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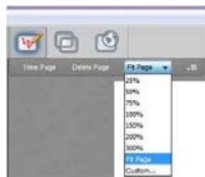
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## Customize Your View



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## Presenters

### U.S. Access Board



Peggy Greenwell



Dave Yanchulis

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## Accessible Routes on Sites

### Session Agenda

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

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## ADA & ABA Standards

### *ADA Standards:*

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



### *Architectural Barriers Act (ABA) Standards:*

- Federally funded facilities

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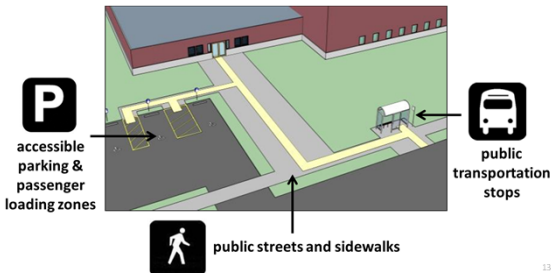
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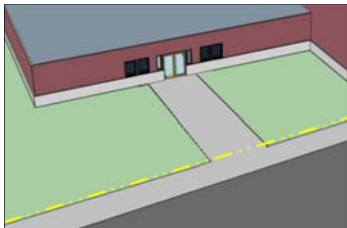
## Site Arrival Points (§206.2.1)

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.

## 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

## Site Arrival Points

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



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## 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

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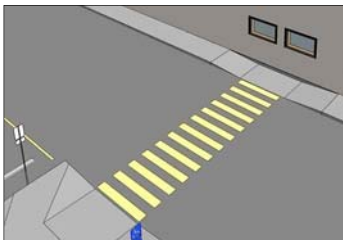
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## ARs & Vehicular Ways

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



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## Passenger & Bus Loading Zones (§209)

AR must serve accessible passenger loading zones and bus loading zones



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## Public Transportation Stops (§209 & 218)

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



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## 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”)

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## 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).

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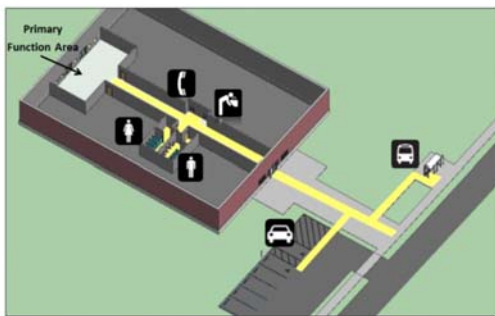
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## Path of Travel (§202.4)

Example path of travel



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## 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

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## AR Within Sites (§206.2.2)

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

- buildings & facilities
- elements
- spaces

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## Entrances (§206.4)

Each accessible entrance must be on an AR



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## 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)

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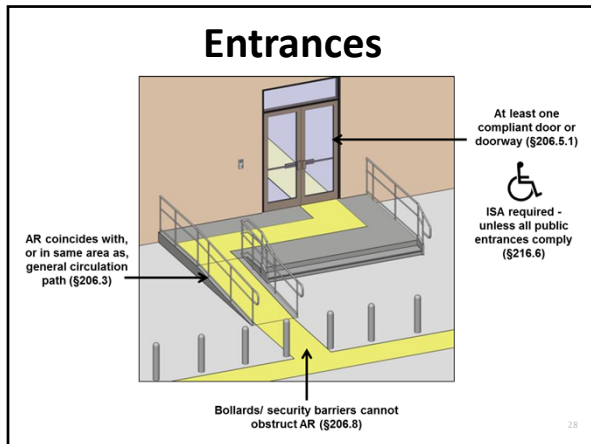
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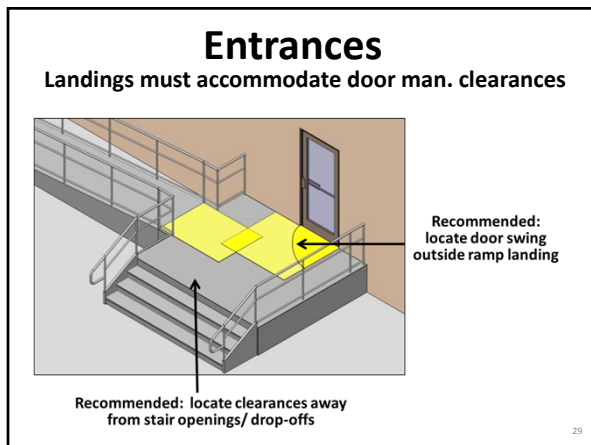
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## Security Check Points(206.8)

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.

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## Accessible Routes



If circulation path is interior,  
AR must be interior

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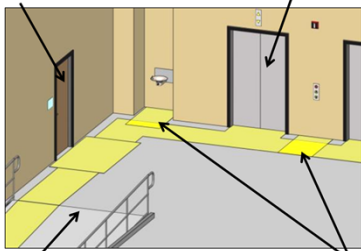
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## Accessible Routes

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

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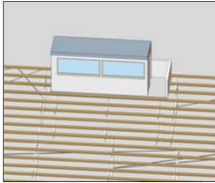
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## Press Boxes (§206.2.7)

Exempt if 500 sq ft or less (aggregate) and

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



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## Press Boxes

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



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## Recreation Facilities

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

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## 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)

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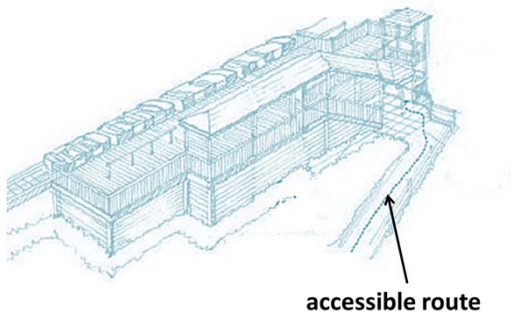
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## Amusement rides



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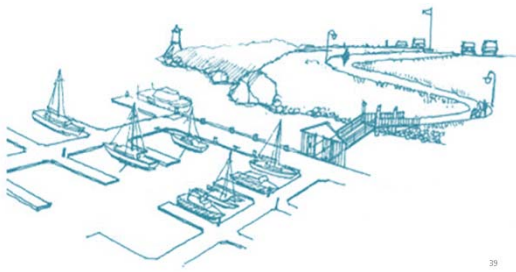
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## Boating Facilities (§202.2.10)

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



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## 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

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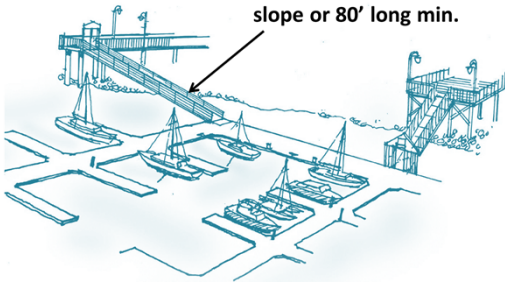
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## Boating facilities

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



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## 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



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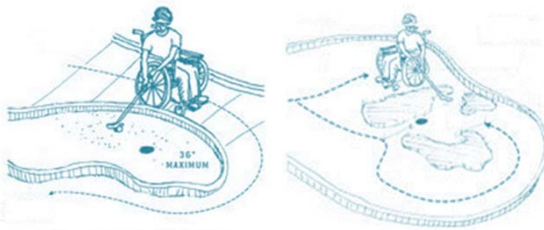
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## Miniature golf



AR adjacent to playing surface

Golf club reach ranges on playing surfaces

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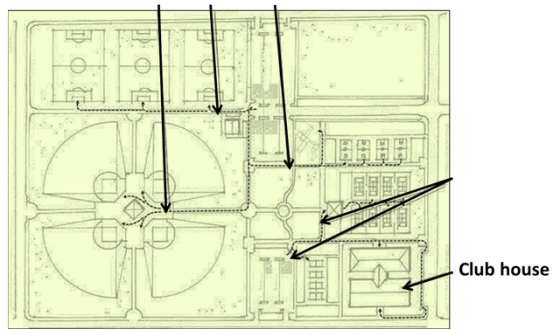
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## Sports Facilities

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



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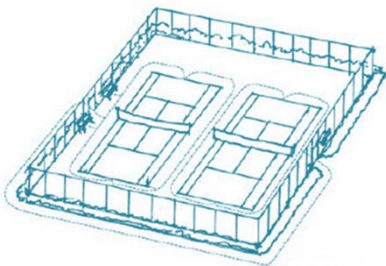
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## Court Sports (§202.2.12)

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



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## Fishing Piers & Platforms (§202.2.14)

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



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## 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



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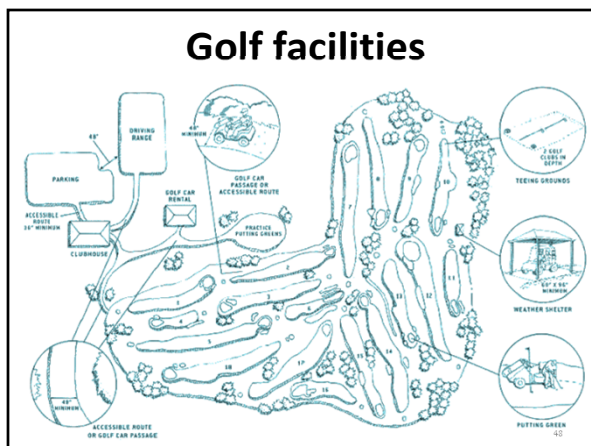
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## Golf facilities




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## 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



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## Play Areas

AR & other accessible surfaces must meet ASTM standards for:

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



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## 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



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# Technical Requirements

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## Ground/ Floor Surfaces (§302)

must be firm, stable, "slip-resistant"



Loose materials generally not compliant  
(unless properly treated)

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## 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

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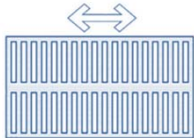
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## Ground/ Floor Surfaces

- 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)



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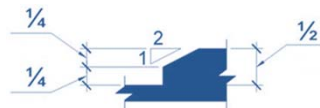
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## Changes in Level (§303)

1/4" max (vertical)



1/2" max (beveled)



> 1/2" : ramp or curb ramp

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## AR Components (§402)

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



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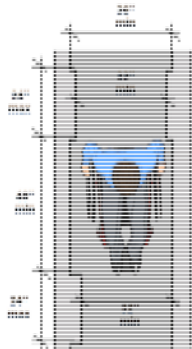
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## Walking Surfaces (§403)

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



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## 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



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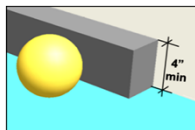
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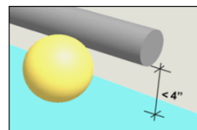
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## Ramps: Edge Protection

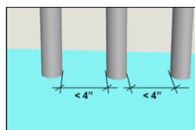
Curb/barrier that prevents passage of 4" diameter sphere or extended surface beyond handrail



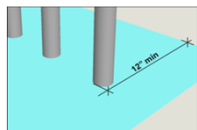
curb



rail or other barrier



vertical pickets



extended platform

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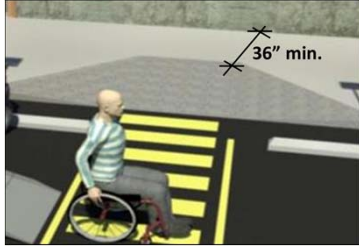
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## Curb Ramps (§406)

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



Curb ramps cannot protrude into access aisle

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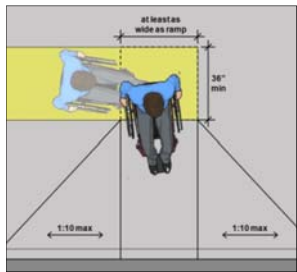
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## Curb Ramps

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



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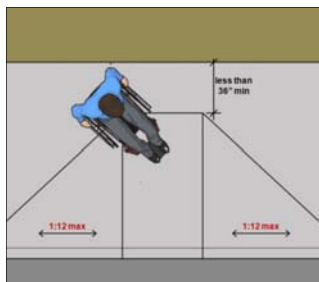
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## Curb Ramps

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



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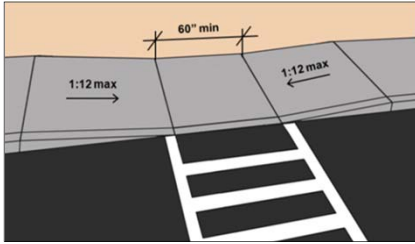
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## Curb Ramps

Parallel ramps provide option where space is limited



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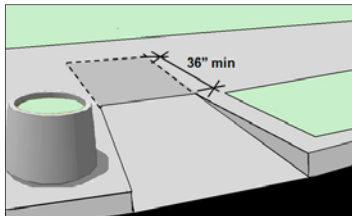
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## Curb Ramps

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



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## Detectable Warnings

Required on curb ramps at:

- Transit facilities (§406.8, DOT standards)
  - FHWA 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

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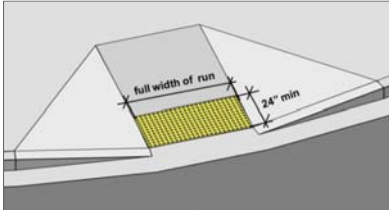
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## Detectable Warnings

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



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## 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

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## 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

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**Next session:**

***"Open Questions and Answers"***

**March 6<sup>th</sup>**

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