

The Leadville Bikeway Design Recommendations

Overview

The Leadville Bikeway project aims to create a bikeway that is compatible with and adds value to the neighborhood and surrounding area, encourages use of a low-stress bikeway corridor and improves circulation for all traffic travelling on Leadville Avenue. These design recommendations are intended to create continuity for residents and bikeway users along the entire length of the bikeway, while also considering and responding to slight differences among four sub-sections of Leadville Avenue. These recommendations were formed, and segments identified by analyzing a combination of factors:

- roadway specifications (e.g., right-of-way dimensions, existing infrastructure)
- streetscape character and adjacent land uses (e.g., zoning, setbacks, landscaping and tree canopy, land uses)
- public input (e.g., resident and user preferences and observations)
- travel patterns (e.g., common routes and destinations, traffic counts, trip types)

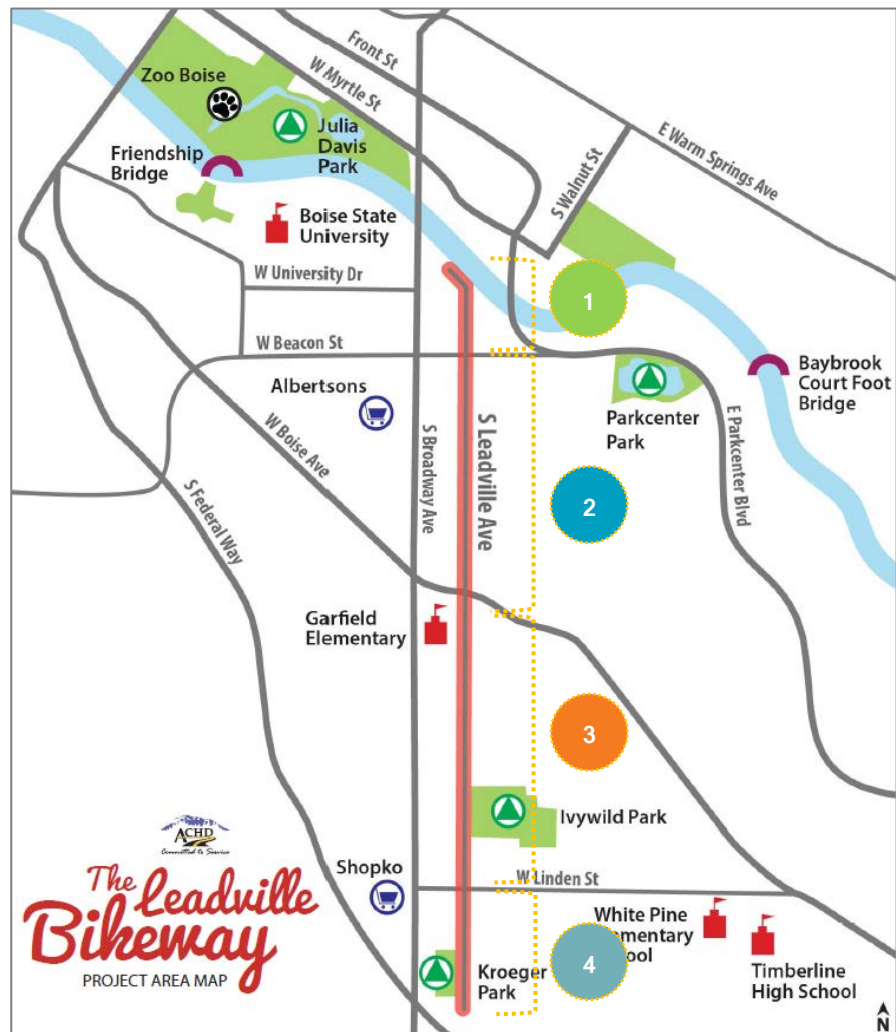
The sub-sections of Leadville, are included on the map below, and listed north to south.

Segment #1: Boise River and Greenbelt to Beacon Street

Segment #2: Beacon Street to Boise Avenue (includes Beacon Avenue and Boise Avenue intersections)

Segment #3: Boise Avenue to Linden Street (includes Garfield Elementary School, Ivywild Park and Public Pool and Linden Avenue)

Segment #4: Linden Avenue to Sullivan Street



Segment #1 Boise River and Greenbelt to Beacon Street – CHARACTERISTICS

	Description
Segment length and R.O.W.	Length = about 3 blocks ROW = 32' north of Beacon
Adjacent land uses and zoning	Zoned R3-D (20 residential units per acre) and R-2 (medium density single family residential) Housing is currently multi-family apartments and some single-family units. This is the only multi-family zoned area along Leadville Avenue.
Nearby destinations, key features and landmarks	North end provides direct connection to Greenbelt and Boise River. At north end, Leadville Avenue turns NW and ends, with a connection to a N-S unpaved alley that connects back to Leadville through private parking lots. Residents along this segment are within the Garfield Elementary School area boundaries.
Public input specific to this section	The public desired increased signage and improved connectivity to the Greenbelt.
Intersections	No major/high traffic intersections
Traffic speed and flow (stops and traffic calming)	No controlled north-south stops One speed bump
Environment and character	Numerous private parking lots serving apartments. Sidewalks and landscaping.
Navigation and wayfinding	Close proximity to BSU campus. Wayfinding limited to sign on Greenbelt.

Segment #1 Boise River and Greenbelt to Beacon Street – RECOMMENDATIONS

<ul style="list-style-type: none"> • Install sharrows along the corridor.
<ul style="list-style-type: none"> • Indicate bike route connections to Greenbelt and both east and west sides of BSU campus with wayfinding and bikeway signage, and surface paint. Link with wayfinding signage on Greenbelt. Include a map of the Greenbelt where the Greenbelt connects with the Leadville Bikeway.
<ul style="list-style-type: none"> • Potential location for bike repair station.
<ul style="list-style-type: none"> • Potential location for bike rack.
<ul style="list-style-type: none"> • Potential location for bikeway art (working with private landowners, or in public right-of way).
<ul style="list-style-type: none"> • Improve turnaround for vehicles and separate vehicles from bike traffic entering/exiting Greenbelt to the extent possible. Alert drivers that roadway ends to prevent need for turnarounds.
<ul style="list-style-type: none"> • Add signs for nearby public restroom facilities.

Segment #2: Beacon Street to Boise Avenue – CHARACTERISTICS

Description	Recommendations
Segment length and R.O.W.	Length = about 7 blocks R.O.W = 66' north of Boise, 44' south of Boise
Adjacent land uses and zoning	R-2 (Medium density single-family residential)
Nearby destinations, key features and landmarks	Residents along this segment are within the Garfield Elementary School area boundaries.
Public input specific to this section	Improved crossings at Beacon and Boise Avenue are essential. Create an improved flow of bike traffic by changing some or all north-south stops to east-west stops.
Intersections	Beacon Street, Highland Street, Boise Avenue.
Traffic speed and flow (stops and traffic calming)	North-south stops at Warren Street, Highland Street, Rossi Street, Beacon Street. A speed dip at the intersection on Howe Street
Environment and character	Neighborhood environment with intermittent sidewalk coverage, large developed trees, and significant on-street parking.
Navigation and wayfinding	Wayfinding signs are found near the intersections of Beacon Street, Highland Street and Boise Avenue (north and south bound at all three intersections)

Segment #2: Beacon Street to Boise Avenue – RECOMMENDATIONS

<ul style="list-style-type: none"> • Install sharrows along the corridor.
<ul style="list-style-type: none"> • Maintain existing controls and crosswalks at Beacon Avenue. Include signage to advise bike traffic to divert at Beacon for best access to west and south sides of BSU campus.
<ul style="list-style-type: none"> • Install Pedestrian Hybrid Beacon (PHB) at Boise Avenue. Incorporate bike ladders and/or crosswalks for N-S traffic.
<ul style="list-style-type: none"> • Redesign intersection at Highlands Avenue (or nearby intersection) to incorporate bike ladders and/or crosswalks, bulb outs with bike cut-throughs, and install 4-way controls. Include signage to inform bike traffic of the signalized crossing at Highlands and Broadway.
<ul style="list-style-type: none"> • Change intersection controls to stop east-west traffic at all intersections throughout segment, except those identified for different treatments in above recommendations (i.e., Beacon Avenue, Boise Avenue and Highlands Avenue).
<ul style="list-style-type: none"> • Consider adding up to three speed bumps in this segment.

Segment #3: Boise Avenue to Linden Avenue – CHARACTERISTICS

Description	Recommendations
Segment length and R.O.W.	Length = about 7 blocks R.O.W = 60' north of Ivywild, 48' south of Ivywild
Adjacent land uses and zoning	Mix of R-1 and R-2 (single-family residential and medium density single-family residential)
Nearby destinations, key features and landmarks	Residents along this segment are within the Garfield Elementary School area boundaries. Ivywild Park and Public Pool and Garfield Elementary School are major destinations along this section of the bikeway.
Public input specific to this section	Improve the flow of traffic by changing north-south stop signs to east-west stops at key intersections. Improve the bicycle and pedestrian experience by providing ways to slow traffic.
Intersections	Pennsylvania Street, Iowa Street, Linden Street
Traffic speed and flow (stops and traffic calming)	North-south stops at Pennsylvania Street, Iowa Street, and Linden Street Speed dip at the intersection with Gettysburg Street Speed bumps between Gettysburg Street and Melrose Street and between Rollins Street and Iowa Street
Environment and character	Single family residential neighborhood with consistent sidewalks and somewhat developed tree coverage. Less on street parking when compared to Leadville Avenue north of Boise Avenue.
Navigation and wayfinding	Wayfinding signs are present northbound at Linden Street and Elwood Drive, and southbound at Elwood Drive.

Segment #3: Boise Avenue to Linden Avenue – RECOMMENDATIONS

<ul style="list-style-type: none"> • Install sharrows along the corridor.
<ul style="list-style-type: none"> • Consider adding up to two speed bumps in this segment (two speed bumps are currently installed between Iowa Street and Ivywild Pool and Park).
<ul style="list-style-type: none"> • Redesign intersection at Iowa Street to incorporate bike ladders and/or crosswalks, bulb outs with bike cut-throughs, and retain 4-way controls.
<ul style="list-style-type: none"> • Add up to 3 crosswalks between Iowa Street and Ivywild Street to improve access to Ivywild Park and Pool.
<ul style="list-style-type: none"> • Redesign the Ivywild parking areas to incorporate bike/ped route through the parking area and add shade structures or trees. Consider adding drinking fountain and signs for nearby public restroom facilities. Install bike repair station. Use these facilities to activate streetcar art installation, if possible.
<ul style="list-style-type: none"> • Install bikeway art and signage along Ivywild Pool property between Rollins Avenue and Ivywild

Street.
<ul style="list-style-type: none"> • Install a Flashing Beacon with cyclist-activated control and incorporate N-S bike ladders and/or crosswalks at Linden Avenue.
<ul style="list-style-type: none"> • Install bikeway art and signage along route and in particular at Garfield Elementary. Consider options for signage indicating location of public restrooms and repair station. Potential location for bike rack.
Leadville Bikeway Connectivity Recommendations
<ul style="list-style-type: none"> • Stripe and paint bike lanes on Linden Avenue to improve bike connections to Broadway Avenue to the west, and Gekeler Lane, Boise Avenue and White Pine Elementary/Timberline High Schools to the east.
<ul style="list-style-type: none"> • Establish a pathway along Gallagher Canal to connect Leadville Avenue to Gekeler Lane.
<ul style="list-style-type: none"> • Work with ITD to consider options to create a pedestrian/bicyclist refuge in existing medians on Broadway Avenue at Iowa Street.

Segment #4: Linden Avenue to Sullivan Street – CHARACTERISTICS	
Character	Recommendations
Segment length and R.O.W.	Length = about 3 blocks R.O.W = 48'
Adjacent land uses and zoning	R-1C (small lot residential)
Nearby destinations, key features and landmarks	Residents south of Linden Avenue are within the White Pine Elementary School area boundaries. Kroeger Park provides neighborhood greenspace.
Public input specific to this section	Desire connection to Federal Way. Desire speed controls and signage to slow traffic and alert drivers using this section of Leadville to access businesses on east side of Broadway Avenue.
Intersections	No major/high traffic intersections
Traffic speed and flow (stops and traffic calming)	No controlled N-S stops No speed bumps
Environment and character	“Rural residential” road section with no sidewalks
Navigation and wayfinding	One wayfinding sign South of Linden Street.

Segment #4: Linden Avenue to Sullivan Street – RECOMMENDATIONS
<ul style="list-style-type: none"> • Install sharrows along the corridor.
<ul style="list-style-type: none"> • Two speed cushions, one between Linden Avenue and Richmond Street, the other between Sylvan Street and Victory Road. Add “Slow Children” signage near Kroeger Park
<ul style="list-style-type: none"> • Install bikeway art and signage along route and in particular at Kroeger Park.

<ul style="list-style-type: none"> • Potential location for bike rack at Kroeger Park.
<ul style="list-style-type: none"> • Potential location for crosswalks to Kroeger Park.
<ul style="list-style-type: none"> • Add wayfinding signage to inform southbound bike traffic that bikeway ends (no connections exist to east and only Richmond Street connects west to Broadway), and direct to Broadway Avenue and Federal Way.
Leadville Bikeway Connectivity Recommendations
<ul style="list-style-type: none"> • Identify existing and/or potential improved connections to pathway along Federal Way.
<ul style="list-style-type: none"> • Improve connections along Linden Street to the Leadville Bikeway by creating a bike lane connection between Broadway Avenue to Linden Park Way.