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IDA VisitAbility

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Jonathan White, M.Arch. PRIGHT 2014 IDEA CENTER

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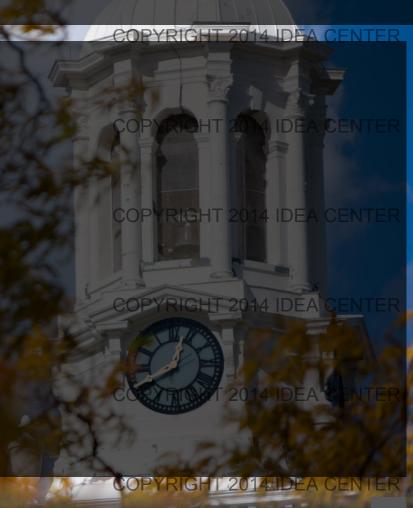
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June 16, 2014 Webinar

Hosted by the Canadian Centre on Disability Studies

Today's Presentation

Housing Issues VisitAbility Basics Cost Design Strategies **Best Practices**



Changing Demographics

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Number of Canadians aged 65+: 14.1% in 2010, Projected 20% by 2026, Over 25% by 2056

Disability rates rise with age for both sexes

Disability is usually related to mobility and agility

Activity-limiting disabilities:

14.3% Canadians

43.4% Canadians aged 65+ (1/3 of all due to mobility)

Housing Barriers

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Over 1 million homes have resident with a disability with unmet housing needs

(Kochera, 2002)

25% of houses built today will have a resident with a severe long-term mobility impairment, 97% will have such a person visit the home (Smith, Rayer, and Smith, 2008)

Typical life of a new home is 75-100 years

70% of Americans live in single-family homes

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Housing Accessibility in the U.S.

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Government Funded: 5% Rule

5% of Multi- and Single- Family Housing must be Fully Accessible (usually ANSI Type A). Some localities extend to larger percentage

Privately Funded Multi-family: Fair Housing Law

All units in housing with 4+ units must meet ANSI Type B if elevator, first floor units if not

Privately Funded Single-Family: None

Unless local government requires VisitAbility (ANSI Type C) or other requirements

The High Cost of No Access

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Social isolation

Premature institutionalization

Compromised health and safety - Falls

Stress

What is VisitAbility?

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- 1.) Accessible Entry
 - One Zero-Step Entry with Low Threshold (Under ¼ inch)
- 2.) Accessible Path through Entry Floor
 - 32-inch C.O. Door, 36-inch Hallways, Switches & Outlets 15-48 in. A.F.F.
- 3.) Accessible/Adaptable Half-Bath on Entry Floor
 - Accessible Door, Sink, Toilet, Blocking in Walls at Toilet

Perspectives

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	Homebuilders'	Advocates'
Demand	We respond to market and don't see demand.	Builders shape market. Consumers Relack awareness to demand.
Cost	It's expensive, which makes it unaffordable.	No impact on marketability or aesthetics, cost impact is under 1%.
Regulation	Private homes are a private matter. VisitAbility should be voluntary.	Homes are not entirely private. There is public interest in private housing (e.g. smoke detectors).
Variables	Unique sites prevent blanket regulations.	All existing and proposed regulations have exceptions for unique sites.

The Cost of Basic Access

	New	Retrofit COPYRIGHT 2014 IDEA CENTER	
Zero-Step Entrance	\$150	\$1,000	
Widen Interior Doors	\$50	\$700	
Total Cost	\$200	\$1,700	

Sources: Concrete Change and IDeA Center: Based on experience of 3 Habitat for Humanity chapters, the City of Austin, and discussions with contractors

The Cost of Basic Access

City	In Stock?	32" Cost	34" Cost	36" Cost			
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Boston, MA	Yes	\$70.45	\$72.95	\$72.95			
Chicago, IL	Yes	\$58.46	\$59.98 _{COPYRIG}	\$63.36 THE TOTAL DEA CENTER			
San Diego, CA	Yes	\$73.13	\$74.29	\$76.50			
Portland, OR	Yes	\$68.83	\$69.93 _{COPYRIG}	\$72.53 _{DEA CENTER}			
Dallas, TX	Yes	\$56.63	\$56.89	\$59.35			

Method: IDeA Center simulation of order for 120 single pre-hung, six-panel hollow core doors with dull brass hinges from local millwork suppliers, 30 each in four different sizes.

The Cost of Basic Access

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Schroeder, Steinfeld, et al. (1979) The Cost of Accessibility, HUD

Cost of access was less than 1% of new construction in all types of buildings

Steven Winter Associates (1993)
The Cost of Accessible Housing, HUD

Total cost of access features was .07% - .87% with an average of .63% of new construction

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Design Strategies

Design Strategies

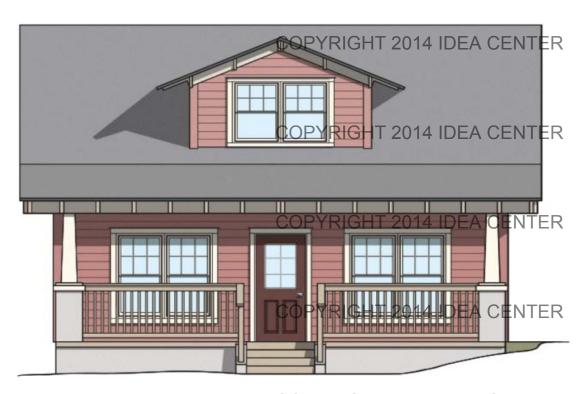
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Single Family Detached House | American Craftsman Bungalow

1370 sf habitable interior space 910 sf building footprint 3 bedroom, 2 bath

Visitable

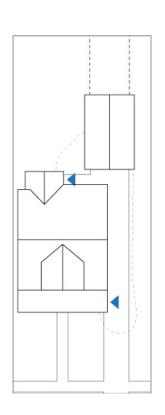
Lifespan

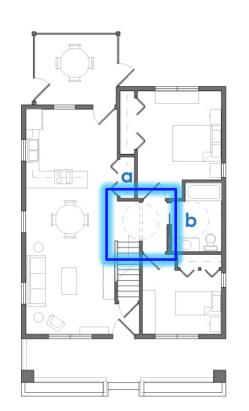


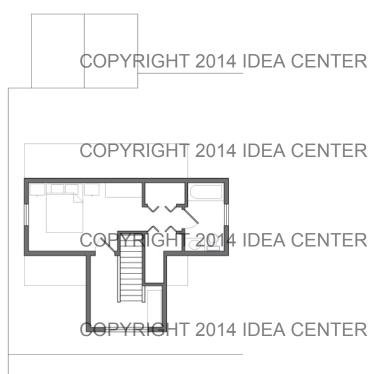


Efficient Circulation Plan

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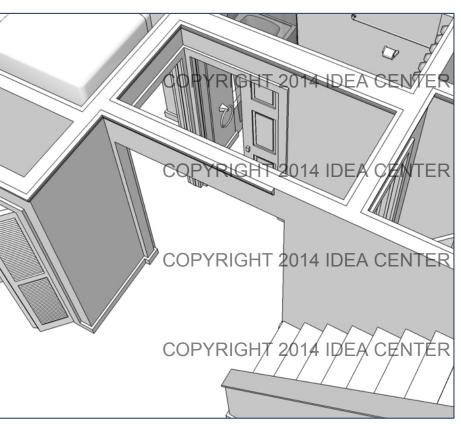




Efficient Circulation Plan

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Bathroom Design

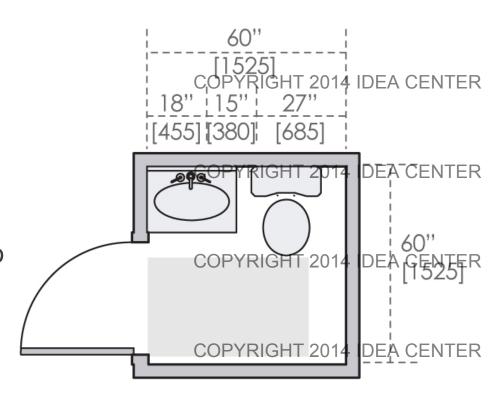




VisitAble Half-Bath

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Satisfies VisitAbility requirements
Minimal space necessary
Toilet dimension is critical
Door must open outward
Special hardware may be needed to
close door once inside





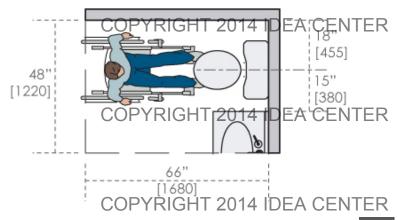
VisitAble Toilets

Parallel Approach (top) occupies least amount of space but means greater transfer distance

Forward Approach (bottom) requires standing and completing a 180degree turn

COPYRIGHT 2014 IDEA CENTER 18" [455] 48" [1220] [380] COPYRIGHT 2014 IDEA CENTER

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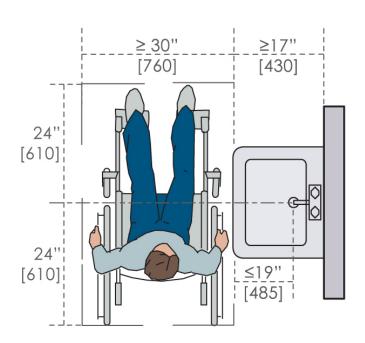




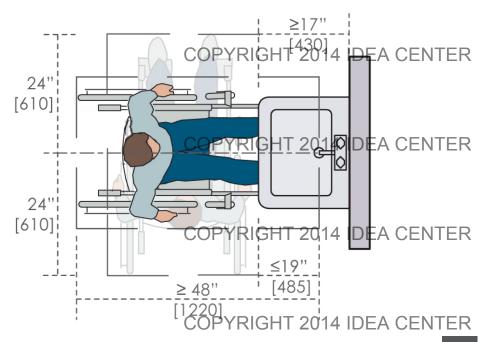
VisitAble vs. Lifespan Lavatory

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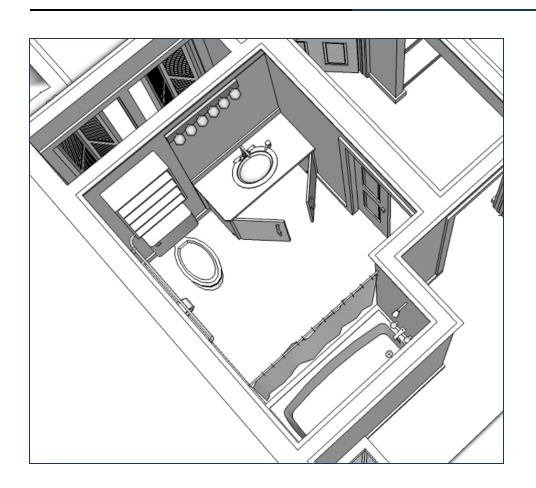
Visitable

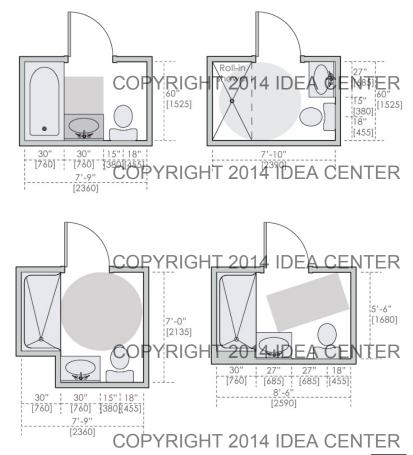


Lifespan



Bathrooms





Zero-Step Entries

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Place on leeward side

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Use covered porch or patio

Work with existing grade or design grade to minimize height

Use grates and slight pitch (1:48 max) to take water away from landings

Use alternative construction methods to lower first floor level (e.g. reverse brick ledge)

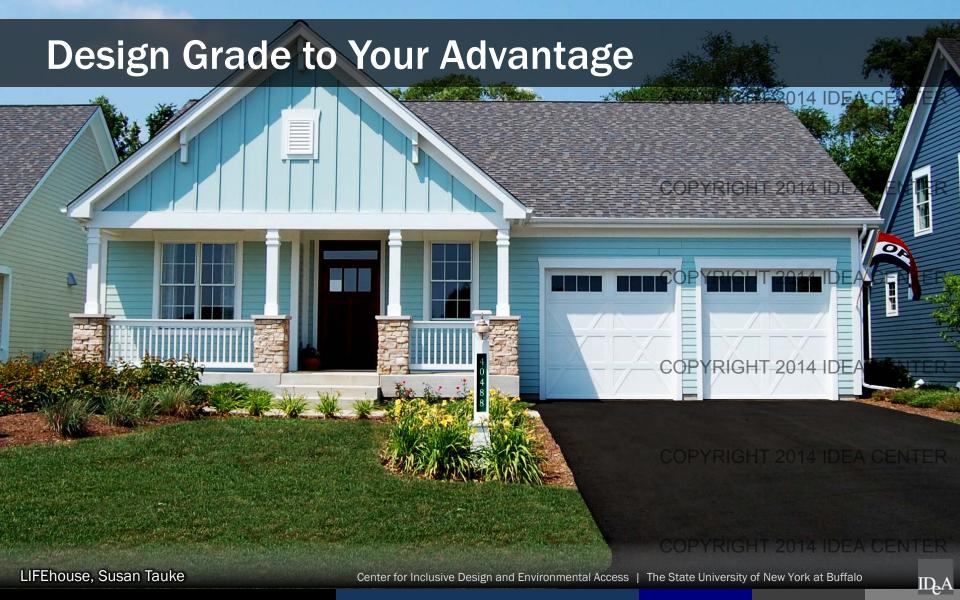
Lot Planning

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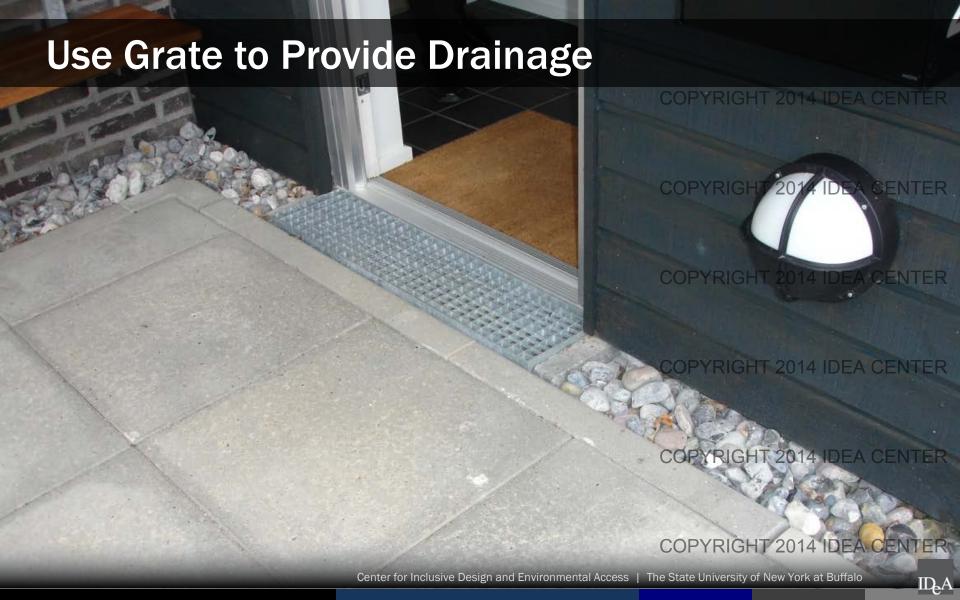
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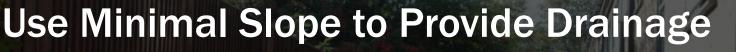


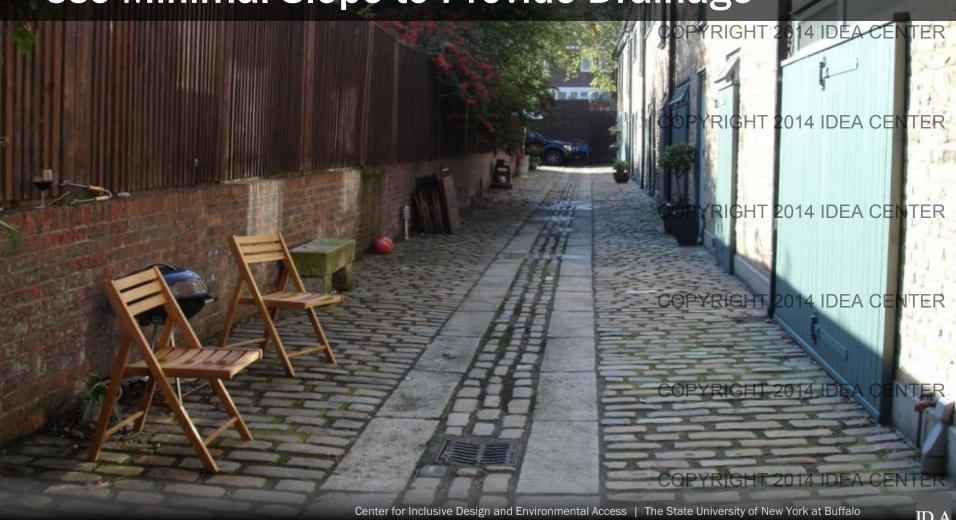








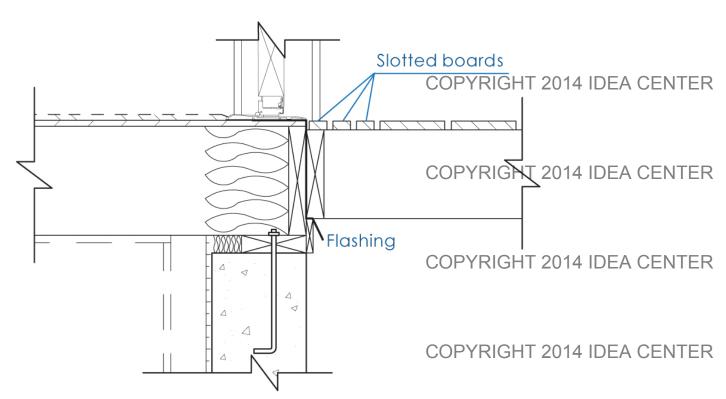




Place Entry on Porch or Deck COPYRIGHT 2014 IDEA CENTER 2014 IDEA CENTER LIFEhouse, Susan Tauke Center for Inclusive Design and Environmental Access The State University of New York at Buffalo

Place Entry on Porch or Deck

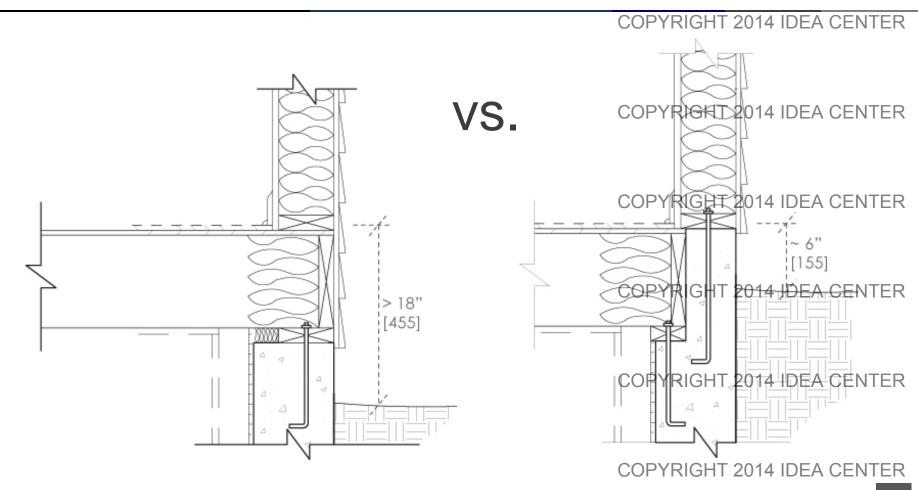
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Low-threshold door to porch or deck COPYRIGHT 2014 IDEA CENTER



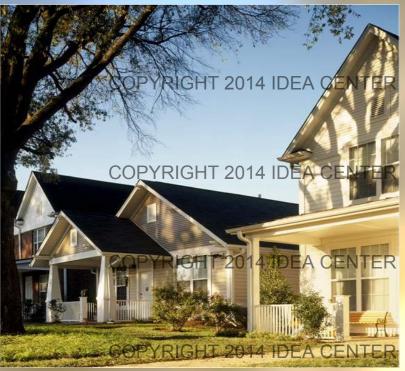
Alternative Construction Methods



Affordable Housing - Best Practices









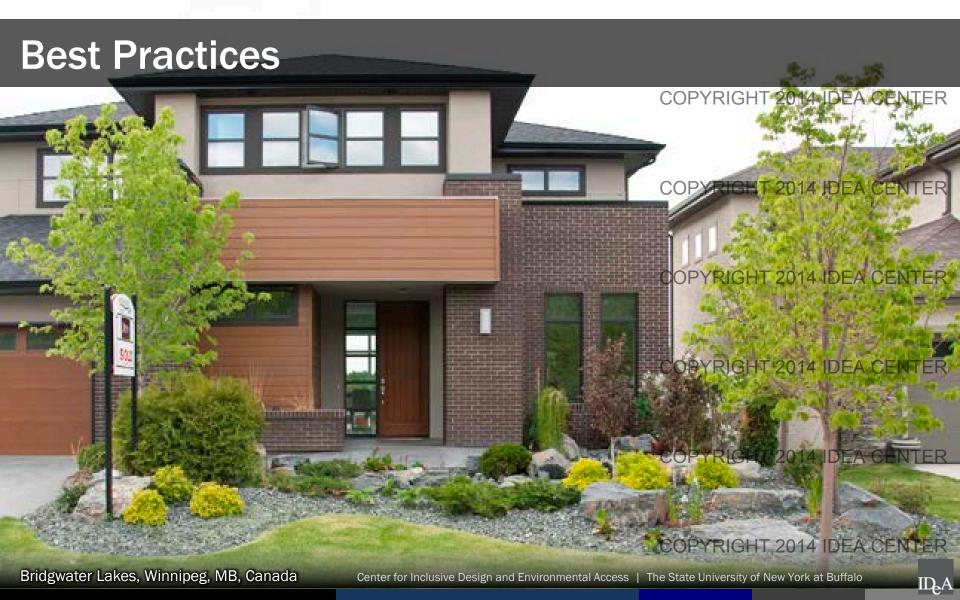


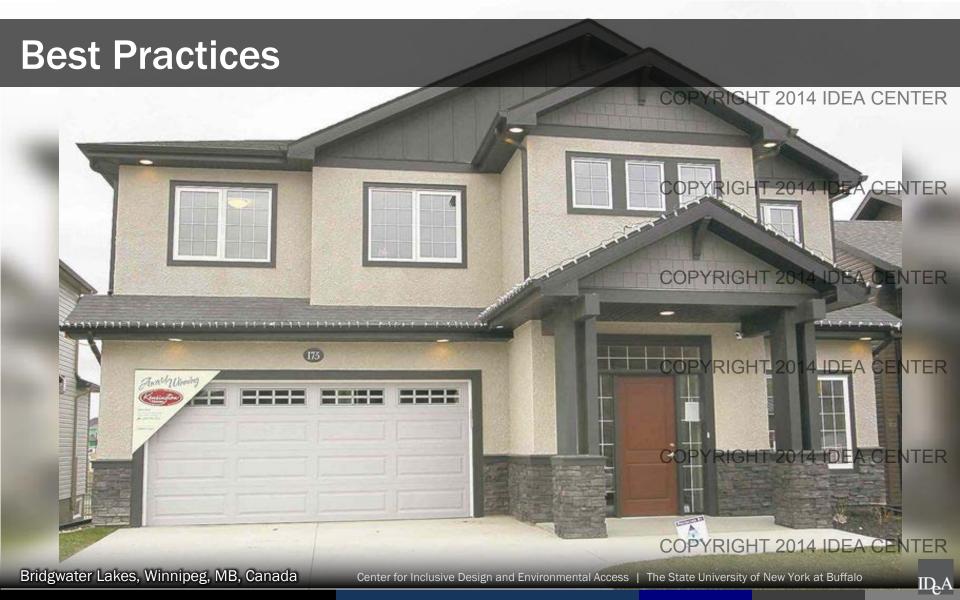
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Best Practices

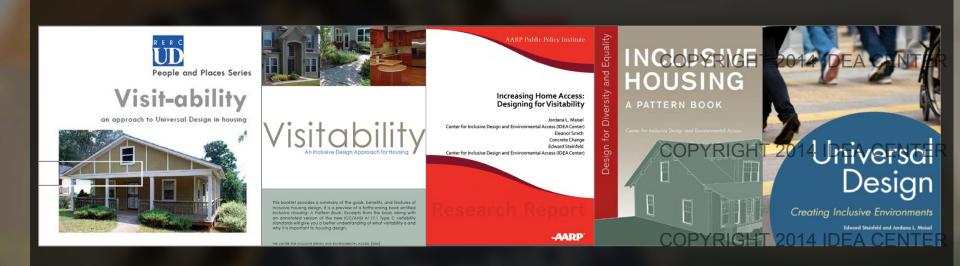






Publications

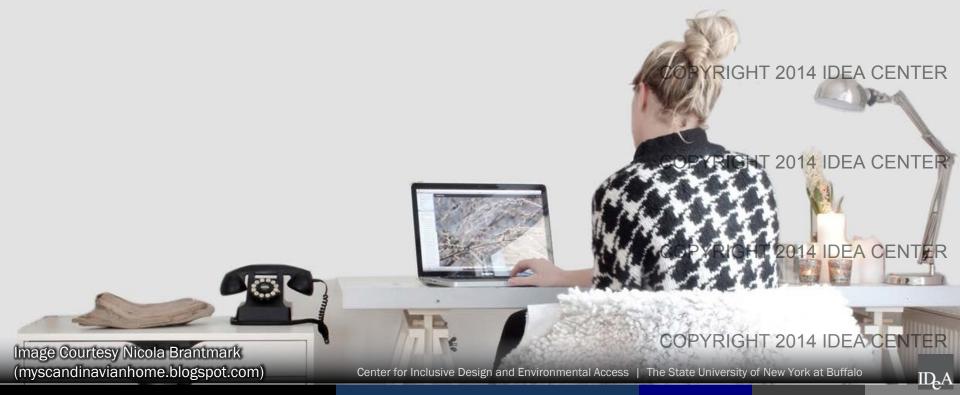
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VisitAbility Project Visitable Housing

Provincial Resources

What's New



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What's New

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