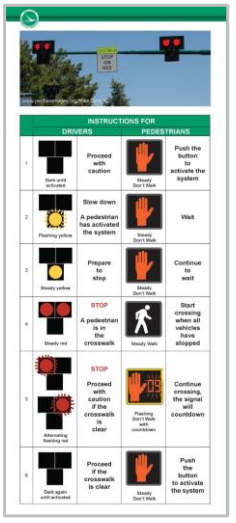
Why is ODOT installing a PHB?

The recent removal of unwarranted traffic signals at Monroe Street, Lincoln Street and Wood Street left downtown Delta with no signal controlled location for pedestrians to cross. A PHB was selected for the Wood Street intersection due to its proximity to the Village's public library and downtown business district.

When will the PHB be operational?

Plan to attend a ribbon cutting ceremony on **Wednesday October 9, 2013** to see first-hand how the PHB works. The event will begin at 11:30 AM at the Village Administrative Offices on 401 Main Street. Refreshments will be provided.

For more information, contact ODOT District 2 Public Information Office at (419) 373-4228 or email Dist2.PIO@dot.state.oh.us



INSTRUCTIONS FOR

	DRIVERS	PEDESTRIANS
1	Dark until activated — Proceed with caution	Steady Don't Walk — Push the button to activate the system
2	Flashing yellow — Slow down	Steady Don't Walk — Wait
3	Steady yellow — Prepare to stop	Steady Don't Walk — Continue to wait
4	Steady red — STOP A pedestrian is in the crosswalk	Steady Walk — Start crossing when all vehicles have stopped
5	Alternating flashing red — STOP Proceed with caution if the crosswalk is clear	Flashing Don't Walk with countdown — Continue crossing, the signal will countdown
6	Dark again until activated — Proceed if the crosswalk is clear	Steady Don't Walk — Push the button to activate the system

PUBLIC EDUCATION

- Signage

PUBLIC EDUCATION

- Public event
- Ribbon cutting

RESULTS

- *"I am seeing a much higher usage of the PHB than I had anticipated. It is being used and I have seen excellent compliance by motorists. The motorists that I have seen understand the process. I am very happy with the project and how it turned out."*

  - Village of Delta Administrator

QUESTIONS?

IMPLEMENTING NEW SAFETY TECHNOLOGIES

Ohio's First Pedestrian Hybrid Beacon

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