Redefining Disability

SustainABLE for ME:

MuseumABLE: Inclusive Experiences

Ketra Crosson, OTL
Jill Johanning, AIA
...and featuring: Karen Perry

South Portland   Bangor   Presque Isle

DESIGN FOR PEOPLE

Space Necessary for Adults Using Crutches or Walker

Minimum Space Necessary for Person with a Service Animal

Space Allowances and Approximate Dimensions of Adult-Sized Wheelchairs

2017 ANSI A117.1:
30” x 52” (except existing)

30” X 48” clear
floor space

footrests and toes
may extend farther
for some people

Drawings: Fair Housing Act Design Manual
2010 ADA Standards of Accessible Design

EVERYTHING is accessible, unless it meets an exemption

2015 IBC

“Everything must be accessible, and then allow for a degree of inaccessibility that is logical and reasonable.”

2015 IIEC

“The intent is that when a building is altered, it should be made accessible to the maximum extent possible within reason.” Section 410

Applies to all fixed/built-in elements

What am I offering, and how is it going to be different for someone with a disability?

EXISTING FACILITIES

NO GRANDFATHERING

Obligations for accessibility even when no alterations are planned.

Businesses have a continuing obligation to remove architectural barriers in existing facilities when it is “readily achievable” (“easily accomplishable without much difficulty or expense”).

• Based on the size and resources
• Will vary from business to business
• Sometimes from year to year
HISTORIC PRESERVATION (35.151(B)(3)/36.405)

No GRANDFATHERING

If it is not feasible to provide access to an historic property that will not threaten or destroy the historic significance of the building or facility, alternative methods of access shall be used.

TECHNICALLY INFEASIBLE

Structural conditions would require removing or altering a load-bearing member that is an essential part of the structural frame or

Physical or site constraints prohibit modification or addition of elements, spaces, or features that are in full and strict compliance with the minimum requirements.
ACCESS AISLE SIGNS
ACCESSIBLE SURFACE
ACCESSIBLE ROUTE

PARKING

SHUTTLES/TOURS

AUDIO
MOBILITY DEVICES
SURFACES
FIRM, STABLE AND SLIP RESISTANT

CAMPUS ACCESS
HISTORIC EXAMPLES:
STURBRIDGE VILLAGE
POMPEII
“But what if these robots were simpler, more like the assistive devices? What if they were invisible, like furniture? What if they actually were furniture?”

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RAMPS

• Graspable handrails on both sides
• Returned extensions at top and bottom
• 7:11 minimum closed treads
• Nosing
LIFTS
VERTICAL PLATFORM LIFTS
PORTABLE LIFTS
INCLINED PLATFORM LIFTS

PORTABLE RAMPS
EXISTING FACILITIES
DOORS

LEVERS/PULLS

CONTRASTING COLORS

SWING AWAY Hinges

DOOR OPERATORS/BUTTONS

AUTOMATIC DOORS NOT REQUIRED, BUT MAKE A GREAT FIRST IMPRESSION.
PROTRUDING OBJECTS

Provide objects in alcoves and/or with bases for cane detection.

WBRC Architects
Engineering
CIRCULATION
36 INCHES ACCESSIBLE ROUTE
CONTRASTING COLORS
LIGHTING/GLARE/ACOUSTICS

EXHIBITS
VIEWING HEIGHTS
EXHIBITS

VIEWING SURFACES

EXHIBITS

LOW HEIGHTS
EXHIBITS

TACTILE
LASER PRINTERS
3D PRINTERS
REPRODUCTIONS

EXHIBITS
INTERACTIVE
"Tangly Murphy, an interpretation at the Single Brothers House in Old Salem, shows items from her “Experience Box.” The boxes contain items that were a part of everyday life for Moravians and are designed to make the experience of visiting Old Salem more immersive and tactile. Efforts are also underway to make the buildings more accessible to visitors with disabilities."

Photo by David Rolfe/Journal
EXHIBITS

AUDIO TOURS

Required where audible communication is integral to the use of the space, but are not required where audio amplification is not provided.

Number of required receivers based on seating capacity.
APPs/MEDIA

CANADIAN MUSEUM FOR HUMAN RIGHTS

AUDIO
CAPTIONS
AMERICAN SIGN LANGUAGE (ASL)

EXHIBITS

VIDEOS OF SPACES THAT ARE NOT ACCESSIBLE
VIRTUAL REALITY:
Dutch theme park Efteling
TECHNOLOGY

MAPTIC
“It includes a LIDAR sensor that visually scans the world around you and sends information about which direction to go, using vibrating wearables that users wear like bracelets on their wrists.”

SUPPORT SPACE
COUNTERS
36 INCHES HIGH MAX

WORK SURFACES
34 INCHES MAX
WEBSITE

DESCRIPTION OF FACILITIES/EXPERIENCE

SCREEN READER MEDIA

WEBSITE

VIRTUAL TOUR
RESOURCES
GUIDES AND CHECKLISTS AVAILABLE TO HELP

Society of American Archivists
Guidelines for Accessible Archives for People with Disabilities

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