

Trail Guidelines, Recommendations and Status Session Objectives:

- Identify Who are Our Users
- Identify a Brief History of Trail Accessibility and Rule Making
- Identify When and Where These Rules (Guidelines) Apply
- Identify What is Routine Maintenance and What can be Done to Improve Accessibility

Trail Guidelines, Recommendations and Status Session Objectives:

- Review Proposed Critical Components of "Report on Outdoor Developed Areas - Trails"
- Review Proposed Guidelines Points of Departure and Exceptions
- Review Critical Components of USDA Forest Service Trail Accessibility Guidelines

Who are we Designing and Constructing These Trails for ?









Base line Statistics For Potential Hikers With Disabilities

- There are over 30 million people with a disability in the US
- There are over 35 million people over the age of 65 in the US
- 45% of those people have a disability
- 31% of the people in the US (93 million) are obese
- There are 16 million children under 4 years old

History Of Accessible Trails



After two Unsuccessful Attempts the Regulatory Negotiating Committee on Accessibility Guidelines for Outdoor Developed Areas was Formed "REGNEG"

- In 1999 this committee produced its proposed guidelines
- The US Access Board prepared a notice of rule making (social and economic impacts)
- Report was recently subjected to public review & comment under the Architectural Barriers Act "Federal Agencies Only"
- After comment period a final rule will be sent to the Office of Budget and Management for their approval

- Once approved it will be published in the Federal Register
- The rule will be sent to the General Services
 Administration and the Department of Defense for their
 adoption
- Once the ABA rule making process is completed the Access Board will submit the proposed rule for public comment under the American Disabilities Act (ADA)
- The same process if followed except that once it is approved by the Office of Budgets and Management it is sent to the Department of Justice to become Federal Law
- State and Local Governments then adopt the federal standards or develop their own as long as they are equal to or greater than the federal standards

The REGNEG Committee Operated Under the Following Guidelines

- Protect resource and environment
- Preserve experience
- Provide for equality of opportunity
- Maximize accessibility
- Be reasonable
- Address safety
- Be clear, simple and understandable

The REGNEG Committee Operated Under the Following Guidelines

- Provide guidance
- Be enforceable and measurable
- Be consistent with the Americans With Disabilities Act (as much as possible)
- Be based on independent use by persons with disabilities

Until the REGNEG
Guidelines
Become Law They
Represent the
"Best Available
Information" on
Accessible Trail
Design. USFS has
Developed their
own Guidelines
"Policy"



Outdoor Access Guidelines and Trails

- How Do These Guidelines Apply?
- As a Park Manager What Do We Need to Know and Do?

These guidelines apply only to pedestrian trails. Trails designated specifically for either equestrian, mountain bike or off highway vehicle use are exempt from the guidelines.

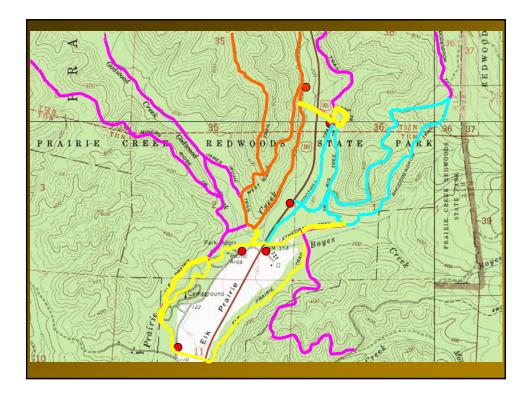






These guidelines only apply to pedestrian trails that are connected to a trailhead or an accessible trail. Trails not connected to either or these facilities are exempt from the guidelines.





Maintenance

- Guidance is Provided on Maintenance Activities
- Maintenance would be exempt when:
- Work is Performed to Return a Trail
 Segment Back to the Original Design
 Standard

Brushing, Trail Clearing, Down Trees and Rock fall Removal





Repairs of Bridges and Turnpikes

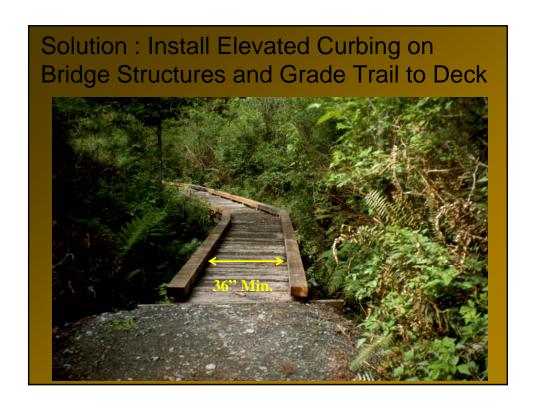


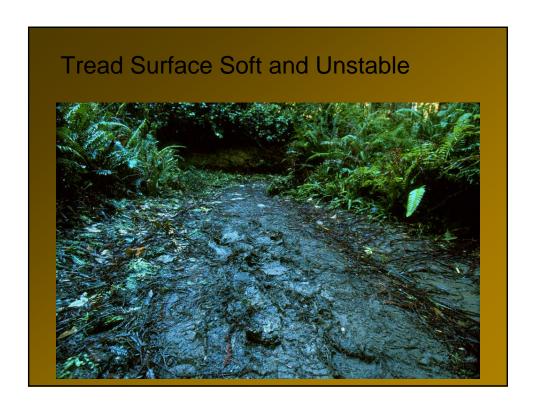


Maintenance

- There is Access Improvement Opportunity During Maintenance Procedures
- Every Time a Trail Receives
 Maintenance, We Can Improve
 Access

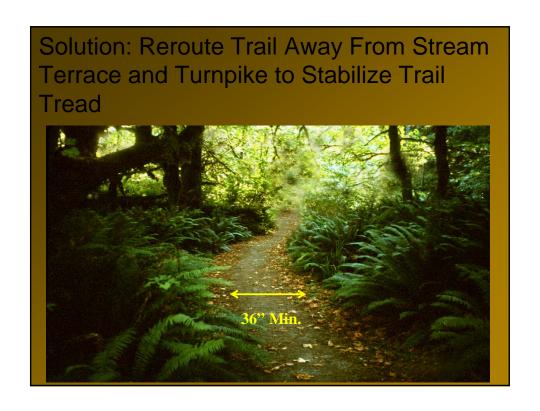












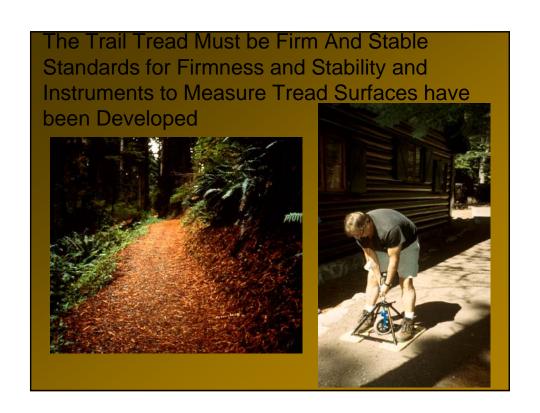




Technical Provisions(Guidelines)





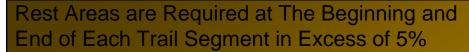


Grade or Running Slope

Shall be:

- 5% (1:20) or less for any distance
- 8.3% (1:12) max up to 200 ft
- 10% (1:10) max up to 30 ft
- 12% (1:8) max up to 10 ft



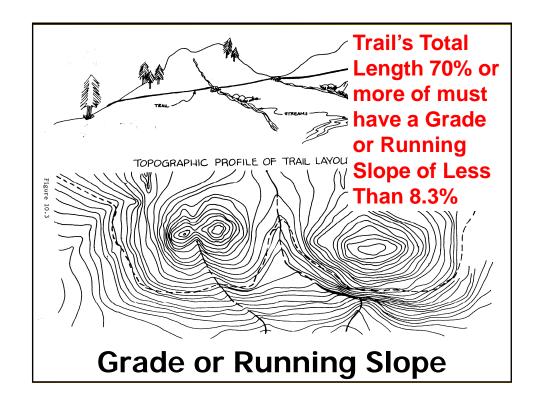


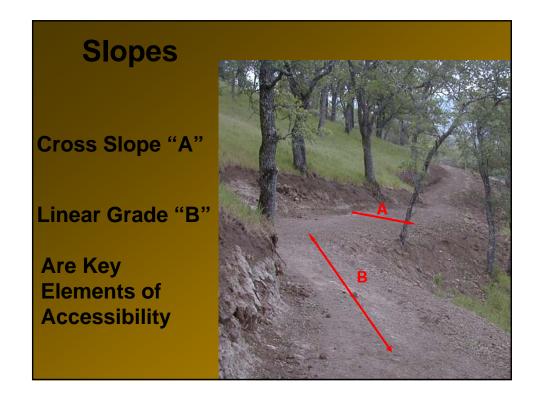


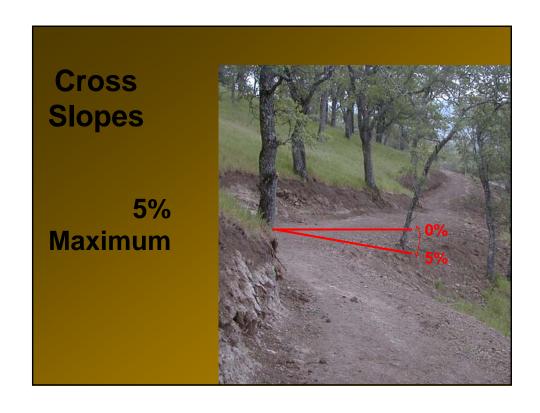
8.33 % for max. 200'

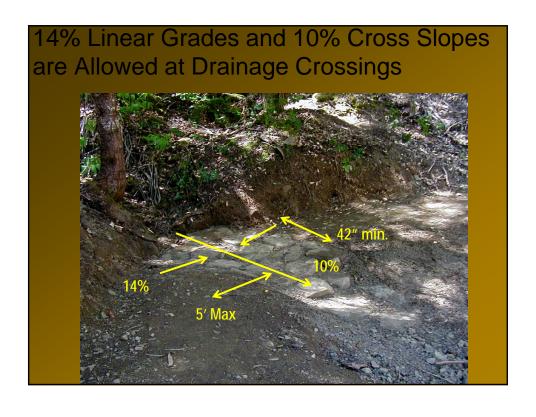
Rest area 5' length min. with max. 5% grade & cross slope. Width is as wide as widest portion of trail segment

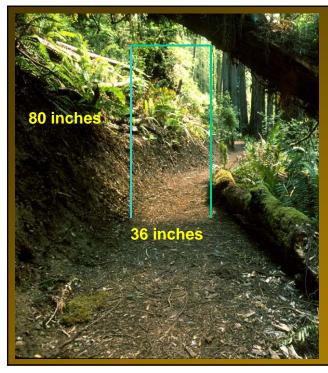












The Area
Over the
Trail Tread
Must be
Clear of
Protruding
Objects to a
Height of
80"



Tread
Obstacles

Standard 2" Max Height

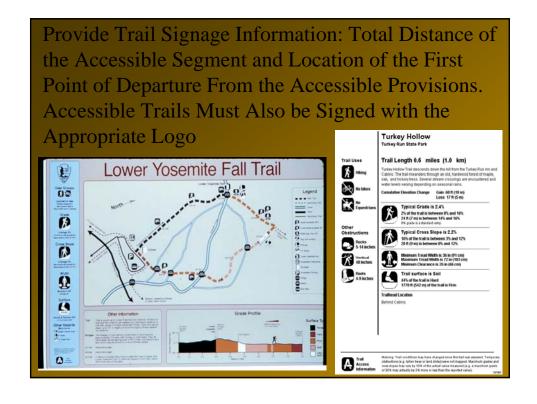


Tread obstacles Exceptions:

3" max height up to a maximum slope in any direction of 5%









Conditions for Departure

- There are Four Conditions That When Present Can Act as Exemptions to the Technical Provisions (Guidelines)
- If Any of the Four Conditions for Departure
 Constitute over 15% of the Trails Length, Then
 the Trail Does Not have to Comply with the
 Technical Provisions (Guidelines) After the First
 Point of Departure.

Conditions for Departure

- If the Segment Between the First Point of Departure and the Trailhead is less Than 500 Feet, Then the Technical Provisions do not Apply
- However, If There is a Prominent Feature Less Than 500 Feet From the Trailhead, the Trail Segment Between the Feature and the Trailhead Shall Comply With the Technical Provisions

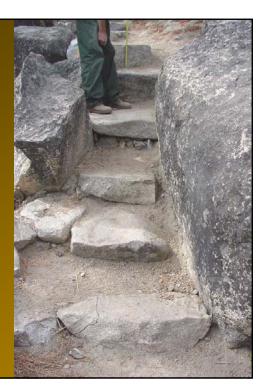
Conditions for Departure

- 1. Where Compliance Could Cause Substantial Harm
 - To Cultural, Historic, Religious, or Significant Natural Features or Characteristics

Where

Compliance
Could Cause
Harm to a
Natural or
Cultural
Feature

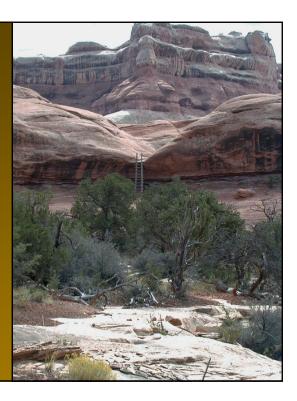
Such as a Historic Steps

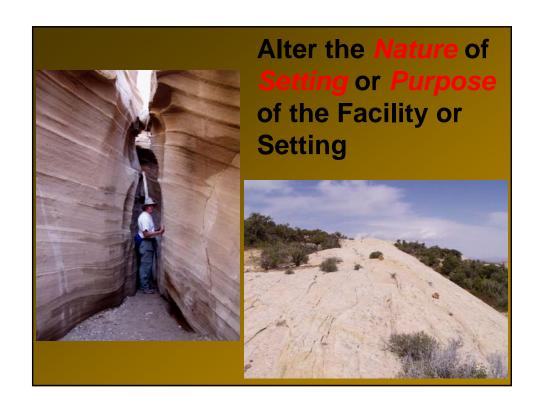


Conditions for Departure

2. Where Compliance Would Alter the Nature of Setting or Purpose of the Facility or Setting

Alter the
Nature of
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Setting

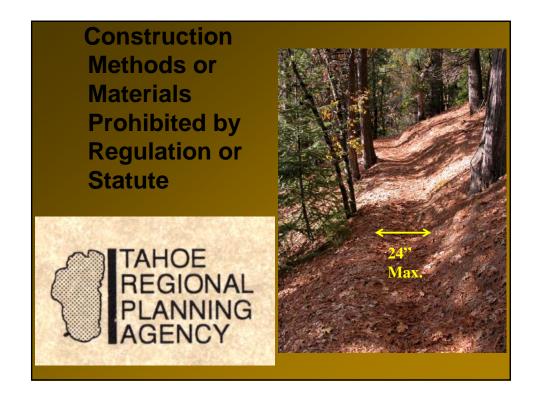




Conditions for Departure

3. Where Compliance Would Require Construction Methods or Materials Prohibited by Regulation or Statute





Conditions for Departure

4. Where Compliance Would Not be Feasible Due to Terrain or Prevailing Construction Practices





Exceptions to Technical Provisions

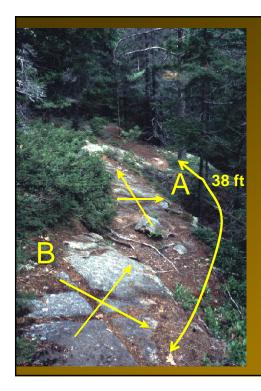
- In addition to the Conditions for Departures, REGNEG Recognized that Where Certain Physical Conditions Existed it Would be Impractical to Require That the Accessibility Guidelines be Met
- There are Four Exceptions That When Present Can Act as Exemptions to the Technical Provisions (Guidelines)
- When a Combination of One or More of the Conditions for Departure Exist and One or More of the Exemptions Exist, the Guidelines will not Apply Beyond the First Point of Departure

Exceptions to Technical Provisions

- If the Segment Between the First Point of Departure and the Trailhead is less Than 500 Feet Then the Technical Provisions do not Apply
- However, If There is a Prominent Feature Less Than 500 Feet From the Trailhead, the Trail Segment Between the Feature and the Trailhead Shall Comply With the Technical Provisions

Conditions:

1. Cross Slope and Grade Combined, Exceed a Total of 40% for More than 20'



Section A

Cross Slope - 18% Running Slope - 23%

Section B

Cross Slope - 23% Running Slope - 21%

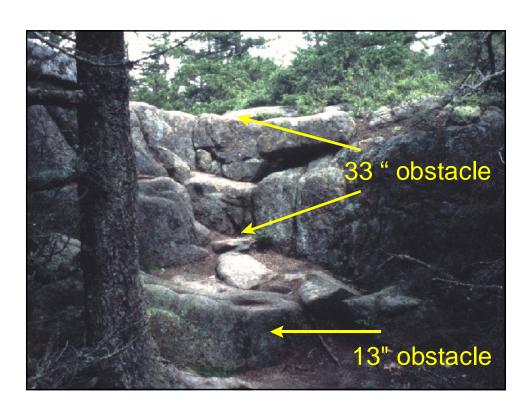
Combined slopes

Section A-41% Section B-44%

Tread length: 38 ft

Conditions:

2. Tread Obstacle 30" High or More Across Full Tread Way



Conditions:

3. Tread Surface Not Firm and Stable for 45' or More

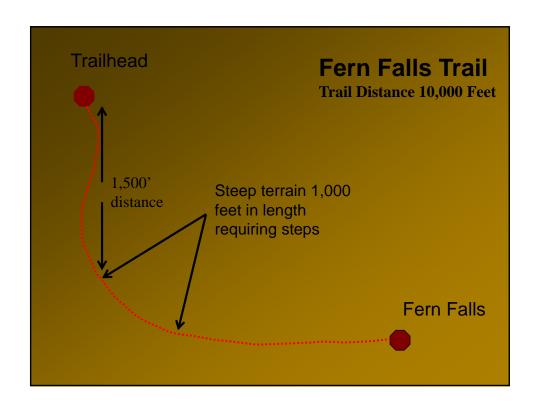


Conditions:

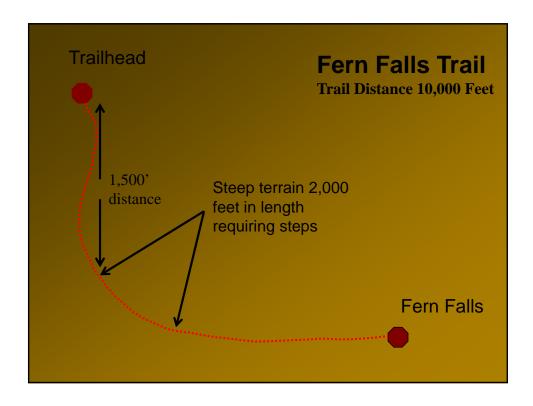
4. Tread Width is Less Than 12" for 20 Feet or More



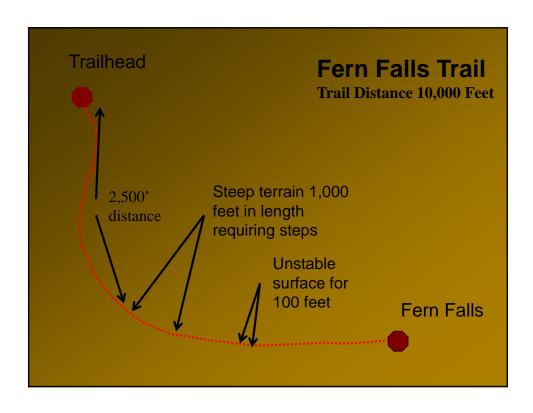
Conditions for Departure and Exceptions Review



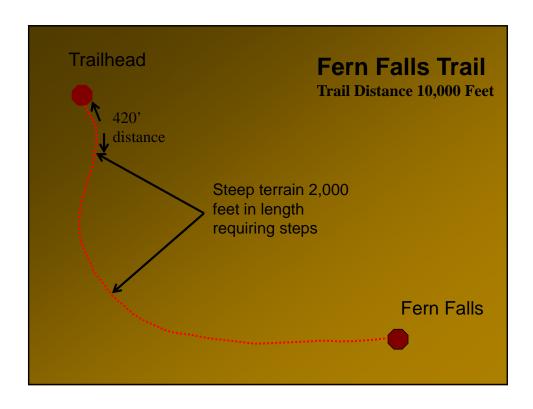
If Any of the Four Conditions for Departure Constitute less than 15% of the Trails Length, Then the Trail Does have to Comply with the Technical Provisions (Guidelines) *Before* and *After* the Area of Departure.



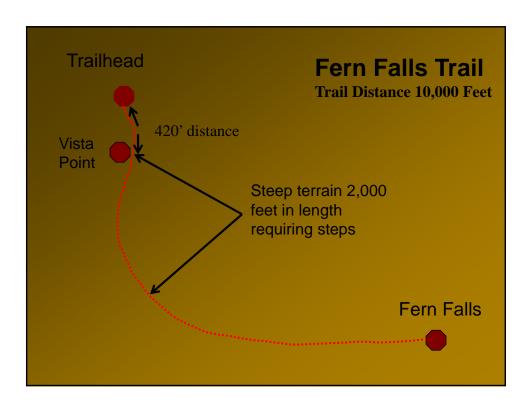
If Any of the Four Conditions for Departure Constitute over 15% of the Trails Length, Then the Trail Does Not have to Comply with the Technical Provisions (Guidelines) *After* the First Point of Departure.



When a Combination of One or More of the Conditions for Departure Exist and One or More of the Exemptions Exist, the Guidelines will not Apply Beyond the First Point of Departure



If the Segment Between the First Point of Departure and the Trailhead is less Than 500 Feet, Then the Technical Provisions do not Apply



If There is a Prominent Feature
Less Than 500 Feet From the
Trailhead, the Trail Segment
Between the Feature and the
Trailhead Shall Comply With the
Technical Provisions

Compliance with Accessibility Requirements is Determined by Reconnaissance and Planning Efforts. Documented in NEPA/Environmental Process.



Key Differences In USDA Forest Service Trail Accessibility Guidelines

- Identifies a change in trail class as an additional condition for departure under "Alter the nature or purpose of the setting"
- Exception: Combination of trail grade and cross slope exceeds 20% for over 40 feet (40% x 20')
- Exception: Minimum trail width is 18 inches or less for a distance of at least 20 feet (12"x 20")
- Written documentation is required when a determination is made that the technical provisions do not apply

Key Differences In USDA Forest Service Trail Accessibility Guidelines

- Passing space design shall comply with the Architectural Barriers Act (T shaped)
- Where vertical clearance is reduced to less than 80 inches due to one or more of the conditions for departure a barrier shall be provided to warn hikers with visual impairments
- Identifies placement and content of trail signs

Trail Guidelines, Recommendations and Status

Session Objectives Review:

- Identified who are users are
- Reviewed how accessible trails got to this point
- Reviewed when and where accessible guidelines apply
- Enhance Accessible Characteristics
 While Maintaining Trails

Trail Guidelines, Recommendations and Status

Session Objectives Review:

- Reviewed the proposed REGNEG guidelines
- Reviewed the four conditions for departure
- Reviewed the four exceptions to the guidelines

Trail Guidelines, Recommendations and Status

Conclusion:

- It is a Mind Set Change
- Design Accessible Components Without Resource Damage
- Provide Quality Outdoor Experience For All Users