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1



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2



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4



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5



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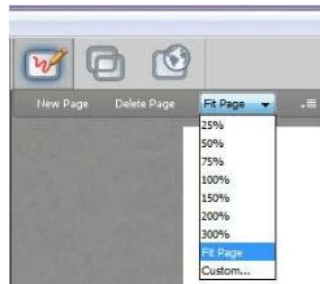
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6



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7



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9

Presenters

U.S. Access Board



Peggy Greenwell



Dave Yanchulis

10

Accessible Routes on Sites

Session Agenda

- Site Arrival Points
- Within Sites
- Recreation Facilities
- Entrances
- Technical Requirements

11

ADA & ABA Standards

ADA Standards:

- places of public accommodation
- commercial facilities
- state & local government facilities



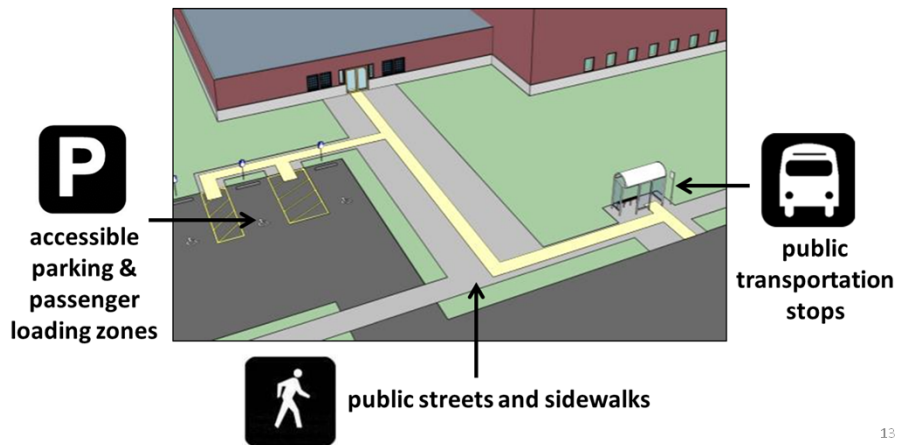
Architectural Barriers Act (ABA) Standards:

- Federally funded facilities

12

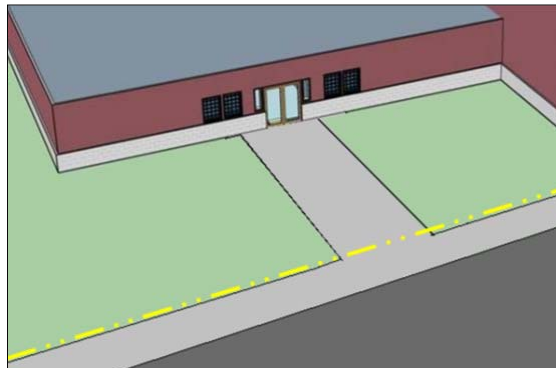
Site Arrival Points (§206.2.1)

At least one AR within the site from site arrival points to accessible facility entrance they serve



Site Arrival Points

Connection to public streets & sidewalks - may require coordination with local jurisdictions.



Board developing guidelines for public rights-of-way.

14

Public Rights-of-Way

New guidelines will address:

- Sidewalks and street crossings
- “Pedestrian access routes”
- Shared-use paths
- Medians and traffic islands
- On-street parking
- Pedestrian signals
- Street furniture and other elements



Board is finalizing guidelines

15

Site Arrival Points

AR not required where only means of access is
vehicular way not providing pedestrian access
(§206.2.1 & §206.2.2)



16

Parking Spaces (§208)

AR must connect to access aisles at accessible parking spaces

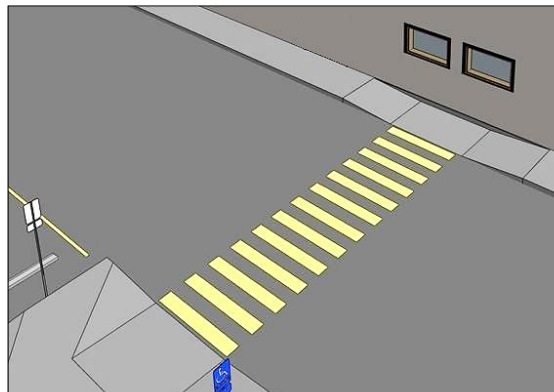


Recommended: connect AR to front of aisle to prevent travel behind parked cars

17

ARs & Vehicular Ways

ARs that cross vehicular ways are not required by the standards to be marked



18

Passenger & Bus Loading Zones (§209)

AR must serve accessible passenger loading zones and bus loading zones



19

Public Transportation Stops (§209 & 218)

AR must connect bus boarding/alighting areas to sidewalks and streets and to bus shelters.



20

Alterations (§202)

AR from site arrival points required when:

- **Circulation paths altered or added**
- **Alterations made to area containing a primary function (required “accessible path of travel”)**

21

Alterations (§202.3)

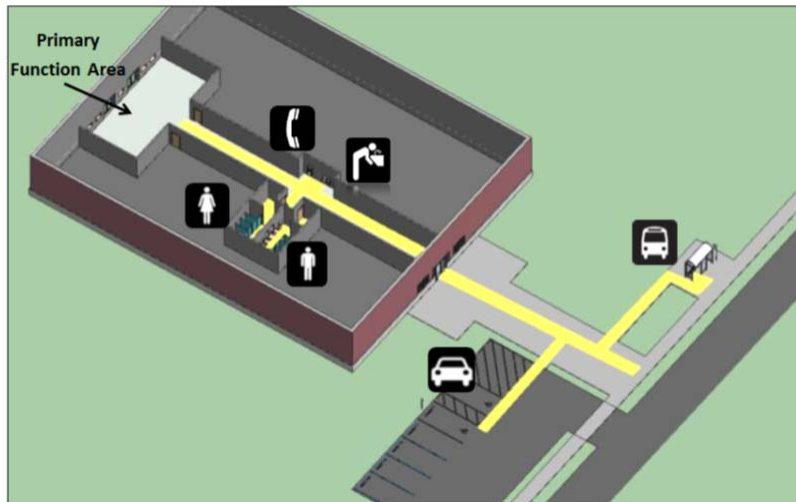
Altered spaces and elements, including circulation paths, required to comply.

Exception where meeting the standards is “technically infeasible” (e.g., existing physical or site constraints prohibit full compliance).

22

Path of Travel (§202.4)

Example path of travel



23

Path of Travel

Accessible Path of travel is required to the extent that it is not “disproportionate” to the project cost (more than 20%)

Compliance required up to the 20% limit

24

AR Within Sites (§206.2.2)

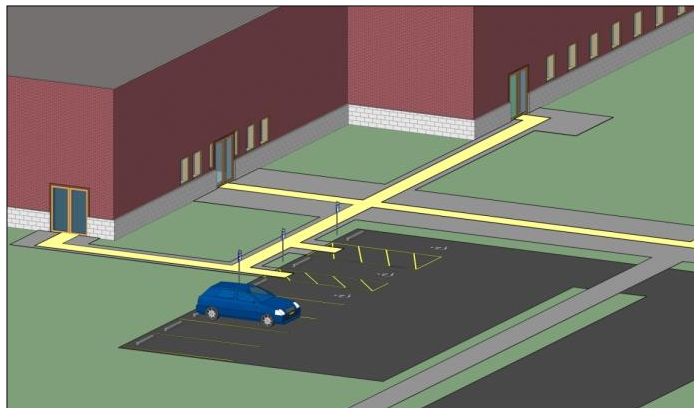
At least one AR must connect on the same site accessible:

- buildings & facilities
- elements
- spaces

25

Entrances (§206.4)

Each accessible entrance must be on an AR



26

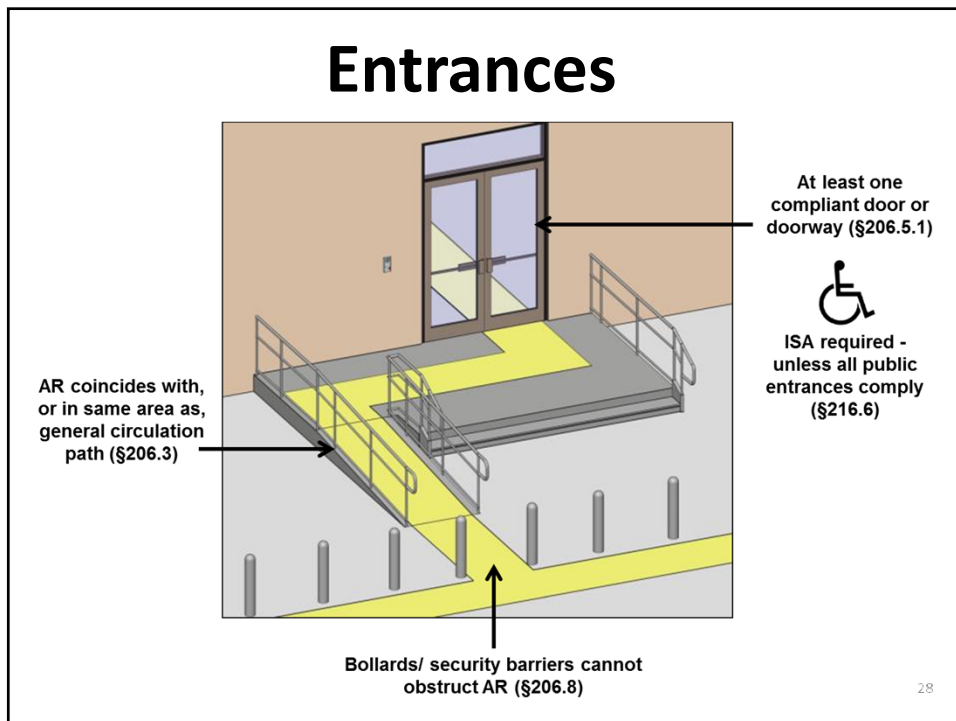
Entrances

Access to at least 60% of public entrances, in addition to:

- each direct access from parking structures
- direct access from tunnels or elevated walkways
- at least one entrance to each tenancy
- different fixed routes in transit facilities & direct connections
- restricted & secured entrances (at least 1)

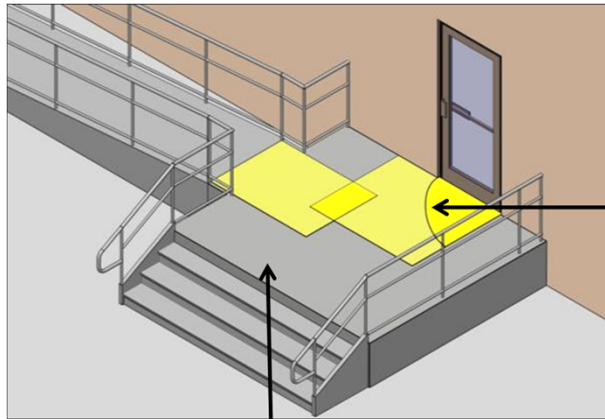
27

Entrances



Entrances

Landings must accommodate door man. clearances



Recommended:
locate door swing
outside ramp landing

Recommended: locate clearances away
from stair openings/ drop-offs

29

Entrances

Exterior Doors: Automation Recommended

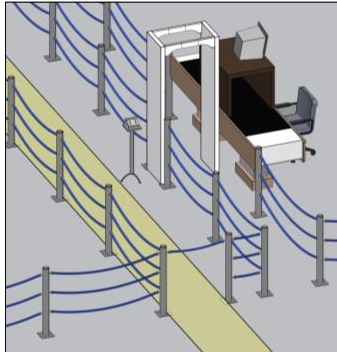


Required at GSA buildings
(Public Building Service Standards)

30

Security Check Points(206.8)

Security screening devices cannot obstruct AR.



AR can bypass metal detectors and other devices that cannot comply - equivalent level of visual contact with personal items required.

31

Accessible Routes



If circulation path is interior,
AR must be interior

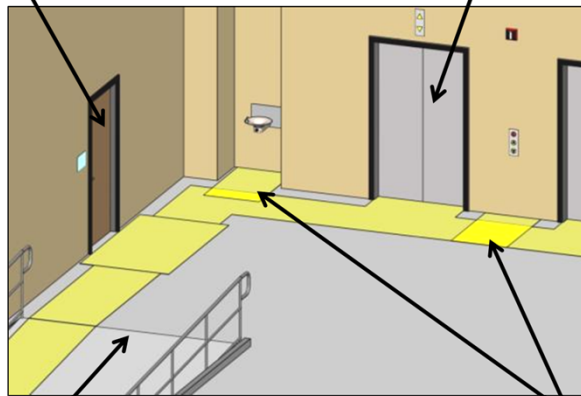
32

Accessible Routes

Accessible routes must connect to each:

accessible room and space

story (unless an exception applies)



level on a floor required to be accessible

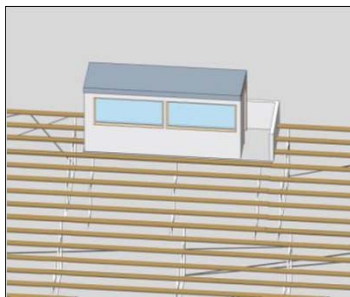
accessible element

33

Press Boxes (§206.2.7)

Exempt if 500 sq ft or less (aggregate) and

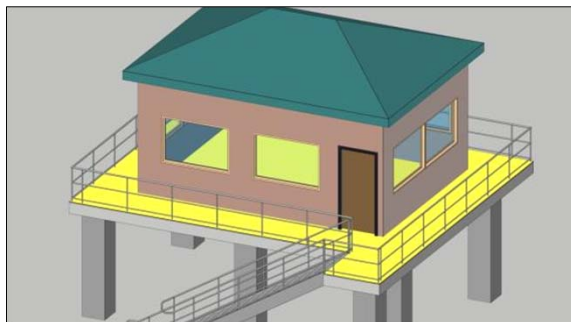
- Located on bleachers entered on 1 level
- or elevated 12' or more (free standing)



34

Press Boxes

Square footage applies to the gross floor area (including exterior) of all press boxes serving a playing field or other assembly area



35

Recreation Facilities

- Amusement Rides
- Recreational Boating Facilities
- Fishing Piers & Platforms
- Golf Facilities
- Miniature Golf Facilities
- Sports Facilities
- Play Areas

36

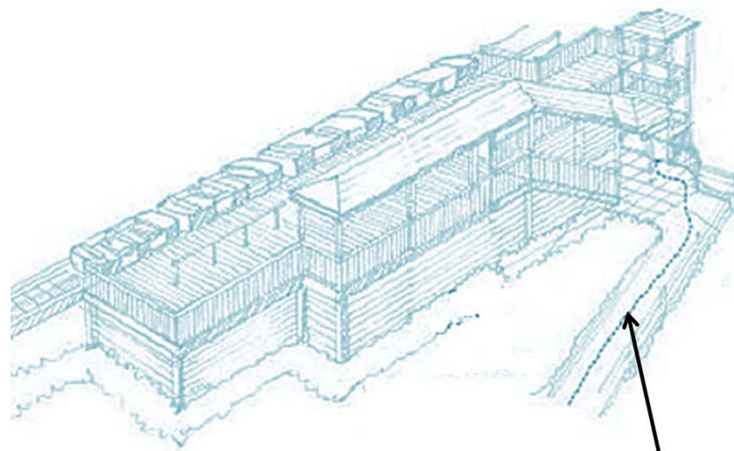
Amusement Rides (§202.2.9)

AR must serve:

- Load & unload areas for every ride
- Wheelchair spaces, ride seats designed for transfer, transfer devices
- Including rides not required to have access features (e.g., rides for small children, rides without seats or that are controlled/operated by the rider)

37

Amusement rides

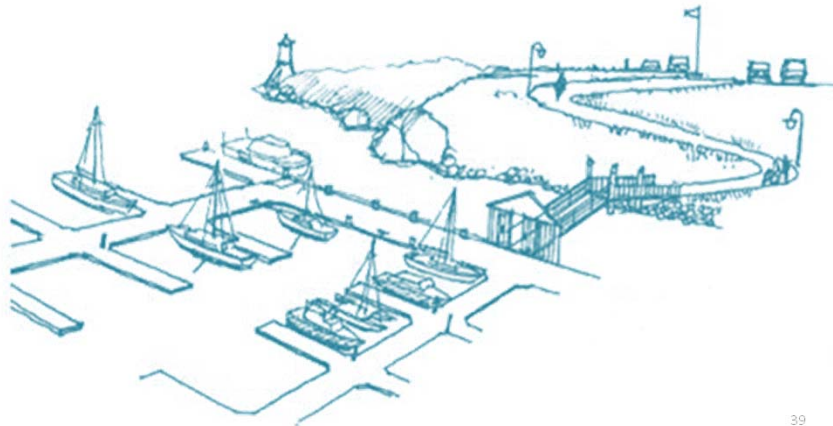


accessible route

38

Boating Facilities (§202.2.10)

AR must serve accessible boat slips & boarding piers at boat launch ramps



39

Boating Facilities

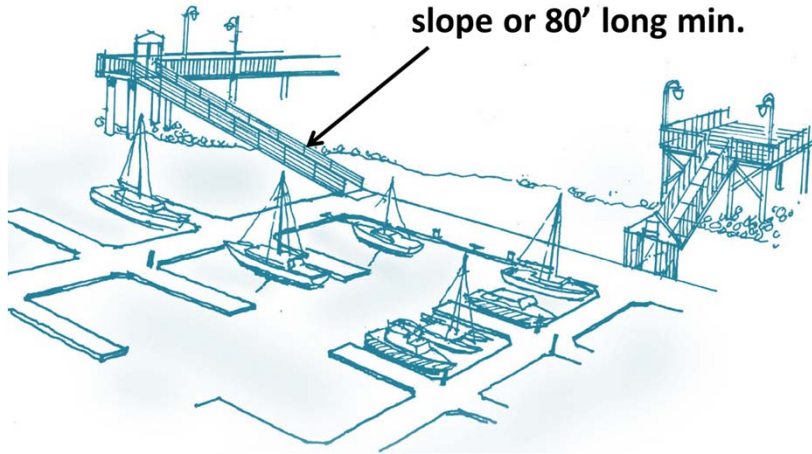
Exceptions for gangways (§1003.2.):

- **Not required to exceed 80' - steeper slope allowed (30' at facilities with < 25 boat slips)**
- **No limit on rise**
- **Gangways that connect to transition plates – landings, handrail extensions not req'd**
- **Alterations to existing gangways**

40

Boating facilities

Accessible gangway – 1:12 max. slope or 80' long min.



41

Miniature Golf (§202.2.16)

- AR must connect accessible holes (50% min. , consecutive)
- AR from last compliant hole to course entrance/ exit without travel through other holes



42

Miniature golf



AR adjacent to playing surface

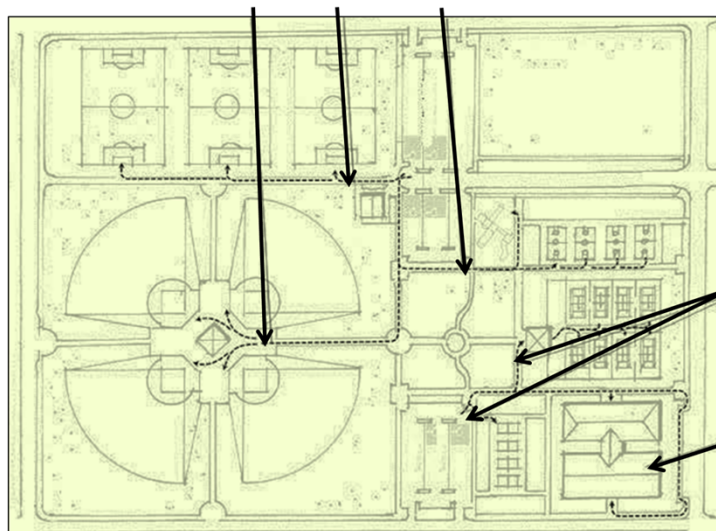


Golf club reach ranges on playing surfaces

43

Sports Facilities

AR to baseball fields, soccer fields, playground area & basketball courts

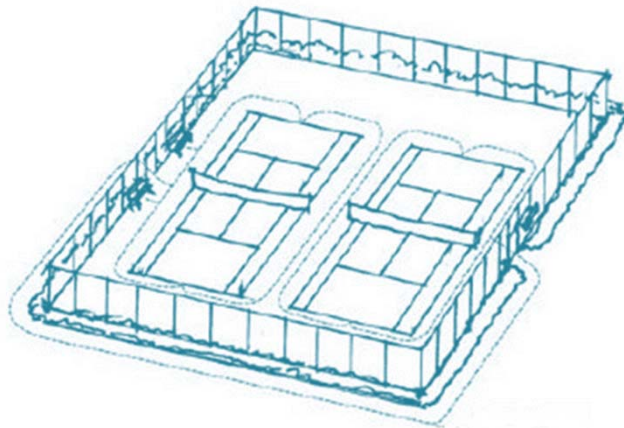


Club house

44

Court Sports (§202.2.12)

**At least one AR must directly connect
both sides of the court**



45

Fishing Piers & Platforms (§202.2.14)

**AR required to connect fishing piers & platforms,
including floating piers (exceptions for gangways)**



46

Golf Facilities (§202.2.15)

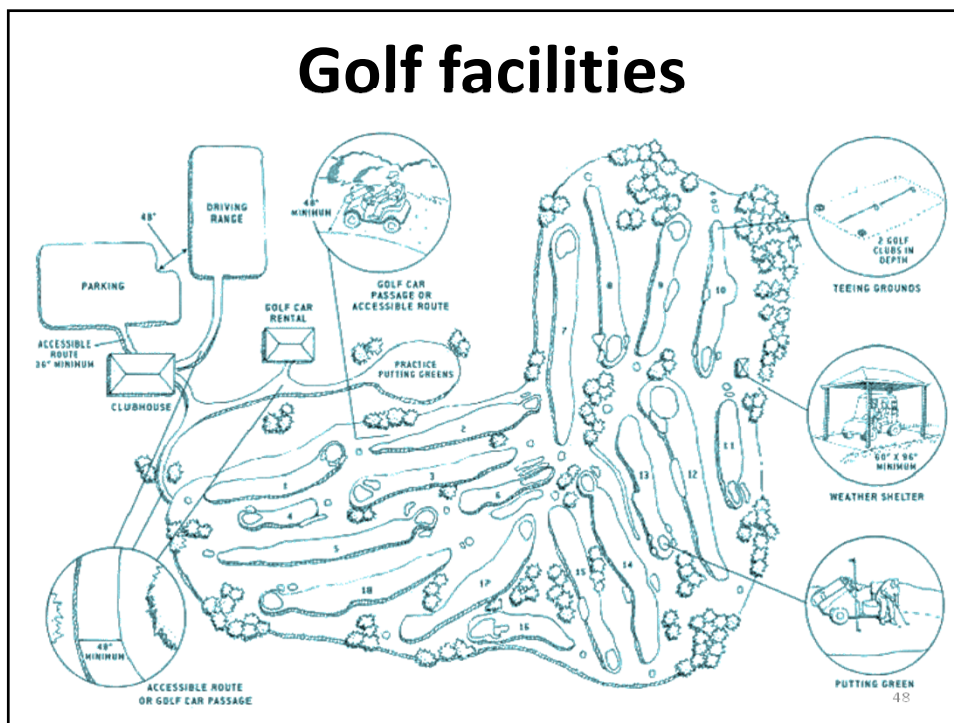
At least one AR or golf car passage must connect accessible elements & spaces within boundary of golf course

Must serve: golf car rental areas, bag drop areas, weather shelters, toilet rooms, practice putting greens & teeing grounds, teeing stations at driving ranges



47

Golf facilities



Play Areas (§202.2.17)

At least one AR must connect to accessible:

- Ground level play components
- Elevated play components (50% min.)
- Soft contained play structures



49

Play Areas

AR & other accessible surfaces must meet ASTM standards for:

- accessibility (ASTM F 1951)
- impact attenuation (ASTM F 1292) – within use zones



50

Outdoor Developed Areas (ABA)

New guidelines for outdoor areas developed by Federal agencies address:

- Trails
- Picnic & camping areas
- Viewing areas
- Outdoor recreation access routes
- Beach access routes



51

Technical Requirements

52

Ground/ Floor Surfaces (§302)

must be firm, stable, “slip-resistant”



**Loose materials generally not compliant
(unless properly treated)**

53

Ground/ Floor Surfaces

**Rough surfaces (e.g, cobblestones) make
wheelchair travel difficult and uncomfortable.**

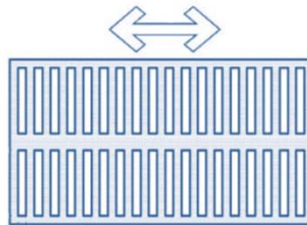


**Recommended: Avoid materials or construction
methods that create bumpy and uneven surfaces**

54

Ground/ Floor Surfaces

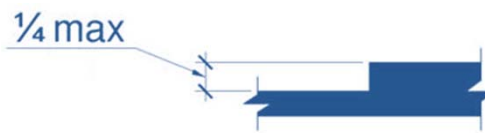
- Slip-resistance: specific value (coefficient of friction) not specified
- Carpet
- Openings (prevent passage of $\frac{1}{2}$ diameter sphere; elongated = perpendicular to dominant travel direction)



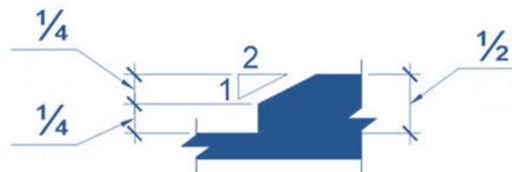
55

Changes in Level (§303)

$\frac{1}{4}$ " max (vertical)



$\frac{1}{2}$ " max (beveled)



$> \frac{1}{2}$ " : ramp or curb ramp

56

AR Components (§402)

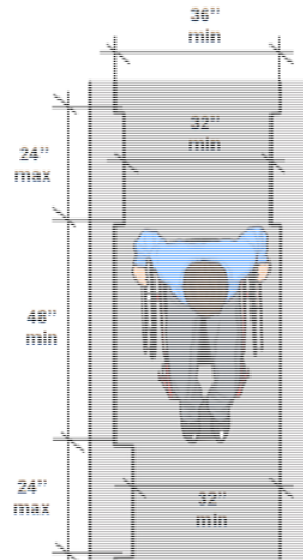
- walking surfaces (403)
- doors, doorways, gates (404)
- ramps and curb ramps (405 & 406)
- elevators (407 - 409)
- platform lifts (410)



57

Walking Surfaces (§403)

- Clear width
- Passing Space
- Running Slope 1:20 max.
- Cross Slope 1:48 max.
- Changes in level
- Surfaces
- Handrails



58

Ramps (§405)

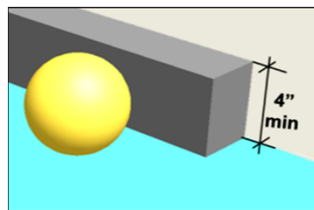
- slope: 1:12 max.
- cross slope: 1:48 max.
- clear width: 36" min.
- rise: 30" max.
- level landings
- handrails (both sides)
- edge protection



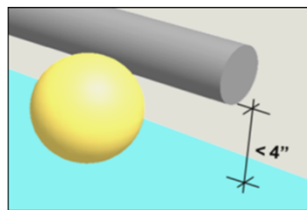
59

Ramps: Edge Protection

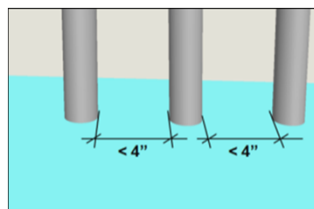
Curb/barrier that prevents passage of 4" diameter sphere or extended surface beyond handrail



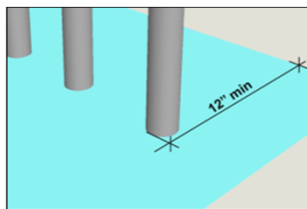
curb



rail or other barrier



vertical pickets

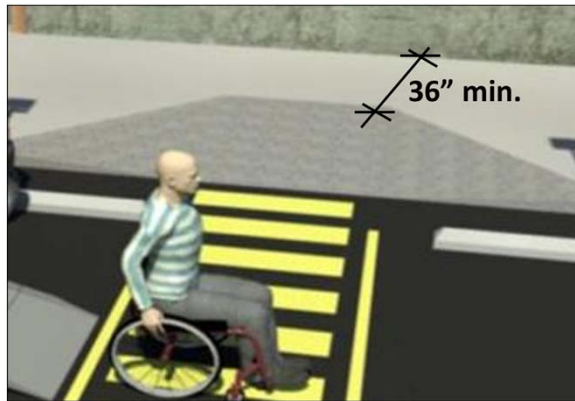


extended platform

60

Curb Ramps (§406)

Sufficient space (36" deep min) required at top of curb ramps

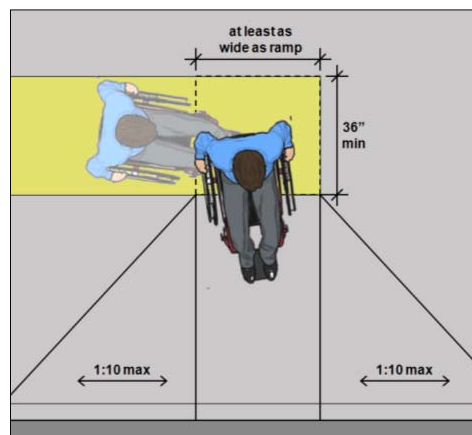


Curb ramps cannot protrude into access aisle

61

Curb Ramps

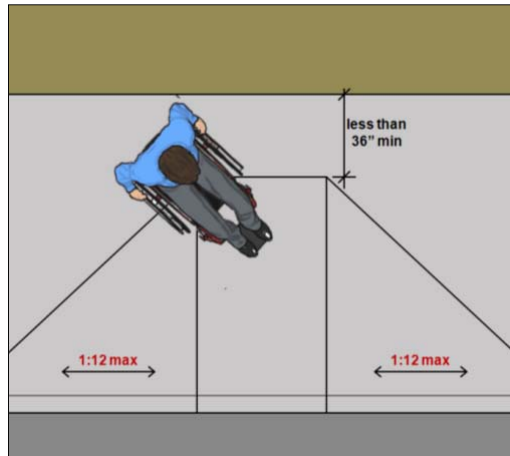
Required space at top allows easier maneuvering to and from ramp run



62

Curb Ramps

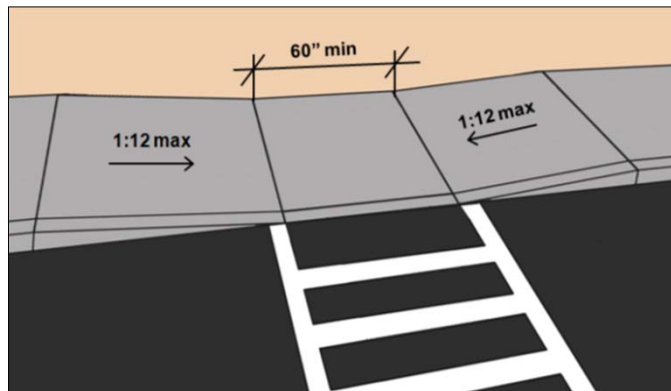
Alterations: exception where space at top is unavailable (1:12 max. side flares)



63

Curb Ramps

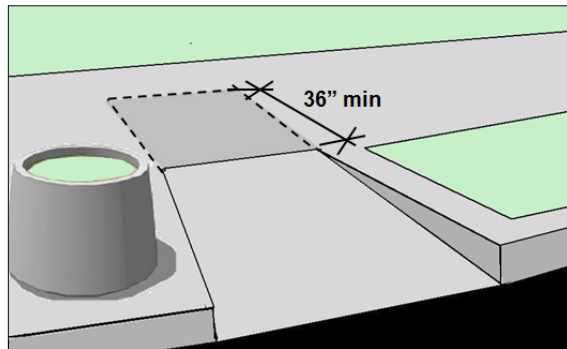
Parallel ramps provide option where space is limited



64

Curb Ramps

Curb ramps with returned sides must have a top landing in all cases



65

Detectable Warnings

Required on curb ramps at:

- Transit facilities (§406.8, DOT standards)
 - FHwy funded projects
 - Other public sidewalks (recommended – new ROW guidelines to address)
- (Also required on boarding platform edges)



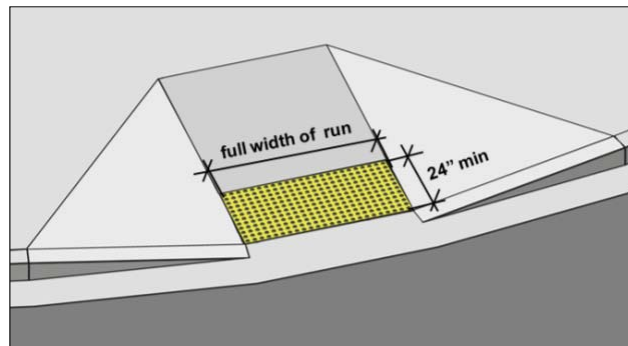
Not required on curb ramps at:

- Facilities (non-transit) located on sites

66

Detectable Warnings

- Full width of the curb ramp (excluding side flares)
- 24" deep min. measured from the back of the (can extend full depth of ramp)



67

Platform Lifts (§206.7)

In new construction, permitted where existing exterior site constraints/ topography make ramp or elevator infeasible

Example: new building constructed between/ connected to two existing buildings - insufficient space to coordinate floor levels or to provide ramped entry from the public way

68

Platform Lifts

Also permitted to provide access to:

- performance areas/ speakers' platforms
- wheelchair spaces in assembly areas
- incidental spaces
- judicial spaces
- amusement ride load/unload areas
- team/player seating
- boating facilities, fishing piers & platforms
- play areas
- levels in guest rooms & residential dwelling units

69

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70



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71

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72