Pedestrian Safety: “Normal” Vision
Pedestrian with Central Vision loss
Pedestrian with Peripheral Vision Loss
Pedestrian with Overall Acuity Loss
Pedestrian who is Totally Blind
Definitions: Accessible
Definitions: Detectable
Definitions: Pedestrians

Dictionary.com:

**pedestrian**

*Noun:*

1. a person who goes or travels on foot; **walker**.

*Adjective:*

2. going or performed on foot; **walking**.

3. of or pertaining to **walking**.
Definitions: Pedestrians
This is Richard.
Accessible, Detectable Work Zone?
Accessible, Detectable?
Accessible, Detectable?
Potential Cost of Non-Compliance: State

CA Dept. of Transportation Consent Agreement, 2010

Settlement:
• Caltrans to spend $1.1 Billion over 30 years
• Make existing sidewalks accessible
• Use alternate pedestrian routes around construction sites
• Alternate routes must be accessible to persons with disabilities
“Seattle may have to spend millions making sidewalks more accessible” - Seattle Times, April 3, 2017

“The Seattle case is among a flurry of ADA lawsuits across the country in recent years, many of which have forced cities to increase their spending on sidewalks and curb ramps by tens of millions of dollars or more.”
“Jury awards $2 Million to Family…”

“...the general contractor...and a sub-contractor...were negligent for failing to provide a safe pedestrian path after a portion of the existing sidewalk was removed...”

-From Post-Newsweek Media, Gazette.net, August 2, 2011
Regulating Agency: US Access Board

Functions:
- Develops design criteria
- Provides technical assistance, training
- DOJ enforces accessibility standards
Regulating Agencies

Americans with Disabilities Act (ADA) 1990

- DOJ
- US Access Board
- DOT
- ADAAG
- Training/Education Guidelines
- FHWA
- PROWAG 2011 (GUIDELINES)
- MUTCD (LAW)
- Accessible Guidelines
Access Board Guidelines: PROWAG

PROWAG: Public Rights of Way Accessibility Guidelines
R302.4, Barricades & Channelizing Devices:
- Continuous, stable, non-flexible.
- Consists of devices from MUTCD.
FHWA Guidance: MUTCD

MUTCD: Manual on Uniform Traffic Control Devices
State MUTCD

• Governs on every public road in Indiana, and on certain private property.

• Under state law, every road authority in IN is required to follow IN MUTCD.
MUTCD Standards: Accessible Work Zones

Section 6D.01, Pedestrian Considerations:

Accessibility and detectability **SHALL** be maintained in any alternate route.
MUTCD Standards: Accessible Work Zones

Section 6F.63, Channelizing Devices

• Devices SHALL be detectable and visible
• Devices SHALL have continuous top and bottom surfaces
• Top: 32” min. above the ground
• Bottom: 2” max. above ground
MUTCD Standards: Accessible Work Zones

Section 6F.71, Pedestrian Considerations, Longitudinal Channelizing Devices
MUTCD Standards:
Accessible Work Zones

Section 6F.74, Detectable Edging For Pedestrians
MUTCD Standards:
Accessible Work Zones

Section 6F.14, Sidewalk Closure Signs
MUTCD Standards: Accessible Work Zones

Section 6D.02, Accessibility Considerations

Audible Information Device mounted to a Vertical Panel
Accessible Work Zones: Components

- TTC Devices
- Pathway & Surface
- Temporary Ramps
- Sidewalk Closures
Components: TTC Devices

Notes for Figure 6F.xx:
* Guidance: There should be a 2 inch gap between the hand-trailing edge and its support.
** Option: A maximum 2 inch gap between the bottom of the bottom rail and the surface may be used to provide drainage.
Components: Sidewalk Closures
Components: Surface
Broken, Interrupted, or Changes in Levels:
• Surface < 1/2” max
• Use ramp for broken surfaces > 2”
• Cross-slope shall be 2% max
Walkways shall be 5’ in clear width.

If less than 5’, passing spaces of 5’ x 5’, every 200’

Intrusion free
Components: Temporary Ramps
Components: Temporary Ramps
Components: Alternate Pedestrian Access Routes

- Width of Pathway
- Pathway Surface
- Sidewalk Closures
- Channelizing Devices
- Temporary Ramps
- Signs & Audible Information Devices
Sidewalk Construction Policy: Elements

- Accessible Work Zones
- Governing Regulations
- Purpose of Sidewalk Closure
- Duration of Closure
- Approved Work Zone Devices
More Elements: Education, Inspection, Enforcement

“Construction Crew Rebuilds Sidewalk 3 Times”
Case Study #1
CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK
CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK
CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK
Case Study #2: Mid-Block Closure
Case Study #3: Partial Closure
Case Study #4: The Whole Block
Remember Richard.
Questions?
Thank You!

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