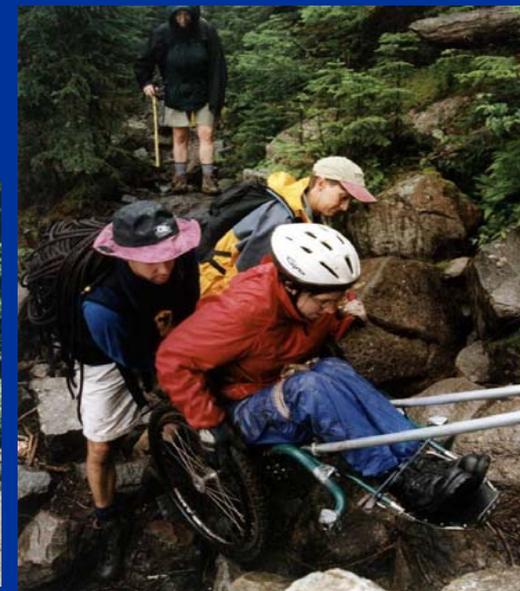




# Outdoor Developed Areas

- Trails
- Picnic/Camping
- Beach Access Routes
- Viewing areas



# Background on Draft Final Guidelines

- Regulatory Negotiation Committee Final Report -1999
- NPRM – 2007
- Comment period
- Federal partners/Board members involvement
- Draft final guidelines 10/2009
- Comment Period closed December 2009



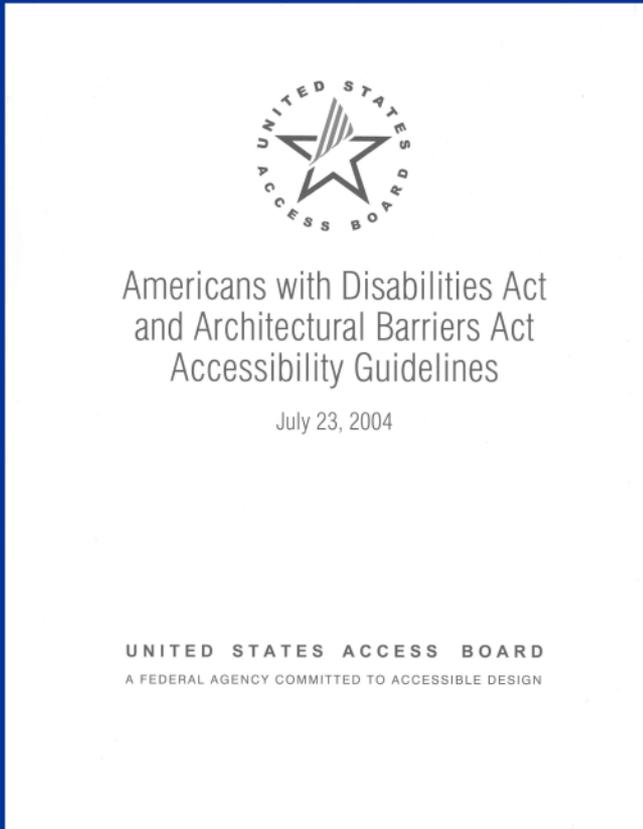
# APPLICATION

- Final guidelines will apply to outdoor developed facilities “constructed or altered by or on behalf of the Federal government”
- Future rulemaking will apply guidelines to facilities constructed or altered -
  - “with Federal grants or loans” (ABA)
  - covered by Title II or III of the ADA



# ADA-ABA Accessibility Guidelines

## Format and organization



**ADA Chapter 2  
Scoping**

**ABA Chapter 2  
Scoping**

**Technical  
Chapters  
(3 – 10)**

# Format and organization

- ABA Chapter 2:  
Scoping Requirements
- F244 Camping Facilities
- F245 Picnic Facilities
- F246 Viewing Areas
- F247 Trails
- F248 Beach Access Routes

# Format and organization

## Chapter 10: Recreation Facilities

- 1011 Outdoor Constructed Features
- 1012 Parking Spaces within Accessible  
Camping Units and Picnic Units
- 1013 Tent Pads and Tent Platforms
- 1014 Camp Shelters
- 1015 Viewing Areas
- 1016 Outdoor Recreation Access Routes
- 1017 Trails
- 1018 Beach Access Routes
- 1019 Conditions for Exceptions

# Trails

- Pedestrian route developed primarily for outdoor recreational purposes
- Newly constructed/altered trail directly connected to a trailhead or another trail complying with guidelines
- Conditional exceptions permitted – new and altered
- Shared use paths to be addressed in upcoming rulemaking

# Trailheads

- Outdoor space developed to serve as an access point to a trail
  - Not a junction of two or more trails where no other access point is provided
- 20% of each type of outdoor constructed feature provided within trailhead to be accessible



# Trail signs

- New signs provided at trailheads on newly constructed or altered trails
- Required information
  - length of the trail or trail segment
  - surface type
  - tread width (typical/minimum)
  - running and cross slope (typical/maximum)



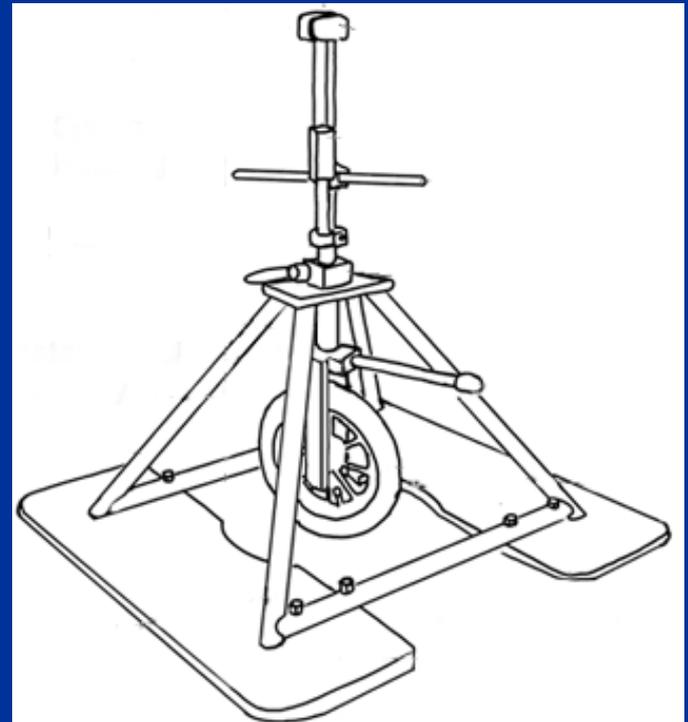
# Trails

- 36 inches minimum width
- Passing spaces – every 1,000 feet where less than 60 inches in width
- Tread obstacles – 2 inches maximum, except concrete, asphalt, or board = ½ inch
- Openings – ½ inch maximum (302.3)



# Trails

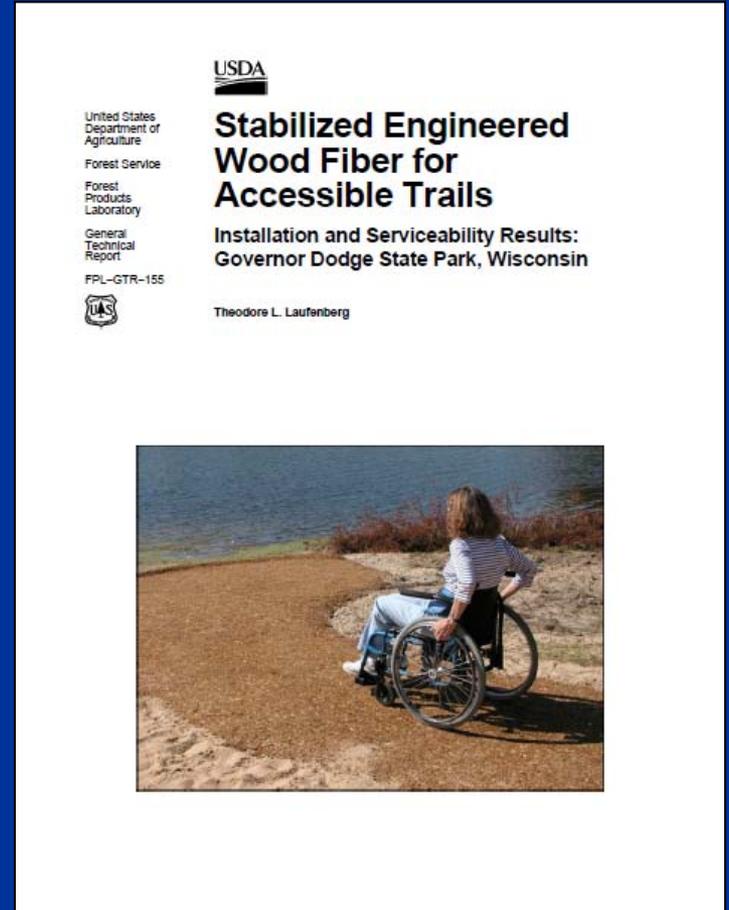
- Surface – firm and stable



# Research Projects



## National Trails Surface Study



# Trails

| Running Slope of Trail Segment |                      | Maximum Length of Segment |
|--------------------------------|----------------------|---------------------------|
| Steeper than                   | But not Steeper than |                           |
| 1:20                           | 1:12                 | 200 feet (61 m)           |
| 1:12                           | 1:10                 | 30 feet (9 m)             |
| 1:10                           | 1:8                  | 10 feet (3050 mm)         |

# Trails

- Cross slope – 1:20 max, except concrete, asphalt, or boards = 1:48
- Resting intervals – 60 in. long, alongside trail - turning space, slope 1:20 max, except concrete, asphalt, or boards = 1:48
- Protruding objects – “constructed features”
- Gates and barriers – clear width, gate hardware



# Trail Facilities

- Routes that connect trails = trail

Camping facilities

Picnic facilities

Viewing areas

Pit toilets



- Trails that do not meet the guidelines
- Outdoor constructed features

# Conditional exceptions

- Apply on a provision-by-provision basis
- Where full compliance with a technical provision is not possible because of the limitations and constraints included in the conditional exceptions...
- “extent practicable”

# Entire trail exemption

- When applying conditional exceptions to portions of the trail results in exempting the entire trail or beach access route from the technical provisions...
- Notify the Board where an entire trail or beach access route is exempted
- Technical assistance available

# Conditional exceptions

- Compliance is not feasible due to terrain
- Compliance cannot be accomplished with the prevailing construction practices



# Conditional exceptions

- Compliance would fundamentally alter the function or purpose of the facility or the setting
- Compliance is precluded by the:
  - Endangered Species Act;
  - National Environmental Policy Act;
  - National Historic Preservation Act;
  - Wilderness Act; or
  - Other Federal, State, or local laws

# Types of Facilities



Sidewalks



Accessible Route



Trails

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Shared-use Paths

# Outdoor constructed features



**UNITED STATES ACCESS BOARD**

# Outdoor constructed features

- Picnic tables
- Fire rings
- Grills
- Fireplaces and woodstoves
- Trash and recycling containers
- Water hydrants
- Utility and sewage hookups
- Outdoor rinsing showers
- Benches
- Telescopes and periscopes

# Outdoor constructed features

- **Scoping** - Camping facilities, Picnic facilities; Viewing areas, Trailheads, and Trails
- Outdoor constructed features are not scoped at beaches



# Outdoor constructed features

- Clear ground space – exception where feature is altered, but surface is not OR where conditional exceptions permit departures in alterations
- Size and location – addressed in a table for each element
- Surface – firm and stable
- Surface slope – 1:33 except asphalt, concrete, or boards = 1:48 maximum
- Openings – (302.3)

# Picnic tables

- One wheelchair space for each 24 linear feet of usable table surface, knee and toe clearance required at space (306)



# Picnic tables

- Positioned for forward approach
- Knee and toe complying with 306
- 36 inches along all usable sides of the table



# Fire rings, grills, fireplaces, and woodstoves

- fire building surface - 9 inches minimum above the clear ground space
- cooking surface – 15 inches minimum – 34 inches maximum above clear ground space.



# Fire rings, grills, fireplaces, and woodstoves

- Clear space - 48 inches by 48 inches on all usable sides of the fire ring, grill, fireplace, or woodstove
- Center the space on each usable side
- Raised edges/walls – depth 10 inches max.
- Operable parts – must be in reach range but no req. for grasping, twisting, pinching (309.4)



# Telescopes and periscopes

- Where provided in viewing areas 20%, not < 1 of each
  - – eyepieces located between 43 inches minimum and 51 inches maximum
- Operable parts – exceptions for several features



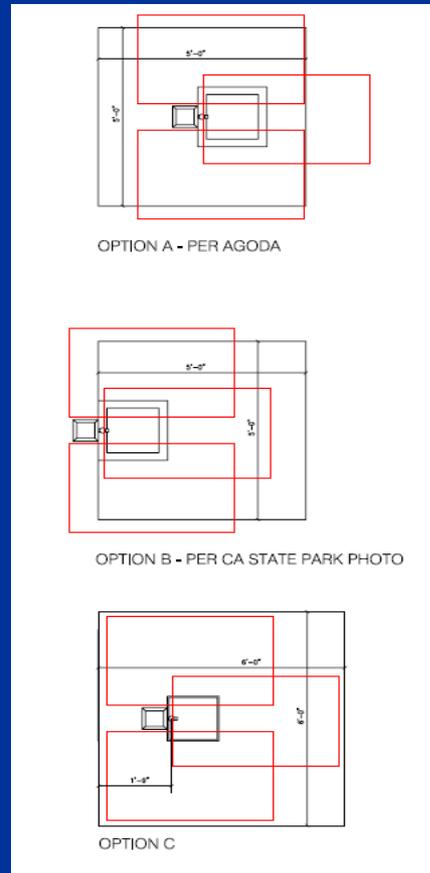
# Telescopes and periscopes

- 36 inches by 48 inches positioned for forward approach.
- Eyepiece centered on the space.
- Knee and toe clearance complying with 306.



# Water hydrants

- 48 by 72 inches
- Located so that water spout is 11" min. and 12" max. from the rear center of the long side of the space
- Adjoining ORAR, trail, or another clear space



# Water hydrants

- Water spouts – 28 inches minimum – 36 inches maximum.
- Operable parts – comply with reach ranges only
- No requirement for tight grasp, twisting, or pinching with one hand (309.4)



# Utility and sewage hookups

- 30 inches by 60 inches
- Locate space so that the hook-ups are at the rear center
- Bollards may not obstruct the clear ground space



# Outdoor rinsing showers

- Clear ground space - 60 inches by 60 inches centered on the shower heads
- Locate the clear ground space so that the shower pedestal is at rear end of the space.
- At least two fixed heads
  - 48 inches minimum – 54 inches maximum
    - exception where hand held is provided
  - 72 inches minimum



# Benches

- Clear ground space - 36 inches by 48 inches positioned near the bench with one side of the space adjoining an ORAR or trail.
- Clear ground space may not overlap the outdoor recreation access route or trail.



# Trash and recycling containers

- **Clear ground space**
  - 36 X 48 – forward**
  - 30 X 60 – parallel**
  
- **Adjoin or connect to an ORAR, trail**

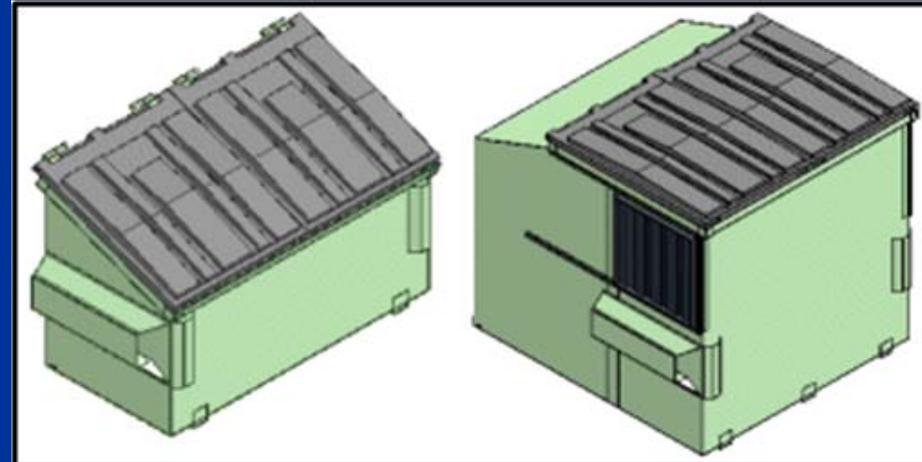


# Trash and recycling containers

- Hinged lid receptacles designed to keep out large animals not required to comply with operable parts. (309.4)



- Dumpster type trash and recycling receptacles - not required to comply with reach ranges or operable parts.



# Picnic facilities

- Two new terms
  - Picnic facility – developed for outdoor recreational purposes that contains picnic units.



# Picnic facilities

- Picnic unit – outdoor space in a picnic facility that contains outdoor constructed features



# Picnic facilities

- At least 20% of picnic units in picnic facility where two or more picnic units are provided
- Two or fewer = each accessible



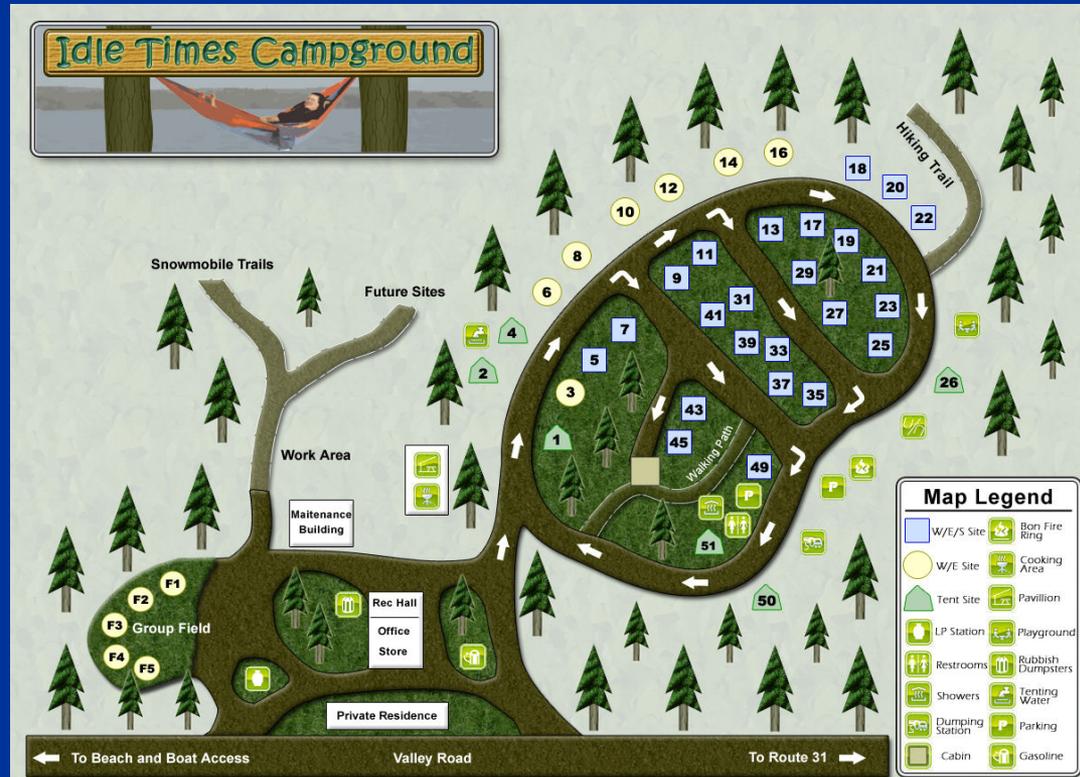
# Picnic facilities

- 20% of outdoor constructed features in public and common use areas serving accessible picnic units
- Dispersion of accessible picnic units required
- ORAR connection



# Camping facilities

- Two new terms
  - Camping facility – developed for outdoor recreational purposes that contains camping units.



# Camping facilities

- Camping unit – outdoor space in a camping facility that contains outdoor constructed features, RV parking spaces, tent pads or tent platforms, or camp shelters.



# Camping facilities

| <b>Total Number of Camping Units Provided in Camping Facility</b> | <b>Minimum Number of Accessible Camping Units Required</b> |
|---|--|
| 1   | 1  |
| 2 to 25   | 2  |
| 26 to 50  | 3  |
| 51 to 75  | 4  |
| 76 to 100   | 5  |
| 101 to 150  | 7  |
| 151 to 200  | 8  |
| 201 and over  | 8, plus 2 percent of the number over 200                   |

# Camping facilities

- Applies to each type of camping unit provided.
- Dispersion of accessible camping units required



# Outdoor constructed features

- Multiple features within accessible units at least 2
- 20% of OCF's in public and common use areas serving accessible camping units
- ORAR connection



# Camping facilities

- Parking spaces within accessible camping units
  - RV space – 20 feet wide minimum, exception for 16 feet where two adjacent spaces are provided
  - Other vehicles – 16 feet wide minimum
  - Surface – firm and stable
  - Slope - 1:33 maximum, except asphalt, concrete, or boards = 1:48



# Camping facilities

- Tent pads and tent platforms
  - Clear ground space – 48 inches on all usable sides, exception where conditional exceptions apply
  - Surface – stable and firm
  - Slope – 1:33 maximum, except asphalt, concrete, or boards = 1:48
  - Tent platform – 19 inches maximum above surface



# Camping facilities

## Tent platforms/ Camping shelters

- Floor height where elevated at entrance - 19 inches maximum above ground
- Where level entry or ramped entry is provided – turning space required



# Camping facilities

- Camp shelters – conditional exceptions may apply
  - Clear ground space at entrance – 36 inches minimum by 48 inches minimum
  - Surface – firm and stable
  - Slope – 1:33 maximum, except asphalt, concrete, or boards = 1:48



# Viewing areas

- Outdoor space developed for viewing a landscape or point of interest
- 20% of each type of outdoor constructed feature
- ORAR connection



# Viewing areas

- Clear ground space –
  - at each distinct viewing location
  - one full unobstructed side of space to adjoin or overlap an ORAR, trail, or another clear ground space



# Viewing areas

Conditional exceptions permitted when altering existing viewing areas



# Outdoor Recreation Access Route

- **Modified accessible route**
- **Connects outdoor constructed features within picnic facilities/units, camping facilities/units, designated trailheads or viewing areas**



# Outdoor recreation access routes

- Conditional exceptions permitted when altering existing ORAR



# Outdoor recreation access routes

- Where ORAR are provided within vehicular ways – exception for passing spaces, slope, and resting intervals



# Outdoor recreation access routes

- Adjacent recreation facilities



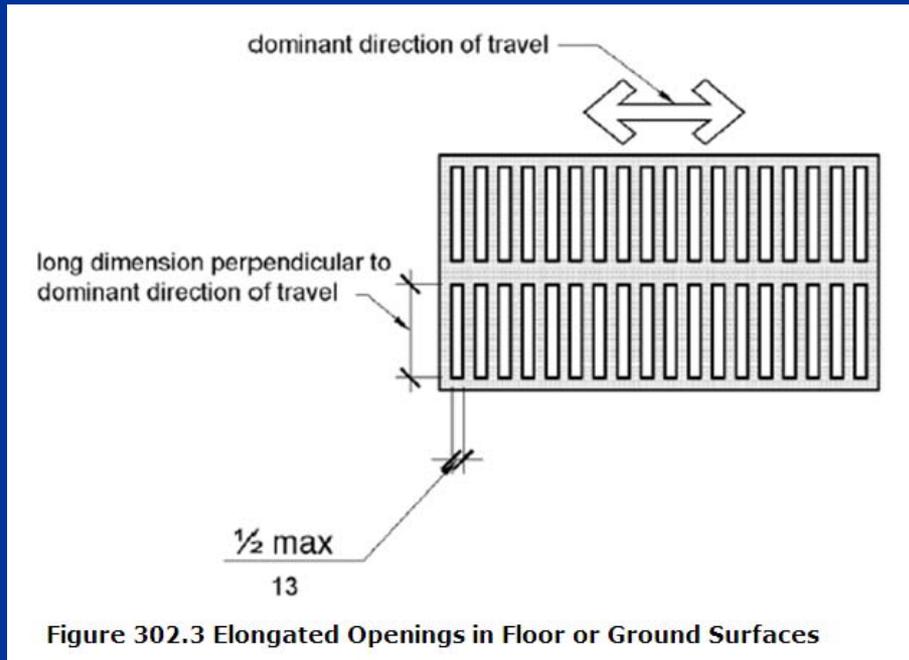
# Outdoor recreation access routes

- Surface – firm and stable
- Clear width – 36 inches minimum
- Passing space – required where width is less than 60 inches
- Obstacles – 1 inch maximum, except concrete, asphalt, or boards = ½ inch
- Openings – (302.3)



# Outdoor recreation access routes

- Openings – (302.3)





# Outdoor recreation access routes

| Running Slope of Segment of Outdoor Recreation Access Route |                      | Maximum Length of Segment |
|---|----------------------|---------------------------|
| Steeper than  | But not Steeper than |                           |
| 1:20  | 1:12                 | 50 feet (15 m)            |
| 1:12  | 1:10                 | 30 feet (9 m)             |

# Outdoor recreation access routes

- Cross slope – 1:33 maximum, except concrete, asphalt, or boards = 1:48
- Resting intervals – 60 inches in length minimum, adjacent to ORAR - turning space
- Protruding object – constructed elements

# Beach access routes

Where required –

The construction or alteration of any of the following facilities to serve the beach:

1. Circulation paths;
2. Parking facilities;
3. Toilet facilities; or
4. Bathing facilities

Exception limits the cost of the beach access route to no more than 20 percent of the cost of constructing or altering the facilities

# Beach access routes

- Permanent or removable
- Minimum number – at least one for each ½ mile of shoreline managed by the entity
  - Not required to exceed the number of pedestrian access points to a beach provided by the entity



# Beach access routes

- Connections -
  - High tide level
  - Mean high water
  - Normal recreation pool
- Clear width - 60 inches min.
- Surface - firm and stable
- Obstacles - 1 inch max, except concrete, asphalt, or boards = 1/2 inch
- Openings - (302.3)



# Beach access routes

| Running Slope of Segment of Beach Access Route |                      | Maximum Length of Segment |
|--|----------------------|---------------------------|
| Steeper than                                   | But not Steeper than |                           |
| 1:20   | 1:12                 | 50 feet (15 m)            |
| 1:12   | 1:10                 | 30 feet (9 m)             |

# Beach access routes

- Exception for slope and resting intervals where removable surface is used
- Cross slope – 1:33 maximum, except concrete, asphalt, or boards = 1:48
- Resting intervals – 60 inches by 60 inches
- Protruding objects – constructed element



# Next steps

- Complete Regulatory Flexibility Analysis/NEPA
- Submit to OMB
- Publish final
- Publish technical assistance material
- Adoption by standard setting agencies
- Rulemaking under the ADA and ABA (Federal grants and loans)

# How to reach the Board

**(800) 872-2253**  
**OR (202) 272-0080**

**Bill Botten -- 202-272-0014**

**outdoor@access-board.gov**  
**[botten@access-board.gov](mailto:botten@access-board.gov)**

**Www.access-board.gov**





# Accessible Routes (206)

Where required:

- Site arrival points
- Within sites - connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site.
- Between stories (elevator exceptions)
- Within recreational facilities
- **ADAAG**

# Accessible Route

- Stable, firm and slip resistant
- Running slope - 1:12 maximum
- Cross slope - 1:48 maximum
- Changes in level (1/4 inch abrupt...1/2 inch beveled)
- Clear width - 36 inches minimum
- Connects accessible elements and spaces on a site

# Sidewalks

- **Sidewalk.** *That portion of a street between the curb line, or the lateral line of a roadway, and the adjacent property line or on easements of private property that is paved or improved and intended for use by pedestrians.*
- **Pedestrian Access Route.** *A continuous and unobstructed walkway within or coinciding with a pedestrian circulation path that provides accessible pedestrian travel.*

# What's Required?

- ADA does not require sidewalks.
- If sidewalks are provided, then they are required to be accessible to and usable by a person with a disability.
- Other things that may necessitate a sidewalk.
  - Safe-Routes to School
  - Transit Stops

# Sidewalk Checklist

- contains 48 inch min pedestrian access route (PAR);
- 1:48 maximum cross slope;
- no protruding objects within sidewalk;
- clear floor space at entrances, pedestrian pushbuttons, and other pedestrian features (drinking fountains, telephones, ATMs...)
- Minimize level changes

# SHARED USE PATH DEFINITION

*DRAFT*

“A multi-use path designed for both transportation and recreation purposes. Shared use paths are typically separated from motorized vehicular traffic by an open space or barrier, either within a highway right of way or within an independent right of way.”

# Overlap issues

- Both sidewalks and SUP within right-of-way
- When shared use paths function as the sidewalk
- Transportation vs. recreation
- Distance of separation from roadway
- Slope limitations

# Comparing Pedestrian Routes

*Accessible Routes*

*Pedestrian Accessible Routes*

*Trails*

*Shared Use Paths*

| PEDESTRIAN ROUTE  | KEY ELEMENTS of DESIGN INTENT  |
|-------------------|--|
| ACCESSIBLE ROUTES | Connects accessible elements and spaces of a building or facility on a site  |
| SIDEWALK          | Parallel to roadway<br>Designed for pedestrians (not bicycles)<br>Sometimes part of the roadway  |
| TRAIL             | Designed for the "recreation experience"<br>Does not connect elements<br>Generally includes a "trailhead"<br>Has limited transportation function                             |
| SHARED-USE PATHS  | Intended for multi-use<br>Bicycle/Transportation focus<br>Machine "laid" surface (improved)<br>Often located in an "independent corridor" outside of the public right of way |

# Technical provisions

|        | Running Slope       | Cross Slope |
|--------|---------------------|-------------|
| AR     | 1:12 max            | 1:48        |
| PAR    | Adjacent road grade | 1:48        |
| Trails | 1:8 max             | 1:20        |
| SUP    | 1:20 max            | 1:48        |

|        | Width         | Surface                      |
|--------|---------------|------------------------------|
| AR     | 36 inches min | Firm, stable, slip resistant |
| PAR    | 48 inches min | Firm, stable, slip resistant |
| Trails | 36 inches min | Firm, stable                 |
| SUP    | 60 inches min | Firm, stable, slip resistant |

# Technical provisions

|        | Changes in Level              | Openings  |
|--------|-------------------------------|---|
| AR     | ¼ inch abrupt; ½ inch beveled | ½ inch max in direction of travel                       |
| PAR    | ¼ inch abrupt; ½ inch beveled | ½ inch max in direction of travel                       |
| Trails | 2 inches (3 inch exception)   | ½ inch max in direction of travel<br>(¾ inch exception) |
| SUP    | ¼ inch abrupt; ½ inch beveled | ½ inch max in direction of travel                       |

|        | Protruding Objects             | Level Areas  |
|--------|--------------------------------|--|
| AR     | 27-80 inch height = 4 inch max | Every 30 inches of rise  |
| PAR    | 27-80 inch height = 4 inch max | NA   |
| Trails | 27-80 inch height = 4 inch max | 1:12 – 200 feet max<br>1:10 – 30 feet max<br>1:8 – 10 feet max |
| SUP    | 27-80 inch height = 4 inch max | NA   |

# Resources

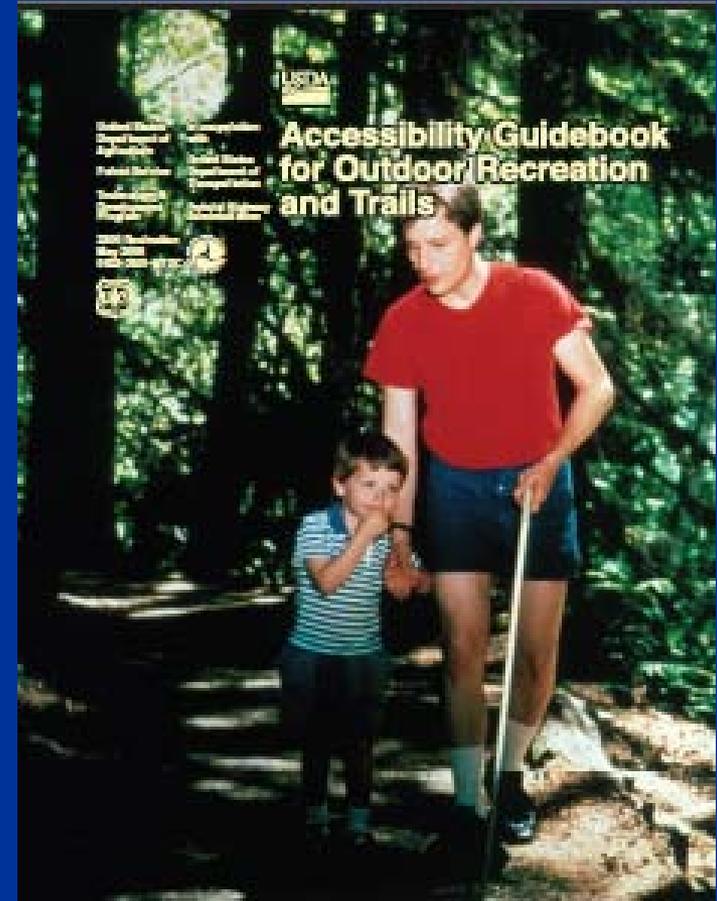
# Forest Service Guidebook



<http://www.trailbuilders.org/>



<http://www.americantrails.org/>



# The Universal Trail Assessment Process (UTAP) **Other**



[www.beneficialdesigns.com](http://www.beneficialdesigns.com)

**U N I T E D   S T A T E S   A C C E S S   B O A R D**

# Trail Websites



[www.wheelchairtrails.net/](http://www.wheelchairtrails.net/)



# Technical Assistance Material



## Guide to ADA Accessibility Guidelines for Play Areas



<http://www.access-board.gov/indexes/pubsindex.htm>

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