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| PROWAG History <br> - $30+$ years in the making <br> - 1990 - ADA enactment <br> - 2002 - Draft guidelines issued <br> - 2011 - NPRM issued <br> - 2013 - SNPRM issued <br> - 2023 - Final rule adopted by Access Board August 8; effective Oct. 7, 2023 <br> - Enforceable standard upon adoption by USDOT and USDOJ |
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## What Will Be Covered

- Background
- Overview
- Changes from NPRM
- Pedestrian Access Routes
- Relationship to the MUTCD
- Q\&A


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## What is PROWAG?

- Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way
- Minimum accessibility guidelines for pedestrian facilities in the public right-of-way
- Applies to existing facilities when altered
- Ensure pedestrian facilities in the public right-of-way are readily accessible and usable

Accessibility Guidelines
for Pedestrian Facilities for Pedestrian Facilities
in the Public Right-of-Way in the Public Right-of-Way 2023

United states Access board

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## Topics Covered

- Pedestrian access routes
- Pedestrian overpasses and underpasses
- Transit stops and transit shelters

Alternate pedestrian access routes

- Protruding objects and vertical clearance
- Sidewalks

On-street marked or metered parking

- Passenger loading zones

Street furniture
Curb ramps and blended transitions
Stairs and escalators

Detectable warning surfaces

- Crosswalks
- Accessible pedestrian signals

Pedestrian signal timing
Street furniture, including public toilets, tables, counters, benches, drinkin fountains

- Pedestrian signs

At Grade Rail Crossings
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Key Changes from NPRM

## PROWAG Organization

- Chapter 1: Application and Administration
- Chapter 2: Scoping Requirements
- Chapter 3: Technical Requirements
- Chapter 4: Supplemental Technical Requirements

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## Topics Not Covered or Not Covered In-Depth

- Separated bike lanes, floating bus stops, shared spaces, electric vehicle charging stations, and other street design innovations
- Quick build projects, e.g., flex post curb extensions and pedestrian crossing islands
- Tactile walking surface indicators other than detectable warning surface, e.g., tactile direction indicator
- People with intellectual and developmental disabilities
- Engaging people with disabilities



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## New Construction Projects

- Construction on undeveloped land, i.e., greenfield
- New construction must fully comply
- EXCEPTION: Pedestrian facilities within vaults, tunnels, and other spaces used only by service personnel for maintenance, repair, or monitoring of equipment are not required to comply


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## Alterations Projects

- Change to, or an addition of, pedestrian facility in existing developed public right-of-way
- Must comply to the maximum extent feasible where existing physical constraints make compliance technically infeasible
- Existing ROW width is not a physical constraint

- Not tied to funding sources

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## Pedestrian Access Routes \& Pedestrian Circulation Paths

- Maximum cross slope is 1:48 (2.1\%)
- For landings, accessible routes, and clear spaces adjacent to operable parts
- Requirements for alternate pedestrian access routes (formerly in MUTCD)
- For alternate pedestrian access routes requires audible or other non-visual signage in advance of decision points



## General Changes

- No more advisories

- MUTCD sections previously incorporated by reference now stated directly
- "alternative designs, products, or technologies" that provide "substantially equivalent or greater accessibility" are allowed except for treatments covered under the ABA



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## Curb Ramps and Blended Transitions

- Still requires one curb ramp or blended transition for each crosswalk (including unmarked) or a single blended transition that spans all crosswalks
- A landing is required when a change in direction is necessary to access a curb ramp from a pedestrian access route
- Clarifies that $48^{\prime \prime} \times 48^{\prime \prime}$ clear area at bottom of ramp is required for perpendicular ramps and located wholly outside required for perpendicular ramps and located wholly ou
- Provides option of installing a transitional space at the bottom of a curb ramp or blended transitions, so that the combined change in grade is not greater than 13.3\%.

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## Curb Ramp Landing Slopes



Perpendicular Curb Ramps with Shared Landing



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## Curb Ramps and Blended Transitions (Cont.)

- Blended transitions require accessible bypass with running slope no greater than $2.1 \%$
- A single diagonal ramp is only permitted if two ramps are technically infeasible


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## Parking and Passenger Loading Zones (Cont.)

- Metered or signed on-street shall provide the minimum number of accessible spaces on the block perimeter
- Parking designated exclusively as residentia or for commercial or law enforcement vehicles shall not be counted in number of spaces
- Where spaces are altered, parking requirements are applicable only to the affected spaces until the minimum number spaces are provided

At least one accessible loading zone shall be provided in every continuous 100 feet of loadin provided in every continuous
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 apercent of to

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## Crosswalks

- Where crossing is prohibited at intersections and roundabouts, curb ramps shall not be provided and the PAR must be separated from road by either:
- landscaping (or other non-prepared surface)
- a detectable vertical edge treatment with bottom edge 15" max above PAR


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## Accessible Pedestrian Signals

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

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## Transit Stops \& Transit Shelters

- Requires alternate transit stops if accessible transit stops are temporarily not accessible, e.g., due to construction
- Boarding and alighting area guidance and access to PAR consistent with draft PROWAG


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## Ramps and Stairs

- Ramps rise of 30 " max before landing
- Ramps require minimum clear width of 4' (i.e. between handrails if provided)
- EXEPTION: Where a ramp only serves a building entrance, the clear width of the ramp run can be minimum $3^{\prime}$
- Stairs requires 1 " wide visual contrast on treads \& top landing


## Shared Use Paths

- Updates definition of "shared use path" to emphasize transportation purpose

A multi-use path designed primarily for use by bicyclists, pedestrians, and other authorized used for recreation. Shared use paths are physically separated from motor vehicle traffic by an open space or barrier and are either within the highway or other public right-of-way.
SUPs accessing overpasses and underpasses may exceed 5\% slope if ramps and landings provided

- Permits bollards to prevent motor vehicle entry but must maintain 4' clear width from each of bollard

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PEDESTRIAN ACCESS ROUTES

## Key Terms

- Pedestrian Access Route: An accessible, continuous, and unobstructed path of travel for use by pedestrians with disabilities within a pedestrian circulation path.
- Pedestrian Circulation Path: A prepared Pedestrian Circulation Path: A prepa
exterior or interior surface provided for pedestrian use in the public right-ofway.
- May or may not contain a pedestrian access route; required for new construction



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Shoulders are not a suitable PAR in suburban \& urban areas


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## Cross Slope

- Slope perpendicular to the direction of pedestrian travel
- Max cross slope of 1:48 (2.1\%)
- EXCEPTION: Portion of PAR within street that connects an accessible parallel parking space to the nearest crosswalk does not need to meet cross slope requirements
- EXCEPTION: Uncontrolled crosswalks, signalized intersections with a green phase, and midblock and roundabout crosswalks


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## Grade Breaks \& Changes in Level

- Grade breaks must be flush
- Changes in level
- $1 / 4^{\text {" to }} 1 / 2^{\prime \prime}$ - Bevel required $1 / 4^{\prime \prime}$ MAX
- $1 / 2$ " to 6 " - Requires ramp with max slope 8.3\%
- Over 6" - Treat as ramp with max slope of $5 \%$


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## Horizontal Openings

- Must not allow a sphere larger in diameter than $1 / 2$ " can pass through
- Elongated openings meeting requirements allowed perpendicular to direction of travel.

- NOT allowed where pedestrian access routes intersect
- Different guidance for railroad flangeway gaps


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## Protruding Objects

- Objects 27 " to 80 " above ground are not detectable by cane
- Objects in furniture or frontage zones must not protrude more than 4"
- Handrails can protrude 4-1/2" max
- Protruding objects may be protected by barrier or curb that is at least 2-1/2" high


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## Push Buttons

```
- 5' vs 10 ' from Curb Ramp
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$\rightarrow$ Downward slope
$\rightarrow$ Downward slope
(B) Acceptable locatio
for push button
(C) Acceptable, bu


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## Push Buttons

- 5 ' vs 10 from Curb Ramp
- Placement in relation to ramp


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## Roundabouts and Channelized Turn Lanes

- At multi-lane segments of roundabouts and multi-lane channelized turn lanes, one or more off the following is required:
- Traffic control signal with pedestrian signal head
- Pedestrian hybrid beacon (PHB)
- Rectangular rapid flashing beacon (RRFB)
- Raised crosswalk

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## Alternate Pedestrian Accessible Routes

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## Questions?

https://www.access-board.gov/prowag/
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Thank You!
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