



1

Beyond the Built Environment

Chapter 10	Outdoor Areas	Other
<ul style="list-style-type: none"> Amusement rides Fitness equipment Boat slips & boarding platforms Sports Courts/Fields Fishing piers & platforms Golf Miniature golf Play areas Swimming pools Shooting positions 	<ul style="list-style-type: none"> Outdoor facilities <ul style="list-style-type: none"> Picnic areas Viewing areas Campgrounds Trails Beaches 	<ul style="list-style-type: none"> Shared use paths Public rights of way

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Status of Rulemaking

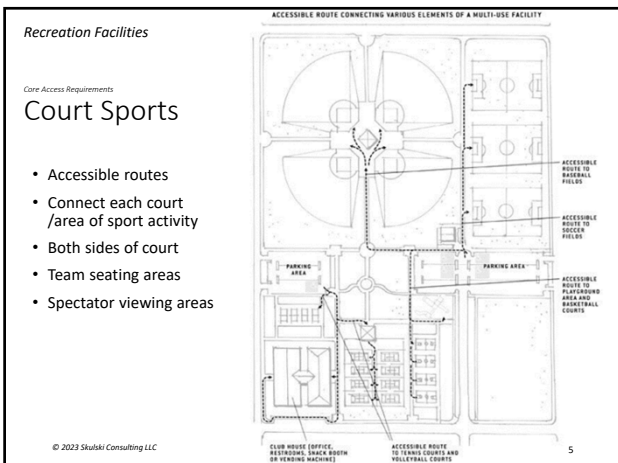
	ADA (Americans with Disabilities Act)	ABA (Architectural Barriers Act)	Best Available Info
Recreation Facilities	✓ (Chapter 10)	✓ (Chapter 10)	
Outdoor Developed Areas		✓ (Chapter 10)	✓
Public Rights of Way (PROWAG)	✓	✓	
Shared Use Paths	✓	✓	

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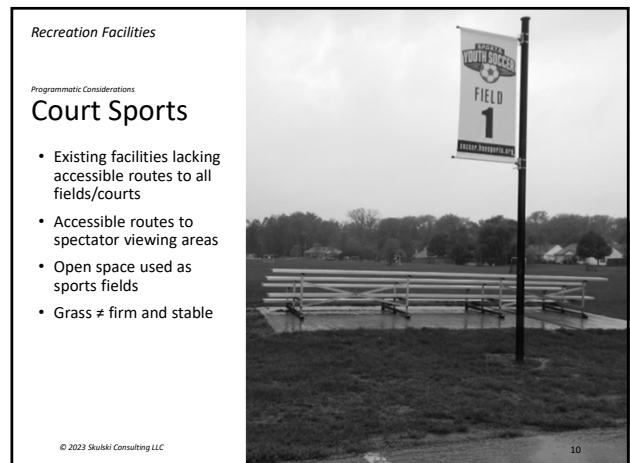
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Exercise Machines & Equipment (236)

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Recreation Facilities

Exercise Machines & Equipment

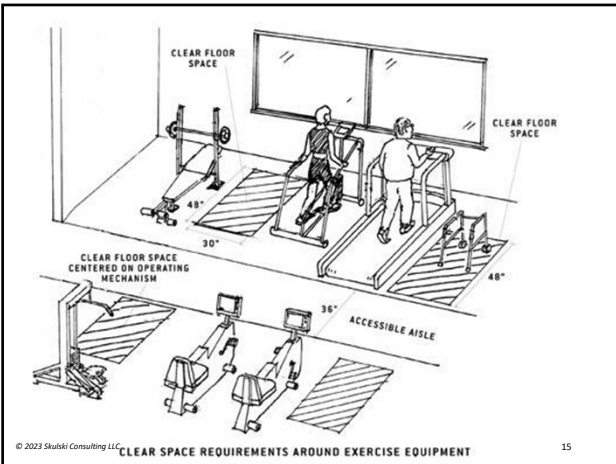
- At least one of each type of exercise equipment/machine
- Accessible route
- Clear floor space for transfer or use seated in a wheelchair



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Recreation Facilities

Programmatic Considerations

Exercise Machines & Equipment

Lack of standards specific to the equipment



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Boating Facilities (235)

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Recreation Facilities

Boating Facilities

Covered

- Fixed & floating facilities
- Marinas
- Launching facilities
- Piers
- Docks

Not Covered in this Section

- Ferry docks
- Passenger vessel docks
- Access on/off passenger vessel

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Recreation Facilities

Boating Facilities

- Accessible route to boat slips
- Accessible boat slips (similar to accessible parking)
- Dispersed
- Boarding piers




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Recreation Facilities

Boating Gangways

- A variable-sloped pedestrian walkway
- Links a fixed structure or land with a floating structure.
- Must be designed to provide for a maximum 1:12 (8.33%) slope.
- Exception: A slope may exceed 8.33% requirements when:
 - A gangway is at least 80 feet in length in larger facilities,
 - There are less than 25 boat slips and at least 30 feet long



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Recreation Facilities

Boat Slips

- The portion of a pier where a boat is berthed or moored, or used for embarking or disembarking.
- Where slips are not defined, 40 linear feet of mooring space is a slip
- Accessible slips must be dispersed throughout various types provided. Consider:
 - Shallow water/deep water
 - Transient/long term lease
 - Covered/uncovered
 - Features provided (water, electricity, cable, telephone)

Total Number of Boat Slips Provided in Facility	Minimum Number of Required Accessible Boat Slips
1 to 25	1
26 to 50	2
51 to 100	3
101 to 150	4
151 to 300	5
301 to 400	6
401 to 500	7
501 to 600	8
601 to 700	9
701 to 800	10
801 to 900	11
901 to 1000	12
1001 and over	12, plus 1 for every 100, or fraction thereof, over 1000


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Recreation Facilities

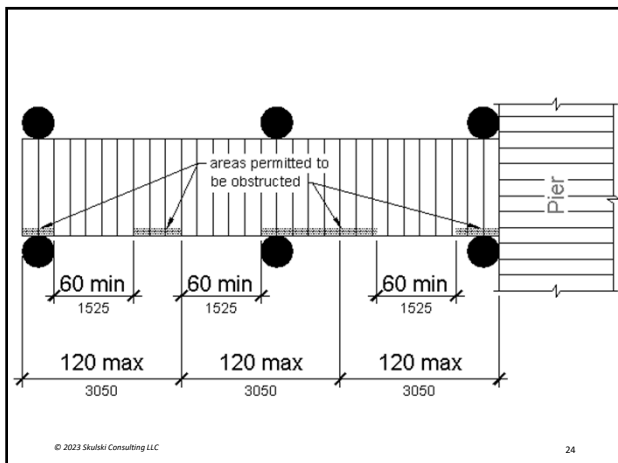
Accessible Boat Slips & Boarding Piers

Each 10 feet max of linear pier edge must have at least one 60 inch minimum continuous clear opening



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Recreation Facilities

Common Issues

- Changes in level exceeding ¼ inch vertical or ½ inch beveled



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Recreation Facilities

Programmatic Considerations

Boating Facilities

- Boat launches and courtesy docks
- Rentals
- Reservations
 - Accessible boat slips do not need to be marked
 - Accessible slips will be held for persons with disabilities until all other slips are filled.
 - At that point, accessible slips are opened for general use on a first come, first served basis.




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Recreation Facilities

Kayak/Canoe Launches

- Kayak/canoe launches are not specifically addressed in 2010 standards
- Should be located on an accessible route
- Universal designed kayak/canoe launches are considered a best practice



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Recreation Facilities



Fishing Piers and Platforms (237)

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Recreation Facilities

Fishing Piers and Platforms

<p><u>Covered in Standards</u></p> <ul style="list-style-type: none"> • Facilities specifically designed and constructed for fishing. 	<p><u>Not Covered</u></p> <ul style="list-style-type: none"> • Bridges • Flood control dams • Breakwater jetties
--	---


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Recreation Facilities

Fishing Piers & Platforms

- Accessible routes
- Passing space every 200 ft
- Railing height & edge protection
- Clear floor space
- Dispersion
- Same gangway exception for running slope as for boating facilities




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Recreation Facilities

Fishing Piers and Platforms

- Where provided, at least 25 percent of handrails must be 34 inches high maximum.
- Dispersion
 - Lowered rails shall be dispersed based on:
 - Location
 - Water depths
 - Shade
 - Vegetation
 - Proximity to shoreline or bank



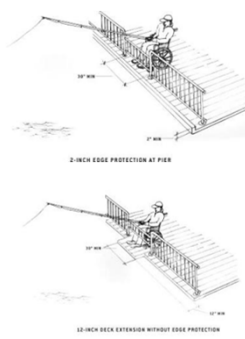
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Recreation Facilities

Fishing Piers and Platforms

- Clear floor or ground space
 - Required at each location where accessible rails are provided
 - Where no rails are provided, at least one clear space required.
- Turning space
 - At least one turning space required
- If handrails are provided, edge protection must be provided:
 - Must extend 2 inches minimum above the surface OR
 - Deck surface must extend 12 inches minimum beyond the railing
 - Toe clearance 30 inches wide and 9 inches high minimum



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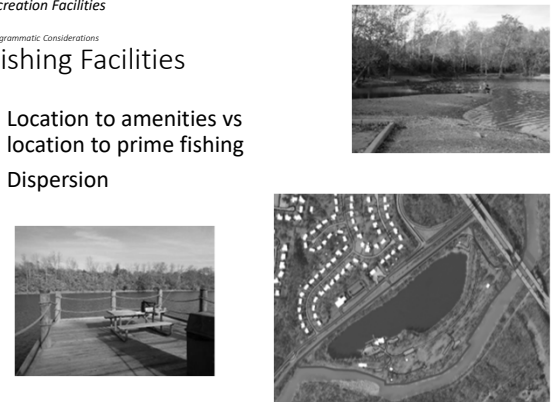
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Recreation Facilities

Programmatic Considerations


Fishing Facilities

- Location to amenities vs location to prime fishing
- Dispersion



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Golf Facilities (238)


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Recreation Facilities

Golf Facilities

- Accessible routes serving teeing grounds, practice areas, putting greens, weather shelters, golf car rental areas, bag drops and toilet rooms
- Golf car passage minimum 48" width




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Recreation Facilities

Golf Facilities

- Where curbs or other constructed barriers prevent golf cars from entering a fairway, openings 60 inches wide minimum shall be provided at intervals not to exceed 75 yards.




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Recreation Facilities

Golf Facilities

- A clear floor or ground space 60 inches minimum by 96 inches minimum shall be provided within weather shelters.



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Recreation Facilities

Programmatic Considerations

Golf Facilities

Single rider golf cars



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Recreation Facilities

Miniature Golf Facilities (239)

- At least 50% of holes must be accessible
- Configured for consecutive play



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Recreation Facilities



Swimming Pool Access (242)

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Recreation Facilities

Swimming Pools

At least 2 means of entry.*



Primary Mean of Entry	Secondary Mean of Entry
<ul style="list-style-type: none"> • Sloped entry • Pool lift 	<ul style="list-style-type: none"> • Transfer wall • Transfer system • Pool stairs

One accessible mean of entry via sloped entry or pool lift

Exceptions:
Pools less than 300 linear feet
Wave action pools, leisure rivers, sand bottom pools, and other pools where user access is limited to one area

Catch pools = no accessible mean of entry required, BUT the pool must be on an accessible route.

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Recreation Facilities

Wading Pools & Spas

- Wading pools
 - Sloped entry
- Spas
 - One mean of entry
 - Pool lift
 - Transfer wall
 - Transfer system



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Recreation Facilities

Sloped entry

- Chapter 4 accessible route applies
- Sloped entry must extend to pool depth 24-30 inches with level landing
- Handrails on both sides, 33-38 clear width
 - Exceptions for wave action pools, etc where access is limited to one side & wading pools



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Recreation Facilities

Pool lift

- Located where the water level does not exceed 48"
- Exception to location for pools where the entire pool depth is greater than 48"




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Recreation Facilities

Pool lift

- Seat location
- Clear deck space
- Centerline of the seat shall be located over the deck and 16" min from the edge of the pool
- Seat height 16-19"
- Width
- Armrests and footrests
- Independently operable from deck & submerged positions




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DOJ Guidance

- Program access
- Readily achievable barrier removal
- Fixed lift vs portable lift
- Sharing accessible equipment between pools is not permitted, unless it would result in undue burdens to provide equipment at each one.



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Recreation Facilities



Play Areas(240)

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Recreation Facilities

Play Areas

- New construction
- Alterations
- Accessible routes connecting accessible play components
- Ground level play components
- Elevated play components




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Recreation Facilities

Ground Level Play Components

- Approached and exited at ground level
- At least one of each type must be accessible
- Examples of "type"
 - Climbing
 - Spinning
 - Rocking
 - Swinging
 - Sliding
- Integrated throughout play area
- Clear floor space 30 x 48"
- 1:48 in all directions
- Transfer height 11 – 18"



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Recreation Facilities

Additional Ground Level Components

- Required where elevated components are provided
- Additional number is based on total number of elevated components (240.2.1.2)

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
1	Not applicable	Not applicable
2 to 4	1	1
5 to 7	2	2
8 to 10	3	3
11 to 13	4	3
14 to 16	5	3
17 to 19	6	3
20 to 22	7	4
23 to 25	8	4
26 and over	8, plus 1 for each additional 3, or fraction thereof, over 25	5

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Recreation Facilities

Elevated Play Components

At least 50% of all elevated play components must be on an accessible route.

Less than 20 elevated components

- Access via
 - Ramp and/or transfer system

More than 20 elevated components

- Access via
 - 25% ramp + 25% ramp and/or transfer system

Where 50% of elevated play components are accessible via ramp, no additional ground level components are required (but there must be at least 3 different types of elevated accessible components).

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Accessible Routes

To the Playground

- ADAAG 4.3 Accessible Routes (ADA-ABA Chapter 4 Accessible Routes)
 - Location
 - Width
 - Passing space
 - Head room
 - Surface textures
 - Slope
 - Changes in level

Within the Playground

- ADA-ABA Chapter 4 Accessible Routes and Chapter 10, Section 1008 Play Areas
 - Location
 - Clear width
 - Ramps
 - Ground surfaces

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Recreation Facilities

Accessible Routes for Play Areas

1008.2 Accessible Routes. Accessible routes serving play areas shall comply with Chapter 4 and 1008.2

Chapter 4

- 402 Accessible routes
 - 402.2 Components
- 403 Walking surfaces
 - 403.2 Floor or ground surface
 - 403.3 Slope
 - 403.4 Changes in level
 - 403.5 Clearances

Chapter 10

- 1008.2.4 Clear width
- 1008.2.5 Ramps
- 1008.2.6 Ground surfaces
 - 1008.2.6.1 Accessibility
 - 1008.2.6.2 Use zones

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Recreation Facilities

Accessible Routes & Walking Surfaces

- Slope
 - 403.3 The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.
- Floor and ground surface (403.2 refers to 302)
 - 302.1 Floor and ground surfaces shall be stable, firm, and slip resistant.
- Openings
 - 302.3 Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter.
- Changes in level (403.4 refers to 303)
 - 303.2 Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.
 - 303.3 Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.
- Clear width (1008.2.4)
 - Ground level minimum clear width 60 inches
 - Elevated minimum clear width 36 inches
 - Exceptions
 1. In play areas less than 1000 square feet (93 m2), the clear width of accessible routes shall be permitted to be 44 inches (1120 mm) minimum, if at least one turning space complying with 304.3 is provided where the restricted accessible route exceeds 30 feet (9145 mm) in length.
 2. The clear width of accessible routes shall be permitted to be 36 inches (915 mm) minimum for a distance of 60 inches (1525 mm) maximum provided that multiple reduced width segments are separated by segments that are 60 inches (1525 mm) wide minimum and 60 inches (1525 mm) long minimum.


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Recreation Facilities

Accessible Ramps at Play Area

- Ground Level - Ramp runs connecting ground level play components shall have a running slope not steeper than 1:16
- 1008.2.5.3 Handrails.
 - EXCEPTIONS: 1. Handrails shall not be required on ramps located within ground level use zones.
- Elevated – Ramp run cannot exceed 1:12



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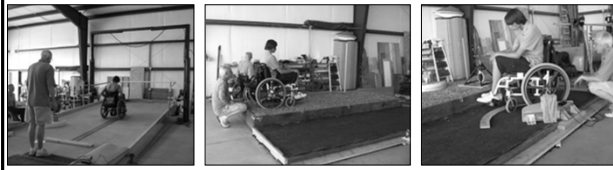
Recreation Facilities

Play Areas Ground Surfaces

- Floor and ground surfaces shall be stable, firm, and slip resistant
- Shall comply with ASTM F1951-99 *Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment*. Ground surfaces shall be inspected and maintained regularly and frequently to ensure continued compliance with ASTM F 1951.
- Ground surfaces located within use zones shall comply with ASTM F 1292 - *Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment*.

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What is ASTM F1951

- A lab test in a controlled environment; with limited portability for field testing
- Wheelchair work method
- 7% ramp used as baseline
- Measures work per sq ft for straight propulsion and turning
- Manual rehabilitation wheelchair with rider 165 + 11 lbs
- Records data applied to pushrim over 6 1/2 ft distance

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Current challenges with ASTM F1951


- ✓ Expensive equipment & not easily transported for field testing
- ✓ Inconsistency following testing protocol
- ✓ Inconsistency preparing sample surfaces
- ✓ Inconsistency of reported test results and documentation to manufacturers

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Need for Standard to Determine Firmness & Stability

- Rotational Penetrometer (also referred to as an Instrumented Surface Indenter)
- Developed by Beneficial Designs as a portable field test to supplement the wheelchair work method in ASTM F1951.
- Wheelchair caster set in spring loaded caliper.
- Measures the vertical displacement of the penetrator.
- Preferred device used in the U.S. Access Board funded longitudinal study on the accessibility of playground surfaces.



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Sample Values for Various Surface Types*

Surface Type	Firmness	Stability
Concrete	.15 - .17	.17 - .19
Turfgrass	.55 - .65	.69 - .79
Carpet <small>(1/8 inch cut pile w/ 1/8 inch pad)</small>	.32 - .43	.41 - .55
Sand	1.13	< 1.13

*The values are from sample surfaces that are not part of a playground installation.

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Clear floor space at approach to accessible play components should be less than 2.08% (1:48) in all directions.

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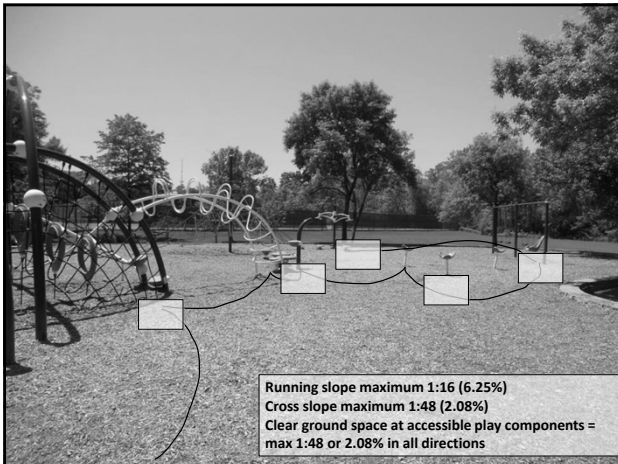
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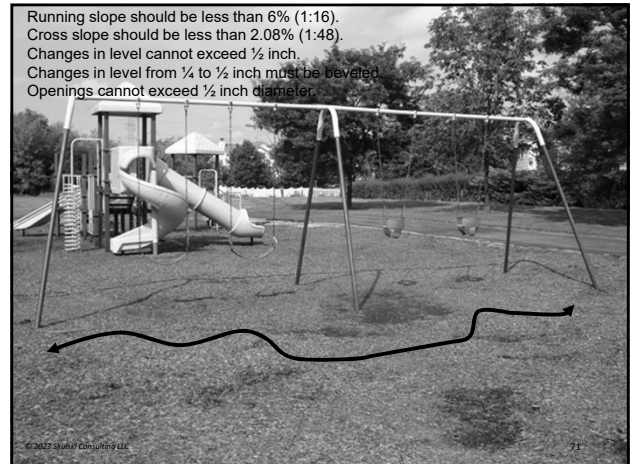
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Recreation Facilities

Planning Considerations for Play Areas

- New construction
 - Site survey
 - Plan review
 - Bid / purchasing specifications with on-site performance testing
 - Inspections & maintenance
- Existing playgrounds
 - Accessibility assessment & safety audit
 - Identify corrective actions
 - Prioritize in transition plan

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Recreation Facilities

Playground Purchasing & Maintenance Considerations

- Purchasing specifications
 - Documents
 - Performance criteria
 - Impact
 - Accessibility
- Surface inspection & periodic testing
 - Upon installation
 - 2-4 year cycle

Webinar archive
<https://accessibilityonline.org/ADA-Audio/archives/110876>


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Recreation Facilities

Other Recreation Facilities Addressed in Chapter 10

- Amusement Rides
- Bowling Lanes
- Shooting Facilities
- Boating Facilities
- Golf Courses
- Miniature Golf



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Recreation Facilities

Amusement Rides

Apply to:

- New construction – First use
- Alterations

Exceptions

- Mobile traveling carnival rides
- Rider operated* (i.e. bumper cars)
- Rides for children*
- Rides without seats*

*Access routes are still required.


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Recreation Facilities

Amusement Rides

- Access route
- Signage
- Load & unload areas
- Wheelchair spaces
- Companion seating
- Seats designed for transfer
- Wheelchair storage space



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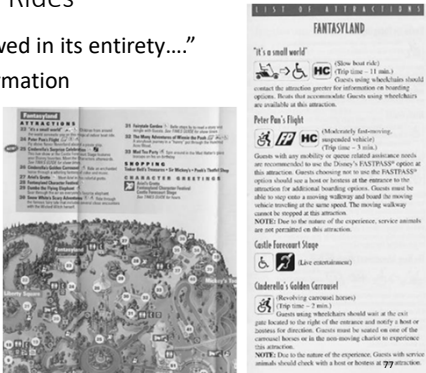
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Recreation Facilities

Programmatic Considerations

Amusement Rides

- “When viewed in its entirety...”
- Visitor information




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Recreation Facilities

Bowling Lanes

- 5%, but not less than one must be on accessible route
- Only team seating areas at accessible lane must be on accessible route




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Recreation Facilities

Shooting Facilities with Firing Positions

- At least 5 % accessible
- Turning space at firing positions



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Other Stuff That Makes You Go Hmmm...
when you can't find it in the 2010 Standards

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Splash Pads

- Not specifically addressed in 2010 standards
- As best practice, apply standards for
 - Accessible route
 - Clear floor space
 - Clear width
 - Reach ranges



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Disc or Frisbee Golf

- Not specifically addressed in 2010 ADA Standards
- Best practice
 - Accessible route to the first tee
 - Course map



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Community Gardens

- Not specifically addressed in 2010 ADA Standards
- Best practice
 - Accessible route to perimeter
 - Accessible route, clear width around one of each type plot
 - Site amenities – water hook up



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Dog Parks

- Not specifically addressed in 2010 ADA Standards
- Best practice
 - Accessible route to entrance & operating mechanisms at gates
 - Accessible sitting area, if provided
 - Site amenities – water fountains, dog wash, dog waste bag dispensers, trash receptacles



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Access to Recreation Facilities
& Outdoor Developed Areas
Part 2

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Beyond the Built Environment

Chapter 10	Outdoor Areas	Other
<ul style="list-style-type: none"> • Amusement rides • Fitness equipment • Boat slips & boarding platforms • Sports Courts/Fields • Fishing piers & platforms • Golf • Miniature golf • Play areas • Swimming pools • Shooting positions 	<ul style="list-style-type: none"> • Outdoor facilities <ul style="list-style-type: none"> • Picnic areas • Viewing areas • Campgrounds • Trails • Beaches 	<ul style="list-style-type: none"> • Shared use paths • Public rights of way

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Status of Rulemaking

	ADA (Americans with Disabilities Act)	ABA (Architectural Barriers Act)	Best Available Info
Recreation Facilities	✓ (Chapter 10)	✓ (Chapter 10)	
Outdoor Developed Areas		✓ (Chapter 10)	✓
Public Rights of Way (PROWAG)	✓	✓	
Shared Use Paths	✓	✓	

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Outdoor Developed Areas

- Trails
- Camping facilities
- Picnic facilities
- Viewing areas
- Beach access routes




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Outdoor Developed Areas

Outdoor Constructed Features (1011)

- Picnic tables
- Fire rings, grills, fireplaces & wood stoves
- Trash and recycling receptacles
- Water hydrants
- Utility and sewage hookups
- Outdoor rinsing showers
- Benches
- Viewing scopes




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Outdoor Developed Areas

Outdoor Constructed Features (1011)

- Number required to be accessible – camping, facilities, picnic facilities; viewing areas, trailheads, and trails (not scoped at beaches)
- 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 – 1:20 except asphalt, concrete, or boards = 1:48 maximum
- Openings = ½ inch maximum



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Outdoor Developed Areas

Outdoor Constructed Features (1011)

Outdoor Constructed Feature	Minimum size and location
Picnic tables	36 inches on all usable sides of the table measured from the back edge of the benches
Fire rings, grills, fireplaces, and woodstoves	48 inches by 48 inches on all usable sides of the fire ring, grill, fireplace, and woodstove. Center the space on each usable side of the grill, fireplace, and woodstove.
Trash and recycling receptacles	36 inches by 48 inches positioned for forward approach to the receptacle opening; or 30 inches by 60 inches positioned for a parallel approach to the receptacle opening.
Water hydrants	72 inches by 48 inches with the long side of the space adjoining or overlapping an outdoor recreation access route or trail, as applicable, or another clear ground space. Locate the space so that the water spout is 11 inches minimum and 12 inches maximum from the rear center of the long side of the space.
Utility and sewage hookups	30 inches by 60 inches with the long side of the space adjoining or overlapping an accessible parking space or pull-up space for recreational vehicles. Locate the space so that the hook-ups are at the rear center of the space. Bollards or other barriers shall not obstruct the clear ground space in front of the hook-ups.
Outdoor rinsing showers	60 inches by 60 inches centered on the shower heads. Locate the space so that the shower pedestal or wall with the shower head are at the rear end of the space.
Benches	36 inches by 48 inches positioned near the bench with one side of the space adjoining an outdoor recreation access route or trail, as applicable. The clear ground space shall not overlap the outdoor recreation access route or trail, or another clear ground space
Viewing Scopes	36 inches by 48 inches positioned for forward approach to the viewing scope. Provide knee and toe clearance complying with 306 under the viewing scope. Locate the space so that the eyepiece is centered on the space.

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Outdoor Developed Areas

Picnic Facility & Picnic Unit (F245)

- A picnic facility is a site, or a portion of a site, that is developed for outdoor recreational purposes and contains picnic units.
- A picnic unit is an outdoor space in a picnic facility that is used for picnicking and contains at least one outdoor constructed feature.

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Outdoor Developed Areas

Picnic Facilities (F245)

- 1 to 2 picnic facilities = each must be accessible
- 2 or more = 20%, but not less than 2 must be accessible
- Dispersed
- Connected by ORAR
(accessible route for Title II facilities)
- Accessible features



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Outdoor Developed Areas

Picnic Tables (1011.4)

- 36" on all usable sides
- Wheelchair seating space 30 x 48" for each 24 linear ft
 - 9 ft tables = 1 wheelchair seating space
 - 10-12 ft tables = 2
- Knee clearance
 - 27" min height
 - 17" min depth

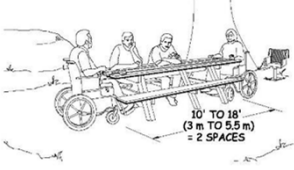


Figure 17—At least two spaces must be accessible at a 10- to 18-foot long picnic table.

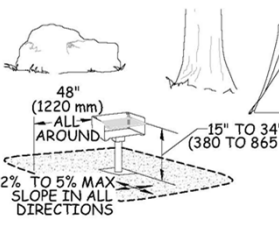
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Outdoor Developed Areas

Fire Rings & Grills (1011.5)

- Clear ground space 48 x 48" minimum on all usable sides
- Clear ground space centered on each usable side
- Cook surface height 15 to 34" max
- Operable parts – to extent practicable



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Outdoor Developed Areas

Fire Rings & Grills (1011.5)

- Raised edges/walls with 10" max depth
- Fire building surface 9 inches minimum above the clear ground space




Figure 21—Requirements for custom-built fire rings.


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Outdoor Developed Areas

Fire Rings & Grills (1011.5)

- Connected to the ORAR or accessible route




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Outdoor Developed Areas

Trash & Recycling Receptacles (1011.2 - 3)

- Clear ground space
 - 36 X 48 – forward
 - 30 X 60 – parallel
- Positioned to receptacle opening
- Adjacent to an ORAR, trail (or accessible route)



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Outdoor Developed Areas

Water Hydrants (1011.2, 1011.3, and 1011.6)

- 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 spouts – 28 to 36" max
- Operable parts – comply with reach ranges only
- Comply with requirement for tight grasp, twisting, or pinching with one hand (309.4) to the extent practicable

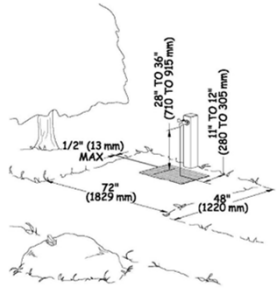


Figure 23—Technical requirements for water hydrants.

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Outdoor Developed Areas

Outdoor Rinsing Showers (1011.7)

- 60 x 60 inch clear ground space centered
- Located with the shower pedestal at rear end of the space
- At least one handhold or fixed head = 48 inches minimum
- Operable control




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Outdoor Developed Areas

Utility & Sewage Hook Ups (1011.2, 1011.3, and 1011.6)

- 30 inches by 60 inches
- Locate space so that the hook-ups are at the rear center
- No bollards in the clear ground space



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Outdoor Developed Areas

Benches (1011.2)

- 36 x 48" clear floor space adjacent and connected to ORAR or trail
- Back support and arm rests are recommended




Figure 11—A bench is an example of an outdoor constructed feature along a trail.


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Outdoor Developed Areas

Scenic Viewing Areas (1011, 1015)

- Clear ground space at least 36 by 48 inches at each distinct viewing location
- Clear view 32 to 51 inches above the ground extending the full width of the clear ground space
- Adjoining ORAR or trail




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Outdoor Developed Areas

Camping Facilities

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



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Outdoor Developed Areas

Camping Facilities

- Applies to each type of camping unit provided
- Dispersed accessible units
- # of accessible units with mobility features based on the total number of camping units (similar to scoping for parking)



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Outdoor Developed Areas

Camping Facilities – Accessible Units with Mobility Features (1012-1014)

- Connected by ORAR (accessible route)
- With accessible outdoor constructed features
 - Multiple features within accessible units; at least 2
- Outdoor constructed features in common uses areas serving accessible camping units a minimum of 20% accessible



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Outdoor Developed Areas

Camping Facilities – Alterations & Additions

- Where camping units are altered or added, requirements apply only to units altered or added...
- Until the number of camping units with mobility features complies with the minimum number required in Table F244.2.

Total Number of Camping Units Provided in Camping Facility	Minimum Required Number of Camping Units with Mobility Features
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


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Outdoor Developed Areas

Camping Facilities – RV (1012)

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




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Outdoor Developed Areas

Camping Facilities – Tent Platforms (1013)

- Floor height where elevated at entrance - 19 inches maximum above ground
- Where level entry or ramped entry is provided – turning space required
- 36 inches minimum by 48 inches minimum space
- Surface – firm and stable
- Slope – 1:20 maximum, except asphalt, concrete, or boards = 1:48
- Conditional exceptions permitted in new and altered




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Outdoor Developed Areas

Camping Facilities – Tent (1013)

- Tent pads and tent platforms
- 48 inches space on all usable sides, exception where conditional exceptions apply
- Surface is stable and firm
- Slope is 1:20 max; except asphalt, concrete, or boards is 1:48
- Tent platform – 19 inches maximum above surface




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Resources

- Summaries of Accessibility Guidelines for Recreation Facilities <https://www.access-board.gov/guidance.html#guidance-on-recreation-facilities>
- Guide for Outdoor Developed Areas <https://www.access-board.gov/aba/guides/chapter-10-outdoor/#introduction>
- Accessibility Online Webinar Archives www.accessibilityonline.org
- ADA Checklists www.adachecklists.org



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Access to Trails, Shared Use Paths & Public Rights of Way Part 3

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Unique Paths

- Accessible Routes
- Outdoor Recreation Access Routes
- Trails
- Beach Access Routes
- Pedestrian Access Routes
- Shared Use Paths
- Pedestrian Circulation Paths


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Accessibility Standards

Accessible Route

- At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site (ADA-ABA 206.2.2)




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Outdoor Developed Areas

Outdoor Recreation Access Route

- Picnic (F245) & Camping Units (F244)
 - Within the accessible units;
 - To common use and public use areas serving the accessible units; and
 - To adjacent recreation facilities from the accessible units.
- To Viewing Areas (F246)
- To Trailheads (F247)



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Outdoor Developed Areas

Trails (F247)

- A pedestrian route developed primarily for outdoor recreational purposes. A pedestrian route developed primarily to connect elements, spaces, or facilities within a site is not a trail.

(Draft Final Accessibility Guidelines for Outdoor Developed Areas, F106.5)



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Outdoor Developed Areas

Beach Access Route (F248)

- Coincide with pedestrian access points;
- From parking facilities, toilet facilities or bathing facilities;
- Including dune crossings, stairways or ramps leading from boardwalks;
- Connect entry point at beach to:
 - High tide level at tidal beaches;
 - Mean high water level at river beaches; or
 - Normal recreation water level at lake, pond, and reservoir beaches.

(Draft Final Accessibility Guidelines for Outdoor Developed Areas, 1018.2)



Source: ACCESSMAT by AccessRec

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Public Rights of Way

Pedestrian Access Route (203.2)

- A continuous and unobstructed path of travel provided for pedestrians with disabilities within or coinciding with a pedestrian circulation path.

Pedestrian Circulation Path

- A prepared exterior or interior surface provided for pedestrian travel in the public right-of-way.




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Public Rights of Way

Shared Use Path (203.3)

- A type of trail designed to be part of a transportation system, providing off-road routes for a variety of users.
- Bicyclists, pedestrians, skaters and others.
- Supplement to on-road bike lanes, shared roadways, bike boulevards, and paved shoulders.
- They may extend or complement a roadway network.
- Design similar to roadway design but on a smaller scale and for lower speeds.



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Example of Deviations in Technical Provisions

Running Slope*

Type of Path	Max slope	Max segment length	Handrails
Accessible Route	Less than 5% 5 to 8.33% max	Infinity 30 ft max	Not required Required
Outdoor Recreation Access Route	Up to 8.33% 8.33 to 10% max	50 ft max 30 ft max	Exception
Trail	Up to 8.33% 8.33 to 10% 10 to 12% max	200 ft max 30 ft max 10 ft	Exception
Beach Access Route	Up to 8.33% 8.33 to 10% max	50 ft max 30 ft max	Exception
Golf Access Route	Max slope not specified Alternative for Golf Car Passage		Exception
Playground Access Route	Up to 6.25% max	Not specified	Exception
Pedestrian Access Route	5% within right of way <u>or</u> grade established of adjacent street; 5% max outside of contained right of way	Not specified	Not specified

*Additional technical provisions are required.

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Group Exercise

- Identify the different types of paths located throughout the facility. What kind of path is it? An accessible route? An outdoor recreation access route? A trail? A pedestrian access route? A shared use path?
- Which technical provisions should be applied to each path?
- Should other paths be planned for visitor use?

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Outdoor Developed Areas

Outdoor Recreation Access Routes

- A continuous, unobstructed path that is intended for pedestrian use and that connects accessible elements, spaces, and facilities within camping and picnic facilities and at viewing areas and trailheads.
- ORARs cannot be used at other types of facilities, such as educational campuses, office parks, or theme parks.

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Outdoor Developed Areas

Outdoor Recreation Access Routes (1016)

- 36" min width
- 60 x 60 passing space every 200 ft min
- Tread obstacles ½" max C/A/B or 1" max other surface type
- Openings ½" max
- Resting intervals
- Protruding objects

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Outdoor Developed Areas


Outdoor Recreation Access Routes (1016)

Running Slope

- 1:20 (5%) for any distance
- 1:12 (8.33%) for 50 ft max
- 1:10 (10%) for 30 ft max

Cross slope

- 1:48 (2.08%) C/A/B
- 1:20 (5%) max for other surface type



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Outdoor Developed Areas

Trails (1017)

- Newly constructed trails
- Existing trails
 - When the original design, function, or purpose is changed.
 - Altered portion of the trail directly connects to a trailhead or another trail that substantially meets the technical requirements for trails.
 - The altered portion of the existing trail must comply with the technical requirements for trails.


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Outdoor Developed Areas

Trails (1017)

- Firm & stable surface
- 36" min clear width
- Turning space at intervals not greater than 1,000 ft




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Outdoor Developed Areas

Trails (1017)

- Tread obstacles ½" max C/A/B or 2" max other surface type
- Protruding objects



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Outdoor Developed Areas

Trails (1017)

Running Slope

- 1:20 (5%) for any distance
- 1:12 (8.33%) for 200 ft max
- 1:10 (10%) for 30 ft max
- 1:8 (12.5%) for 10 ft max



Cross slope


- 1:48 (2.08%) C/A/B
- 1:20 (5%) max for other surface type

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Outdoor Developed Areas

Conditions for Exceptions (1019)



1. Compliance is not practicable due to terrain.
2. Compliance cannot be accomplished with the prevailing construction practices.
3. Compliance would fundamentally alter the function or purpose of the facility or the setting.
4. Compliance is limited or precluded by any of the following laws, or by decisions or opinions issued or agreements executed pursuant to any of the following laws:
 - Endangered Species Act (16 U.S.C. §§ 1531 et seq.);
 - National Environmental Policy Act (42 U.S.C. §§ 4321 et seq.);
 - National Historic Preservation Act (16 U.S.C. §§ 470 et seq.);
 - Wilderness Act (16 U.S.C. §§ 1131 et seq.); or
 - Other federal, state, or local law the purpose of which is to preserve threatened or endangered species; the environment; or archaeological, cultural, historical, or other significant natural features.

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Outdoor Developed Areas

Noted Conditions for Exceptions

- 1011.2 Exception (clear ground space in alterations to outdoor constructed features);
- 1013.2 Exception (any provision for tent pads and tent platforms);
- 1014.1 Exception 1 (any provision for camp shelters);
- 1015.1 Exception (any provision in alterations to viewing areas);
- 1016.1 Exception 1 (any provision for outdoor recreation access routes in alterations to existing camping facilities, picnic facilities, and trailheads);
- 1016.1 Exception 2 (any provision for outdoor recreation access routes at viewing areas);
- 1017.1 Exception 1 (any provision for trails); and
- 1018.1 Exception 1 (any provision for beach access routes).


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Outdoor Developed Areas

Trailhead

- Access point to the trail
- 20% of each type of outdoor constructed feature provided within trailhead to be accessible
- At least one outdoor recreation access route to connect to parking, site arrival point, the starting point of trail, accessible elements, spaces, and facilities within trailhead




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Outdoor Developed Areas

Trailhead Signage (1017.10)

- Length of the trail or trail segment
- Type of trail surface
- Typical and minimum trail tread width
- Typical and maximum trail grade
- Typical and maximum trail cross slope
- NO International Symbol for Accessibility



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Universal Trail Assessment Process




https://www.beneficialdesigns.com/images/BDphotos/UTAP-HETAP_Lakeshore_Video_2017-01-26.mpd

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Trails & the Title II Program Access Standard

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Outdoor Developed Areas

Beach Access Routes (1018)

- Required when entity constructs or alters any circulation paths, parking facilities, toilet facilities, or bathing facilities that serve the beach (not to exceed 20% of the costs of construction or alteration).
- Beach nourishment project (not to exceed 20% of the costs of a beach nourishment project to provide beach access routes).

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Outdoor Developed Areas

Beach Access Routes (1018)

- One beach access route for every ½ mile of shoreline administered by the agency
- Coincide with pedestrian access points
- Connect an entry point to
 - the high tide level at tidal beaches
 - the mean high water level at river beaches
 - the normal recreation water level at lake, pond, and reservoir beaches

A map showing a coastline with various beach access routes marked. The routes are shown as lines connecting the shore to inland areas.

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Outdoor Developed Areas

Beach Access Routes (1018)

- 60" min width (can reduce to 48" at dune crossings)
- Tread obstacles ½" max C/A/B or 1" max other surface type
- Openings ½" max
- Resting intervals
- Protruding objects

A photograph of a beach access route. The route is a paved path leading to a small structure on the beach. The path is wide and appears to be made of concrete or asphalt.

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Outdoor Developed Areas

Beach Access Routes (1018)

Running Slope

- 1:20 (5%) for any distance
- 1:12 (8.33%) for 50 ft max
- 1:10 (10%) for 30 ft max

Cross slope

- 1:48 (2.08%) C/A/B
- 1:20 (5%) max for other surface type

A photograph of a beach access route. A person in a wheelchair is using the paved path. There is a signpost with an American flag and a sign that says "BEACH ACCESS ROUTES".

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Access to **Shared Use Paths & Public Rights of Way**


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Public Rights of Way
Public Rights of Way Accessibility Guidelines (PROWAG)

- Final guidelines issued August 8, 2023 (NPRM 2011)
- <https://www.access-board.gov/prowag/complete.html>




- Pedestrian access routes
- Pedestrian crossings
- Curb ramps & blended transitions
- Detectable warnings
- Accessible pedestrian signals
- Furnishings
- On-street accessible parking spaces
- Shared use paths

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Public Rights of Way
Pedestrian Access Route

- 4 ft min clear width, exclusive of the width of the curb
- Running slope
 - Within right of way: 5% max OR grade established for adjacent street
 - Not within right of way: 5% max
 - Within a crosswalk: 5% max




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Public Rights of Way
Pedestrian Access Route

- 2% max cross slope
- Changes in level
 - ¼ inch vertical
 - ¼ inch beveled
 - Up to 6 inches with 8.33% running slope
 - Greater than 6 inches must comply as ramp
- Stable, firm and slip resistant surface
- Horizontal openings shall not allow passage of ½ inch sphere; elongated openings are permitted with long dimension perpendicular to dominant path of travel.




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Public Rights of Way
Curb Ramps & Blended Transitions (304)

- Perpendicular and parallel curb ramps with max 8.33% running slope
- Blended transition up to 5% running slope
- Minimum width 48 inches
- Detectable warnings are now required




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Public Rights of Way
Pedestrian Access Route at Shared Use Path

- (203.3) Pedestrian access routes complying with R302 shall be provided within pedestrian circulation paths, including sidewalks and shared use paths.
- On shared use paths, the clear width of the pedestrian access route shall extend the full width provided for pedestrian circulation on the path. Obstructions, such as bollards, shall not reduce the clear width of the pedestrian access route to less than 48 inches measured from the edge of the obstruction.
- Where the clear width of pedestrian access routes is less than 60 inches, passing spaces shall be provided at intervals of 200 feet maximum. Passing spaces shall be 60 inches minimum by 60 inches minimum. Passing spaces and pedestrian access routes are permitted to overlap.




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Public Rights of Way

Existing Physical Constraints (R202.3)

- In alterations, where existing physical constraints make compliance with applicable requirements technically infeasible, compliance with these requirements is required to the maximum extent feasible. Existing physical constraints include, but are not limited to, underlying terrain, underground structures, adjacent developed facilities, drainage, or the presence of a significant natural or historic feature.



Alteration or altered

- A change to or an addition of a pedestrian facility in an existing, developed public right-of-way that affects or could affect pedestrian access, circulation, or usability.


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Public Rights of Way

Street Furniture (209/304)

- Drinking fountains
- Permanent street toilets
- Portable toilet units
 - 5% accessible or no fewer than 1
- Tables
- Sales & service counters
- Benches
 - 50% but no less than 1 with adjacent clear ground space




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Public Rights of Way

On-Street Parallel Parking (211/310)

- Scoping determined by block type
- Minimum 24 ft length x 13 ft width
- Connected to pedestrian access route via curb ramp or blended transition
- 50% of length free of obstructions
- Signage




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Public Rights of Way

Other Elements

- Pedestrian signals
- Vertical clearance
- Transit stops & shelters
- Passenger loading zones
- Stairs & escalators
- Handrails



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Resources

- Guide for Outdoor Developed Areas <https://www.access-board.gov/aba/guides/chapter-10-outdoor/#introduction>
- Public Rights of Way Accessibility Guidelines <https://www.access-board.gov/prowag/>
- Accessibility Online Webinar Archives www.accessibilityonline.org
- ADA Checklists www.adachecklists.org

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Resources

- Summaries of Accessibility Guidelines for Recreation Facilities <https://www.access-board.gov/guidance.html#guidance-on-recreation-facilities>
- Guide for Outdoor Developed Areas <https://www.access-board.gov/aba/guides/chapter-10-outdoor/#introduction>
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