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ADA Exterior Accessibility Route Design & Layout

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ADA Standards

ADA Standards:

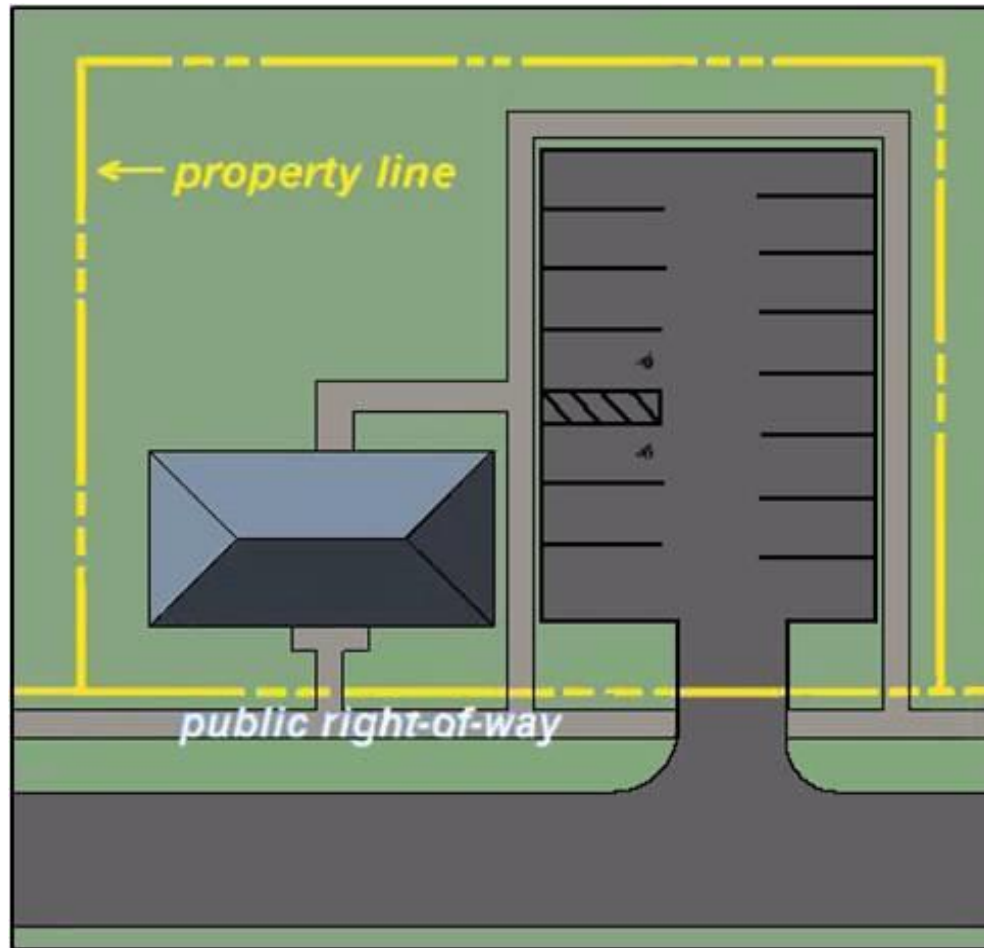
- **Places of public accommodation**
- **Commercial facilities**
- **State & local government facilities**

ABA Standards:

- **Federally funded facilities**



Accessible Route Scoping



Public Right of Way Guidelines

**Proposed Rule 2011 and supplemental to add
Shared-use paths 2013**

- **FHWA encourages use of proposed rule**
- **Sidewalks and street crossings**
- **Shared-use paths**
- **On-street parking**
- **Street furniture and other elements**
-



Section 206

Addresses:

- **Required accessible routes (206.2)**
- **Exceptions (206.2)**
- **Location (206.3)**
- **Entrances (206.4)**
- **Doors (206.5)**
- **Security barriers (206.8)**



Accessible Route Scoping

At least 1 accessible route is required to entrances from:

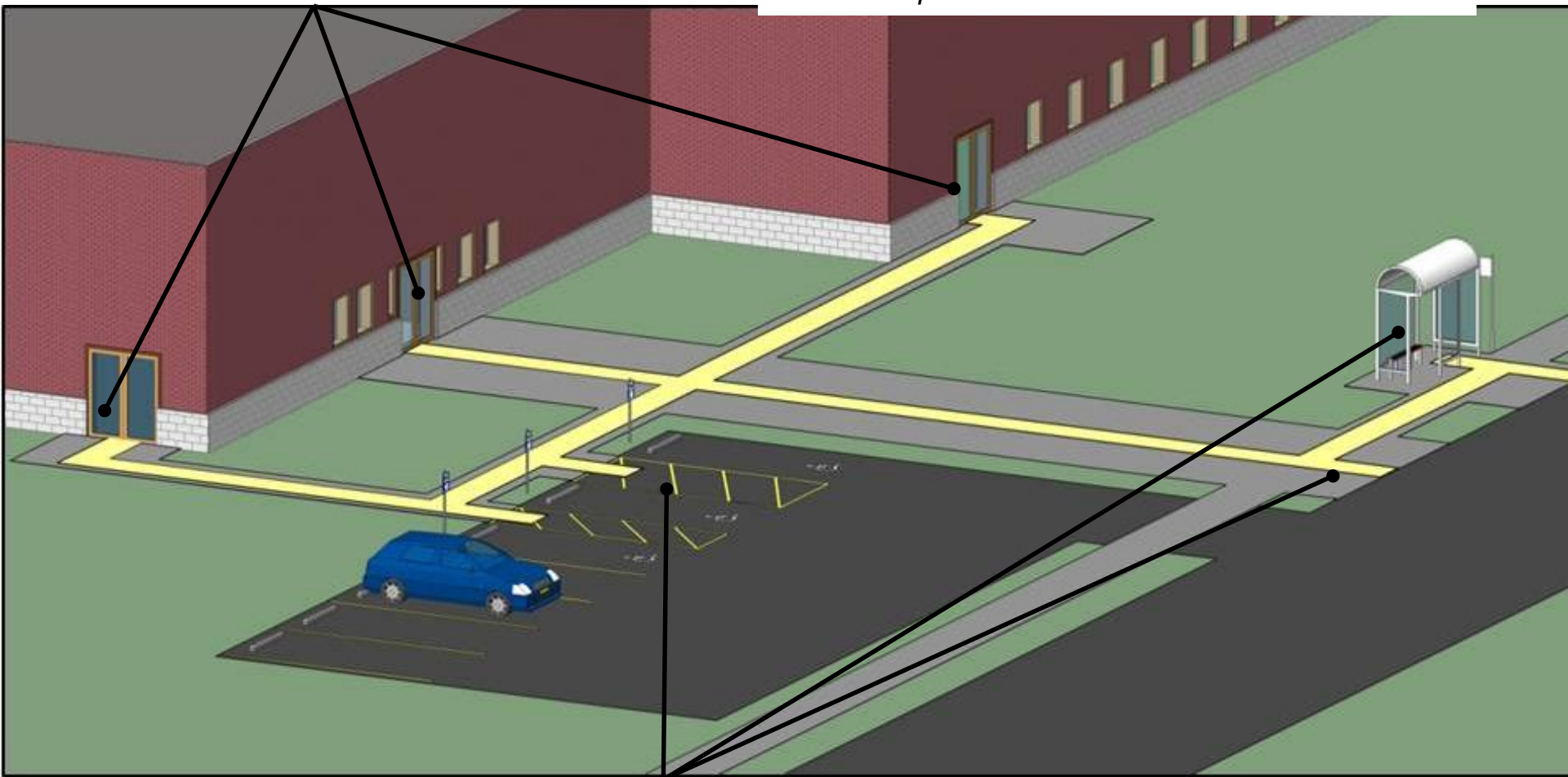
- Parking**
- Passenger loading zones**
- Public streets/sidewalks**
- Transit stops**

(where provided)

Accessible Route Scoping

An accessible route must serve each accessible entrance of a facility.

Accessible routes, including exterior routes, must coincide with, or be in the same vicinity as, general circulation paths.



Site arrival points include, where provided, accessible parking space and passenger loading zones, public transit stops located within sites, and public streets and sidewalks along site boundaries.

Parking Spaces

Accessible route must connect to access aisles at accessible parking spaces



Recommended: Connect accessible route to front of aisle to prevent travel behind parked cars

Accessible Route Scoping

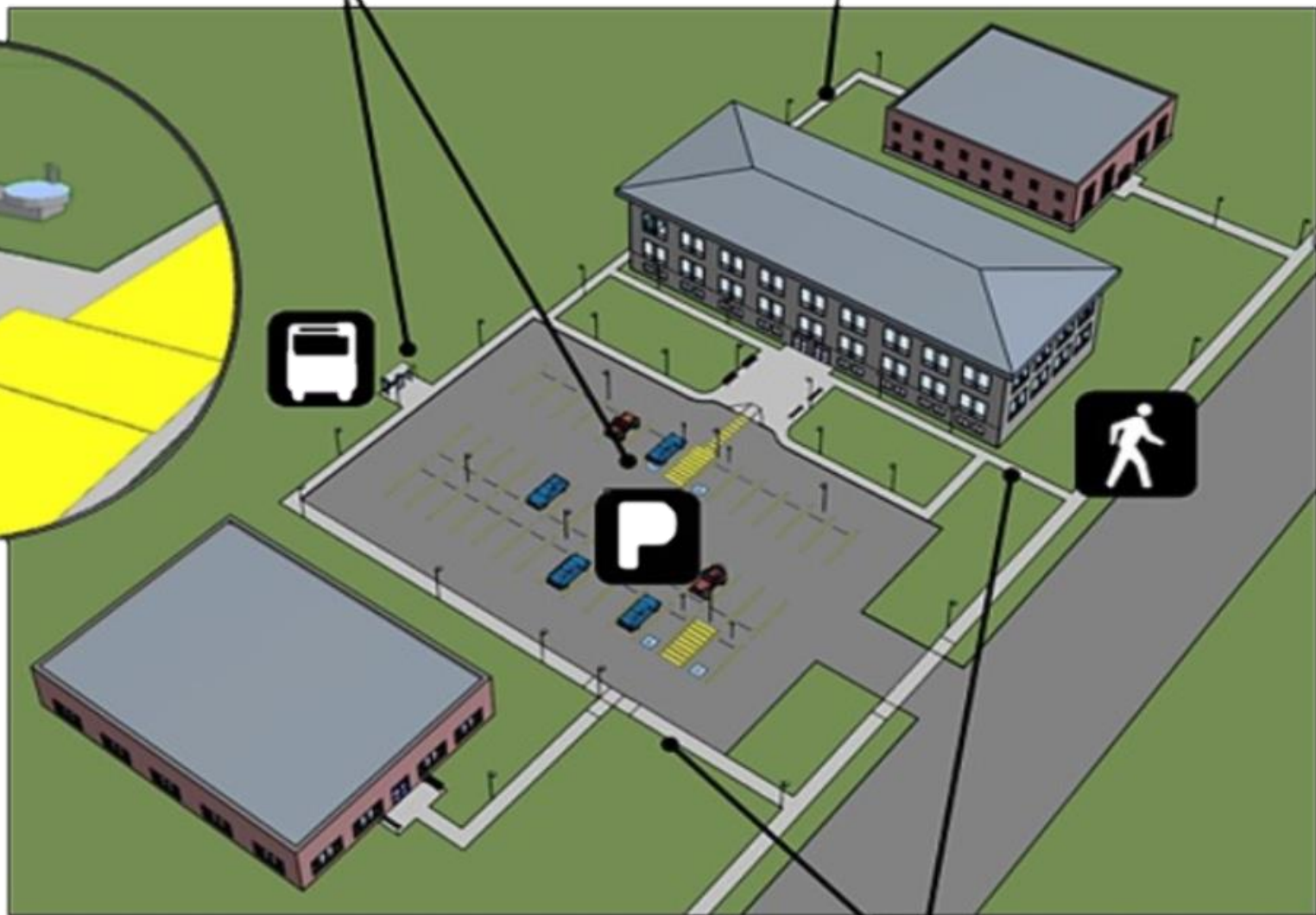
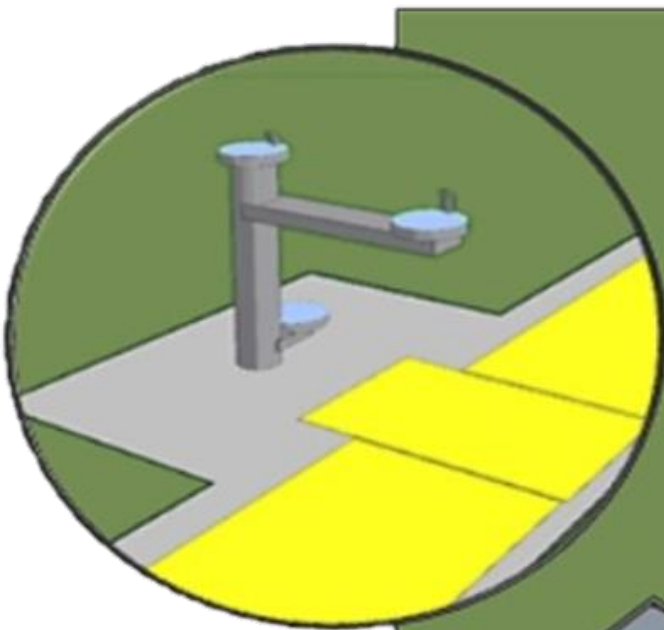
At least 1 accessible route is required to connect ALL accessible:

- **Buildings and facilities**
- **Spaces**
- **Elements**

on the same site

Connect site arrival points to each accessible facility served

Connect each facility on site – unless connection is only by vehicular way

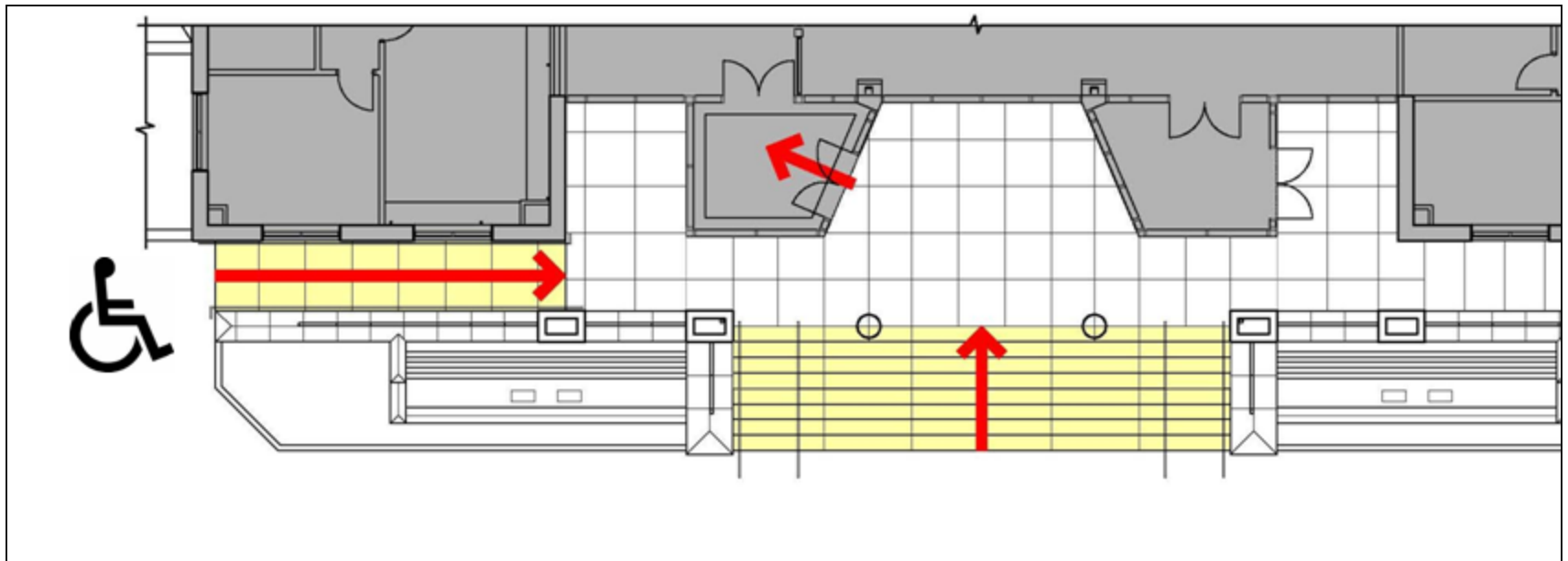


Accessible route
serving all
elements on site

Accessible route from ROW must connect directly or indirectly to all accessible facilities & elements

Accessible Route Scoping

AR must coincide with or be located in the same areas as general circulation path (206.3)



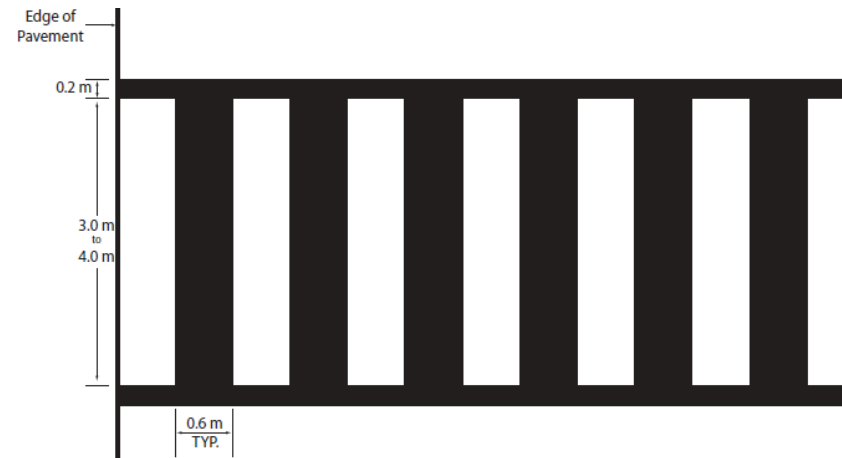
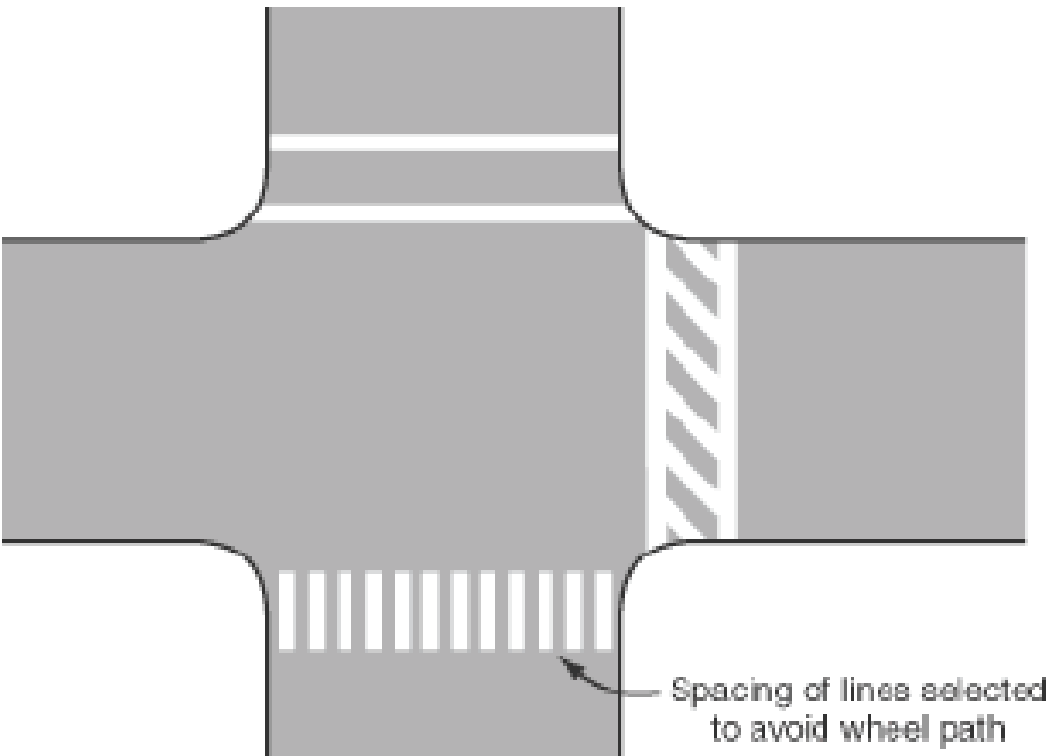
Security Barriers (206.8)

Security barriers (e.g., bollards) cannot obstruct ARs



Crosswalk & Vehicular Ways on site

- ADA does not require or specify marking.
- For overall pedestrian safety recommend using high visibility markings.



Accessible Route Scoping

AR not required if no pedestrian connection provided (i.e. access by vehicle only)



Accessible Route Scoping

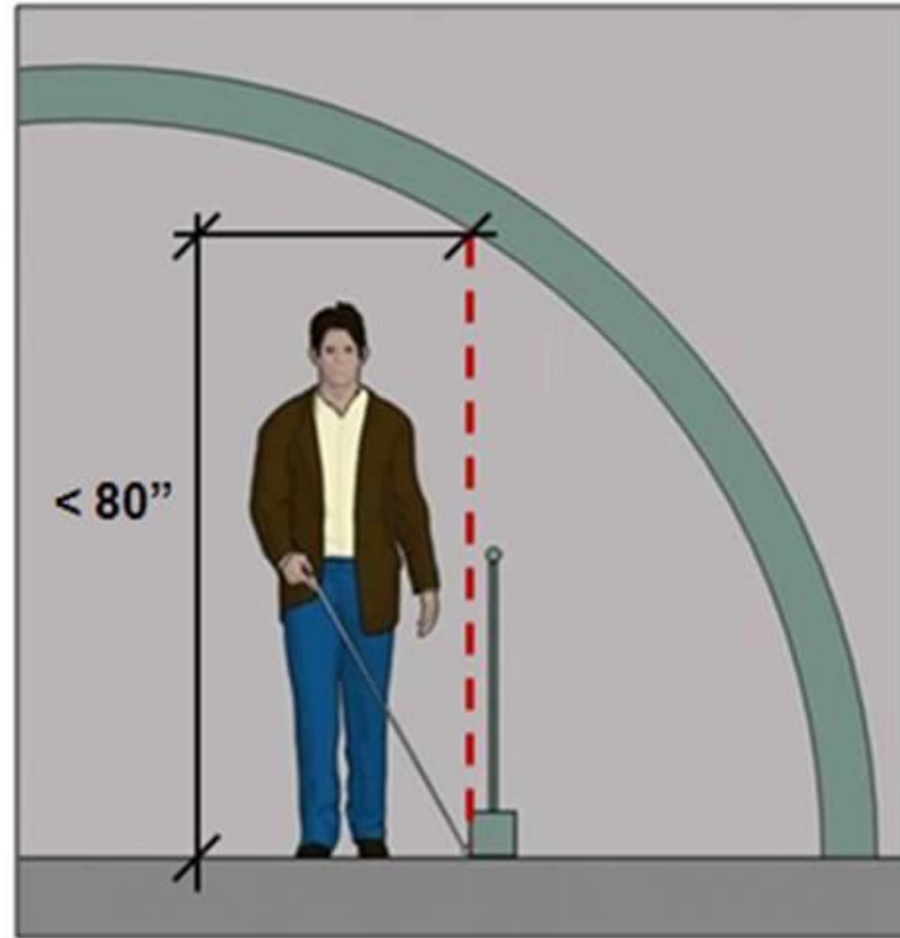
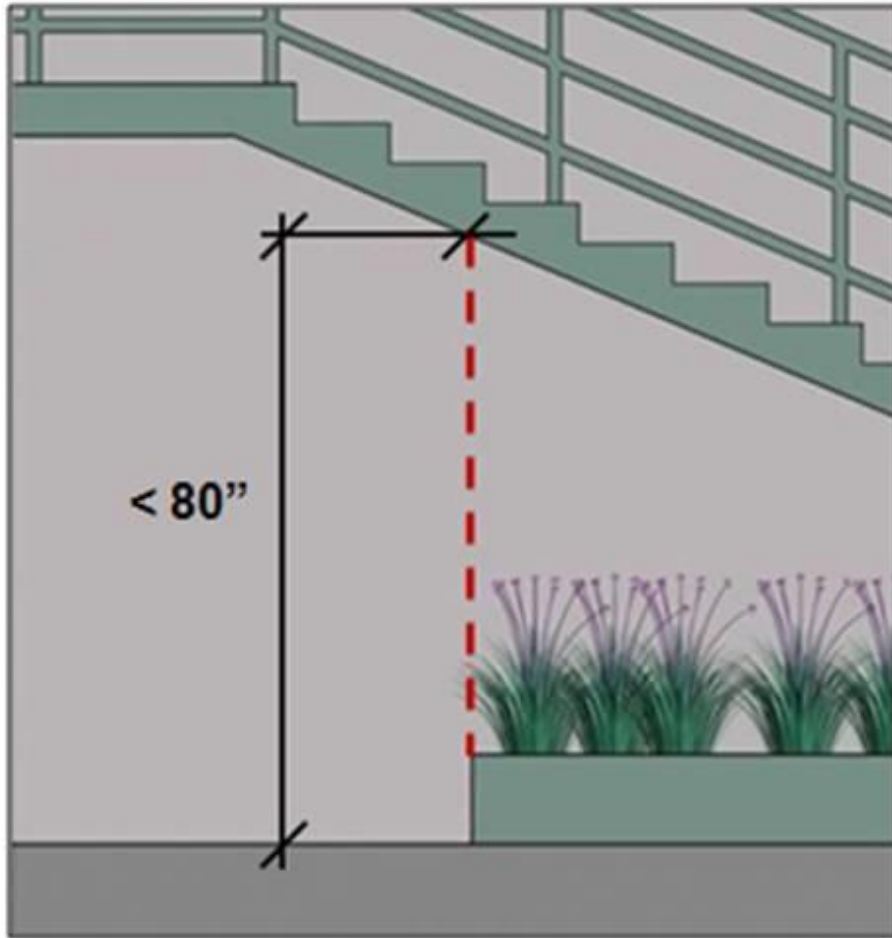
- ☐ Public works agency builds sidewalk at a site where none existed
- ☐ Multiple transit stops bordering a site
- ☐ Multiple accessible entrances
- ☐ Temporary sites i.e. farmers market, fair grounds



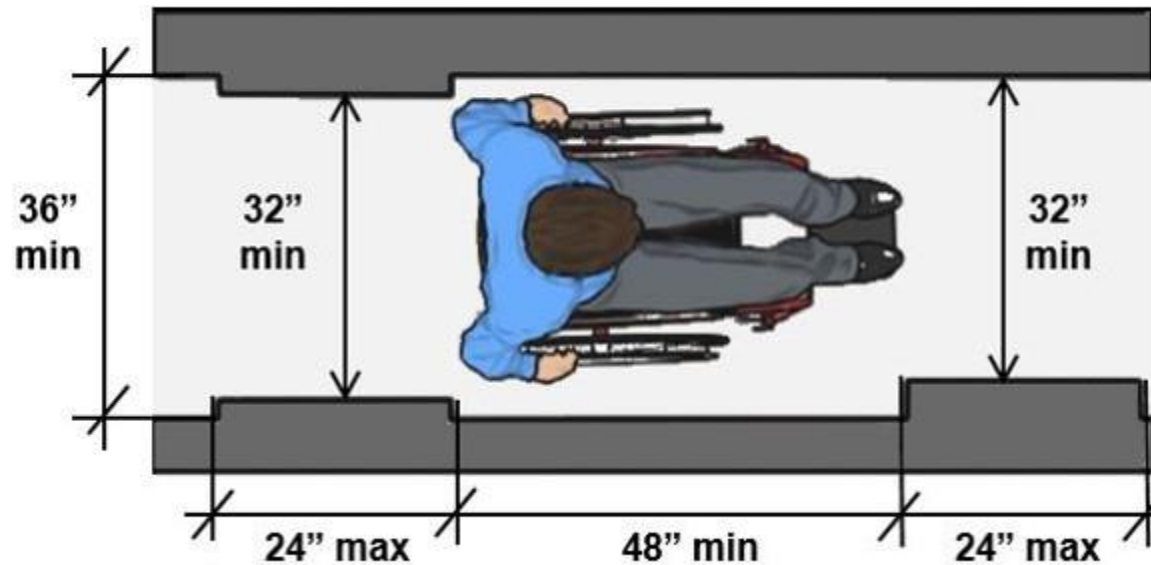
Circulation Route - Protruding objects



Circulation Route – Vertical clearance

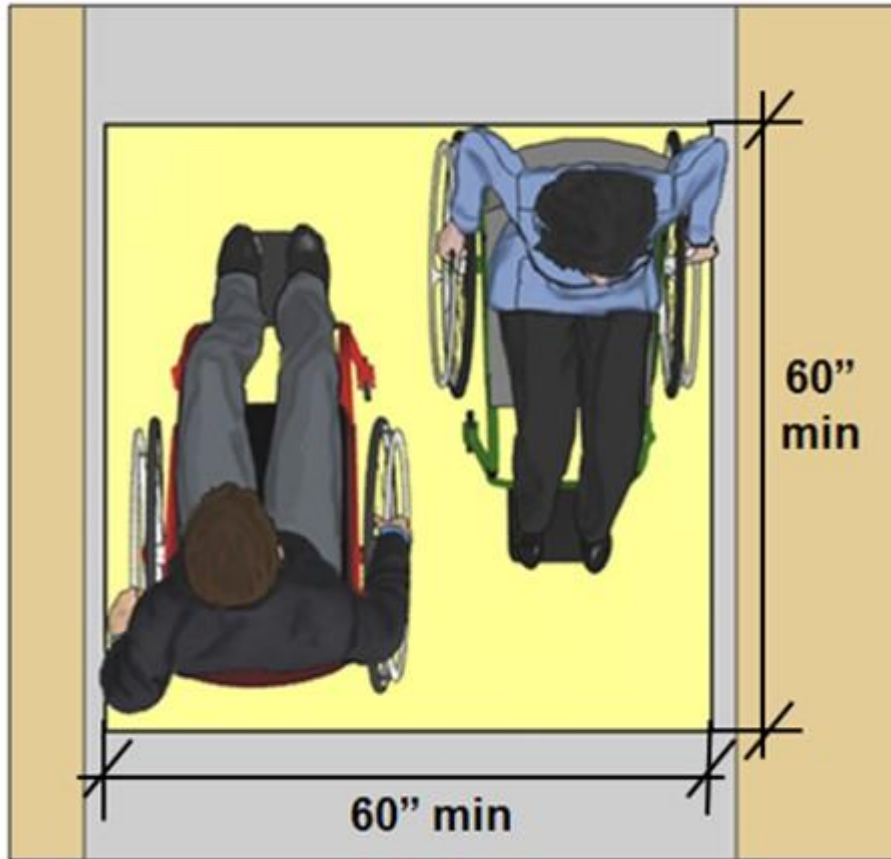


Clear width & Passing spaces (403)



Minimum clear width cannot be reduced by any elements including handrails or protruding objects

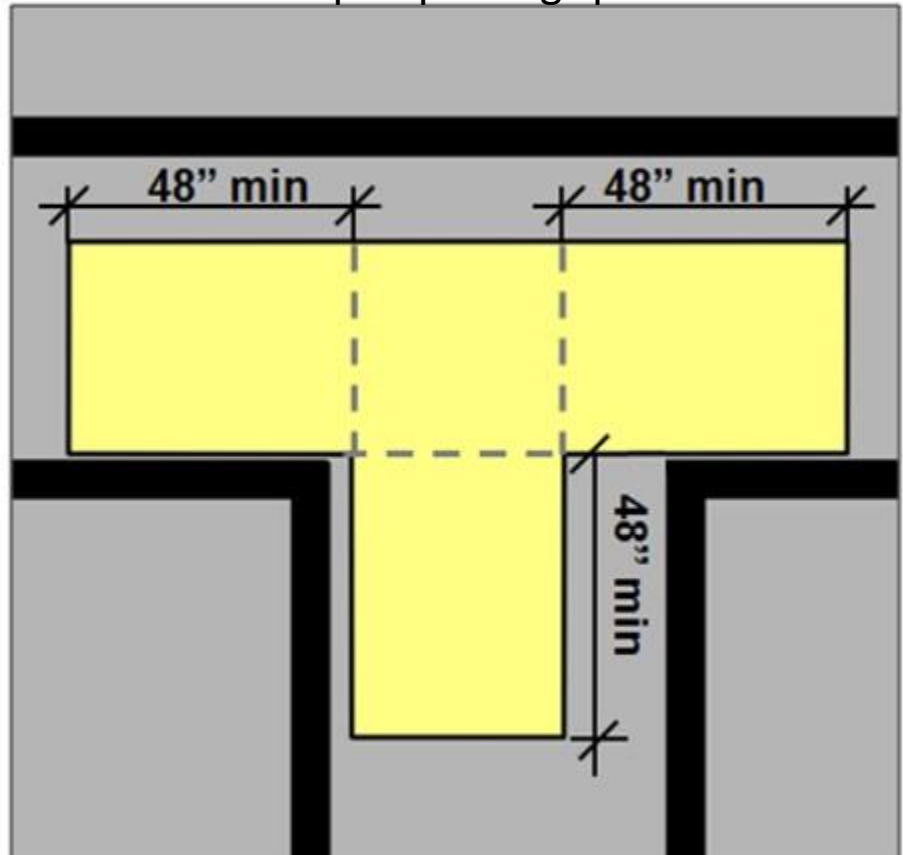
Passing spaces (403)



60"x 60" passing space

Required every 200ft max if clear width is less than 60 inches

T-shaped passing space



Running Slope

1:20 max. slope



> 1:20 = ramp

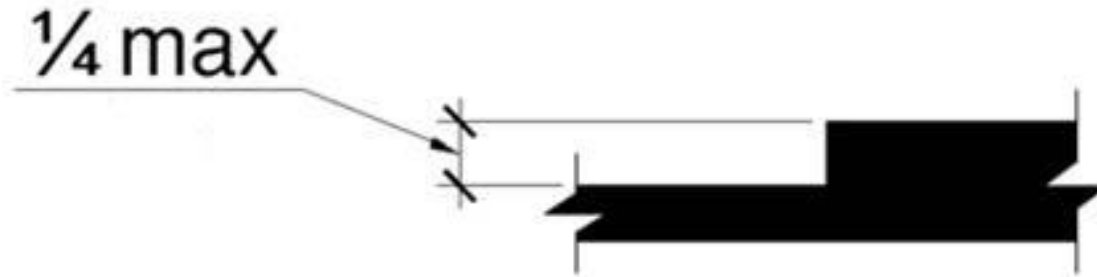
Cross Slope

1:48 max

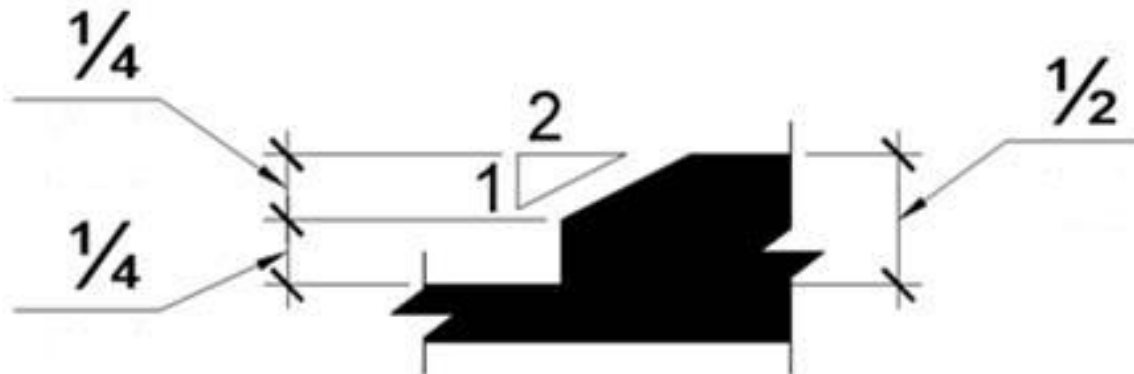


Changes in level (303)

changes in level: $\frac{1}{4}$ " max (vertical)



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



Changes in Level – neglected maintenance



Surface Requirements

- **Firm, stable, and slip-resistant**
- **No large openings or gaps**

Recommended:

- **Smooth and free of rough textures**





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



- When properly installed, and well maintained brick can work.



Beveled edged pavers are an issue for roughness and vibration (research results available on [Access Board](#) website)

Surfaces



Hardened materials such as concrete, asphalt, tile and wood are sufficiently firm and stable for accessibility

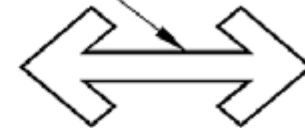
Loose material including gravel must be properly treated to provide sufficient surface integrity and resilience



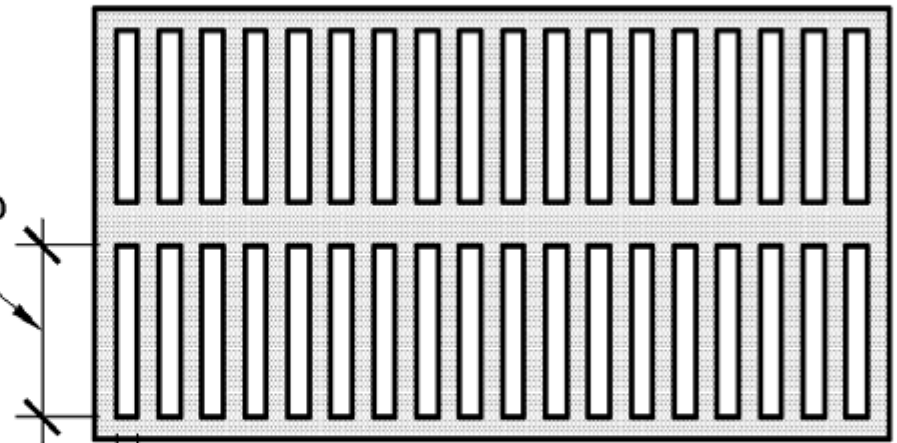
Openings



dominant direction of travel



long dimension perpendicular to
dominant direction of travel



$\frac{1}{2}$ max

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Grates and Openings

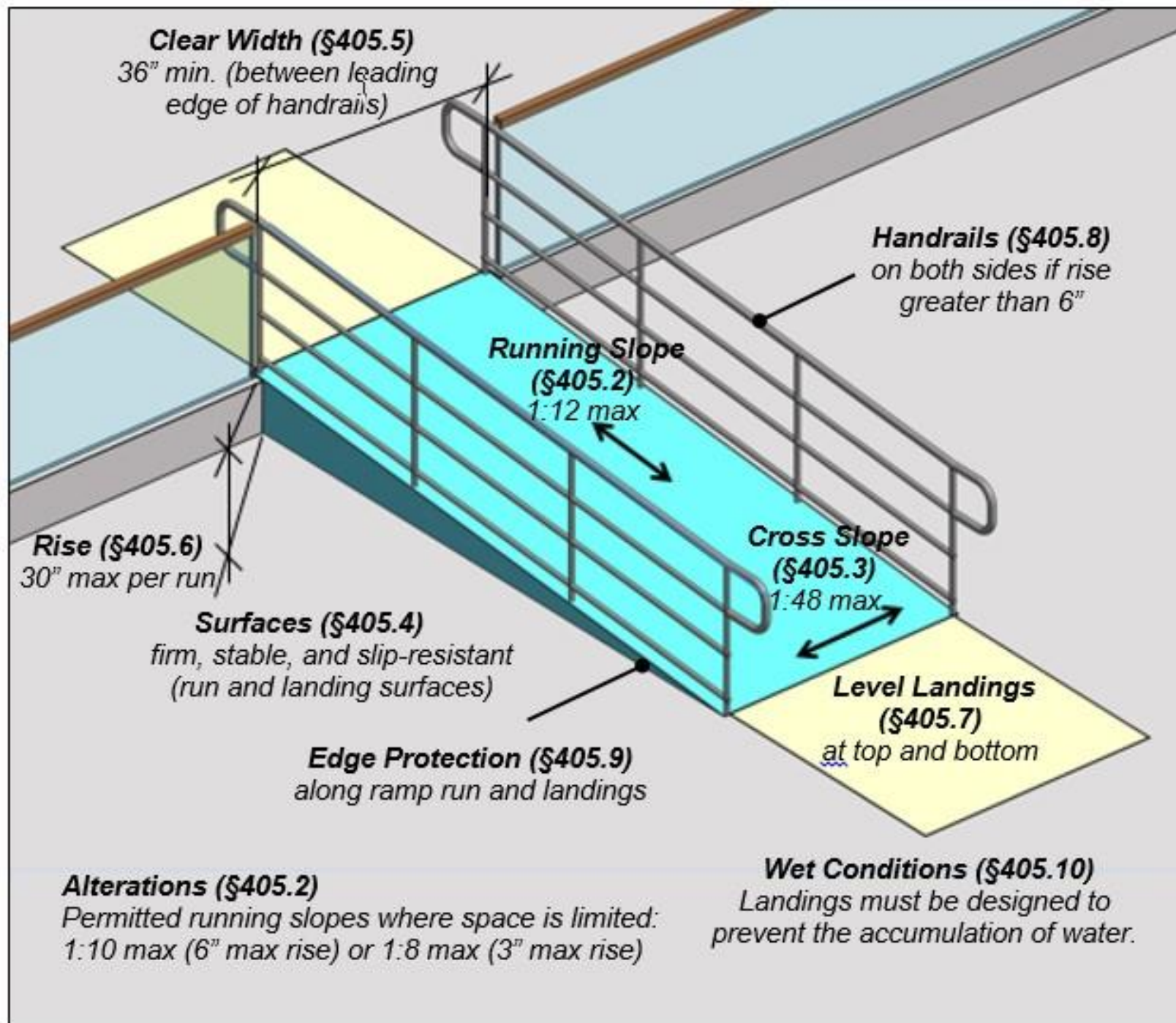


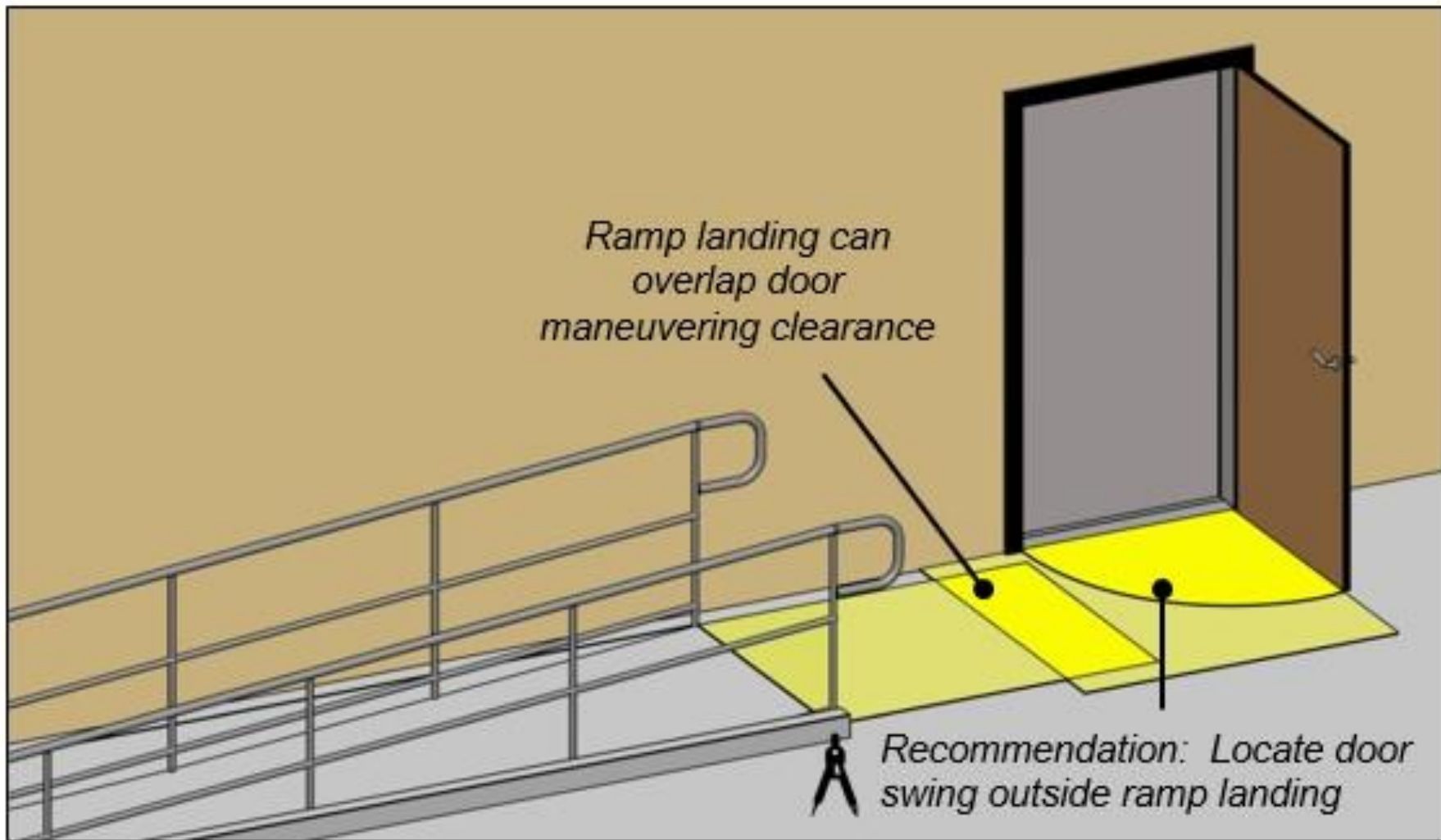
- No more than $\frac{1}{2}$ inch opening in the direction of travel.

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



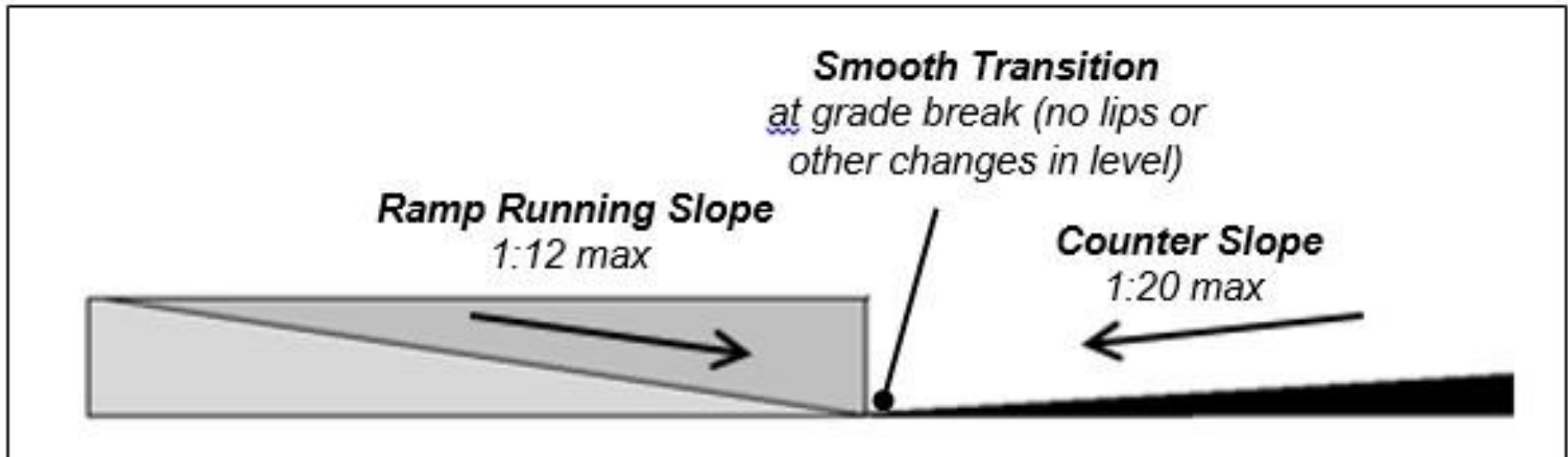




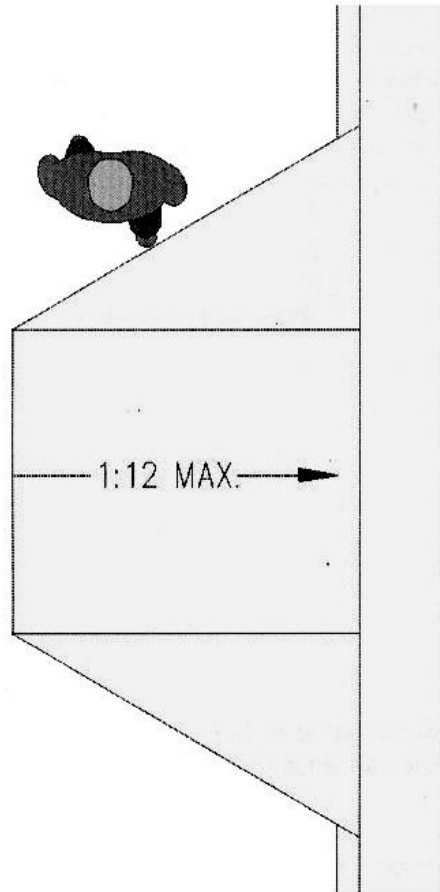
Curb Ramps (406)

- Smooth transition
- 1:12 max. slope,
- 36" min. width
- Side flares or return curb sides
- Landing at top; clear space at bottom
- **NO handrails**

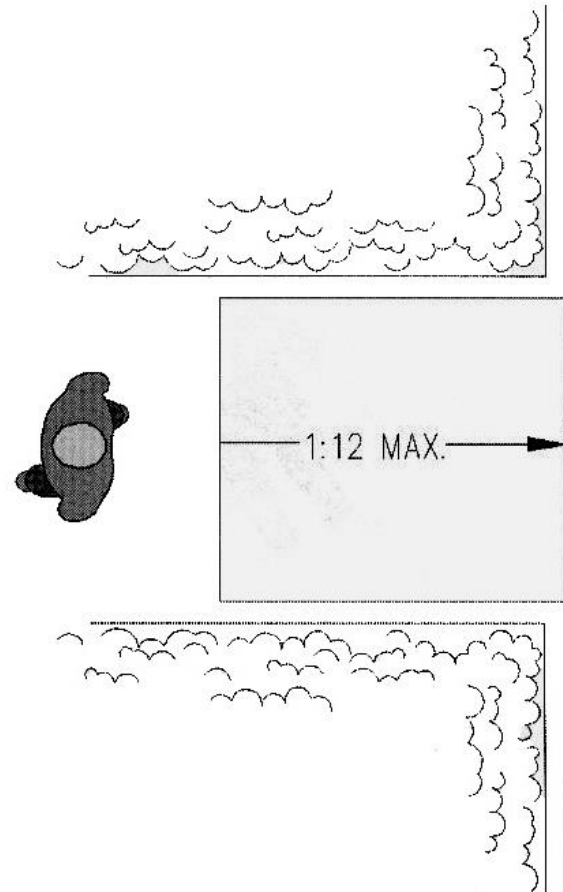
Curb Ramps –smooth transition



Curb Ramps

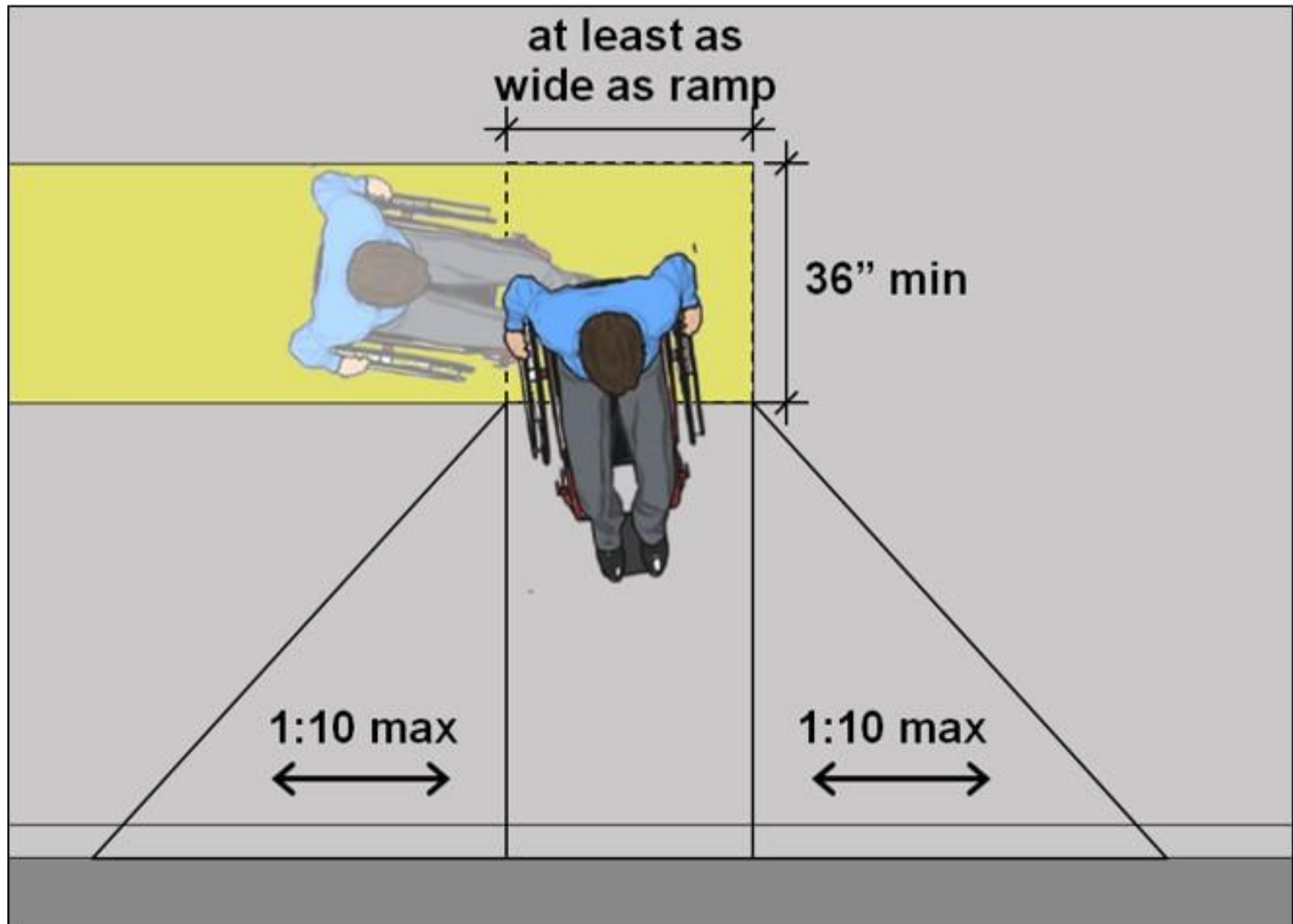


Side flares



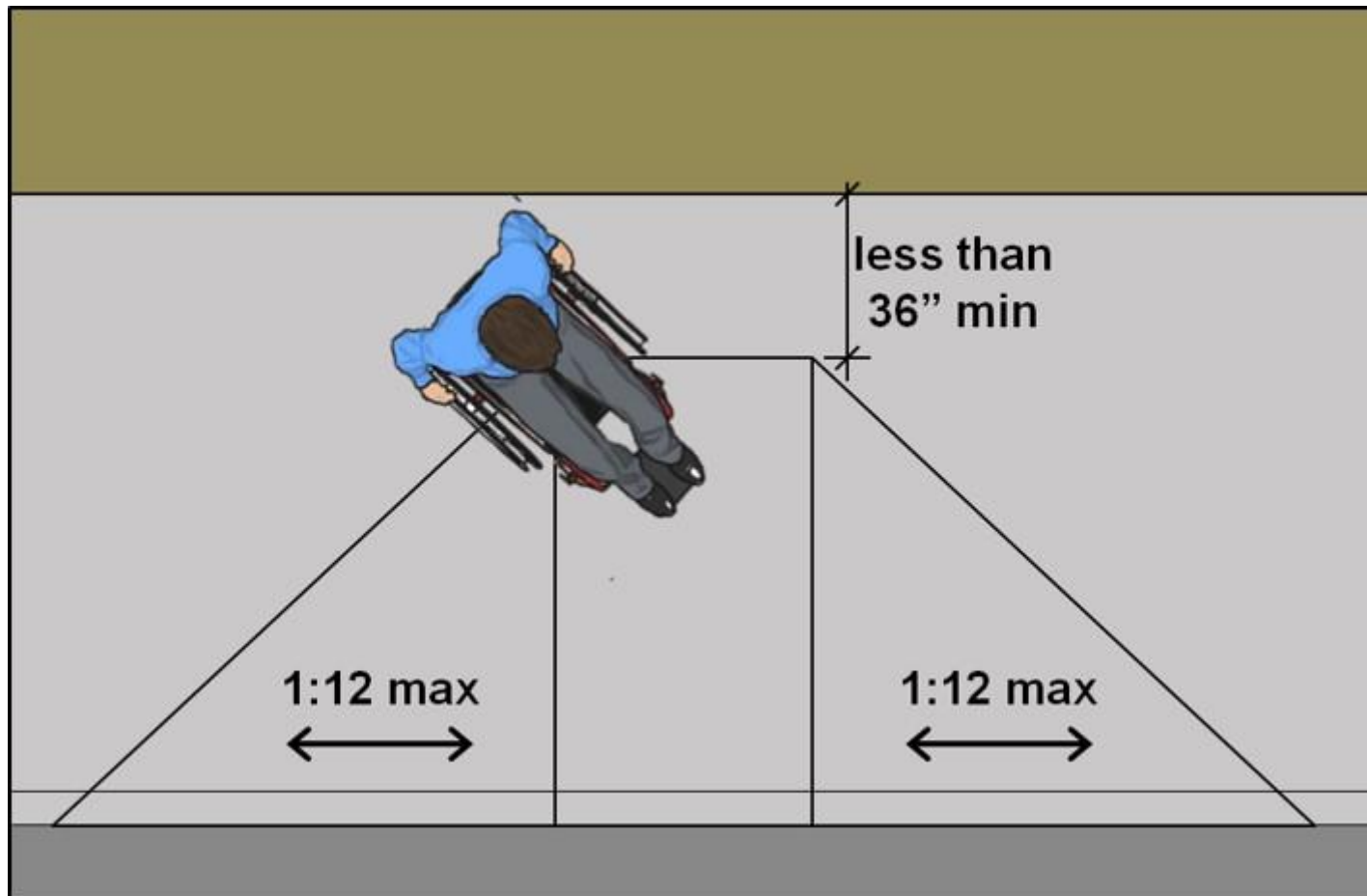
Returned curb sides

Curb Ramps

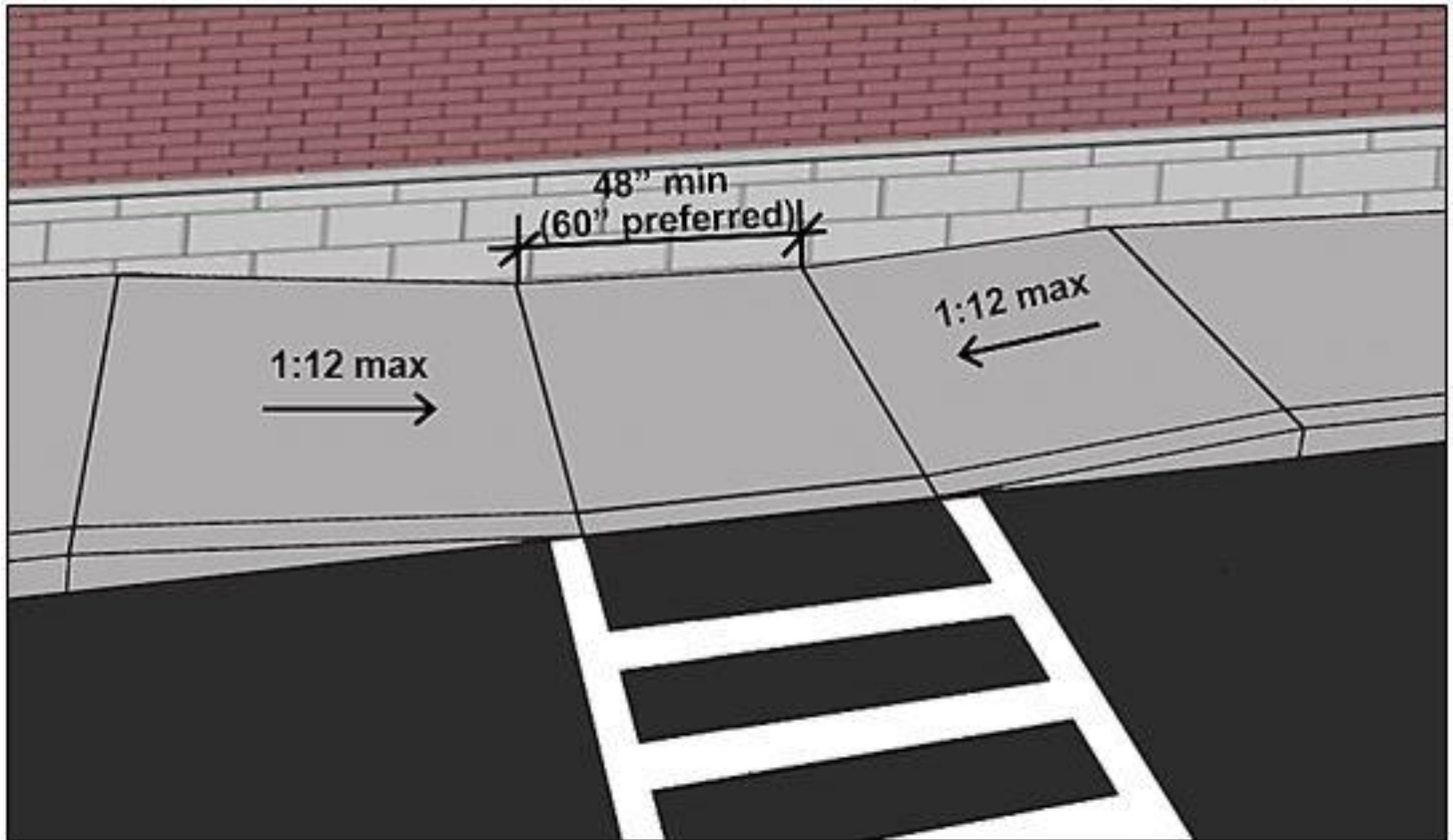


Curb Ramps

In alterations where sufficient landing space is not available, side flares must be provided and cannot slope more than 1:12



Curb Ramps



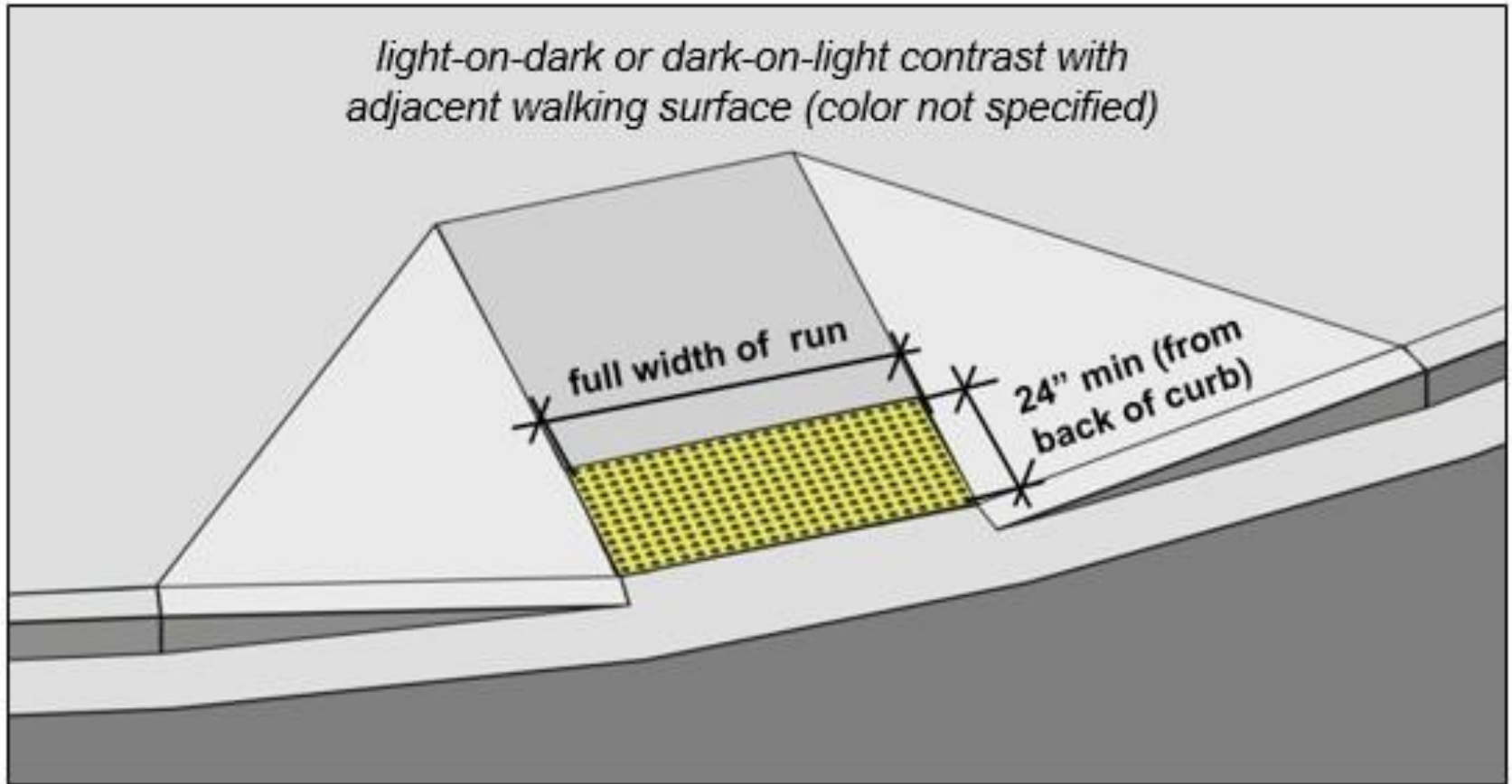
A 48'' (60'' preferred) landing accommodates maneuvering between runs and right-angle turns

Curb Ramps



Insufficient space at top makes maneuvering difficult (flares should not be part of the AR)

Detectable Warnings



Detectable Warnings

- **Required on curb ramps at:**
 - Transit facilities (406.8, DOT Standards)
 - FHWA funded projects
 - Boarding platform edges
- **Not required on curb ramps at:**
 - Facilities (non-transit) located on sites

Accessible Parking Space

Detectable Warning – Not required at access aisle

Curb ramps – Not protrude into access aisle



Entrances



Automation of exterior doors recommended



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202-272-0045

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