25 for 25 Cultural Access Project



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Children

Senior Citizens

People with Severe Disabilities

24% of US population

13% of US population

12.6% of US Population

U.S. Census Bureau







Variation in human ability is ordinary, not special, and affects most of us for some part of our lives.

The Institute for Human Centered Design







2001 - WHO Redefined Disability and Health:

Defined disability as a *contextual variable*. A person with a functional limitation is more or less disabled based upon the intersection with the environment:

- Physical environment
- Communication environment
- Information environment
- Social & Policy environments

Design is powerful and profoundly influences our daily lives and our sense of **confidence**, **comfort**, and **control**.

The Institute for Human Centered Design



Chicago Building Code (Chapter 18-11)

Enforced by: Chicago Mayors for People with Disabilities (MOPD)

Illinois Accessibility Code (IAC)

Enforced by: Illinois Attorney General

Americans with Disabilities Act (2010 ADA Standards)

Enforced by: U S Department of Justice

Rehabilitation Act (Section 504)

Enforced by: U S Department of Justice

International Building Code (IBC)

Model Code w/ ANSI A-117.1

Fair Housing Act (FHA)

Enforced by: U S Department of Justice & HUD





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Fair Housing Act (FHA)

Enforced by: U S Department of Justice & HUD

"To provide a clear and comprehensive national mandate for the elimination of discrimination against individuals with disabilities."

Goals:

- Empowerment
- Inclusion
- Independence



Five Titles:

Title I Employment

Title II State and Local Government

Title III Public Accommodations

Title IV Telecommunications

Title V Miscellaneous Provisions







Five Titles:

Title I Employment

Title II State and Local Government

Title III Public Accommodations

Title IV Telecommunications

Title V Miscellaneous Provisions







- New Construction
- Additions
- Alterations
- Existing Facilities



Americans with Disabilities Act New Construction

2010 ADA Standards:
 On or after March 15, 2012, all newly constructed buildings and facilities must comply with the 2010 Standards.



Studio Gang Architects

- Applies to building open to & usable by:
 - Members of the Public
 - Employees (Limited)

- Accessible Entrance
- Route to Addition
- Toilets



2010 ADA Standards

On or after March 15, 2012, All altered facilities must comply with the 2010 Standards.



- Alterations
- Path of Travel
- Historic Preservation

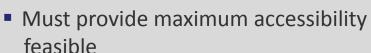


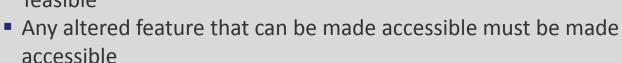
Any alteration shall be made so as to ensure that, to the maximum extent feasible, the altered portions of the facility are readily accessible to and usable by individuals with disabilities, including individuals who use wheelchairs.

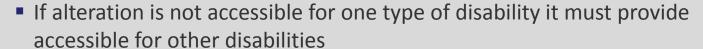


"Maximum Extent Feasible"

Applies to the occasional case where the nature of an existing facility makes it virtually impossible to fully comply.









"Technically Infeasible"

With respect to an alteration of a building or a facility, something that has little likelihood of being accomplished because existing structural conditions would require **removing or altering a**



load-bearing member that is an essential part of the structural frame; or because other **existing physical or site constraints** prohibit modification or addition of elements, spaces, or features that are in full and strict compliance with the minimum requirements.

"An alteration that affects the usability of the facility and contains a **primary function** area must include an accessible **path of travel** to the altered area unless the cost of the path of travel is **disproportionate** to the cost of the overall alteration. "

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- 1. Primary Function
- 2. Path of Travel
- 3. Disproportionate

An alteration that affects the usability of the facility and contains a **primary function** area must include an accessible **path of travel** to the altered area unless the cost of the path of travel is **disproportionate** to the cost of the overall alteration

"Primary Function"

"A major activity for which the facility is intended."

NOT:

Roof & Exterior Walls

Entrance

Toilets, etc.

An alteration that affects the usability of the facility and contains a primary function area must include an accessible **path of travel** to the altered area unless the cost of the path of travel is disproportionate to the cost of the overall alteration "Primary Function"

"A major activity for which the facility is intended."

"Path of Travel"

"A continuous, unobstructed way of pedestrian passage by means of which the altered area may be approached, entered, and exited, and which connects the altered area with an exterior approach and entrance to the facility, and other parts of the facility."

An alteration that affects the usability of the facility and contains a primary function area must include an accessible path of travel to the altered area unless the cost of the path of travel is **disproportionate** to the cost of the overall alteration

"Primary Function"

"A major activity for which the facility is intended."

"Path of Travel"

"A continuous, unobstructed way of pedestrian passage by means of which the altered area may be approached, entered, and exited, and which connects the altered area with an exterior approach and entrance to the facility, and other parts of the facility."

"Disproportionate"

"Alterations made to provide an accessible path of travel to the altered area will be deemed disproportionate to the overall alteration when the cost exceeds 20 % of the cost of the alteration to the primary function area."







Floors 1 & 2 - Class Rooms

Floor 3 - Laboratories

Project	Scope
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i roject i	ocope	
Landscaping		\$ 98,000
Envelope Stabilization		\$1,335,000
New RoofTuck PointingNew Windows	\$ 328,000 \$ 389,000 \$ 618,000	
- HVAC		\$ 360,000
Class Room Alterations		\$4,497,000
- First Floor Class Rooms- Second Floor Class Rooms- Third Floor Class Rooms (Labs)	\$ 325,000 \$ 386,000 \$3,786,000	
	TOTAL	\$6.290.000 ²⁶

Primary Function Area Analysis:

Landscaping	\$	98,000
Envelope Stabilization	\$1 ,	335,000

New Roof \$ 328,000
 Tuck Pointing \$ 389,000
 New Windows \$ 618,000

- HVAC \$ 360,000

Class Room Alterations \$4,497,000

First Floor Class Rooms \$ 325,000
Second Floor Class Rooms \$ 386,000
Third Floor Class Rooms (Labs) \$3,786,000

Path of Travel

Primary Function Area Analysis:

Landscaping \$	98,000
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Envelope Stabilization \$1	1,335,00	JU
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- New Roof	\$ 328,000
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Path of Travel

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- First Floor Class Rooms	\$ 325,000	
- Second Floor Class Rooms	\$ 386,000	

- Third Floor Class Rooms (Labs)

Total Primary Function Areas \$4,497,000

\$3,786,000

Primary Function Budget = \$4,497,000

[20% of \$4,497,000 = \$899,400]

Entrance Ramp \$ 40,000
Accessible Entrance Doors \$ 22,000
3 Stop Elevator \$225,000
Accessible Bathrooms (6) \$175,000

Primary Function Budget = \$4,497,000

[20% of \$4,497,000 = \$899,400]

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Americans with Disabilities Act Historic Preservation

- Alterations to historic properties must comply, to the maximum extent feasible.
- If the alteration would threaten or destroy the historic significance of the building or facility, alternative methods of access can be provided





Existing Facilities

ADA Title II - Program Accessibility & Transition Plans

ADA Title III - Readily Achievable Barrier
 Removal



Program & Facility Accessibility

A public entity shall operate each service, program, or activity so that the service, program, or activity, when

viewed in its entirety, is readily accessible to and useable by individuals with disabilities.



1. A public entity is not necessarily required to make each existing facility accessible

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2. Require a public entity to take any action that would threaten or destroy the historic significance of an historic property



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- 3. Take any action that it can demonstrate would result in a fundamental alteration in the program, service or activity.
- 4. Take any action that would result in an undue financial and administrative burden.





Americans with Disabilities Act (ADA) Transition Plan

In the event that structural changes to facilities will be undertaken to achieve program accessibility, a public entity that employs 50 or more persons shall develop a transition plan.

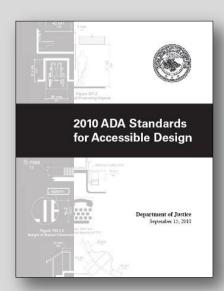
- 1. Identify the barriers that must be removed,
- 2. Provide a detailed description of how the barriers will removed,
- 3. Provide an annual schedule for the barrier removal,
- 4. Identify the official responsible for barrier removal

Americans with Disabilities Act (ADA) Transition Plan

A public entity shall provide an opportunity to interested persons, including individuals with disabilities or organizations representing individuals with disabilities, to participate in the development of the transition plan by submitting comments. A copy of the transition plan shall be made available for public inspection.

ADA Title II Program Accessibility

2010 Standards are new reference point for Program Accessibility



www.ada.gov/2010ADAstandards_index.htm



ADA Title III Barrier Removal

Section 36.304

"A public accommodation shall remove architectural barriers in existing facilities, including communication barriers that are structural in nature, where such removal is **readily achievable.**

"easily accomplishable and able to be carried out without much difficulty or expense."





On Going Obligation

ADA Title III Barrier Removal - Priorities

A public accommodation is urged to take measures to comply with the barrier removal requirements of this section in accordance with the following order of priorities:

- **1.** A public accommodation should take measures to provide access to a place of public accommodation from public sidewalks, parking, or public transportation.
- 2. A public accommodation should take measures to provide access to those area of a place of public accommodation where goods and services are made available to the public.

ADA Title III Barrier Removal - Priorities

A public accommodation is urged to take measures to comply with the barrier removal requirements of this section in accordance with the following order of priorities:

- **3.** A public accommodation should take measures to provide access to **restroom facilities**.
- **4.** A public accommodation should take **any other measures necessary** to provide access to the goods, services, facilities, privileges, advantages, or accommodations of a place of public accommodation.

ADA Title III Barrier Removal - Alternatives

When a public accommodation can demonstrate that the removal of barriers is not readily achievable, the public accommodation must make its goods and services available through alternative methods, if such methods are readily achievable.

Examples of alternatives to barrier removal include:

- Providing curb service or home delivery
- Retrieving merchandise from inaccessible shelves or racks
- Relocating activities to accessible locations

ADA Title III Barrier Removal - Alternatives



de Young Museum, San Francisco

ADA Title II & III Safe Harbor

Elements that have not been altered in existing facilities on or after March 15, 2012, and that comply with the corresponding technical and scoping specifications for those elements in either the 1991 Standards or in the Uniform Federal Accessibility Standards (UFAS), are not required to be modified in order to comply with the requirements set forth in the 2010 Standards.

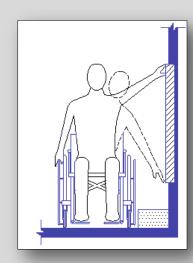
- Applies element-by-element
- Applies only if element hasn't been altered



ADA Title II & III Safe Harbor - Example

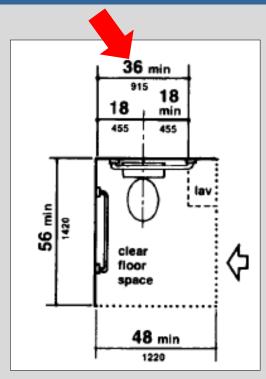
Light Switch - 54" AFF v 48" AFF

- 1991 ADA Standard 54" AFF Max.
- 2010 ADA Standard 48" AFF Max.

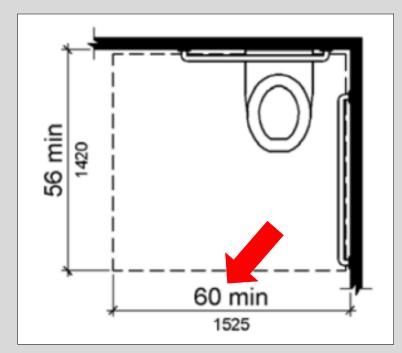




ADA Title II & III Safe Harbor - Example

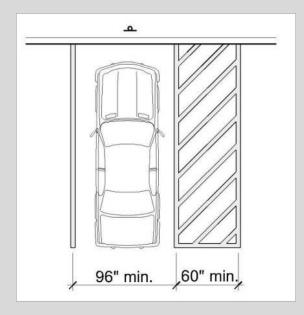


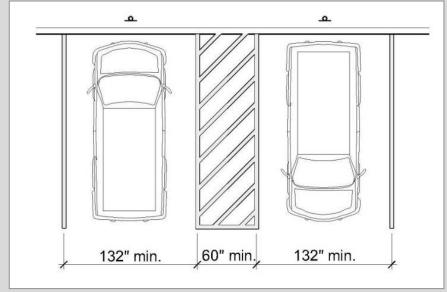
1991 ADA Standards



2010 ADA Standards

Accessible Parking

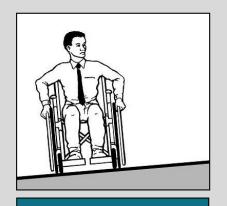




ADA

Illinois Accessibility Code (IAC)

Slopes



Cross Slope 2.0% Max.

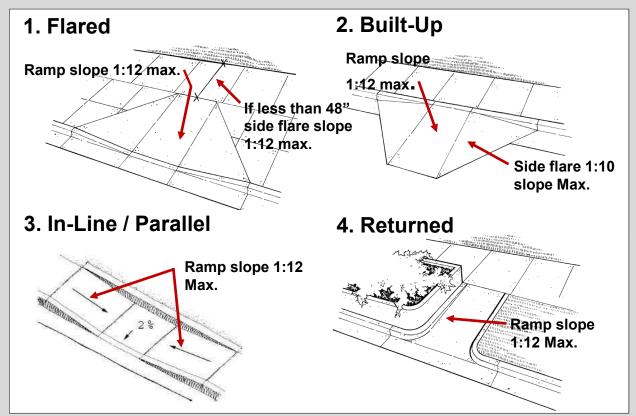


Walkway 5.0% Max.



Ramp 5.0 – 8.3%

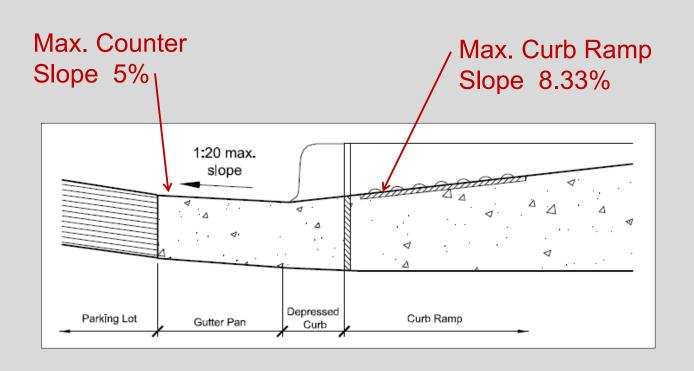
Curb Ramps



Detectable Warnings



Curb Ramp Counter Slope



Automatic Doors

CBC 18-11-1105.4 Automatic doors

At least one accessible entrance door to the following facilities, shall be a automatic door

2. Museums with an aggregate area of 5,000 square feet or more





Automatic Doors

CBC 18-11-1105.4 Automatic doors

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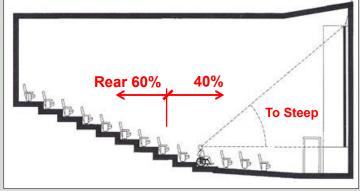
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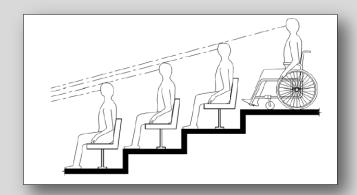


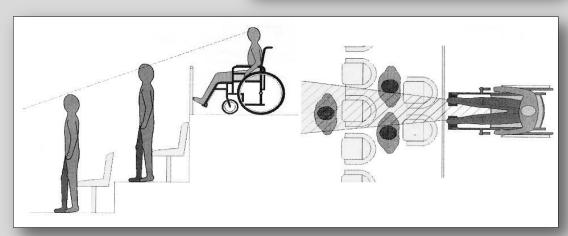
Stadium-style movie theaters shall locate wheelchair spaces and companion seats on a riser or cross-aisle in the stadium section that satisfies at least one of the following criteria:

- 1. It is located within the **rear 60%** of the seats provided in an auditorium; or
- It is located within the area of an auditorium in which the vertical viewing angles (as measured to the top of the screen) are not to steep.



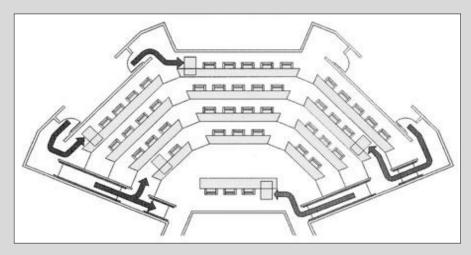
Comparable lines of sight over seated and standing spectators





Accessible spaces must be dispersed & Integrated

- Horizontally (side-to-side)
- Vertically (front-to-back)







- Companion seats shall be equivalent in size, quality, comfort, and amenities to the seating in the immediate area.
- "Fixed" companion seat no longer required



1991 ADA Standards



2010 ADA Standards

Assistive Listening Devices

In each assembly area where audible communication is integral to the use of the space, an assistive listening shall be provided



Where a circulation path directly connects a performance area to an assembly seating area, an accessible route shall directly connect the assembly seating area with the

performance area.



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performance area.



Historic Preservation

Alterations to historic properties must comply, to the maximum extent feasible, with the provisions applicable to historic properties.

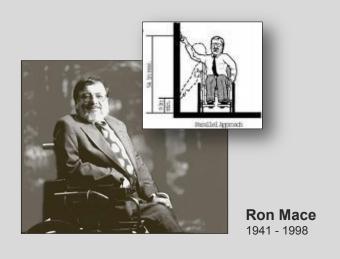
If it is not feasible to provide physical access to an historic property in a manner that will not threaten or destroy the historic significance of the building or facility, alternative methods of access shall be provided pursuant to the requirements of ADA § 35.151(b)(ii)





Universal Design

"Universal design is the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design."



Ron Mace, FAIA

The Center for Universal Design

NC State University



Principles of Universal Design

- 1. Equitable Use
- 2. Flexibility in Use
- 3. Simple, Intuitive Use
- 4. Perceptible Information
- 5. Tolerance for Error
- 6. Low Physical Effort
- 7. Size and Space for Approach & Use





Universal Design

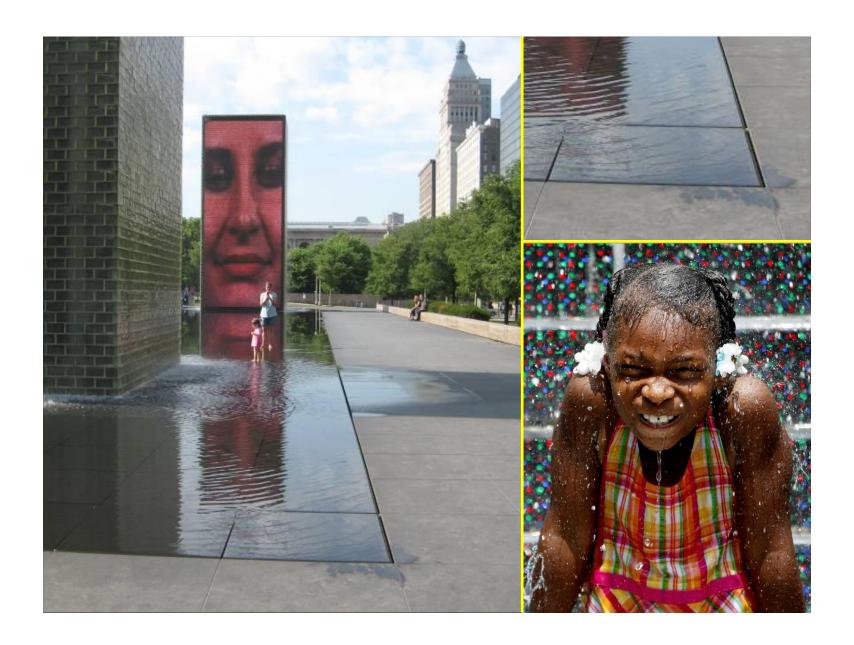


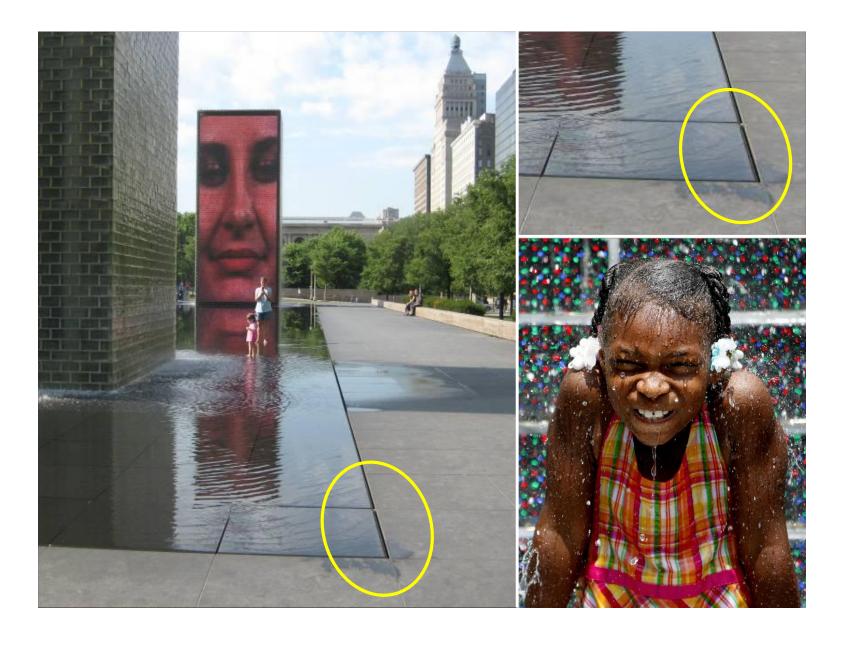






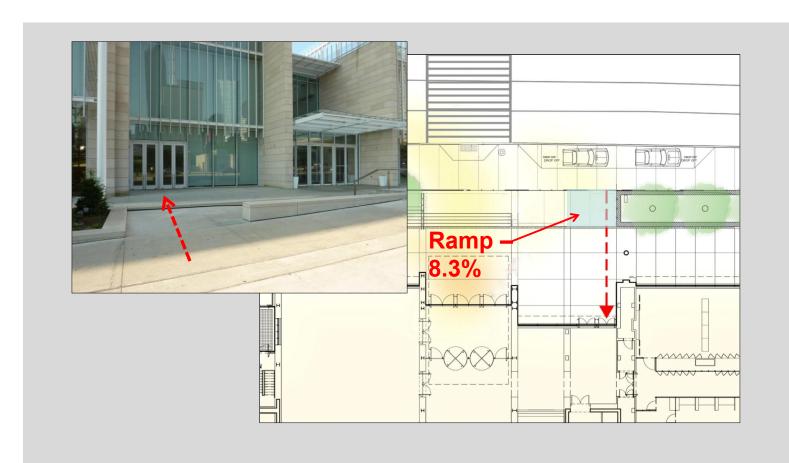




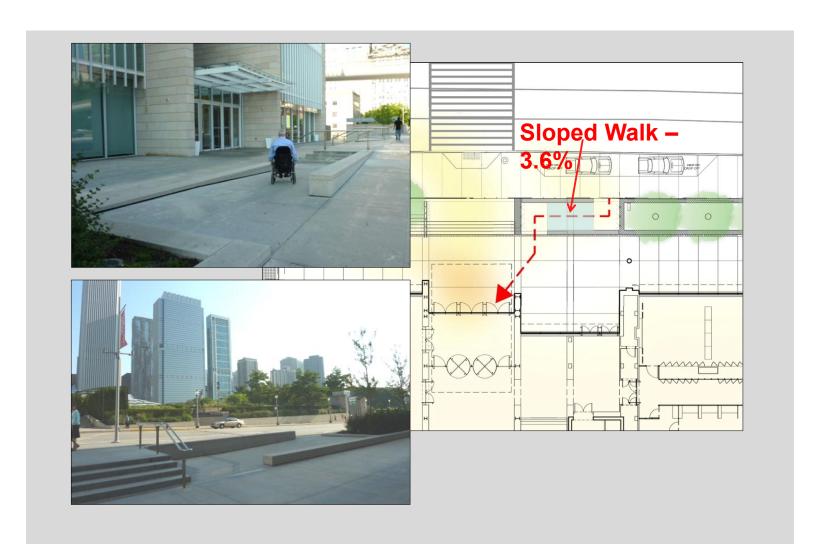








The Chicago Art Institute - Modern Wing



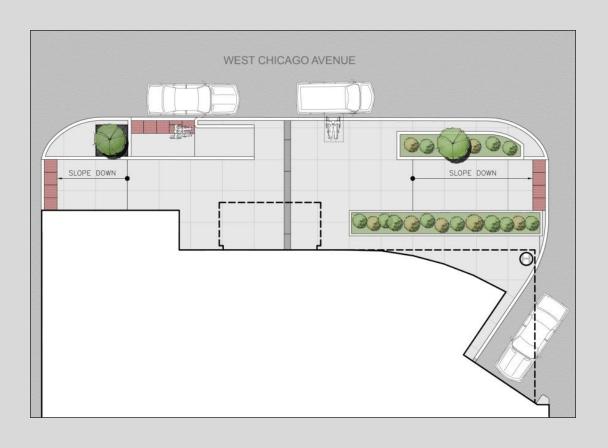
The Chicago Art Institute - Modern Wing

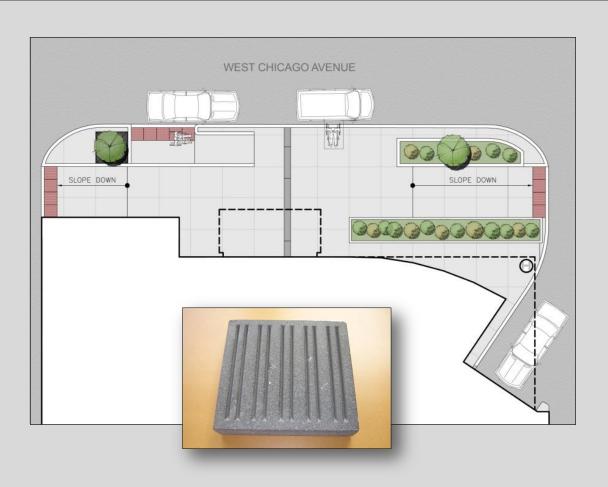


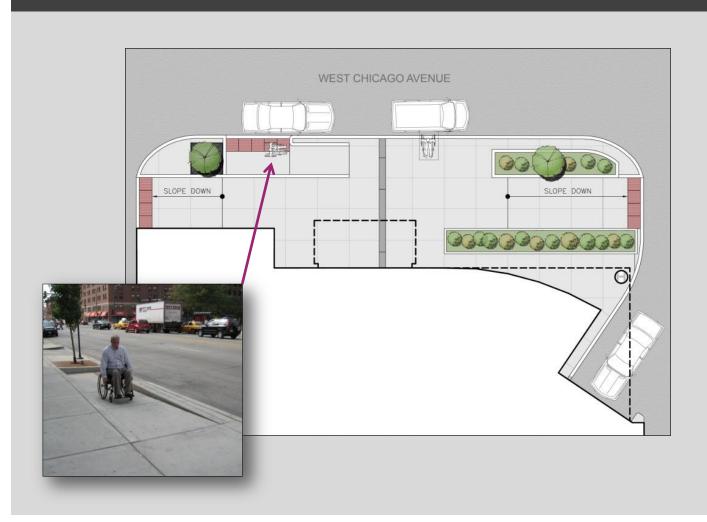
Access Living

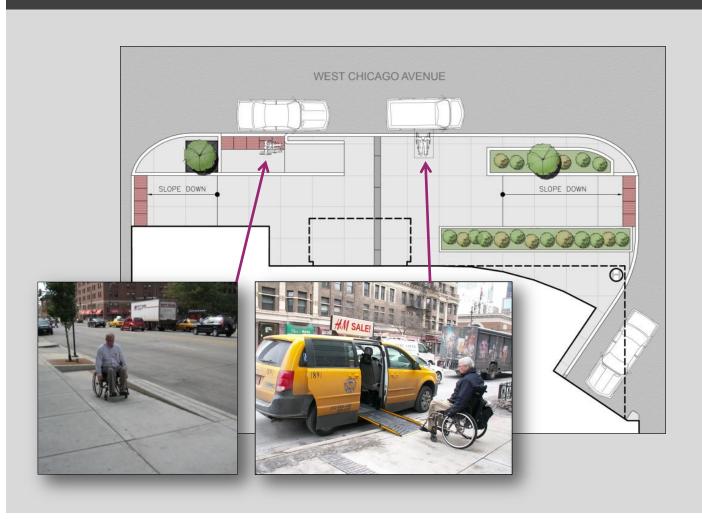
115 West Chicago Ave, Chicago, IL







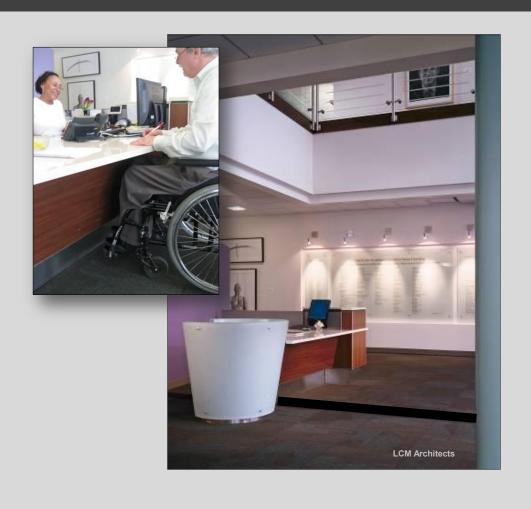




Access Living - Reception



Access Living - Reception



Access Living – Work Stations





Access Living – Work Stations





Universal Design Resources

United States Access Board

www.access-board.gov



http://idea.ap.buffalo.edu/Home/index.asp

The Institute for Human Centered Design

www.adaptenv.org

Center for Universal Design

www.design.ncsu.edu/cud











GREATER > TOGETHER

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