Accessibility Issues in Parks & Recreation Settings

2010 ADA Standards
NC Parks & Recreation Directors’ Conference
Sheraton Imperial Hotel and Conference Center

Prepared by:
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We’ve moved! Eff. 10/1/2016

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Will move again in March 2017

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Let’s Talk About ............. codes

- Upcoming
- Current State and Federal codes
  - New construction
  - Alterations
  - Federal land/property
- Specifics

- Reservable Facilities
- Wedding Sites
- Recreation Centers
- Nature Centers
- Community Gardens
- Event Facilities
- Fitness Centers
- Historical Sites
- Playgrounds
- SkateParks
- Aquatics Facilities
- Spraygrounds
- Unique Facilities
- Camping Facilities
- Bike Paths
2018 NC Code (6-Yr Cycle)

BCC currently adopting:

**SCOPING DOCUMENT**
- 2018 NCBC
  - Based on 2015 IBC

‘HOW TO’ STANDARD
- 2009 ANSI A117.1

Text available on NCDOI’s Code (Current and Past) page

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**2018 NC/ICC 2015 NC State Building Codes**

The Base Documents for the 2018 NC Codes are the 2015 International Codes. The 2018 NC Ad-Hoc Committee amendments below are replacements to the Sections printed in the Base Documents. The 2015 International Codes are available at www.iccsafe.org for purchase or at http://codes.iccsafe.org/I-Codes.html#2015 for public access. A printed copy is available for review only at the following location.

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Presented by L.W. Wright
State and Federal Requirements
NEW CONSTRUCTION

**FEDERAL**
- 2010 ADA Standards
  [www.ada.gov](http://www.ada.gov)

**STATE**
- 2012 NC Building Code
- 2009 ANSI A117.1
  [www.icc safe.org](http://www.icc safe.org)

- NCBC 1104.2
- NCBC 1109.14.3
- ANSI Ch. 11 RECREATIONAL FACILITIES

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State and Federal Requirements

ALTERATIONS

- When alterations are done, use either -
  - 2015 NC Existing Building Code
  - 2012 NC Rehabilitation Code


The 2015 NC Existing Building Code has been adopted by the BCC and approved by the RRC with a March 1, 2015 effective date. The 1995 NC Existing Building Code will expire on March 1, 2015. The NC Rehabilitation Code will remain effective until March 1, 2018 (3-year overlap).

- 2015 NC Amendments to the 2012 IEBC – Effective March 1, 2015
- 2015 NC Existing Building Code – NC Amendments Only with Commentary

REMEMBER to look at the COMMENTARY [online]
Construction Summary

- **New Construction**
  - Use 2012 NCBC Ch. 11 + 2009 ANSI A117.1

- **Alterations**
  - Use 2015 NCEBC + 2009 ANSI A117.1
  - Use 2012 NC Rehabilitation Code + 2009 ANSI A117.1
    - Page 10 refers you back to NC Building Code
    - 2012 NCBC Ch. 34 deletion → 2015 NCEBC

- **Camping Facilities, Picnic Facilities, Viewing Areas, Trailhead Signage, Trails, Beach Access Routes**
  - OAG – on federal lands
  - OAG – as *Alternate Method* on non-federal
Typical Scope of Work

- Accessible route on site
  - NCBC 1104.1 – Off/On-site route
  - NCBC 1104.5 – Location same as gen.circulation
  - NCBC 1105.1 – Entrances

- Accessible route to area of sport activity
  - NCBC 1104.2 – On-site route between locations

- Facilities
  - NCBC 1109.14.3 Reqmts.
  - NCBC 1109.14.4 Exceptions

- Supporting facilities include
  - NCBC 1109 - Restrooms

- Egress from the site
  - NCBC 1007.2 – Level of exit discharge
Projects on Federal Property
NEW CONSTRUCTION AND ALTERATIONS

- Outdoor Area Guidelines
  - Available on US Access Board’s website
  - Use as an **Alternate Method** on non-federal property, under NC Admin Code 105.1
    - Trails
    - Picnic Facilities
    - Camping areas
    - Viewing areas
    - Beach access

**Effective Date - ABA**

**November 25, 2013**

- Newly constructed or altered trails, picnic & camping facilities, viewing areas, and beach access routes

2/9/17
Presented by L.W. Wright
## Technical Requirements

### Trail Technical Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Running Slope</td>
<td>1:20 (5%) – 1:12 (8.33%) 1:12 (8.33%) - 1:10 (10%) 1:10 (10%) – 1:8 (12%) Resting intervals required</td>
</tr>
<tr>
<td>Cross Slope</td>
<td>Concrete, Asphalt, and Boards – 2% Other surfaces – 5% for drainage</td>
</tr>
<tr>
<td>Minimum Width</td>
<td>36 inches</td>
</tr>
<tr>
<td>Tread Obstacles</td>
<td>2 inches Maximum</td>
</tr>
<tr>
<td>Surface</td>
<td>Firm and Stable</td>
</tr>
<tr>
<td>Openings</td>
<td>½ Maximum</td>
</tr>
<tr>
<td>Protruding Objects</td>
<td>27-80 inch height = 4 inch max</td>
</tr>
</tbody>
</table>

**48” in NC**

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Conditional exceptions

- Compliance is not practicable due to terrain
- Compliance cannot be accomplished with the prevailing construction practices
- Compliance would fundamentally alter the function or purpose of the facility or the setting
- Compliance is precluded by the:
  - Endangered Species Act, National Environmental Policy Act, National Historic Preservation Act, Wilderness Act; or Other Federal, State, or local laws
Trail Surface Materials

From US Access Board’s
- Natural Trail Surfaces Study; Final Report, March 25, 2014

Acceptable surface materials
1. Concrete
2. Asphalt
3. ¾” minus limestone
4. Sta-lok
5. Stabilizer

Bottom 3 for areas with permeability issues
Specific Requirements

- **ANSI 1101.2.2 Area of Sport Activity.** Areas of sport activity shall be served by an accessible route and shall not be required to be accessible except as provided in Chapter 11.
  - 1102 Amusement Rides
  - 1103 Recreational Boating Facilities
  - 1104 Exercise Machines and Equipment
  - 1105 Fishing Piers and Platforms
  - 1106 Golf Facilities
  - 1107 Miniature Golf Facilities
  - 1108 Play Areas
  - 1109 Swimming Pools, Hot Tubs and Spas
  - 1110 Shooting Facilities with Firing Positions
US Access Board Guidelines

- Amusement Rides
- Recreational Boating Facilities
- Exercise Machines and Equipment
- Fishing Piers and Platforms
- Golf Facilities
- Miniature Golf Facilities
- Play Areas
- Swimming Pools, Wading Pools, and Spas
- Shooting Facilities with Firing Positions

Located in SPORTS FACILITIES

2/9/17

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Amusement Rides

- Accessibility Guidelines for Recreation Facilities
- Amusement Rides
  - Exceptions (4 types not covered)
  - Unique Attractions
  - Accessible Rides
  - Accessible Routes
  - Signage
  - Amusement Rides with Wheelchair Spaces
  - Amusement Ride Seats Designed for Transfer
  - Transfer Devices for Use with an Amusement Ride
  - Wheelchair Storage Space
  - More Information

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Boating Facilities

- Accessibility Guidelines for Recreation Facilities
- Boating Facilities
  - Accessible Routes
  - Boat Slips
  - Dispersions
  - Accessible Boat Slips
  - Boarding Piers at Boat Launch Ramps
  - Launch Ramps Without Boarding Piers
- For More Information
Fishing Piers and Platforms

- Accessibility Guidelines for Recreation Facilities
- Boating Facilities
  - Accessible Routes
  - Gangways
  - Railings
  - Clear Floor or Ground Space
  - Turning Space
- For More Information

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Golf Facilities

Accessibility Guidelines for Recreation Facilities

Golf Courses

- Accessible Routes
- Alternate Golf Car Passage
- Course Barriers
- Teeing Grounds
- Putting Greens
- Weather Shelters
- Driving Ranges
- Single Rides Adaptive Golf Cars
- Temporary Facilities
- For More Information

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Miniature Golf Facilities

- Accessibility Guidelines for Recreation Facilities
- Miniature Golf Course
  - Accessible Holes
  - Accessible Routes
  - Start of Play Area
  - More Information
Play Areas

- Where do the Play Area Guidelines Apply?
- What is a Play Component?
- How Many Play Components Must be on an Accessible Route?
- Step-by-Step Guide
- Play Area Example
- What are the Requirements for Accessible Routes?
- What Other Accessibility Requirements Apply to Play Components?
- Soft Contained Play Structures
- Alterations
Step-by-Step Guide on applying guidelines (on pg 17)

Proposed Play Area Design

1. Assess what is present
   - Ground Components
   - Play Types

2. Determine what is needed
   - Ground Components
   - PLAY TYPES

3. Compare which is greater
   - Ground
   - Play Types

4. Assess how to get there
   - Elevated Components

20 or More
- Ramps Min 25%
- Ramps -or- Transfer System 25%
- Elevated Accessible Routes Must Connect at Least 50%

19 or Less
- Transfer System Permitted to Connect
Playground Surfaces

7 Things Every Playground Owner Should Know About the Accessibility of Their Playgrounds

- Start with Comprehensive Planning
- Follow Accessibility Standards
- Review Research to Learn about Accessible Surfaces
  - Comparison of
    - Poured-In-Place Rubber (PIP)
    - Tiles (TIL)
    - Engineered Wood Fiber (EWF)
    - Hybrid Surface Systems (HYB)

- Assess during Planning, Installation + Maintenance Phases
- Comparing Surface Options can Assist Team in Selection
- Proper Installation is Key for Long Term Use + Maintenance
- Commitment to Ongoing Care + Maintenance
Playground Surfaces

- 7 Things Every Playground Owner Should Know About the Accessibility of Their Playgrounds

- ANSI 1108
  - Accessible Routes within Play Areas
  - 1108.4.1.6 Ground Surfaces
    - Condition – stable, firm, slip-resistant
    - Within Use Zones – comply with ASTM F 1292
      - Sections 105.2.8 or 105.2.9

- USE ZONE definition:
  The ground level beneath and immediately adjacent to a play structure or play equipment that is designed to ASTM F 1487, listed in Section 105.2.10, for unrestricted circulation around the play equipment and where it is predicted that a user would land when falling from or exiting the play equipment.
Sports Facilities

- Accessible Routes
- Dressing, Fitting or Locker Rooms
- Lockers
- Benches
- Team Player Seating Areas
- Saunas and Steam Rooms
- Exercise Machines and Equipment
- Shooting Facilities
- Bowling Lanes
- More Information
Accessibility Guidelines for Recreation Facilities

Swimming Pools and Spas

Accessibility Routes
Types of Facilities and Required Means of Entry into Water
Types of Accessible Means of Entry into the Water
Pool Lifts
Sloped Entries
Transfer Walls
Transfer Systems
Accessible Pool Stairs
Water Plan Components
Other Accessible Elements
More Information

NOTE: DHHS may have more restrictive requirements.
Q & A - Miscellaneous

Complaints

- Eagle scout projects
- Lack of w/c storage at boat launching piers
- Inaccessible viewing platforms
- Lack of access to trails

Questions

- Osprey towers
- Birding platforms
- Kayak launching piers
Questions

For further questions:

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- E-MAIL Laurel.Wright@ncdoi.gov

On the e-mail, please include:

- name
- firm
- phone number
- project name/location

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