

# **Developing Alter**

## **Topics Discussed**

Concepts Design Assumptions The Screening Process Developing the Alternatives Considered but Rejected Concepts





## **Developing Alternatives**

steps: The process of developing alternatives involved four

- Developing concepts
- Screening the concepts against criteria
- Establishing design assumptions related to the concepts
- Packaging the concepts into draft alternatives

"screen" them. Concepts that passed through all The planning process produced hundreds of three rounds of screening were included in the draft concepts, evaluation criteria were identified to concepts for Cades Cove. To manage these alternatives.

used to evaluate the concepts, as well as the This chapter defines concepts and design alternatives are discussed in Chapter 5. process used to package alternatives. Details of the assumptions and outlines the screening process

Alternatives Developing

#### Concepts

#### direction of traffic flow and providing alternative erecting changeable message signs, building a parking and pull-off areas to the Loop Road, concepts generated in this process include adding visitor center, adding travel lanes, changing the developed to solve a problem. Some examples of A concept is big picture idea that has been

transportation systems.

ranging and related to trails, camping, picnic The concepts developed for Cades Cove were far the major concepts would meet the Opportunities many other facilities. A detailed description of how facilities, roadways, safety, the enforcement of rules, Plan's goals and objectives is provided in Chapter 5. park staffing, education, and restrooms, as well as

## The Screening Process

identify criteria. Criteria are elements by which Another important step in the planning process is to the alternatives (and discrete elements of

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#### reasonableness and feasibility, among other "concepts") could be evaluated for their factors. alternatives known in this process as

that could be incorporated into the alternatives. necessary to establish a reasonable set of concepts emphasized at this meeting that evaluation was statements, the evaluation criteria were discussed in During the public scoping review of the problem facilitated break-out sessions. The project team

evaluation process. Each concept was screened through a three-tiered

against existing NPS policies, mandates and goals. The questions included: The **first** level of screening evaluated concepts

- What NPS or legislative mission/mandate or violate? policy does the concept address or, conversely,
- Does the agency have the authority to address the issue, and, if so, what is its authority?

Plan. This involved asking such questions as: against the goals and objectives of the Opportunities The **second** level of screening evaluated concepts

- project goals and objectives for resources? Does the option conform to or conflict with the
- Does the option conform to or conflict with goals and objectives for visitation?

and whether the options were economically viable. visitor experience and the gateway communities positive and negative impacts on resources, the against National Environmental Policy Act (NEPA)the process. of concepts will continue through the EIS phase of decisions were made conservatively. The evaluation This evaluation was based on available data and existing Park infrastructure to support the concept Analysis included consideration of the ability of appropriateness. This step involved identifying related criteria of reasonableness and flaw analysis." Here, concepts were screened The **third** level of screening was entitled the "fatal

> considered at this stage of the evaluation: The following questions are examples of those

How would resources or the visitor experience be affected positively or negatively? Can the concepts be supported by existing infrastructure?

How

outlined here. three examples of the evaluation process are To better understand how the core team decided whether to reject concepts or move them forward,

collection of tolls or license fees on state highways government to establish the Park prohibit the on other routes into the Park or any part of the Park thoroughfares, fees cannot be charged for entrances entrance fees are charged on main highways and 71 and 73. Congress also has dictated that, unless Congress because the deeds that transferred land legislation by the State of Tennessee and/or entrance fee. Enacting such a fee would require One suggestion from the public was to charge an from the State of Tennessee to the federal (16 USC \$4601-6a(a)(3)). For these reasons, this

idea was eliminated in first level of evaluation.

especially where the use of large vehicles is design standards, which require 11 feet for a travel would have to be widened according to NPS road Loop Road. Under this concept, the Loop Road Another suggestion was to add a second lane to the common. inside travel lane is recommended on sharp curves, lane and four feet for shoulders. Another foot for the

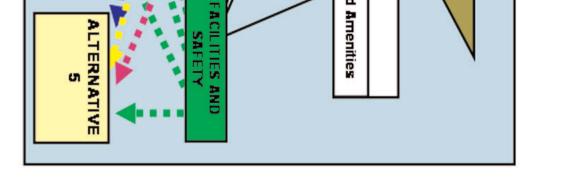
consistent with the roads that existed before the cultural landscape, with an alignment and width Park was established. The curves and narrow width The Loop Road is an integral part of the Cove's

are integral to how visitors experience the Cove.

### the concepts were screened

moved on into the second round of evaluation. Park Because this concept did not conflict with National option to increase the road's vehicle capacity. The project team considered a second lane as an Service policies, mandates or goals, it was

Cove. pedestrian path on historic farm roads was one into any of the alternatives. Adding a bicycle and team generated a list of elements that could be fit appropriateness. Such a path could provide access mandates, project goals and objectives, and meets could be located along some of the historic farm several members of the core team suggested a path Instead of locating the path next to the Loop Road to experience the Cove was appealing, however. other route is available. access points (driveways, pull-offs), and where no standards suggest that bicycle/pedestrian paths be path in such a location. Commonly accepted design safety concerns also arose in relation to locating the lane to the Loop Road. Traffic engineering and to the problems associated with adding a second but project team members voiced concerns similar that the path be located adjacent to the Loop Road, pedestrian path. screening involved the creation of a bicycle and the second round of screening and became a respect the natural and cultural resources of Cades providing exceptional visitor experiences that was determined not to meet the project goal of archaeological sites. For these reasons, this concept detrimental to wildlife, vegetation and possible pavement for the length of the road would be scenic vistas. Moreover, adding 15 to 19 feet of characteristics. A wider roadway also would alter and make the road less compatible with its historic such element. After the alternatives had been drafted, the project Mill area. to several historic structures as well as to the Cable the NEPA criteria of reasonableness and This idea is consistent with NPS policies and roads that crisscross the valley floor. The potential to introduce a new way for the visitor located next to a roadway only where there are few One concept that passed through all three levels of "considered but rejected" option. Widening the road would change this experience Given the above reasons, this concept did not pass The original comment suggested generated. process through which those alternatives were to achieve the plan's goals. Figure 11 illustrates the overall picture of how Cades Cove will be managed increase capacity," and "campground concepts." "concepts that manage demand," "concepts that The concepts were divided into categories such as reviewed the list of concepts that met the criteria. After the evaluation process, the project team **Developing the Alternatives** comprehensive draft alternatives that provide an These separate elements then were combined into Figure 11: The Concept - Alternative Process for Cades Cove ISSUES & PROBLEMS Π. ᅚ τ ALTERNATIVE NO ACTION EDUCATION RESOURCE Increase Capacity ALTERNATIVE 2 -N SCREENING CRITERIA VISITATION **OPTION CATEGORIES (Sample)** IDEAS & SOLUTIONS Manage Demand ALTERNATIVE CONCEPTS "action" alternatives were developed, ranging from under NEPA regulations. Additionally, four draft orientation), and facilities and safety (picnic and strategies that provided the best fit for the goals. The project team matched access concepts with Cove to significant change. very little change in current management of the The "no action" alternative also must be considered park operations, and utilities campground areas, campstore, horse operations, (natural and cultural), resource education (visitor visitation (motorized and non-motorized), resources Each alternative was built around the themes of ω RESOURCES ALTERNATIVE Campground 4 -/visitor comfort). FACILITIES AND Amenities ALTERNATIVE SAFETY ch







For example, all of the minimal development solutions were packaged together into a "low" development alternative, which could then be compared to "moderate" and "high" development alternatives.

Once the range of different combinations of management alternatives had been developed, the team compared each alternative to existing conditions to assess the magnitude of change that would be required with implementation of each alternative. For example, on the high end, prohibiting private vehicles on the Loop Road would create the need for parking at the entry to the Cove and therefore would create the opportunity for a visitor center, which could include an in-depth interpretive experience. On the low end, developing a master circulation plan for pull-offs and parking would call for a less intensive visitor contact point.

Some concepts were important enough to the overall visitor experience to be included in all draft alternatives. For example, a communications system to inform the public about conditions within the Cove was included in each alternative (except the no action). A master pull-off and parking plan was also included in every "action" alternative. Other concepts were considered to be optional if they would not resolve issues but might have a positive effect on some aspect of the visitor experience.

The project team worked through the concepts and developed alternatives that began with the no action alternative (Alternative 1). The team then added concepts that would have a minimal effect on existing visitor activities. Alternative 2 thus included actions to improve the pull-off and parking areas around the Loop Road and increase communication to visitors as a way to manage visitation.

Once these "base" alternatives were identified, concepts were added to create other alternatives in a manner that increased the level of visitor management in a stair step fashion. Therefore, Alternative 3 includes a reservation system, Alternative 4 introduces voluntary alternative transportation and Alternative 5 introduces mandatory alternative transportation.

> A graphic representation of the process used to develop the alternatives is provided in Figure 13. The concepts that passed through the screening process were reviewed, refined and packaged in a first cut of draft alternatives presented to the Park Management Team for its review. Further refinements then were made based on this input, and the draft alternatives were presented at a round of public scoping meetings in the communities surrounding the Park. Information on these alternatives also was posted on the project website. Each alternative is discussed in detail in Chapter 5.

# **Considered but Rejected Concepts**

Throughout the public involvement process, hundreds of comments and recommendations were received about the future of Cades Cove. Many of these ideas were rejected through the screening process described in this chapter. See Appendix K for a chart detailing these "considered but rejected" concepts.