

## High-speed roads

## Personal security

## Sidewalks

- *Lack of sidewalks*
- *Narrow, crowded sidewalks*
- *Insufficient sidewalk buffer*
- *Lack of trees, vegetation*

## Multi-Use Paths

- *Narrow, crowded paths*
- *Lack of separation between modes*

## Bus stops

- *Finding the stop*
- *Understanding schedule and route information*
- *Navigating floating bus stops*

## Passenger Loading/Unloading Zones

- *Lack of these zones*

## Wayfinding

- *Difficulty interpreting pedestrian signage*
- *Sensory overload*

## Lighting

- *Sensitivity to overly bright light*
- *Auto-oriented light with pools of darkness*

## Temporary Pedestrian Access Routes

- *Uncertainty about how to navigate*

# Where to walk when there are no sidewalks?



## Crosswalks

- *Lack of crosswalk markings*
- *Confusion about meaning of markings*
- *Assessing gaps in traffic*

## Signal phasing

- *Misunderstanding about potential for conflicting movements in case of permissive left and right turns*

## Pedestrian Signals

- *Lack of pedestrian signals*
- *Lack of accessible pedestrian signals*
- *Confusion about meaning of flashing red hand*
- *Difficulty interpreting pedestrian signal signage*
- *Insufficient crossing time*

## Beacons

- *Confusion about how to use*

## Complex Intersections

(roundabouts and channelized turn lanes)

- *Confusion about how to cross*

# Pedestrian Pushbutton Signage



R10-2



R10-3



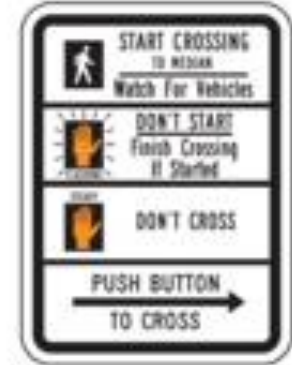
R10-3a



R10-3b



R10-3c



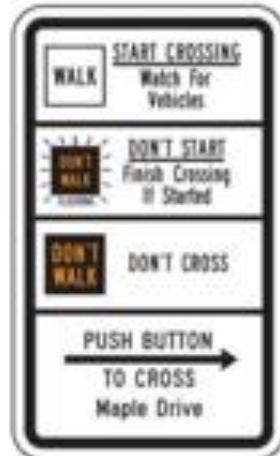
R10-3d



R10-3e



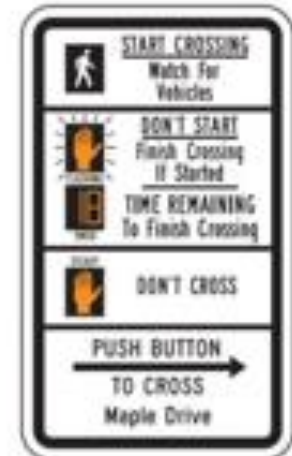
R10-3f



R10-3g



R10-3h



R10-3i



# Pedestrian Signals

A - With countdown display



B - Without countdown display



# Accessible Pedestrian Signals

- Signals with Pedestrian Signal Heads must have an accessible push button
  - Audible & Vibrotactile indication
  - Include a locator tone
  - Tactile arrow
- Access Board declined to provide guidelines on what alteration triggers APS installation.



## Safe System Approach

- Improve safety culture to increase **shared responsibility**
- Implement road design and operations that **prevent people from being killed or seriously injured** if a crash occurs

