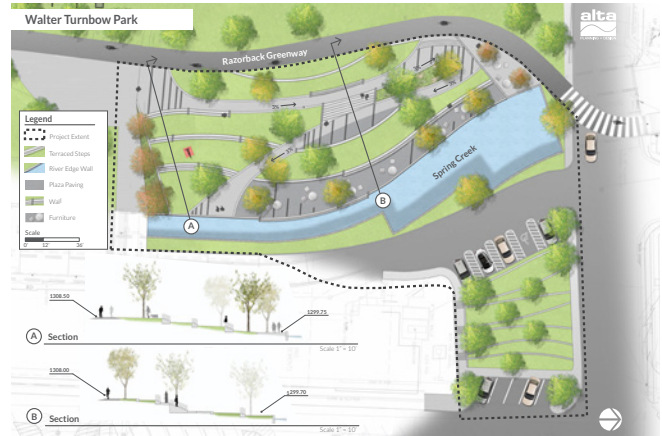
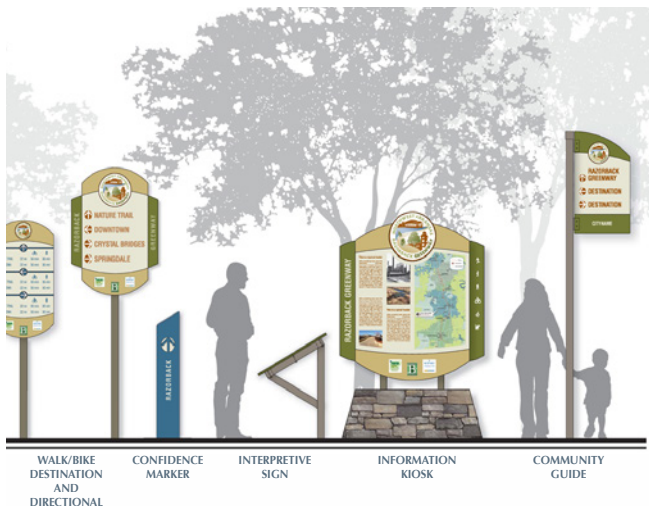


TRAILHEAD AND PARK DESIGN

Alta provides complete trailhead and park design services, including concept design, design development, and creation of construction documents. We integrate green design solutions such as permeable pavement, biowswales, and native landscaping. We also strive to specify durable and appropriate amenities such as wayfinding signs, restrooms, bicycle parking, and site furniture to compliment the overall system's functionality and character.

TRAIL BRANDING AND WAYFINDING

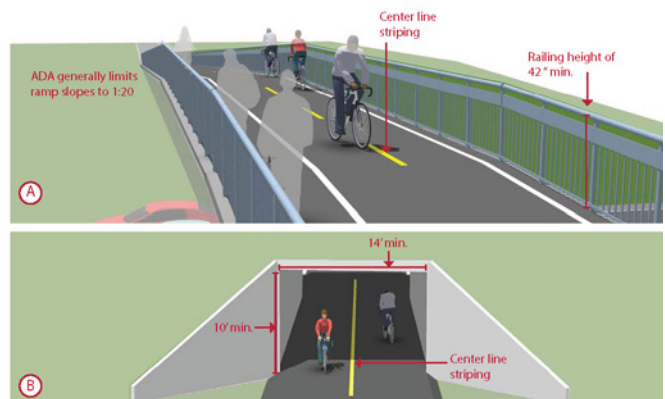
A successful trail network requires more than just an interconnected system of trails and destinations but also an easily navigable network. The ability to navigate is informed by landmarks, natural features, and other visual cues. Alta creates signage and wayfinding systems that respect the natural and built environment, provide meaningful and attractive wayfinding tools, and reflect local community identities and values. In the design and placement of signs, Alta draws upon relevant research from recent studies in the fields of human factors, engineering, and cognitive science. These fields study the interaction of humans with the built environment and the decision making required in wayfinding. These findings inform the design and content of our signs for maximum navigational effectiveness. Alta also develops a geographic information system (GIS) database to assess and analyze the need and placement of signs. This database can then be used in the future to inventory and maintain signage systems. Most importantly, Alta works with local agencies, key stakeholders, and the public to develop comprehensive wayfinding signage systems that meet the needs of the community.



TRAIL STANDARDS AND MAINTENANCE PROGRAMS

Alta has broad experience working with agency staff, partner organizations, and volunteers to prepare plans for maintenance and management of trail systems based on the inventory and classification of the trail system, prescriptions for improvement, and standards for design of new trails. Our maintenance plans include a list of required resources and allocation of time by worker type.

We know the necessary elements that make a successful trail, including the nuances of the physical improvements (roadway crossings and sidewalk facilities), the aesthetic qualities (landscaping, surfacing, amenities), site security elements (rules signing, fencing, visibility, lighting), and maintenance and management (pathway maintenance and monitoring, police patrolling, and community stewards). Alta is skilled at developing trail guidelines, addressing issues like grade reversals to help shed water, grade dips that can be installed in trails with steeper grades, and recommendations for routine maintenance activities.

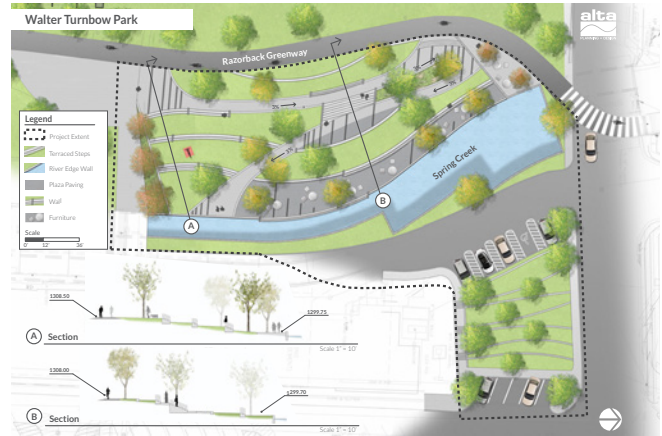
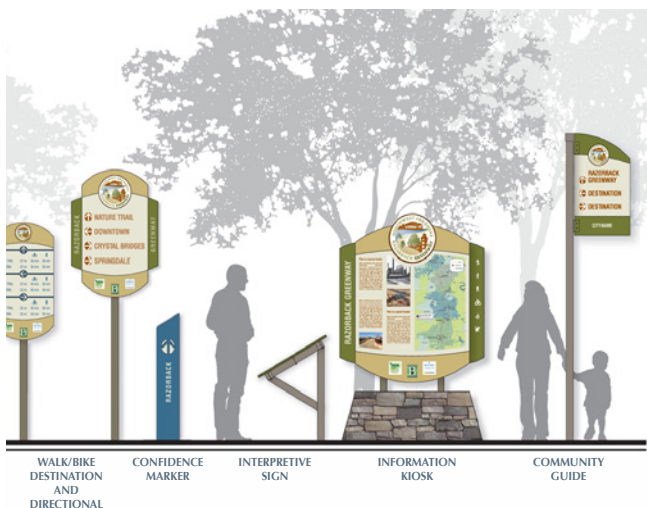


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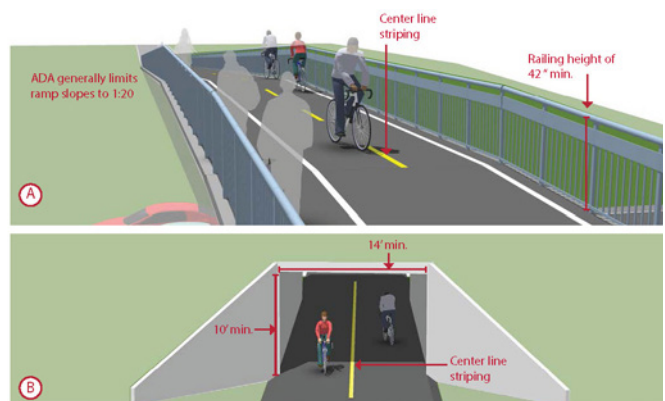
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Bicycle and Pedestrian Integration with Transit

Alta is the leading national expert on multimodal safety and integration of transit, bicycles, and pedestrians. Our planners, designers, engineers, and landscape architects understand that coordinating transit with bicycle and pedestrian facilities is fundamental to a balanced multimodal transportation system. Alta prepares pedestrian and bicycle facility plans and designs focused on access to transit to provide first- and last-mile connections that improve overall non-motorized transportation systems for residents and visitors alike. We create vibrant hubs that stimulate economic development and increase transit ridership.

We create safe, convenient, and comfortable bicycle and pedestrian facilities adjacent to and across transit alignments. Secure bicycle parking that meets demand, effective wayfinding, public art, and bike share stations are integrated into the experience. Alta provides expert analysis and design of the roadways along the transit corridor to foster a safe and inviting experience for pedestrians and bicyclists in context with the surrounding communities.

Transportation Behavior Change

Memorable transportation behaviour change campaigns grab the attention of the public. Our programs and graphic design teams work together to develop, design, and implement memorable campaigns, from brand and message development through to print management, media buys, and community outreach. We begin every outreach project by listening to local concerns and interests and designing a campaign to match. Our campaigns have covered reducing drive-alone trips, increasing active and shared modes, bicycle and pedestrian safety and awareness, school traffic safety, sharing paths and trails, promoting family bicycling, and more. Alta has successfully delivered transportation behavior change programs and strategic plans in more than 35 communities across North America.

Wayfinding and Signage

Alta has designed over 50 signage and wayfinding systems, specifically aimed at the needs of pedestrians and cyclists. We understand the key elements of creating systems that are safe, navigable, and accessible to all users. Our extensive experience designing pedestrian and cycling wayfinding systems has given us a thorough and specialized knowledge of federal MUTCD, DOT, NACTO, and ADA guidelines and standards. We use various tools during our planning and design process, including a geographic information system (GIS) database to assess and analyze the need and placement of signs. This database can then be used in the future to inventory and maintain the wayfinding system.

Trail Design

Alta provides a full range of services for the planning and design of non-motorized trails. Our services include design, alternatives analysis, property acquisition strategies, cost estimation, maintenance and management plans, and funding strategies. Alta has worked on hundreds of trail and open space master plans, feasibility studies, and implementation around the country.

Grant Writing

Alta staff have assisted jurisdictions across the country in winning over \$200 million in grant funding, ranging from federal funds such as TIGER grants to state, regional, local, and private sources. Alta prepares grant applications, writes specific scope language, develops maps and graphics, reviews documents for quality control, and assists with environmental documentation and preliminary design.

Alta Provides a Full Range of Services Including:

- Master plans (bicycle, pedestrian, trail, and open space)
- Landscape architecture and project design
- Traffic engineering
- Greenway and corridor plans
- Bicycle and pedestrian integration with transit
- Bicycle and pedestrian facility design guidelines
- Counts, surveys, and demand analysis
- Complete Streets
- Trail safety and sustainability audit
- Signage and wayfinding plans
- GIS and mapping services
- Construction documentation and administration
- Safe Routes to School studies and plans
- Public involvement
- Technical assistance and training
- Education, encouragement, and marketing services
- Bike share feasibility studies