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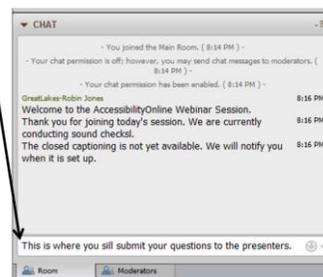
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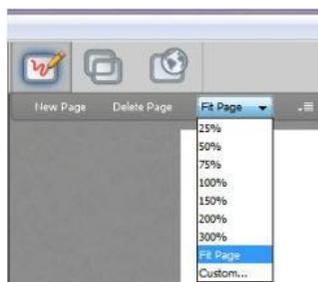
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Customize Your View *continued*

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Protruding Objects

Presenters



Rex Pace



Earlene Sesker

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Session Agenda

- Scoping
- Technical
- Maintenance
- Exceptions
- Outdoor Developed Areas
- Public Rights of Way
- Other Issues

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Individuals Who are Blind or Have Low Vision



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Detection Cane Technique

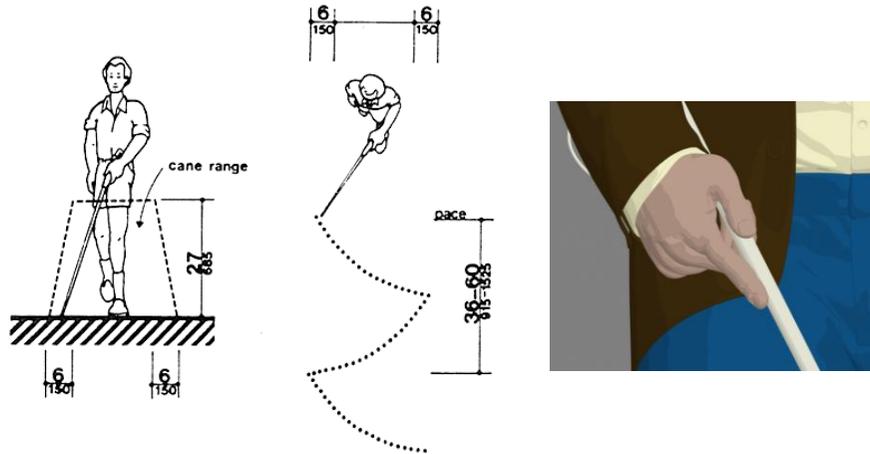


Fig. A4
Cane Technique

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Wayfinding

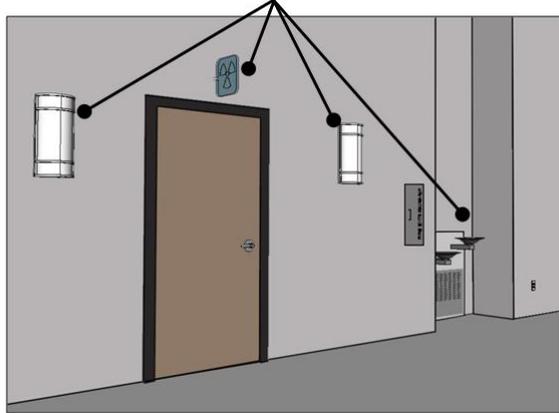


Cane detection along walls – “shoreline”

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Types of Protruding Objects

Examples of protruding objects



Standards sets protrusion limits into circulation paths

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Protruding Objects (§ 204)

Scoping:
Applies to each
circulation path –
not just accessible
routes



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What is a circulation path?

106.5 Defined Terms

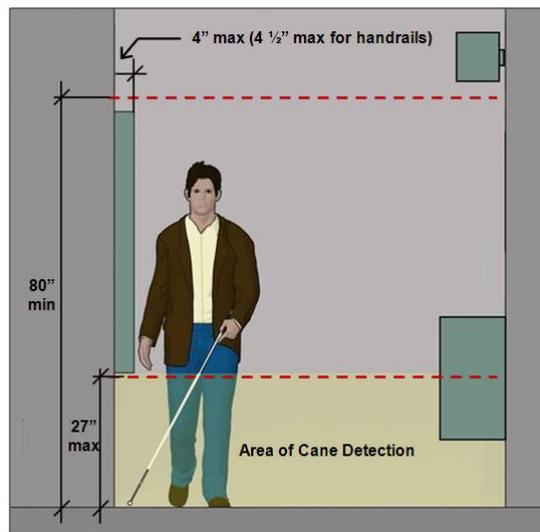
Circulation Path. An exterior or interior way of passage provided for pedestrian travel, including but not limited to, walks, hallways, courtyards, elevators, platform lifts, ramps, stairways, and landings.

Intended Purpose



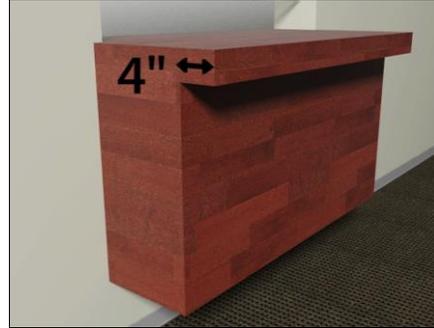
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Protrusion Limits (§307.2)



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Protrusion Limits (§307.2)



**4" Measured from the
Circulation Path**

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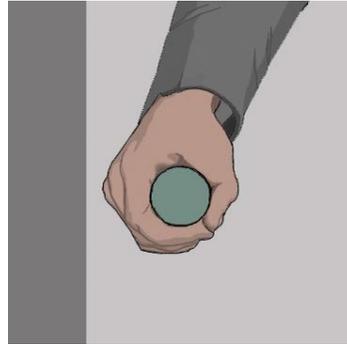
Protrusion Limits (§307.2)



**If side panels meet limits, knee space not
typically part of circulation path**

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Handrail Exception (§307.2)



Handrails are permitted to protrude 4½ inches max

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Post-mounted Objects

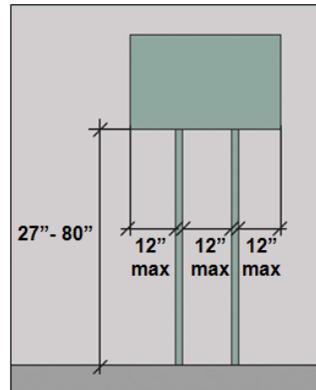
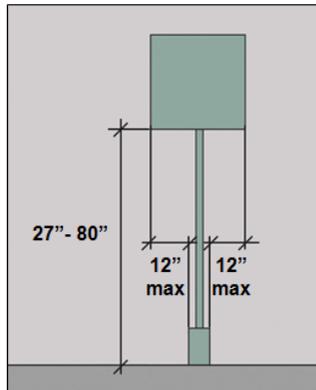


Different protrusion limits apply to objects mounted on posts

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Post-Mounted Objects (§307.3)

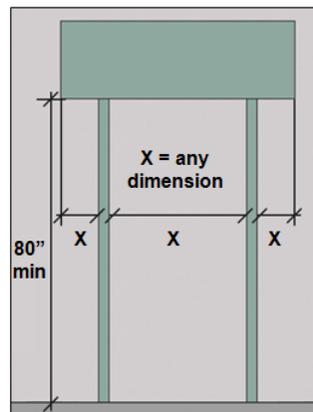
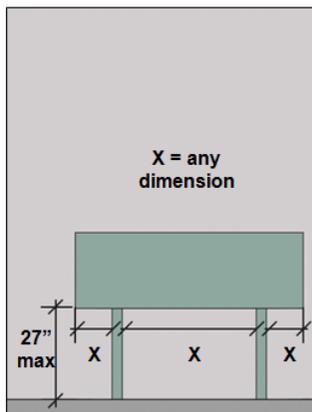
Objects with leading edges 27" - 80" high on posts/ pylons:
12" max. protrusion into circulation paths.



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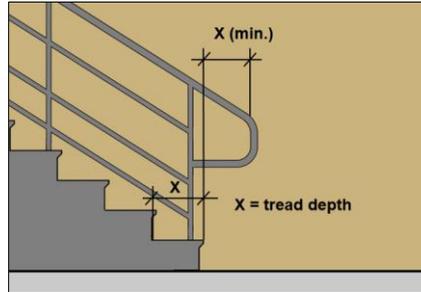
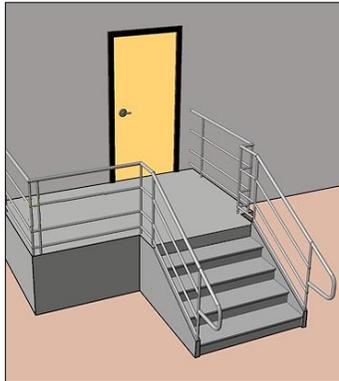
Post-Mounted Objects (§307.3)

Post-mounted objects with leading edges 27" max or
above 80" can protrude any amount



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Handrail Exception (§307.3)

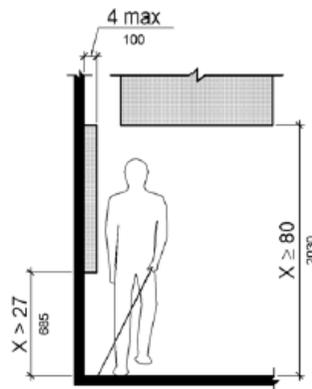


Sloping portions of handrails on stairs and ramps are not required to comply

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Vertical Clearance (§307.4)

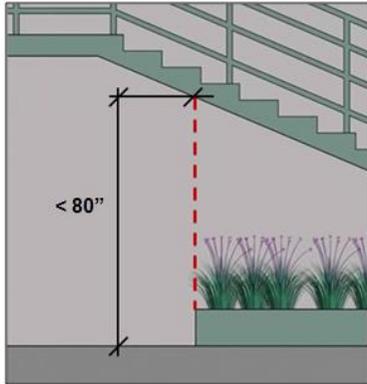
A vertical clearance of 80 inches high minimum must be provided



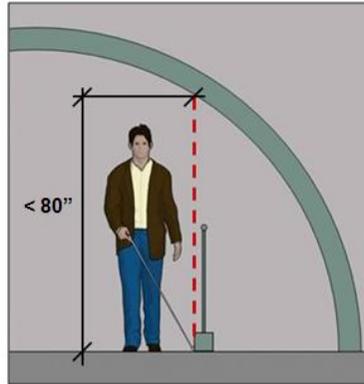
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Vertical Clearance

80" min. vertical clearance – guardrails or other barriers required where clearance < 80" (leading edge 27" high max.)

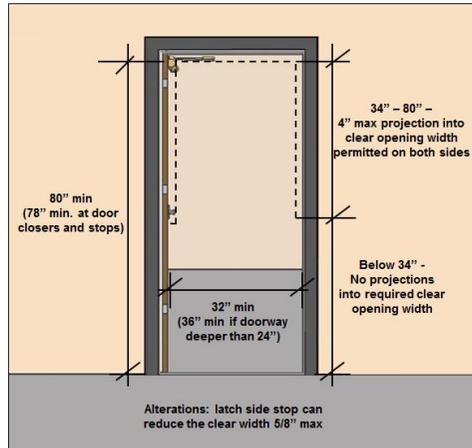


Reduced Clearance
Below Stairway



Clearance Reduced at
Curved (or Sloped Walls)

Door Exception (§307.4)

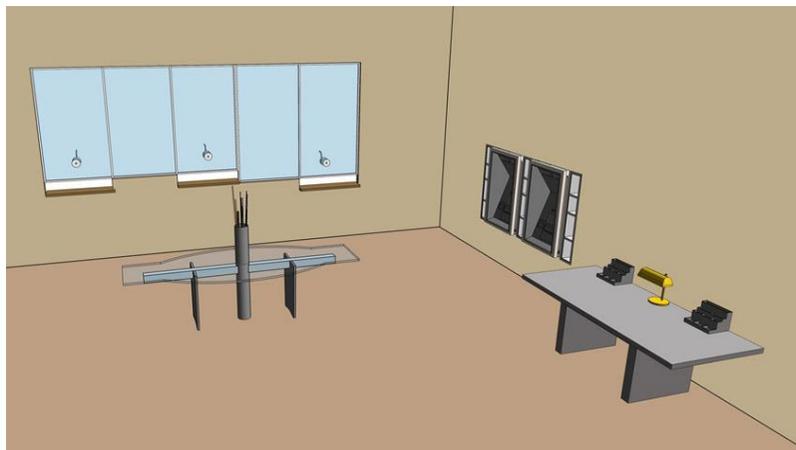


Door closers and door stops are permitted to be 78 inches min. above the finish floor or ground

Common Protruding Objects

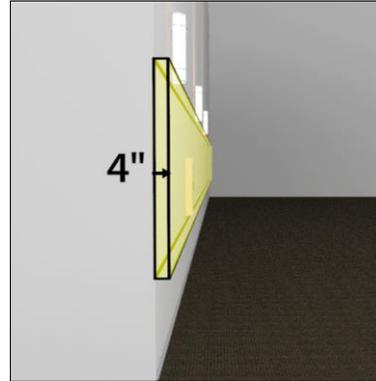
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They're Everywhere



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Fire Extinguisher Cabinets



**Recessed into wall or detectable
barrier beneath**

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Wall Mounted TVs and Monitors



detectable feature below

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Drinking Fountains



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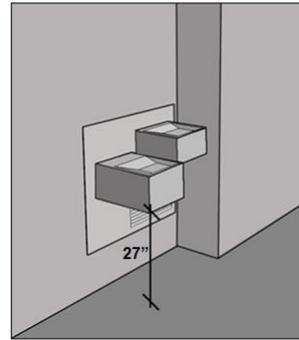
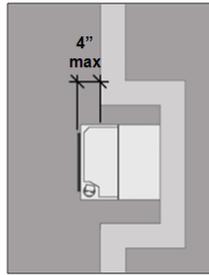
Drinking Fountains



**27" absolute to be accessible
and detectable**

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Drinking Fountains



Recessed to limit projection to 4"

Wheelchair accessible unit (27" high absolute)
can enclose one side of high units

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Drinking Fountains



Built-in seating benches used to create
detectable barriers

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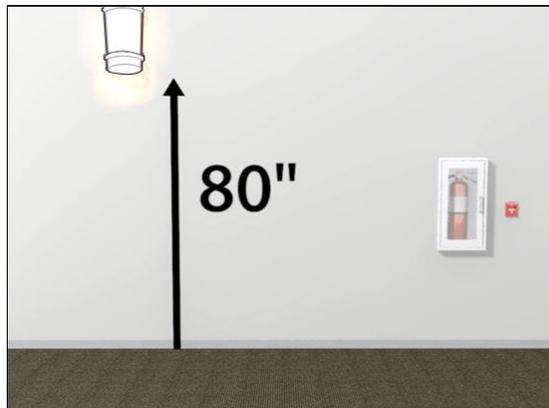
Lavatories



Location is critical

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Wall Lighting Sconces



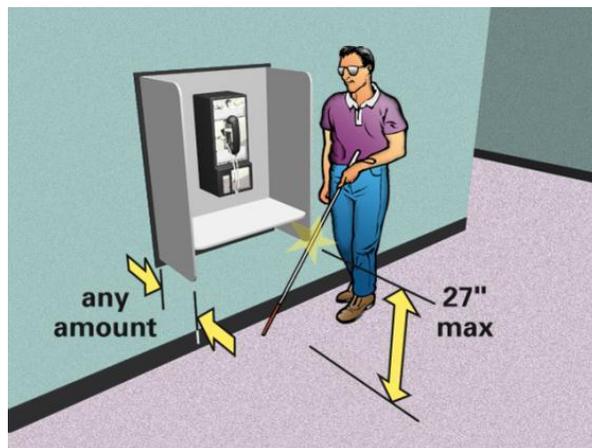
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Shelves and Coat Rods



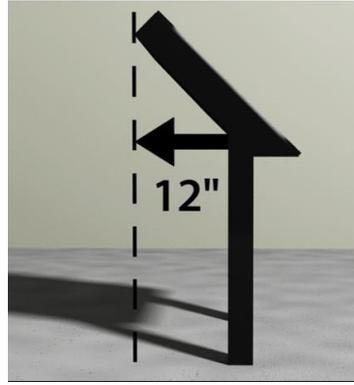
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Telephone Booths



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Tilted Displays



**12" max. if no
detectable element**

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Tilted Displays

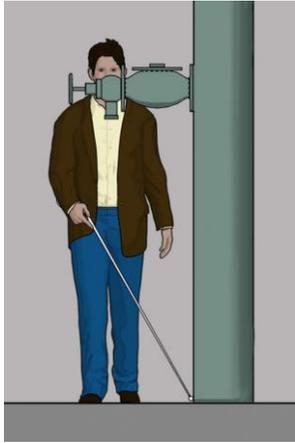


**Space between post
supports**



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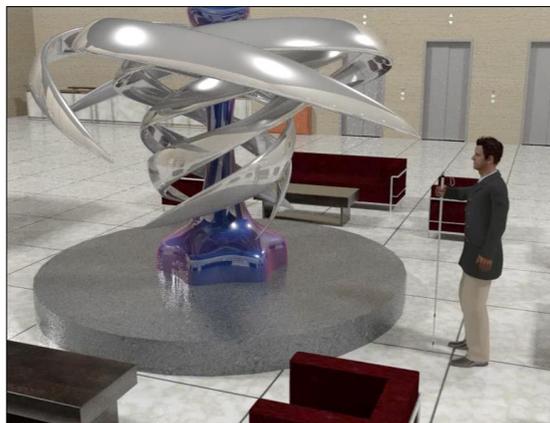
Standpipes and Valves



valve size and height above floor

45

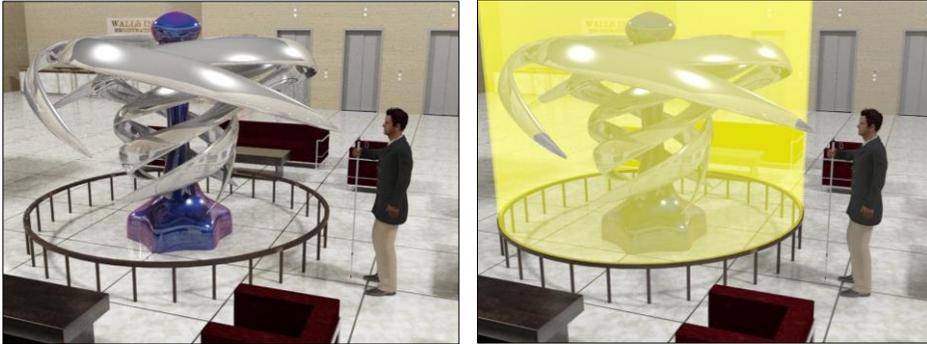
Sculptures



Detectable base or barrier

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Sculptures



Detectable base or barrier

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Open Stairways



Vertical clearance requirements



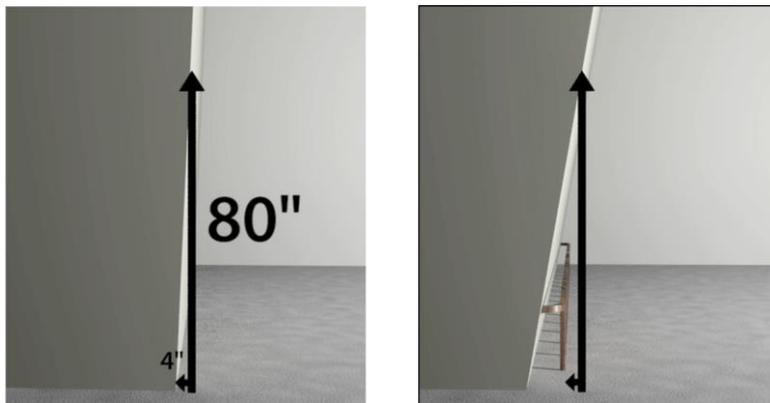
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Overhead Signs



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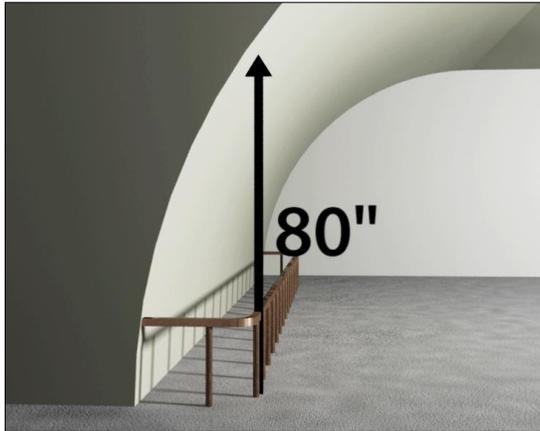
Sloped and Curved Walls



4" and 80" Working Together

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Sloped and Curved Walls



Plumb Down for Curved Walls

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Detectable Barriers



Feature must be fixed

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Maintenance of Accessible Features

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Maintenance



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Temporary Features



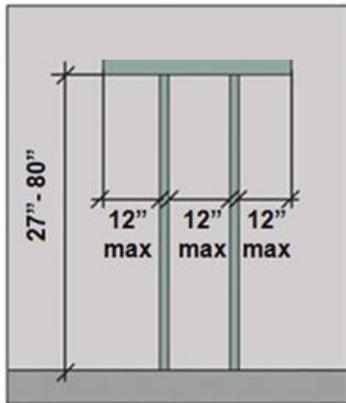
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Queue Lines



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Queue Lines



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Folding Chart Tables and File Holders



Fold-up after use to avoid obstacles and preserve clearances

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Exam Room Status Flags



Flag signs used in medical settings cannot protrude into circulation paths unless above 80"

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Exceptions

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Areas of Sport Activity (§204.1)



204.1 General – EXCEPTION 1 - Within areas of sport activity, circulation paths are not required to comply with 307

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Protruding Objects - Play Areas

204.1 General – EXCEPTION 2 - not be required to comply with 307 if ground level accessible routes provide vertical clearance in compliance with 1008.2.

1008.2 Accessible Routes – 80"
vertical clearance required on **ground level** routes, clear floor spaces, and maneuvering spaces.

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Applying the Standards



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Wheelchair Spaces - Amusement Rides



1002.4.4 Clearances – Exception 2 - not required to comply with 307.4 Vertical Clearance

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Outdoor Developed Areas

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Architectural Barriers Act (ABA)

New Standards for outdoor developed areas on property owned by Federal agencies address:

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



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Protruding Objects

- Outdoor recreation access routes (ORAR)
- Pedestrian Trails
- Beach access routes (BAR)



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Protruding Objects

1016.9, 1017.9, and 1018.9:

Constructed elements

On ORARs, Trails and BARs and associated resting intervals and passing spaces **must comply** with 307



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Constructed Features



Covered by 307 protruding objects

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Natural Features



**Not covered by
307 protruding
objects**

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Public Rights-of-Way

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Proposed R210 and R402 Protruding Objects



Must comply within entire width of the circulation path – beyond pedestrian access routes

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Proposed Difference from Standards

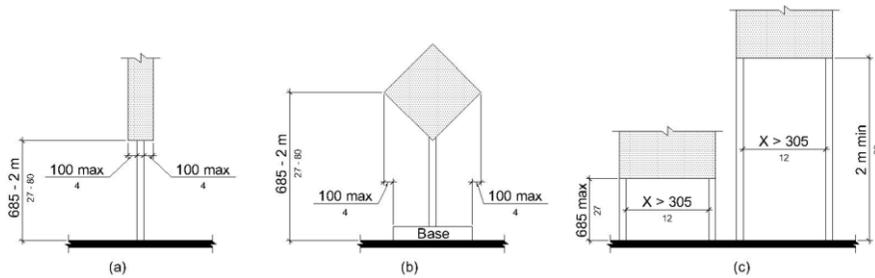


Figure R402.3 Post-Mounted Objects

Post and Wall-mounted objects have same technical Requirements

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PROW Protruding Object Concerns



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Shared Use Paths



Protruding object provisions proposed to be same as PROW except minimum vertical clearance of 8'-0"

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Other Issues

- Detectable Warnings
- Tactile Characters and Braille
- Visual Contrast and Surface Finish
- Audible Cues
- Speech Output

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Detectable Warnings



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Technical Guides on the Standards Available on the Board's website



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Questions?

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Course Title: Protruding Objects

Course Number: GL20160107

Date: January 7, 2016



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