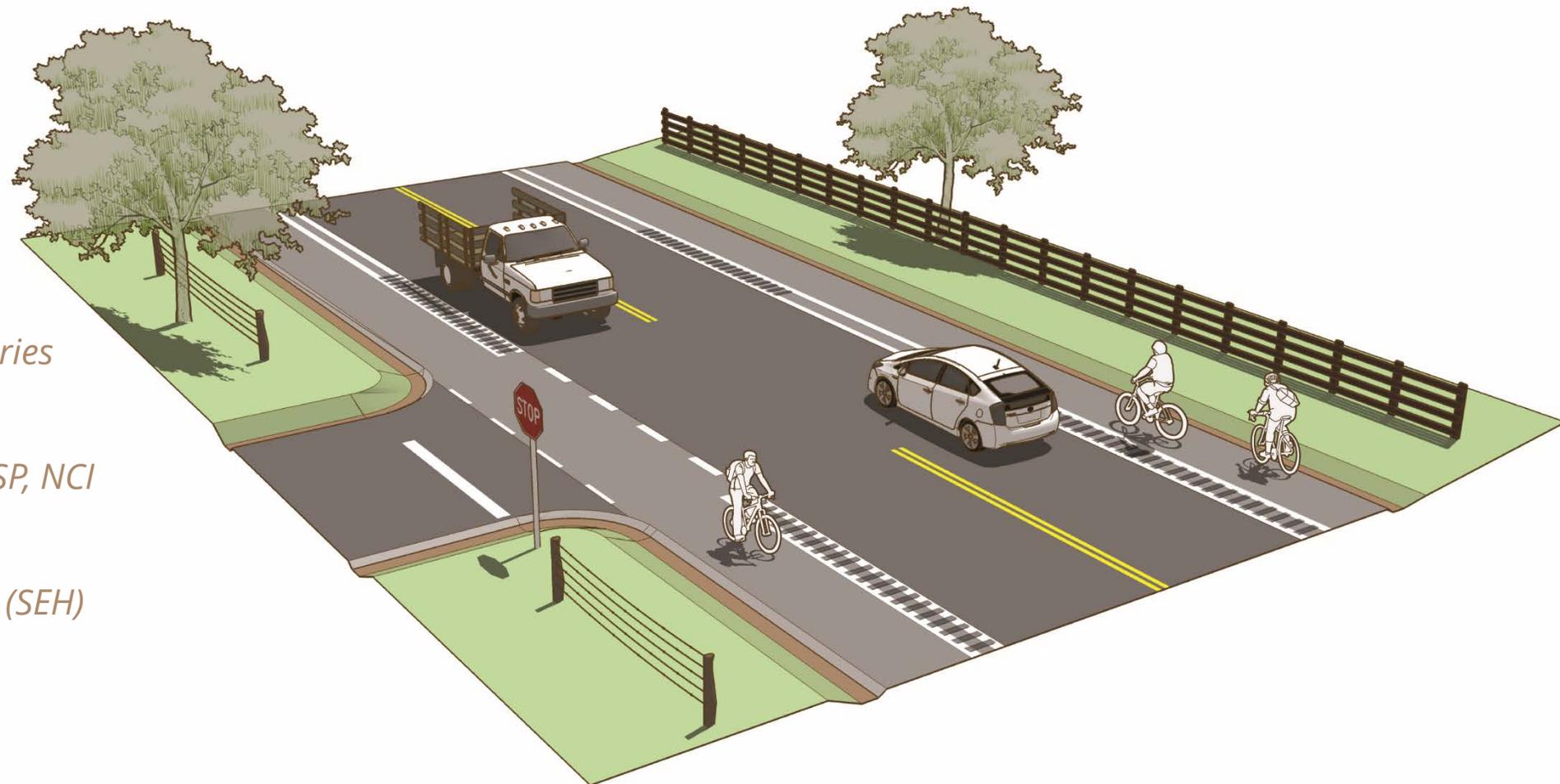


# Small Town *and* Rural Multimodal Networks

*APA Planning Webcast Series*

*Tim Gustafson, AICP  
Andrew Dane, AICP, ENV SP, NCI*

*Alta Planning + Design  
Short Elliott Hendrickson (SEH)*



# Today's Presenters



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Senior Associate  
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# Funding Partners



# Project Team



**MONTANA**  
**STATE UNIVERSITY**

**Western**  
**Transportation**  
**Institute**



# Outline

- Purpose
- Structure
- Sources
- Applications
- Benefits
- Project Examples



DECEMBER 2016

## Small Town *and* Rural Multimodal Networks



U.S. Department of Transportation  
Federal Highway Administration

# History and Context

Rural Practice and Multimodal Design Guidelines

# Where did the guide come from - Sources

- AASHTO Flexibility Guide 2004
- AASHTO Bike Guide 2012
- AASHTO Pedestrian Guide 2004, 2017
- AASHTO Green Book 2011
- AASHTO Low Volume Roads 2001, 2017
- FHWA Achieving Multimodal Networks 2016
- FHWA Resurfacing Guide 2016
- FHWA MUTCD 2009
- FHWA Separated Bike Lane Guide 2015
- PROWAG 2011, 2013, 2014
- BIKESAFE 2014

# FHWA Policy Statement (2010)

“Walking and bicycling foster safer, more livable, family-friendly communities; promote physical activity and health; and reduce vehicle emissions and fuel use.”

“... DOT encourages transportation agencies to *go beyond the minimum requirements*, and proactively provide convenient, safe, and context-sensitive facilities that foster increased use by bicyclists and pedestrians of *all ages and abilities*...”

FHWA. *United States Department of Transportation Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations*. 2010.

## United States Department of Transportation Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations

Signed on March 11, 2010 and announced March 15, 2010

### Purpose

The United States Department of Transportation (DOT) is providing this Policy Statement to reflect the Department's support for the development of fully integrated active transportation networks. The establishment of well-connected walking and bicycling networks is an important component for livable communities, and their design should be a part of Federal-aid project developments. Walking and bicycling foster safer, more livable, family-friendly communities; promote physical activity and health; and reduce vehicle emissions and fuel use. Legislation and regulations exist that require inclusion of bicycle and pedestrian policies and projects into transportation plans and project development. Accordingly, transportation agencies should plan, fund, and implement improvements to their walking and bicycling networks, including linkages to transit. In addition, DOT encourages transportation agencies to go beyond the minimum requirements, and proactively provide convenient, safe, and context-sensitive facilities that foster increased use by bicyclists and pedestrians of all ages and abilities, and utilize universal design characteristics when appropriate. Transportation programs and facilities should accommodate people of all ages and abilities, including people too young to drive, people who cannot drive, and people who choose not to drive.

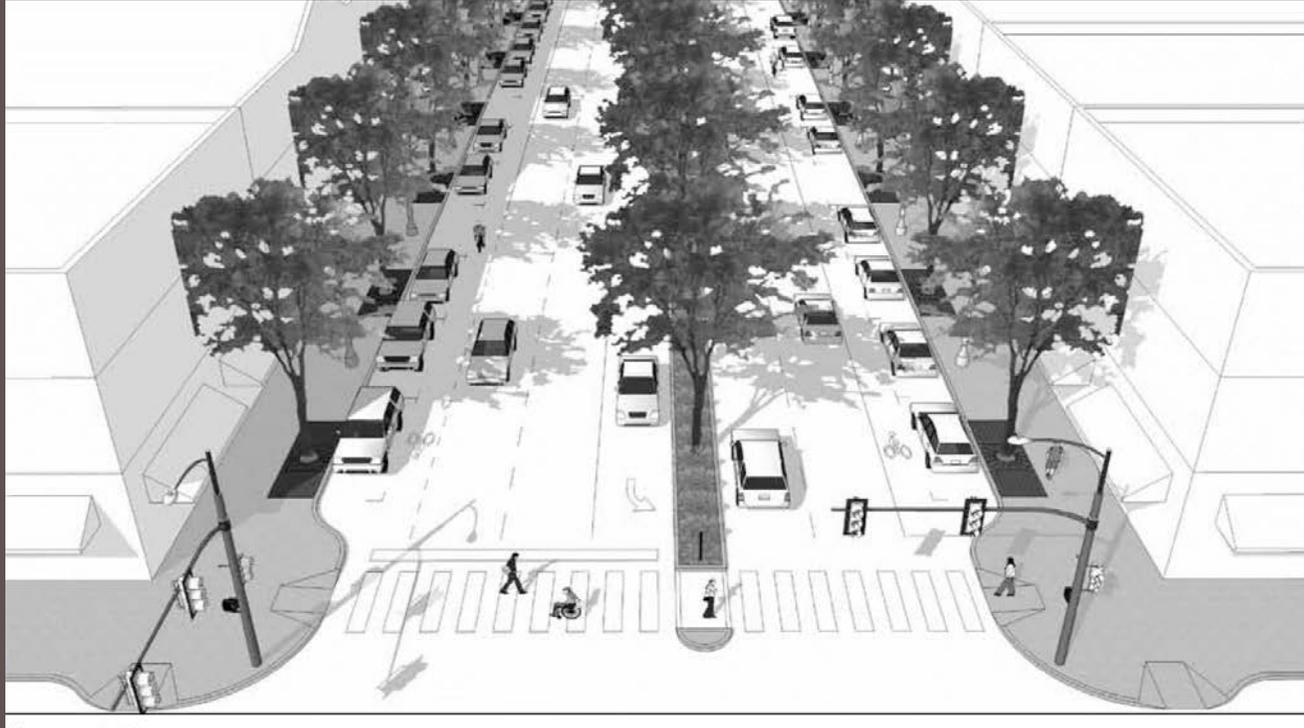
### Policy Statement

The DOT policy is to incorporate safe and convenient walking and bicycling facilities into transportation projects. Every transportation agency, including DOT, has the responsibility to improve conditions and opportunities for walking and bicycling and to integrate walking and bicycling into their transportation systems. Because of the numerous individual and community benefits that walking and bicycling provide — including health, safety, environmental, transportation, and quality of life — transportation agencies are encouraged to go beyond minimum standards to provide safe and convenient facilities for these modes.

### Authority

This policy is based on various sections in the United States Code (U.S.C.) and the Code of Federal Regulations (CFR) in Title 23—Highways, Title 49—Transportation, and Title 42—The Public Health and Welfare. These sections, provided in the Appendix, describe how bicyclists and pedestrians of all abilities should be involved throughout the planning process, should not be adversely affected by other transportation projects, and should be able to track annual obligations and expenditures on nonmotorized transportation facilities.

# ITE Walkable Thoroughfares (2010)



ITE. *Designing Walkable Urban Thoroughfares: A context Sensitive Approach*. 2010. p. 62



An ITE Recommended Practice

Designing Walkable Urban Thoroughfares:  
A Context Sensitive Approach



Institute of Transportation Engineers

CONGRESS  
FOR THE  
NEW  
URBANISM

# NACTO Urban Street Design Guide (2013)



NACTO. *Urban Street Design Guide*. 2013.



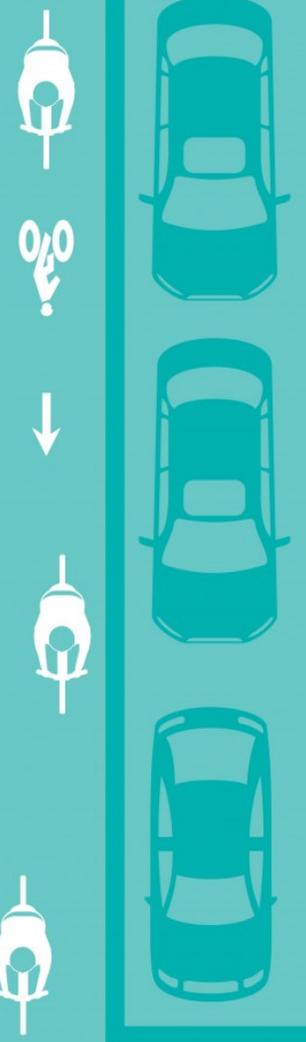
# NACTO Urban Bikeway Design Guide (2014)



NACTO. *Urban Bikeway Design Guide, 2<sup>nd</sup> Edition.* 2014.

# Urban Bikeway Design Guide

National Association of City Transportation Officials



# FHWA Design Flexibility Memo (2013)

FHWA supports “taking a flexible approach to bicycle and pedestrian facility design. ... The National Association of City Transportation Officials (NACTO) Urban Bikeway Design Guide, [the Urban Street Design Guide,] and the Institute of Transportation Engineers (ITE) Designing Walkable Urban Thoroughfares guide builds upon the flexibilities provided in the AASHTO guides, which can help communities plan and design safe and convenient facilities for pedestrian and bicyclists. FHWA supports the use of these resources to further develop nonmotorized transportation networks, particularly in urban areas.”



U.S. Department  
of Transportation  
Federal Highway  
Administration

## Memorandum

SENT BY ELECTRONIC MAIL

---

Subject: **GUIDANCE:** Bicycle and Pedestrian Facility Design Flexibility Date: August 20, 2013

From: Gloria M. Shepherd *Gloria M. Shepherd*  
Associate Administrator for Planning,  
Environment and Realty

In Reply Refer To:  
HEPH-10

Walter C. (Butch) Waidelich, Jr. *Walter C. Waidelich, Jr.*  
Associate Administrator for Infrastructure

Jeffrey A. Lindley *Jeffrey A. Lindley*  
Associate Administrator for Operations

Tony T. Furst *Tony T. Furst*  
Associate Administrator for Safety

To: Division Administrators  
cc: Directors of Field Services

This memorandum expresses the Federal Highway Administration’s (FHWA) support for taking a flexible approach to bicycle and pedestrian facility design. The American Association of State Highway and Transportation Officials (AASHTO) bicycle and pedestrian design guides are the primary national resources for planning, designing, and operating bicycle and pedestrian facilities. The National Association of City Transportation Officials (NACTO) [Urban Bikeway Design Guide](#) and the Institute of Transportation Engineers (ITE) [Designing Urban Walkable Thoroughfares](#) guide builds upon the flexibilities provided in the AASHTO guides, which can help communities plan and design safe and convenient facilities for pedestrian and bicyclists. FHWA supports the use of these resources to further develop nonmotorized transportation networks, particularly in urban areas.

# Why Create a Small Town Guide?

ONE SIZE DOES NOT FIT ALL.



**LONGER NON-LOCAL  
TRIP DISTANCES**



**HEALTH  
DISPARITIES**



**HIGHER CRASH  
RATES**



**INCOME  
DISPARITIES**

# Rural Opportunities

2 MILES



**Allendale, SC**  
Population 3,328

2 MILES



**Palmer, AK**  
Population 6,250

1.3 MILES



**Rushford, MN**  
Population 2,102

2.3 MILES



**Ukiah, CA**  
Population 15,956

# Guide Content

Treatments and Design Topics

# Guide Structure

1. Introduction
2. Mixed Transportation Facilities
3. Visually Separated Facilities
4. Physically Separated Facilities
5. Key Network Linkages
6. Planning and Project Development

## TABLE OF

# Contents

### Chapter 1–Introduction

- 1-5 *Why a Rural and Small Town Focused Guide?*
- 1-7 *Building a Rural and Small Town Multimodal Network*
- 1-8 *Who Uses the Rural Network?*
- 1-9 *How to Use this Guide*
- 1-11 *Creating Networks*
- 1-13 *Common Challenges in Small Town and Rural Areas*
- 1-15 *Reference Guide*
- 1-16 *Accessibility Standards*

### Chapter 2–Mixed Traffic Facilities

- 2-3 *Yield Roadway*
- 2-9 *Bicycle Boulevard*
- 2-17 *Advisory Shoulder*

### Chapter 3–Visually Separated Facilities

- 3-3 *Paved Shoulder*
- 3-11 *Bike Lane*

### Chapter 4–Physically Separated Facilities

- 4-3 *Shared Use Path*
- 4-11 *Sidepath*
- 4-19 *Sidewalk*
- 4-25 *Separated Bike Lane*

### Chapter 5–Key Network Opportunities

- 5-3 *Speed Management*
- 5-7 *Pedestrian Lane*
- 5-9 *School Connections*
- 5-15 *Multimodal Main Streets*
- 5-21 *Bridges*
- 5-27 *Access to Public Lands*

### Chapter 6–Planning and Project Development

- 6-3 *The Transportation Planning Process*
- 6-4 *Steps in the Transportation Planning Process*
- 6-5 *Key Products in the Transportation Planning Process*
- 6-6 *What are the Key Products of the Transportation Planning Process?*

# Content Areas

- Application
- Benefits
- Guidance
  - Geometric Design
  - Markings
  - Signs
  - Intersection treatment
  - Implementation
  - Accessibility

CHAPTER 2 | MIXED TRAFFIC FACILITIES

### Yield Roadway

*A yield roadway is designed to serve pedestrians, bicyclists, and motor vehicle traffic in the same slow-speed travel area. Yield roadways serve bidirectional motor vehicle traffic without lane markings in the roadway travel area.*

**APPLICATION**

**Speed and Volume**  
Appropriate on roads with very low volumes<sup>1</sup> and low speed.

**Network**  
Local residential roadways. Not for through motor vehicle travel.

**Land Use**  
Within built-up areas, particularly near residential land uses where most traffic is familiar with prevailing road conditions.

**BENEFITS**

- Less costly to build and/or maintain than fully paved cross sections.
- Encourages slow travel speed when narrower than 20 ft (6.0 m).
- Connects local residential areas to destinations on the network.
- Can support a larger tree canopy when located within wide unpaved roadside areas.
- Limits impermeable surface area and minimizes stormwater runoff.
- Supports on-street or shoulder parking for property access.
- Maintains aesthetic of narrow roads and uncurbed road edges.
- Low maintenance needs over time.

SMALL TOWN AND RURAL MULTIMODAL NETWORKS

# Content Areas - Case Studies

- Community Context
- Key Elements
- Role in the Network
- How Funded

CHAPTER 2 | MIXED TRAFFIC FACILITIES

CASE STUDY | YIELD ROADWAY  
Manzanita, Oregon

PROJECT DESCRIPTION      DETAILS

CHAPTER 3 | VISUALLY SEPARATED FACILITIES

CASE STUDY | BIKE LANE  
Lyndonville, Vermont

PROJECT DESCRIPTION      DETAILS

CHAPTER 2 | MIXED TRAFFIC FACILITIES

CASE STUDY | ADVISORY SHOULDERS  
Hanover, New Hampshire

PROJECT DESCRIPTION      DETAILS

**COMMUNITY CONTEXT**

Hanover, NH, is a town of approximately 11,000 with 8,000 living in the town center. Hanover is home to Dartmouth College with a student population of 6,300. Hanover is located on the Connecticut River and has a dense built-up area surrounded by small suburban neighborhoods that transition quickly to a very rural setting.

**KEY DESIGN ELEMENTS**

The advisory shoulders project was built on a low-volume, low-speed, residential road. Implementation included pavement markings and signs.

**ROLE IN THE NETWORK**

Valley Road is a local bicycle connection between neighborhoods with schools, the downtown, and the Dartmouth College campus. Sidewalks were removed due to root damage and were not replaced because the neighborhood preferred the rural look of streets without sidewalks. Advisory shoulders use existing pavement to provide space prioritized for bicycles and pedestrians at very low cost.

**FUNDING**

The Hanover Bicycle and Pedestrian Plan and the advisory shoulders project

In 2012, Hanover completed a bicycle and pedestrian planning effort. This plan identified Valley Road as a local bicycle connection in the overall network. In 2013, Hanover completed a Safe Routes to School (SRTS) Plan, which introduced the idea of using advisory shoulders (called advisory bike lanes for this project) on Valley Road. Hanover's Bicycle and Pedestrian Committee (HBPC) advocated to use Valley Road as a pilot project for advisory shoulders. The HBPC surveyed the Valley Road neighbors and built support for a pilot project. While there was some resistance, the neighborhood was generally supportive of the idea. Hanover's Department of Public Works was open to the idea and it was presented to the town select board who approved installation of advisory shoulders unit on Valley Rd. The advisory shoulders were painted on about 400 meters of Valley road in the summer of 2014. In 2016 an evaluation report was produced with traffic counts and results from a follow up survey. Based on the success of the Valley Road

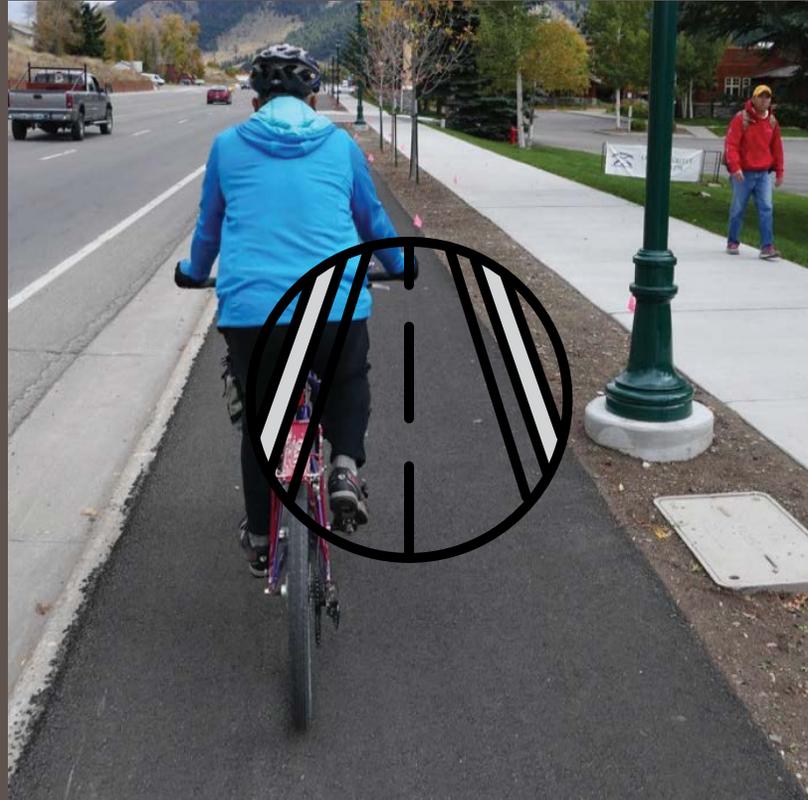
# Applications



Mixed Traffic



Visually Separated



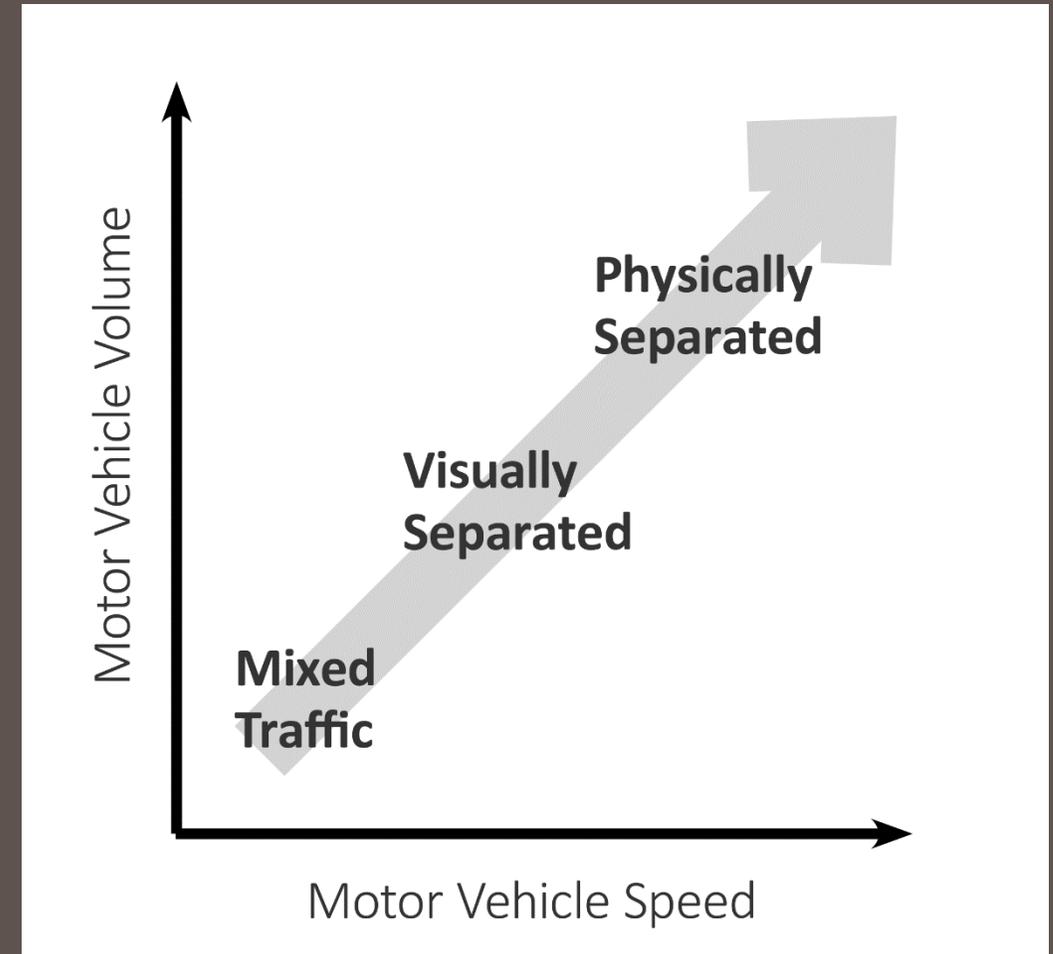
Physically Separated

# Focus on Complete Networks of Facilities

Networks are interconnected pedestrian and/or bicycle transportation facilities that allow people of all ages and abilities to safely and conveniently get where they want to go.

## Facility Categories:

- Mixed Traffic
- Visually Separated
- Physically Separated



# Varying Context and User Needs



Unimproved



Agricultural



Recreational

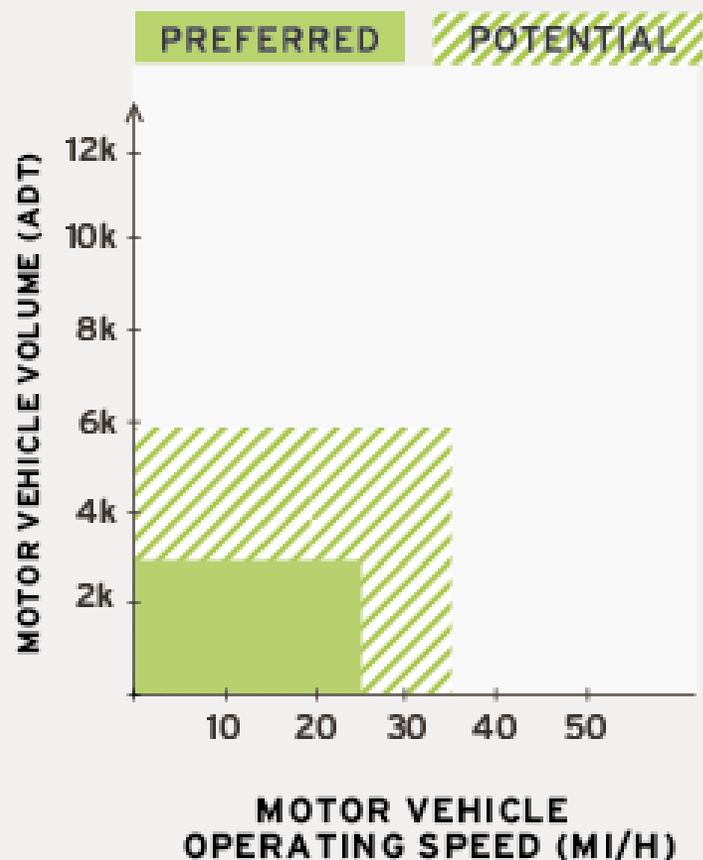


Downtown

# EXAMPLE APPLICATION

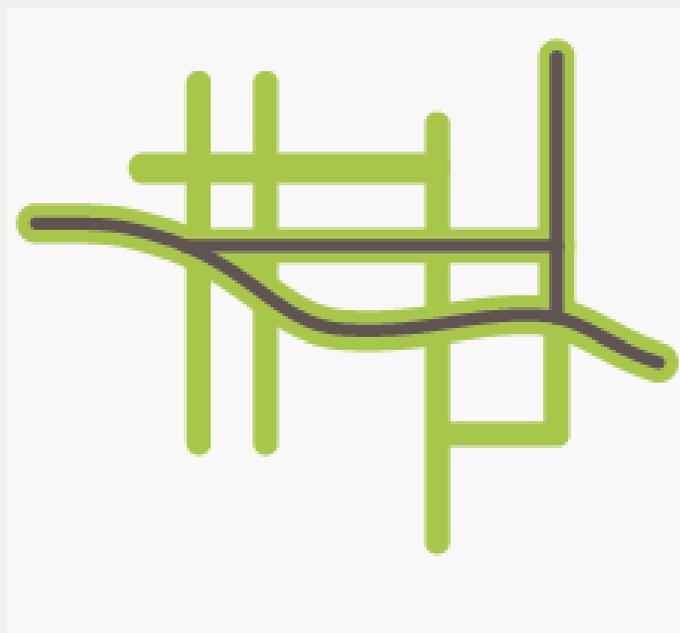
## Speed and Volume

Most appropriate on streets with low to moderate volumes and moderate speed motor vehicles.



## Network

Applies to constrained connections between built-up areas.



- LOCAL
- COLLECTOR
- HIGHWAY

## Land Use

For use outside, between and within built-up areas with bicycle and pedestrian demand and limited available paved roadway surface.



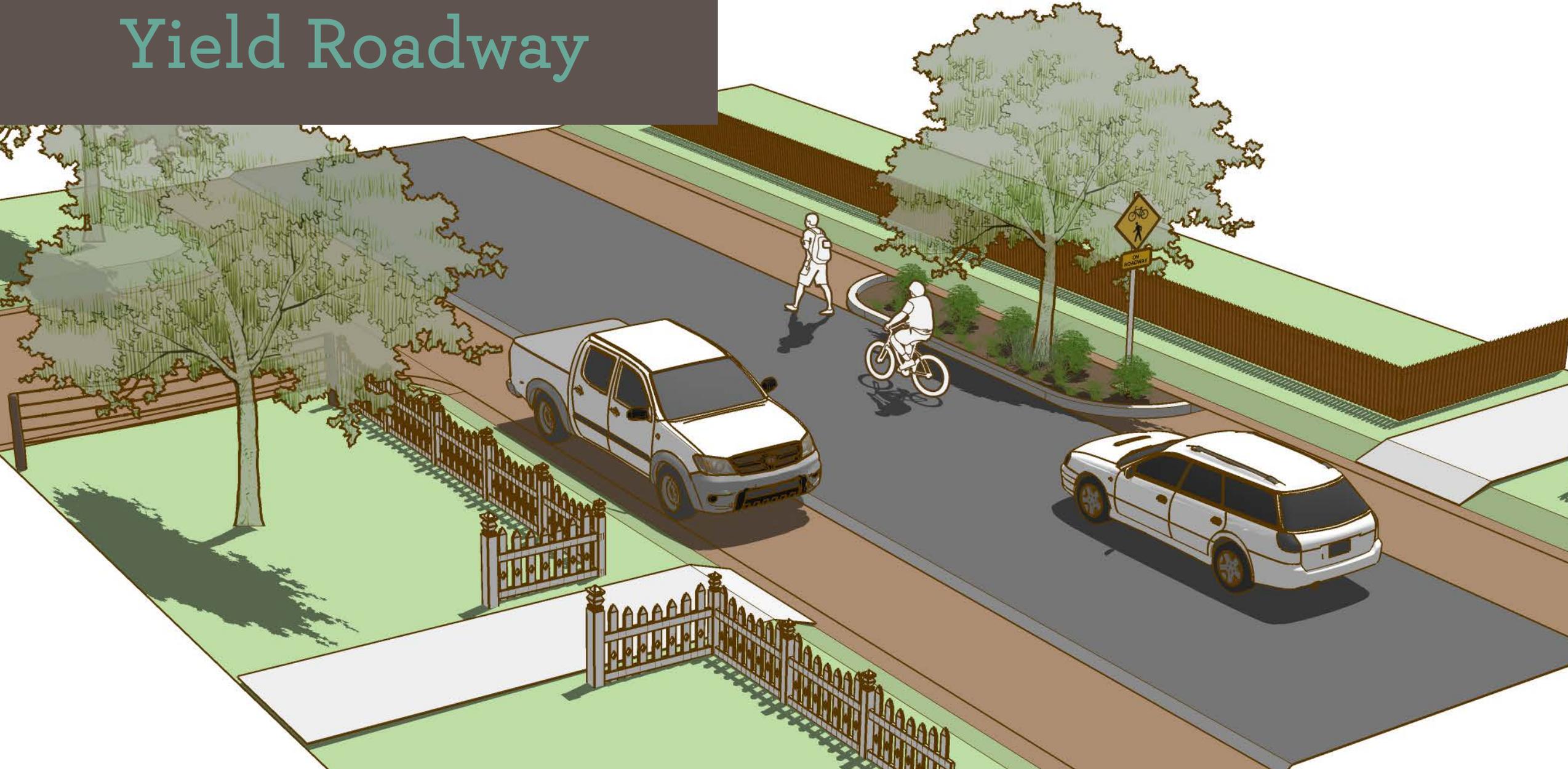
OUTSIDE OF BUILT-UP AREAS

WITHIN BUILT-UP AREAS

# Mixed Traffic

- Yield Roadway
- Bicycle Boulevard
- Advisory Shoulder

# Yield Roadway

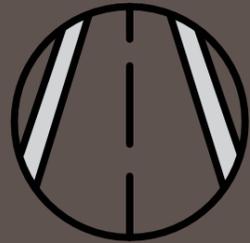


# Facilities



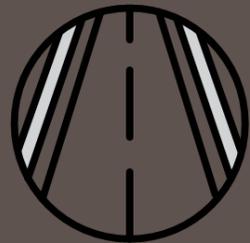
## Mixed Traffic

- Yield Roadway
- Bicycle Boulevard
- **Advisory Shoulder**



## Visually Separated

- Paved Shoulder
- Bike Lane



## Physically Separated

- Shared Use Path
- Sidepath
- Sidewalk
- Separated Bike Lane

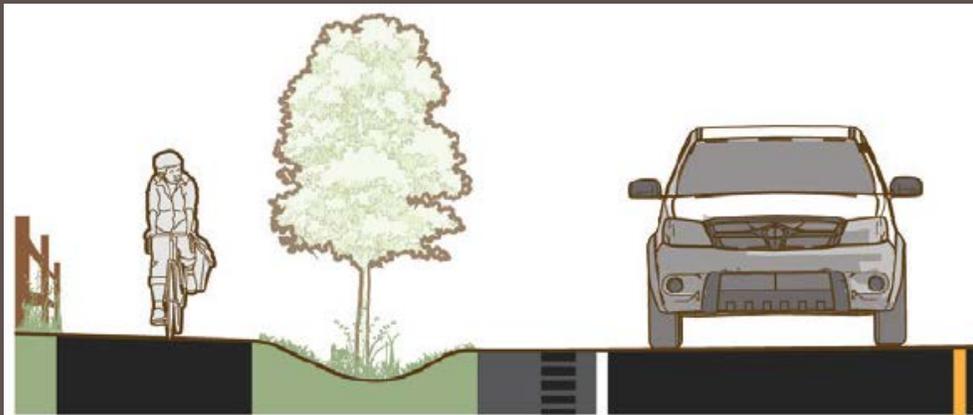


Figure 4-18. Separated bike lanes may be separated by an unpaved roadway separation, and a vertical element. When configured as directional facilities, separated bike lanes should be provided on both sides of the roadway.

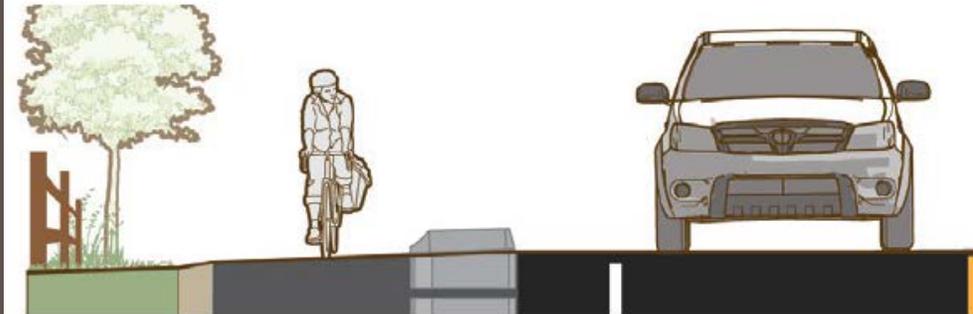
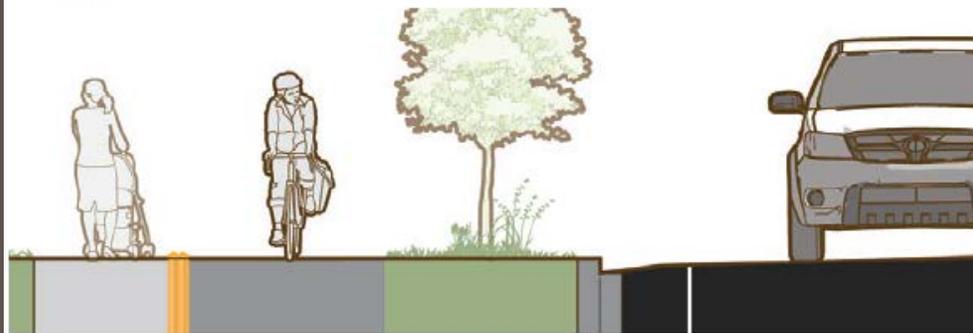


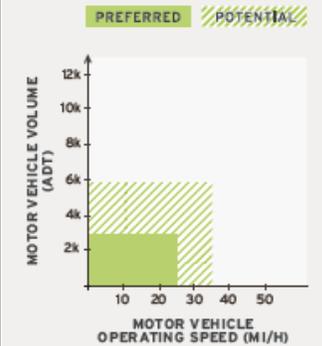
Figure 4-19. Separated bike lanes may be configured on an existing roadway surface by using a physical barrier such as a curb or median to separate the bikeway from the roadway.



## APPLICATION

### Speed and Volume

Most appropriate on streets with low to moderate volumes and moderate speed motor vehicles. (4)



### Network

Applies to constrained connections between built-up areas.



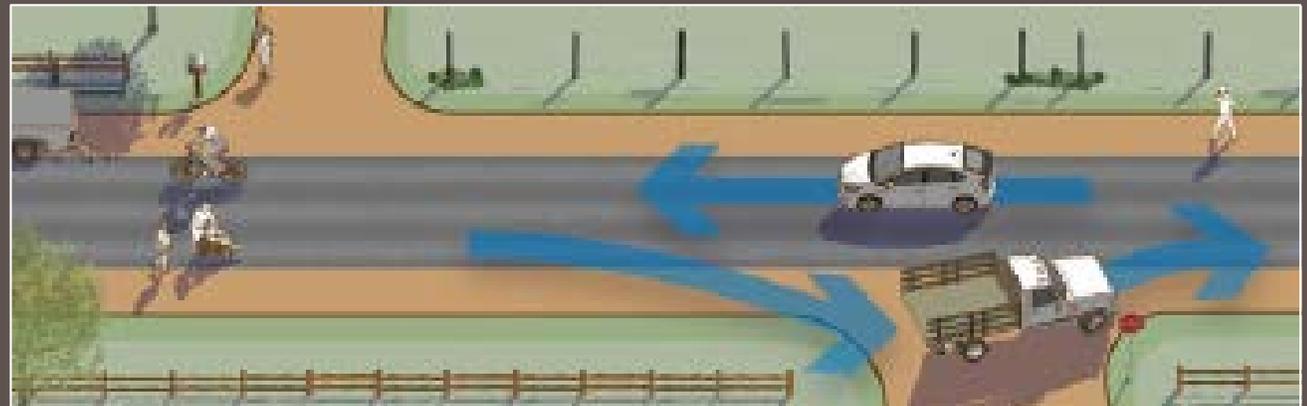
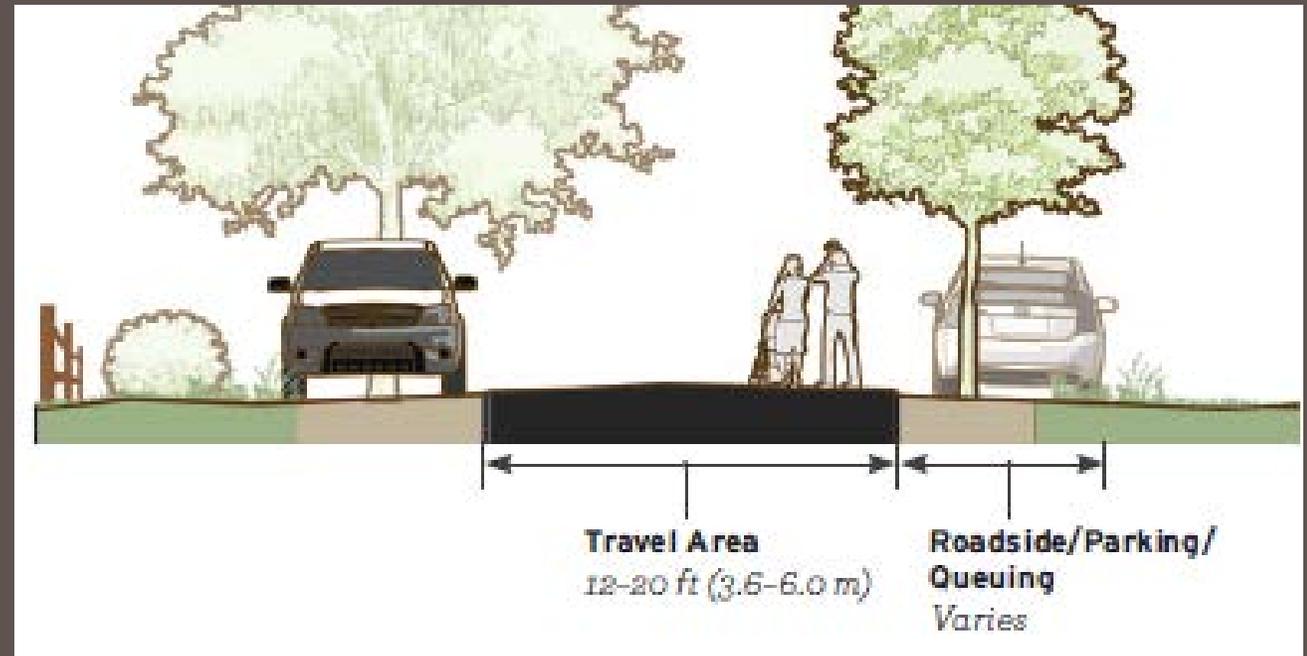
### Land Use

For use outside, between, and within built-up areas with bicycle and pedestrian demand and limited available paved roadway surface.



# Yield Roadway

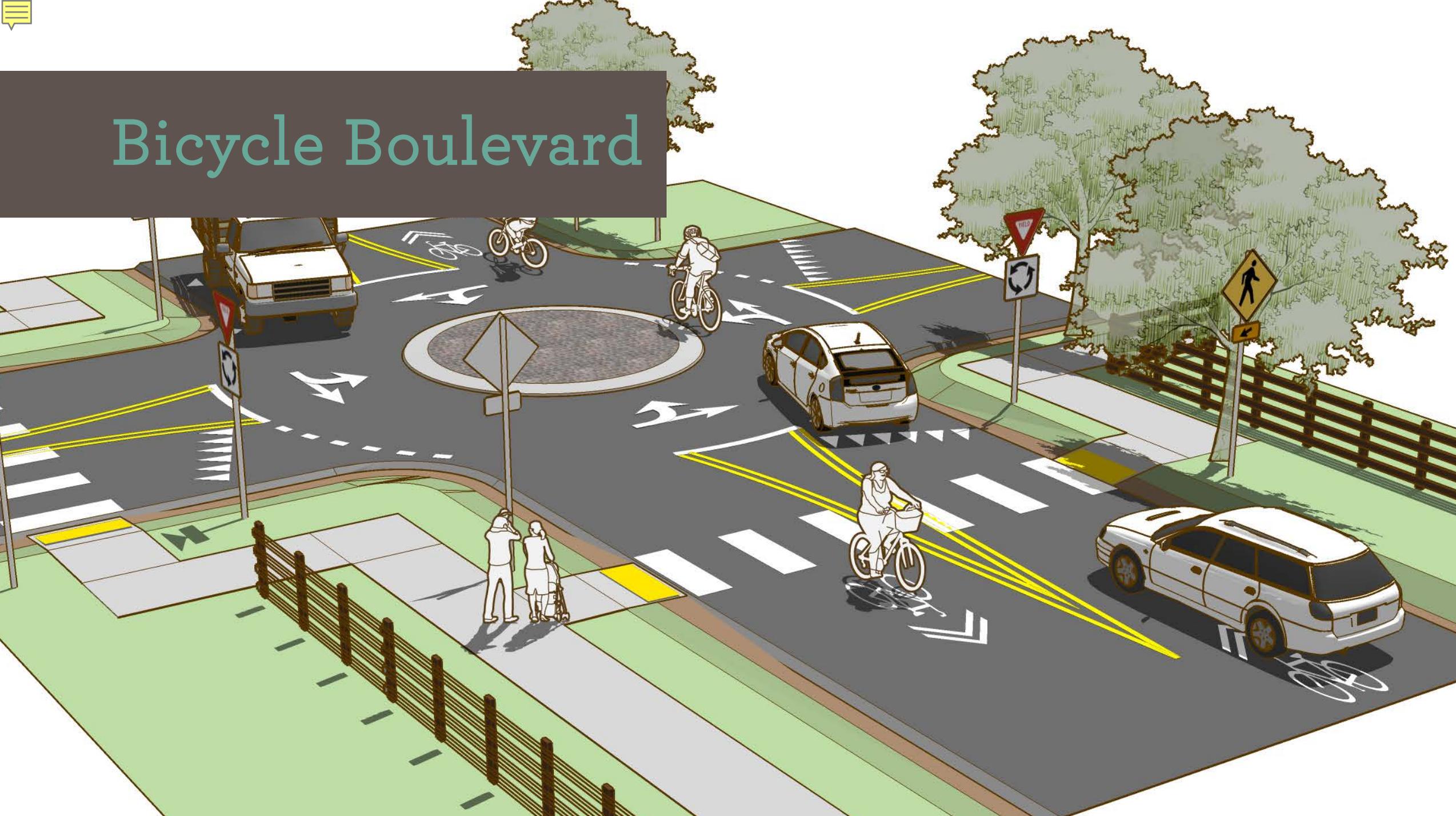
- *Designed to serve pedestrians, bicyclists, and motorists in a shared, slow-speed traveled way.*
- *Bi-directional, no lane markings.*





North Richland Hills, TX  
Population 67,000

# Bicycle Boulevard



# Bicycle Boulevard

- *Low-stress shared roadway bicycle facility, designed to offer priority movement for bicyclists*
- *Combine pavement markings, traffic calming measures, and crossing improvements to enhance bicyclist comfort*



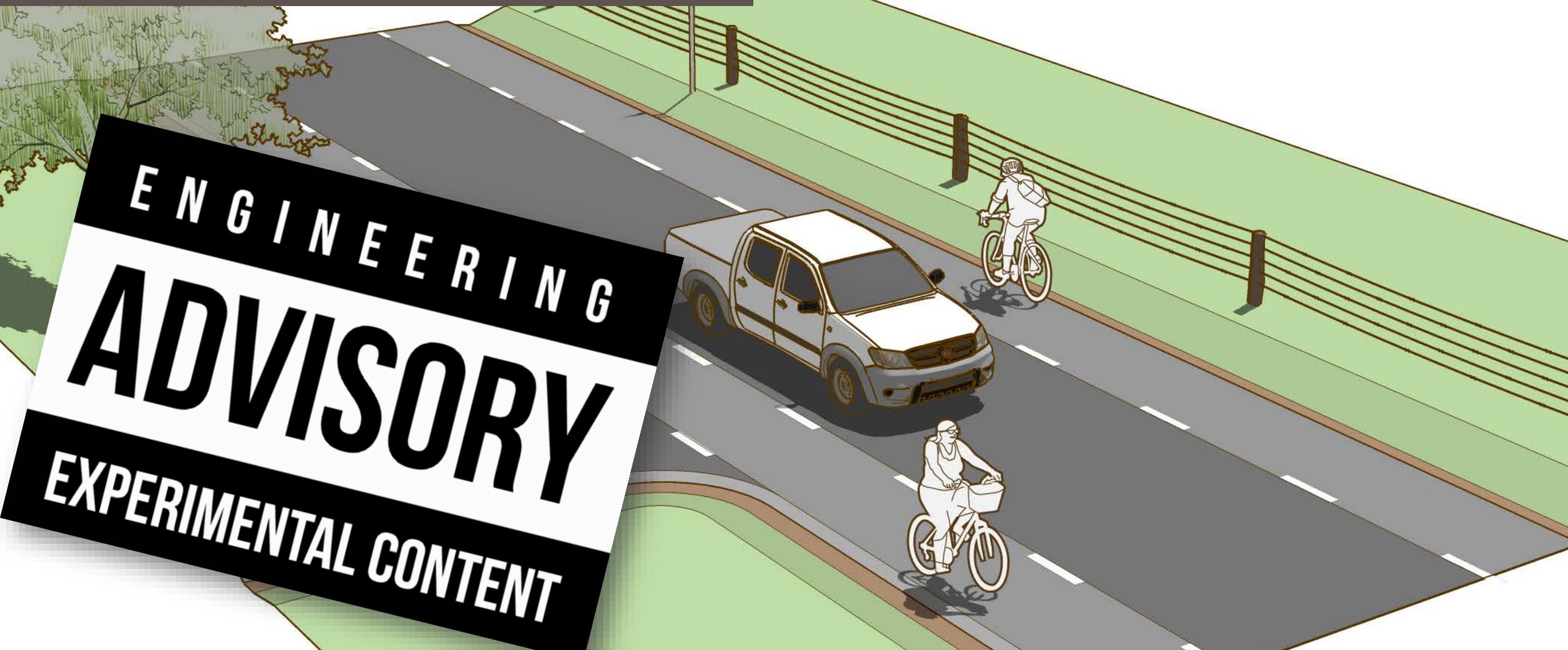


Wildwood, MO  
Population 35,000





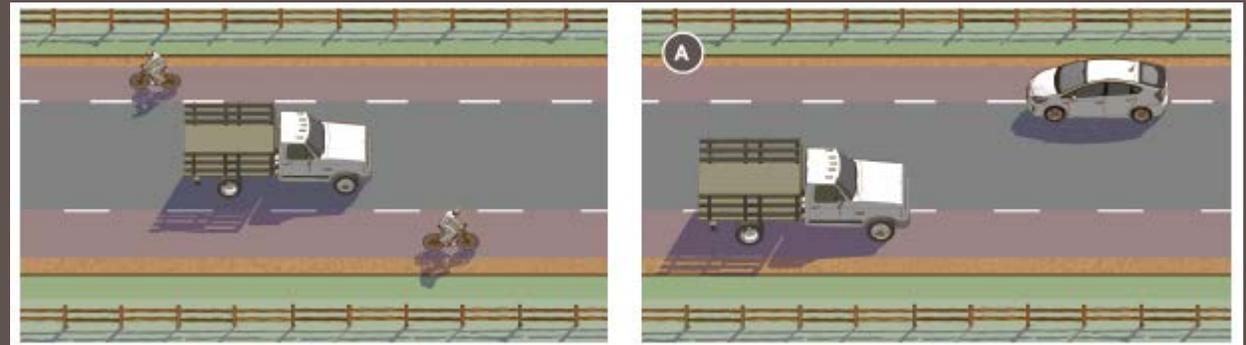
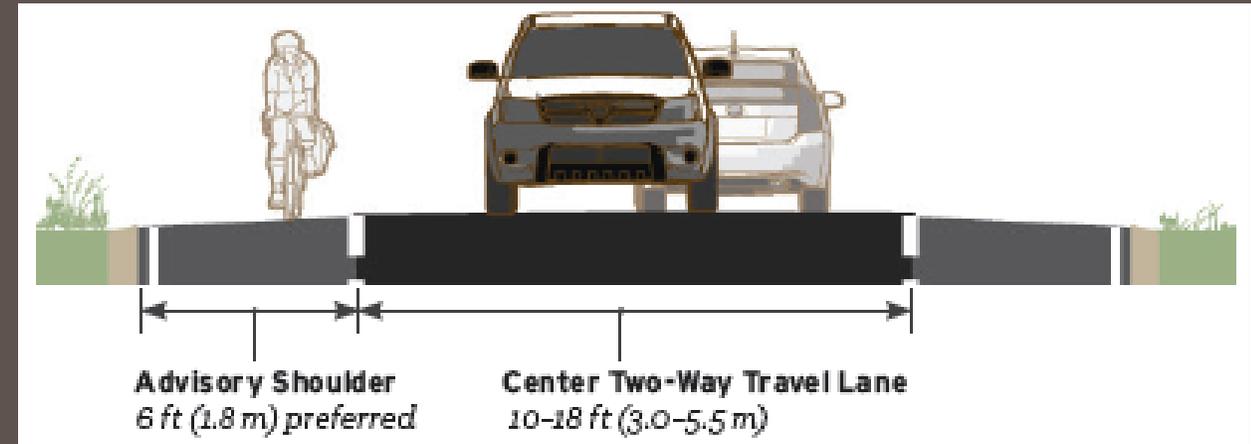
# Advisory Shoulder



**ENGINEERING**  
**ADVISORY**  
**EXPERIMENTAL CONTENT**

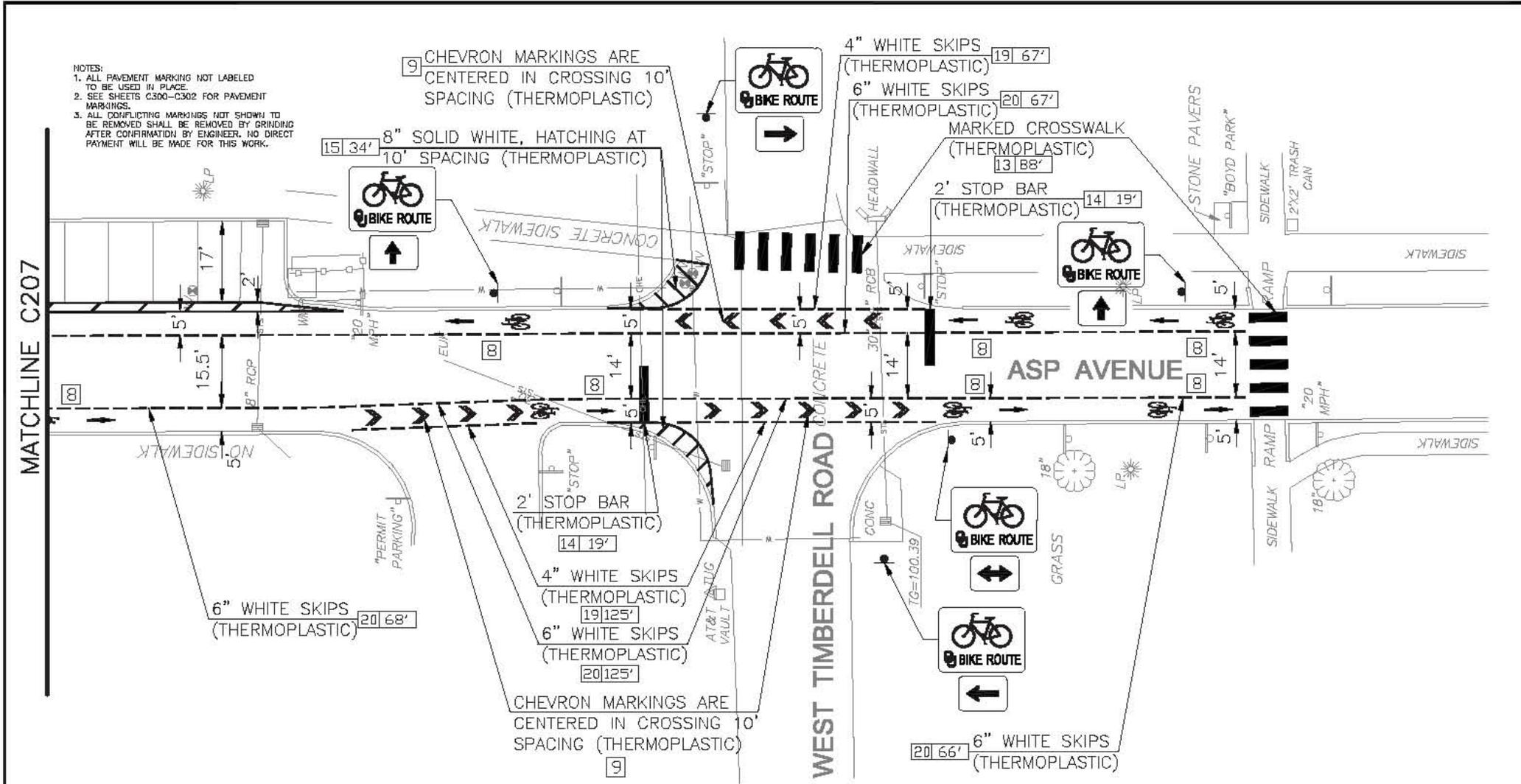
# Advisory Shoulder

- *Establishes a shoulder on an otherwise too narrow road*
- *Delineated by pavement markings*
- *Colored pavement optional*
- *Must exit shoulder to overtake bicyclists*
- *Must enter shoulder when yielding to oncoming traffic*



# Advisory Shoulder

- *Establishes a shoulder on an otherwise too narrow road*
- *Delineated by pavement markings*
- *Colored pavement optional*
- *Must exit shoulder to overtake bicyclists*
- *Must enter shoulder when yielding to oncoming traffic*



1 PAVEMENT MARKING PLAN  
PLAN



DESIGNED: PW	DRAWN: JH
REVIEWED: AZ	
SCALE: AS SHOWN	
2014.106	XXX
PROJECT NO.	DATE
2014-106.ASP.DWG	FILE

**alta**  
PLANNING + DESIGN  
www.altaengineering.com

6141 Swainley Ridge Parkway  
Suite 300  
Chattanooga, TN 37417  
p 424 302-6570

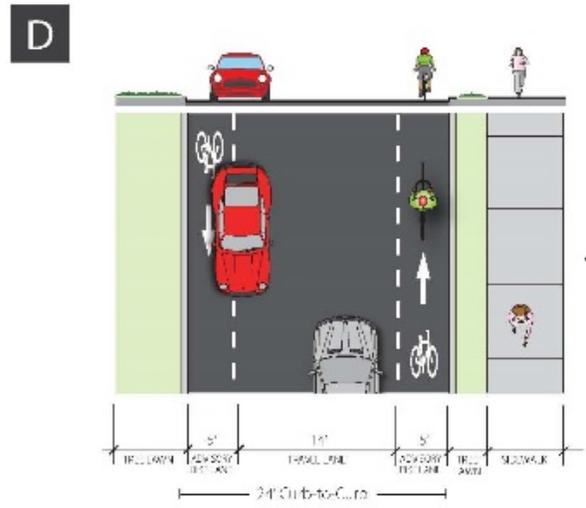
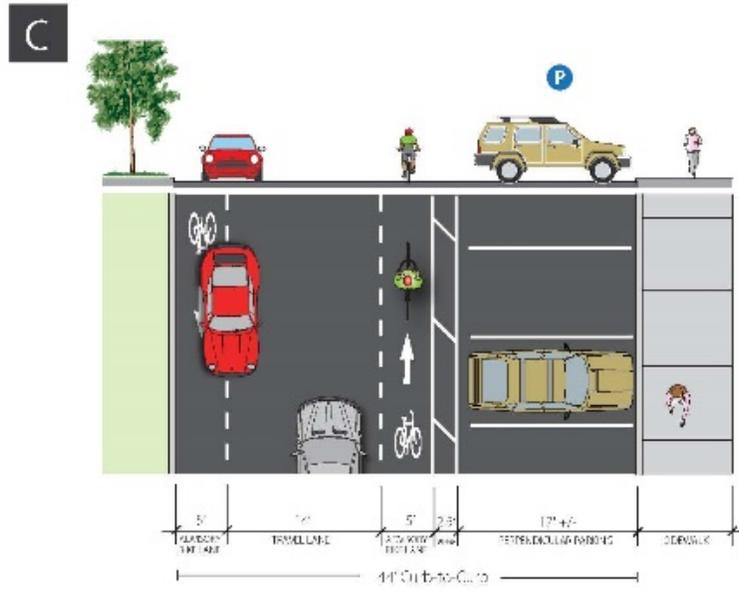


Professional Engineer  
Alicia M. Zimmerman  
27131  
7/16/14

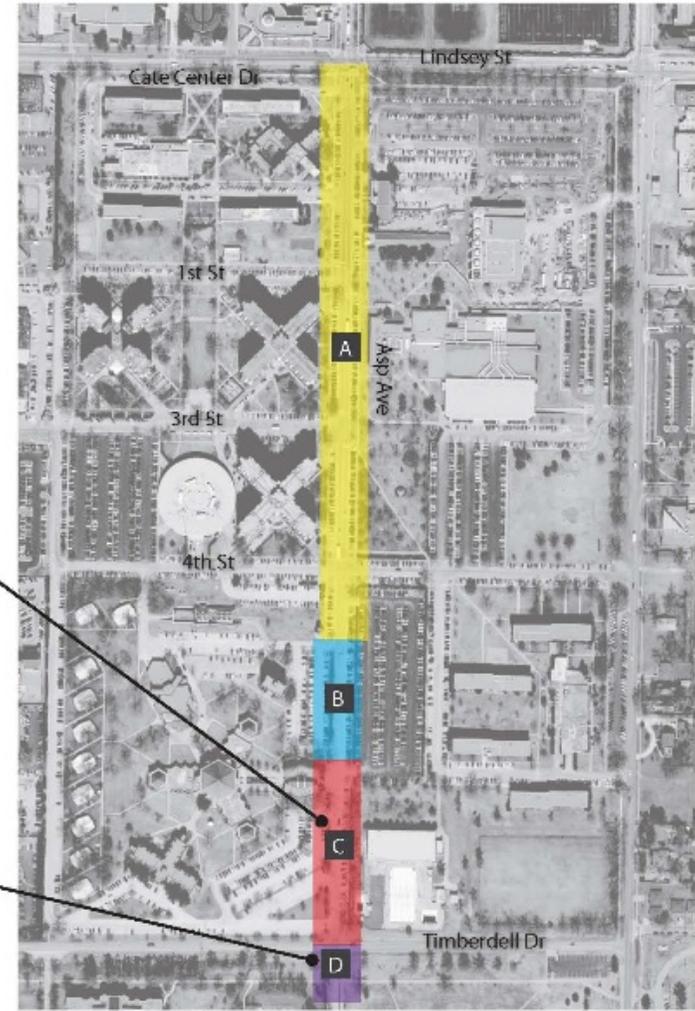
**OU BIKEWAY**  
**ASP AVENUE**  
NORMAN, OKLAHOMA

**BID DRAWINGS**

SHEET NO  
**C208**  
9 of 9



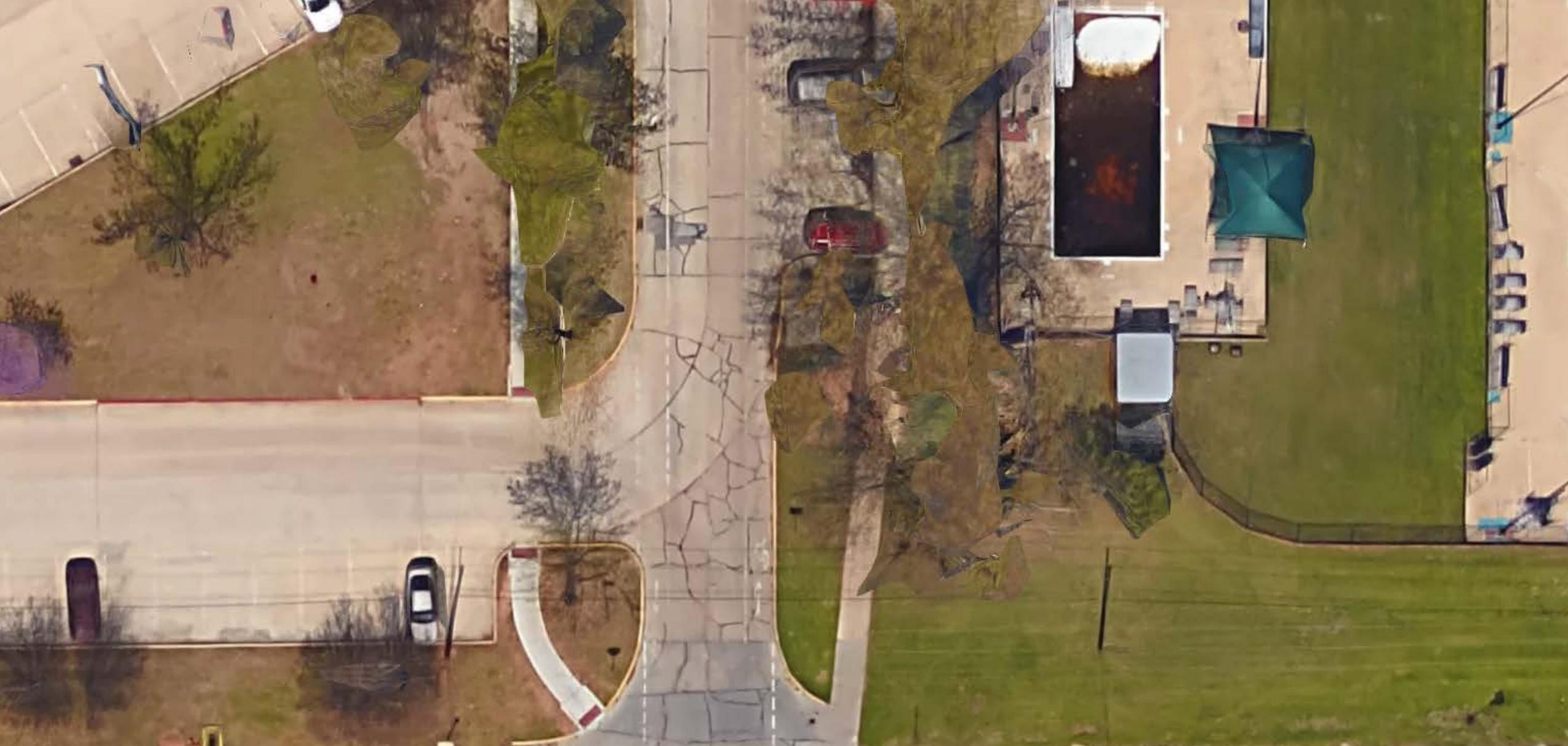
### PROJECT LOCATION



### ASP AVENUE: PROPOSED CROSS SECTIONS (2 of 2)

University of Oklahoma BMP Bikeway Implementation Phase I  
 Date: November 2012  
 Author: DM, Alta Planning + Design





Norman, OK  
Population 110,925

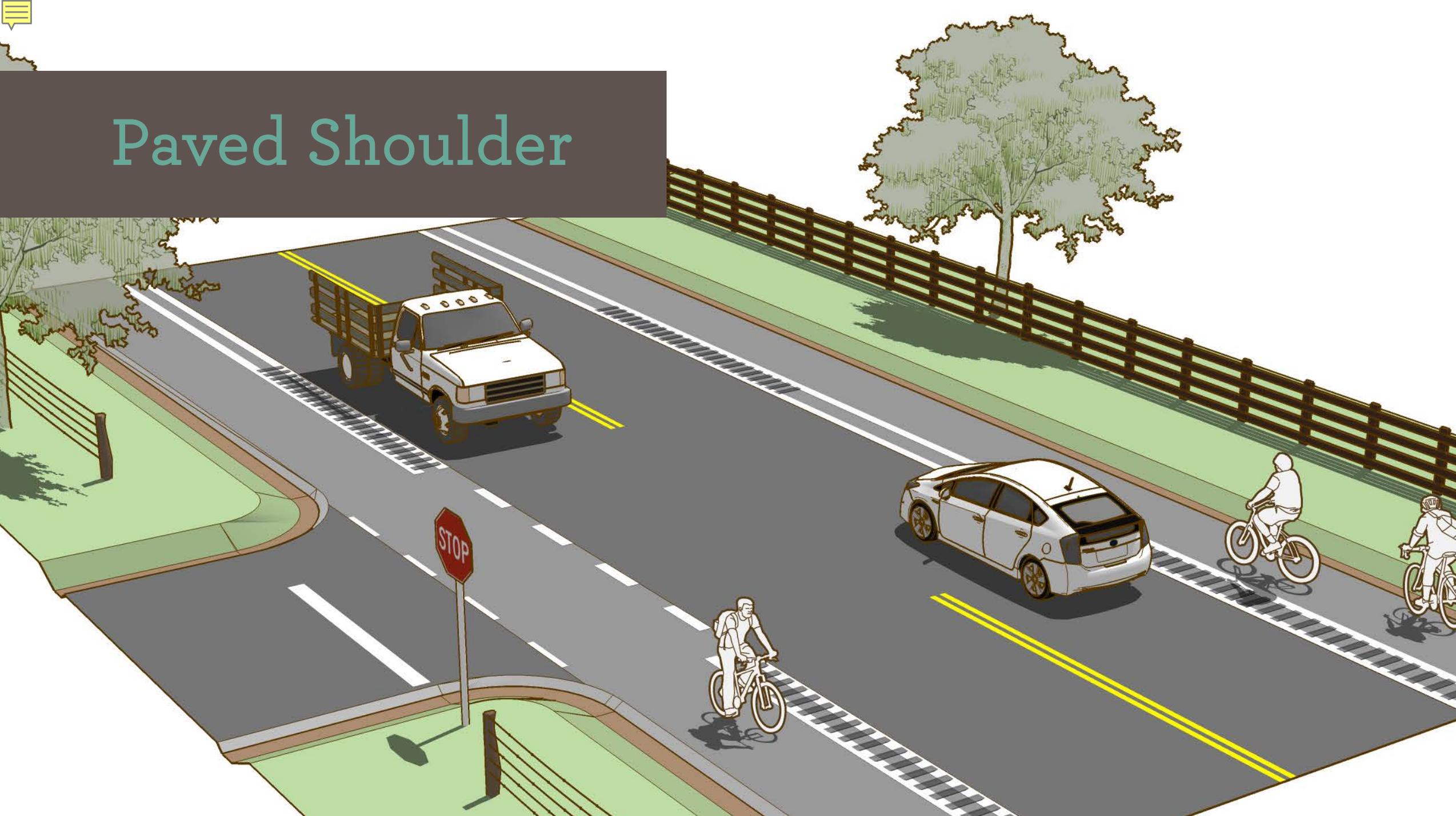


Bloomington, IN  
Population 82,575

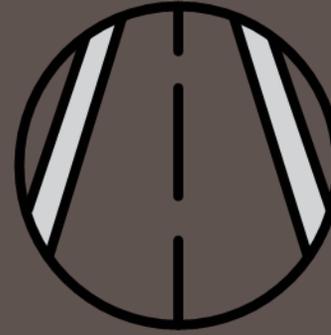


Edina, MN  
Population: 49,300

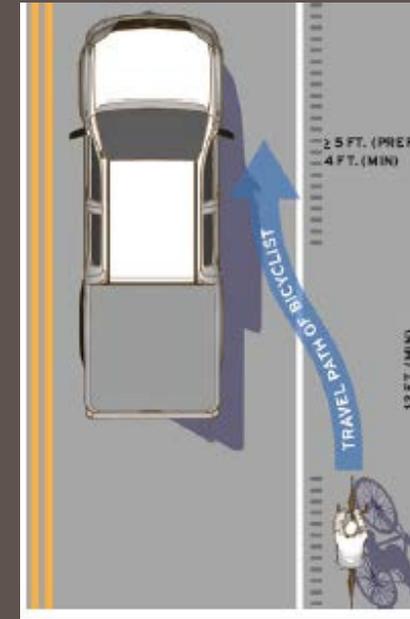
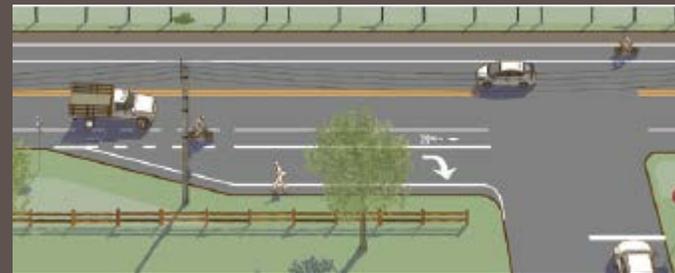
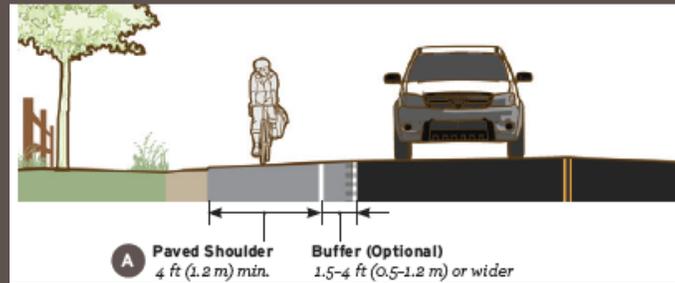
# Paved Shoulder



# Paved Shoulder



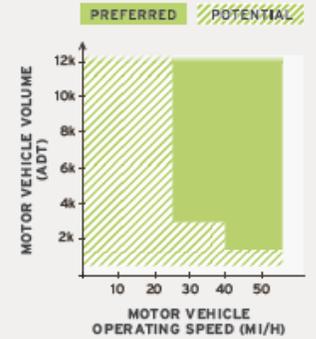
*Paved shoulders on the edge of roadways can be enhanced to serve as a functional space for bicyclists and pedestrians to travel in the absence of other facilities with more separation.*



## APPLICATION

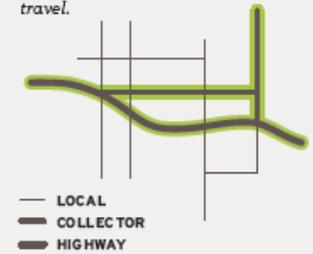
### Speed and Volume

Appropriate on roads with moderate to high volumes and speeds and on roadways with a large amount of truck traffic. May function on multilane roads with heavy traffic but fails to provide a low-stress experience in this condition.



### Network

Serves long-distance and regional travel.



### Land Use

Appropriate outside and within built-up areas, near school zones and transit locations, and where there is expected pedestrian and bicycle activity. Walkable shoulders should be provided along both sides of county roads and highways routinely used by pedestrians.





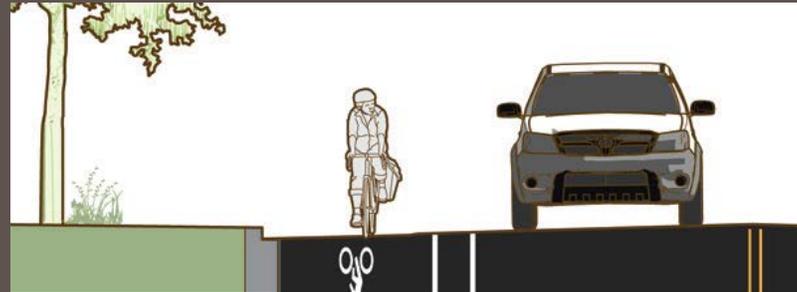
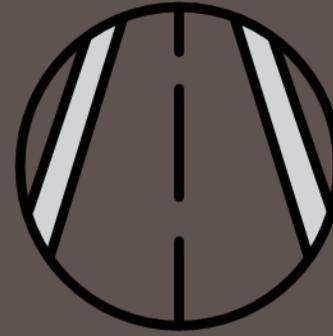
Lake St. Louis, MO Pop. 14,831



Rte. 100 - Wildwood, MO - Pop. 35,000

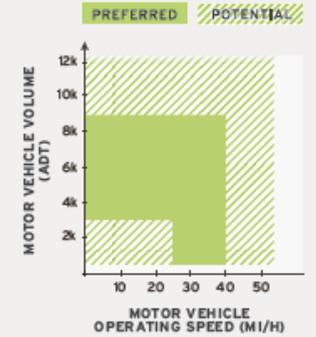
# Bike Lane

*Bike lanes designate an exclusive space for bicyclists through the use of pavement markings and optional signs. A bike lane is located directly adjacent to motor vehicle travel lanes and follows the same direction as motor vehicle traffic.*

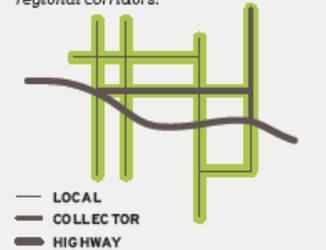


## APPLICATION

**Speed and Volume**  
 Appropriate on streets with moderate volumes and moderate speed. May function on multilane streets with heavy traffic but fails to provide a low-stress experience in this condition, which would appeal to larger numbers of bicyclists.



**Network**  
 Serves moderate distance trips connecting local bikeway routes to regional corridors.



**Land Use**  
 For use inside or between, built-up areas where increased pedestrian and/or bicycle activity is present or expected.





Old Rte. 66 in Wildwood, MO  
Population: 35,000

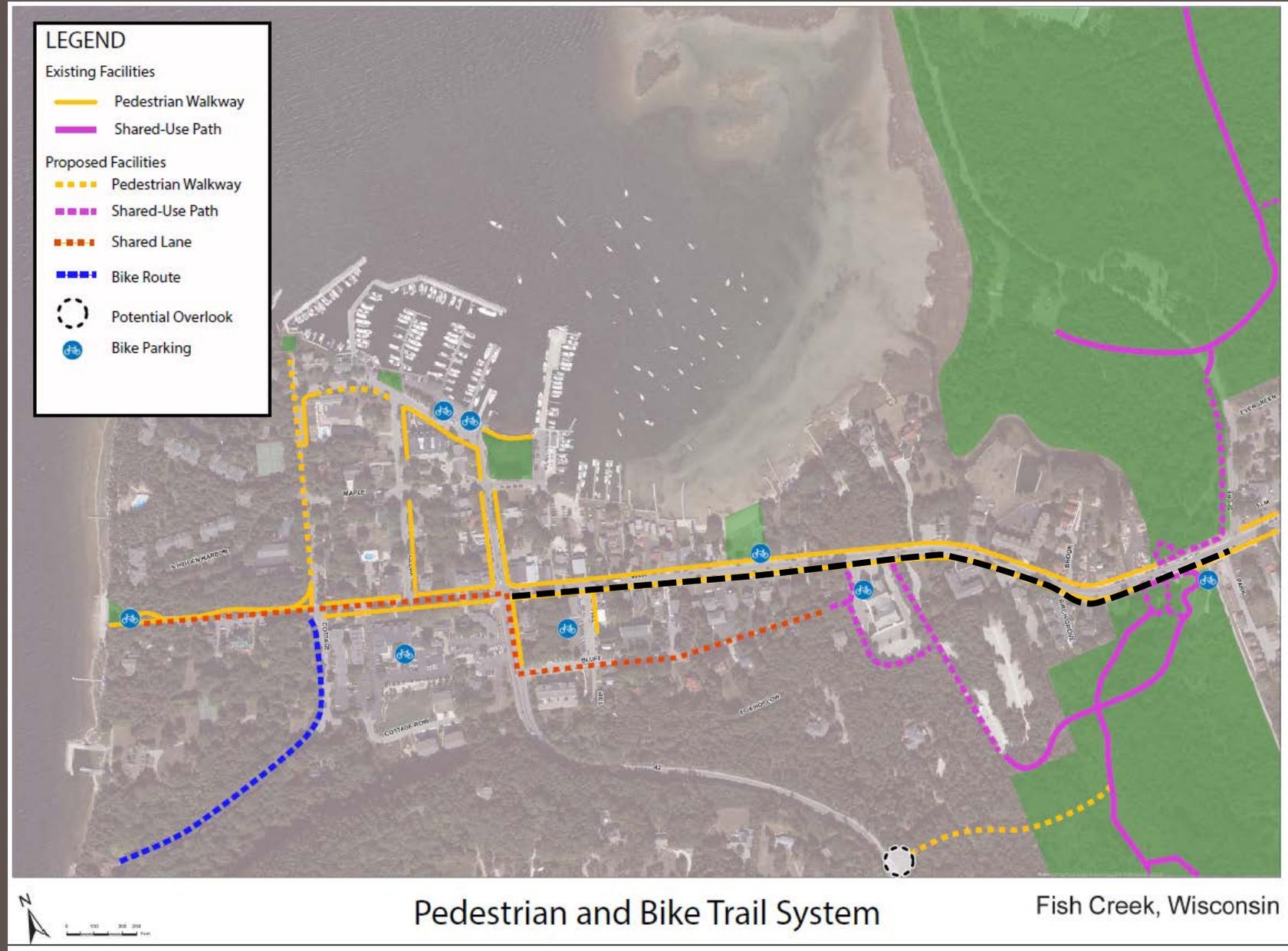
# Fish Creek, WI

- *Busy, seasonal STH corridor links most popular State Park to Downtown shopping district*
- *Previous study identifies potential for converting parking to on-street bike path*



# Proposed Demonstration:

- Create a mixed facility loop
- Convert 1 parking lane to seasonal on-street bike lane (demonstration)



Pedestrian and Bike Trail System

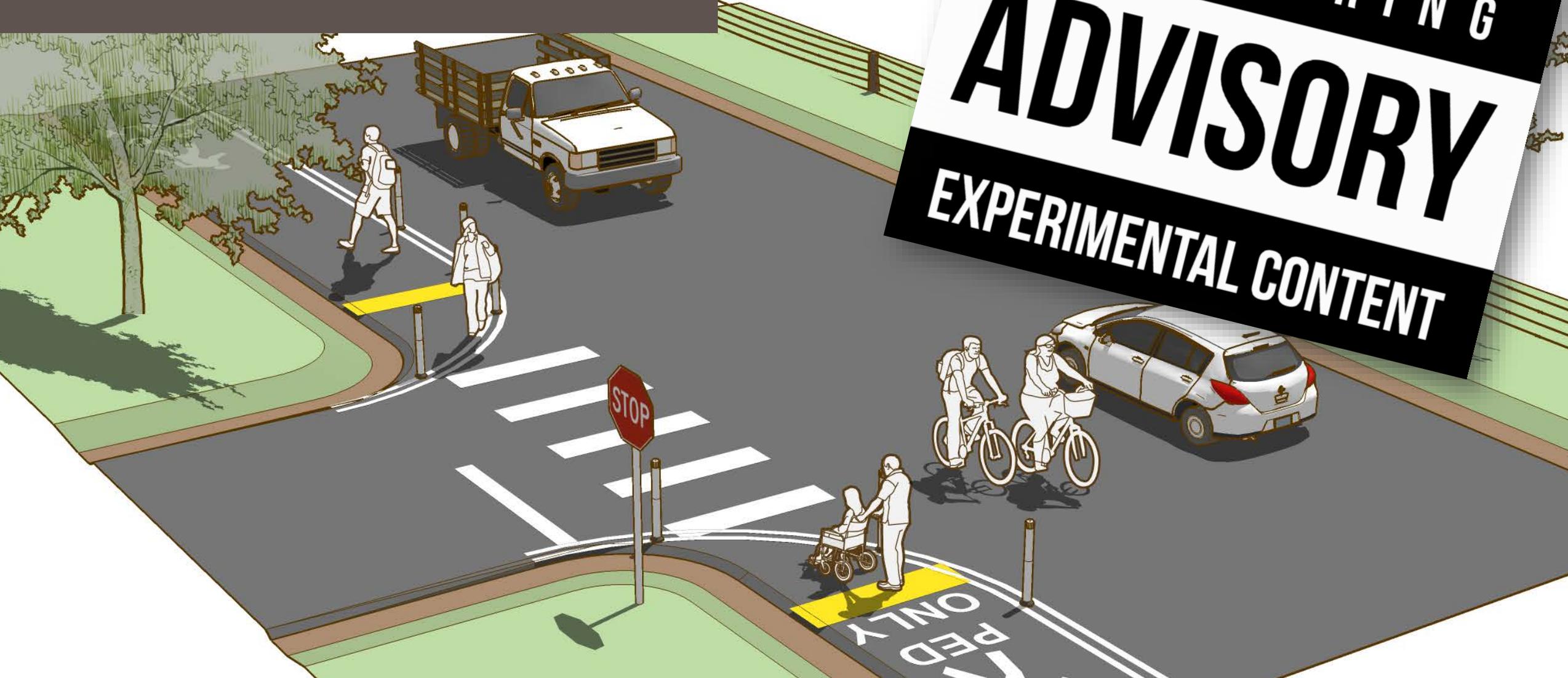
Fish Creek, Wisconsin

## Morgan Hill, CA

- 6-month pilot of road diet alternatives
- Temporary pedestrian space & buffered bike lane
- Feedback collected
- Evaluation report



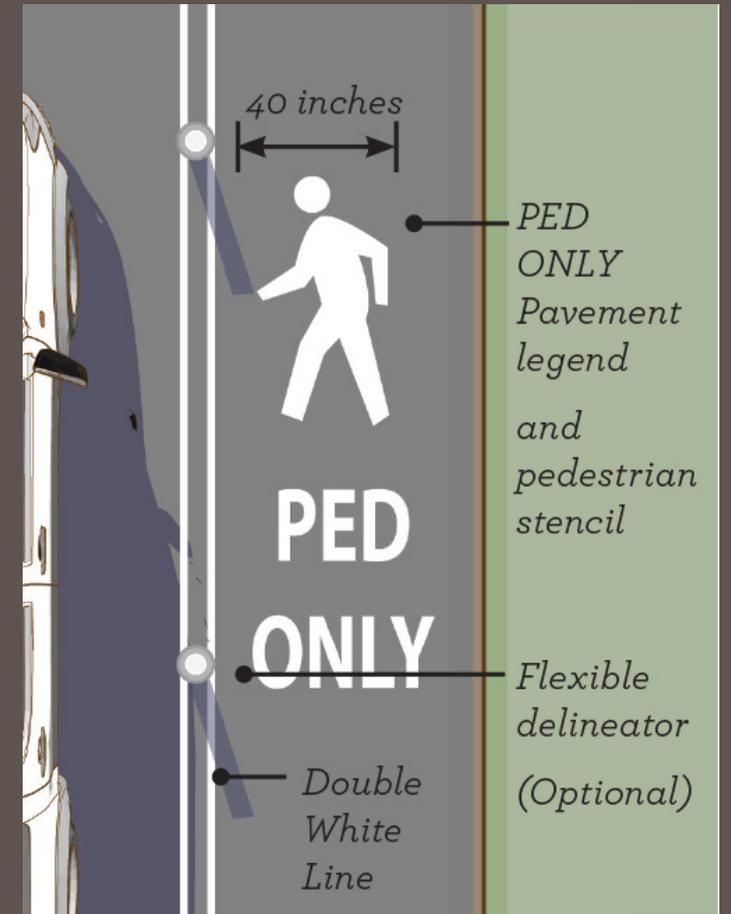
# Pedestrian Lane



ENGINEERING  
**ADVISORY**  
EXPERIMENTAL CONTENT

# Pedestrian Lane

*A pedestrian lane is an interim or temporary pedestrian facility that may be appropriate on roads with low to moderate speeds and volumes. The lane may be on one or both sides of the roadway and can fill gaps between important destinations in a community.*



# Pedestrian Lane

Pedestrian lanes provide interim or temporary pedestrian accommodation on roadways lacking sidewalks. They are not intended to be an alternative to sidewalks and often will fill short gaps between other higher quality facilities. As part of the planning process, agencies should explore issues and the potential challenges a pedestrian lane may face, including:

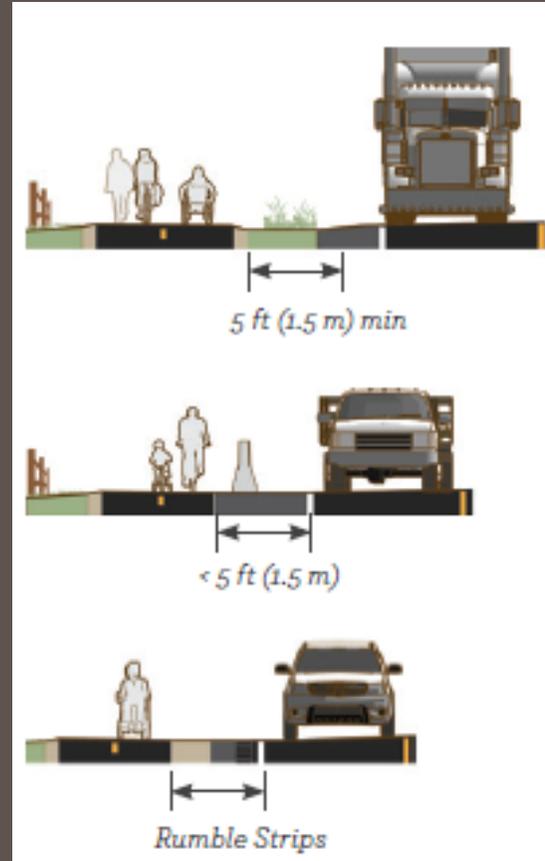
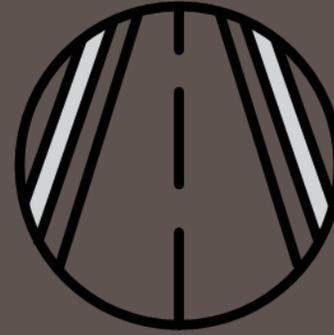
- Detectability by people with vision disabilities
- Undesired use by bicyclists
- Accessible cross-slope requirements
- Maintenance strategies, such as sweeping and snow removal



Detroit, OR  
Population: 200

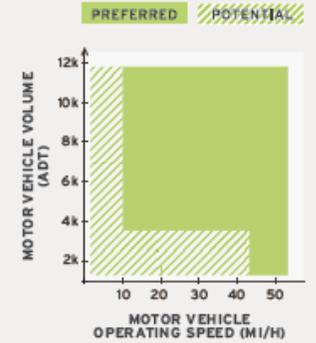
# Sidepath

*A sidepath is a bidirectional shared use path located immediately adjacent and parallel to a roadway. Sidepaths can offer a high-quality experience for users of all ages and abilities as compared to on-roadway facilities in heavy traffic environments, allow for reduced roadway crossing distances, and maintain rural and small town community character.*



## APPLICATION

**Speed and Volume**  
For use on roads with high volumes, and moderate-to high-speed motor vehicle traffic.



**Network**  
For use on arterial links on the regional or local biking and walking network



**Land Use**  
For use inside of built-up areas to provide a dedicated space for pedestrians.



# Sidepath

Town and Country, MO  
Population: 10,975



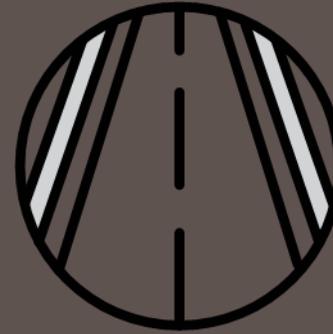
Sidewalk

South Lake Tahoe, CA  
Population: 20,100

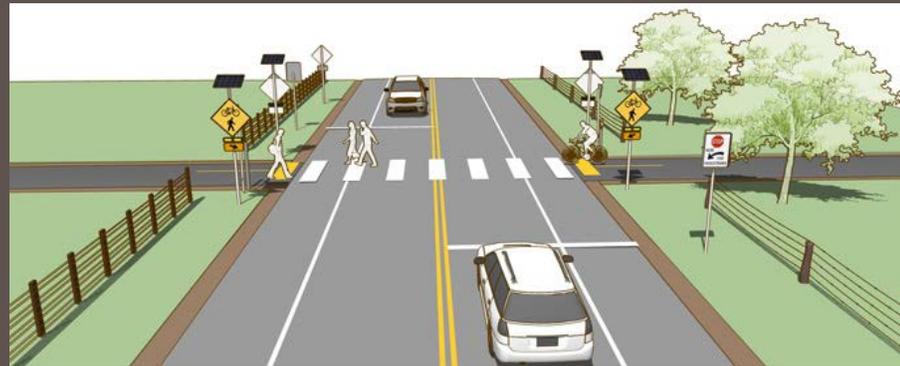
Photo by Tahoe Regional Planning Association (TRPA)

# Shared Use Path

*A shared use path provides a travel area separate from motorized traffic for bicyclists, pedestrians, skaters, wheelchair users, joggers, and other users. Shared use paths can provide a low-stress experience for a variety of users using the network for transportation or recreation.*



Shared Use Path Guidance



Street Crossing Guidance

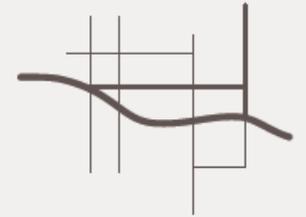
## APPLICATION

### Speed and Volume

*Paths operating in independent corridors are fully separated from traffic. Facility provision is based on opportunity and connectivity rather than roadway context. In some cases, an independent corridor may offer similar connectivity and access to destinations as a nearby roadway.*

### Network

*Serves connections independently of the street network. May function as a network alternative road and highway connections.*



### Land Use

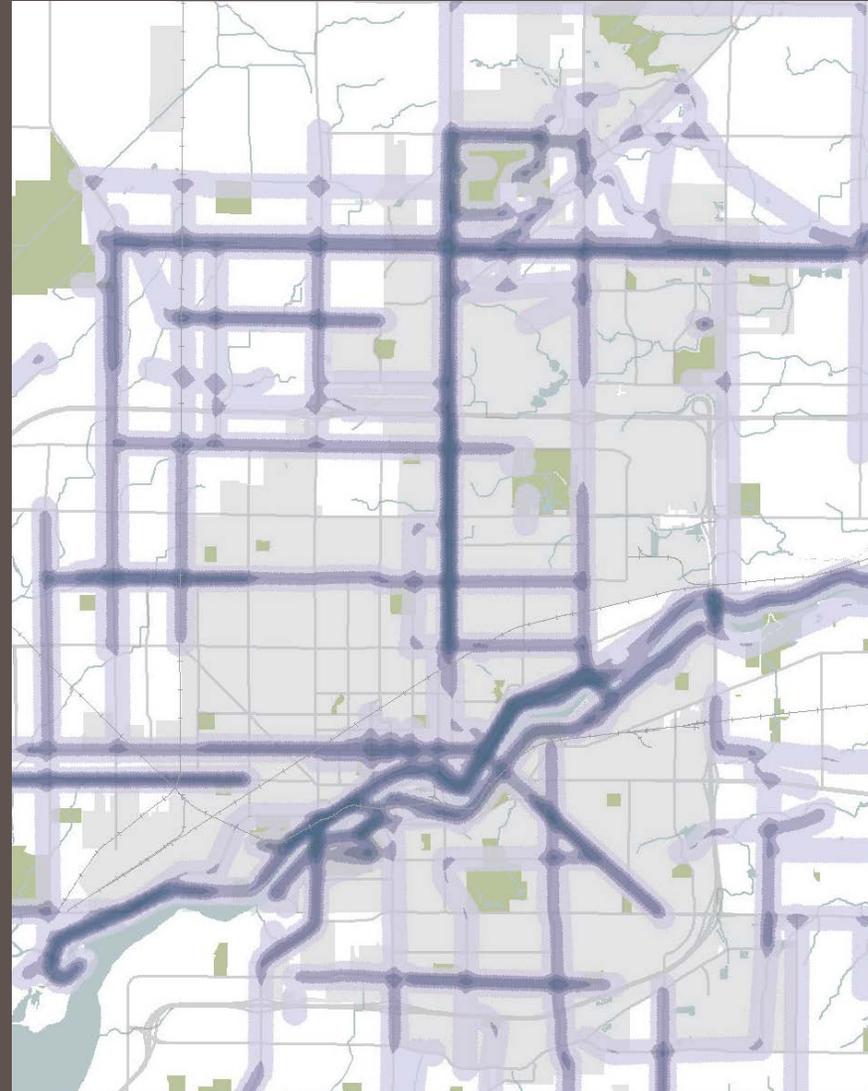
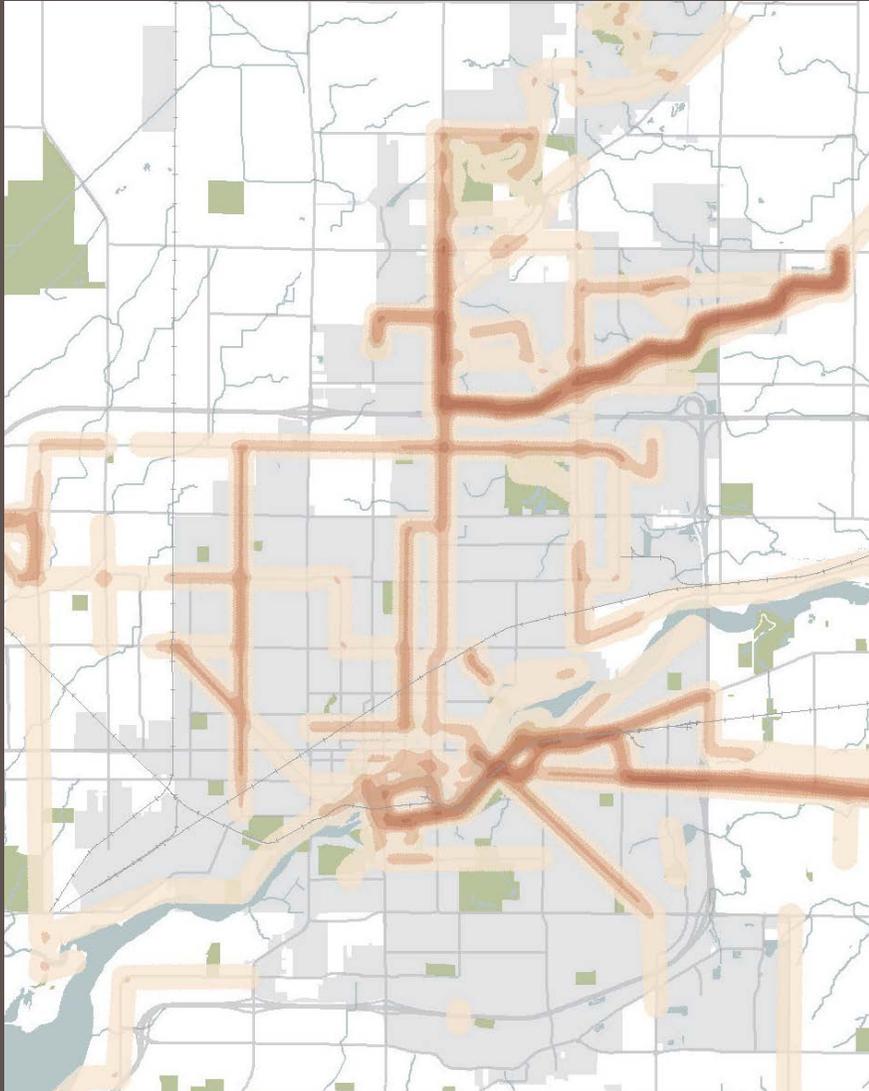
*Generally appropriate outside of built-up areas, and also as a corridor connection within built-up areas.*





# Appleton Trails Master Plan

Appleton, WI



# Appleton Trails Master Plan

Appleton, WI



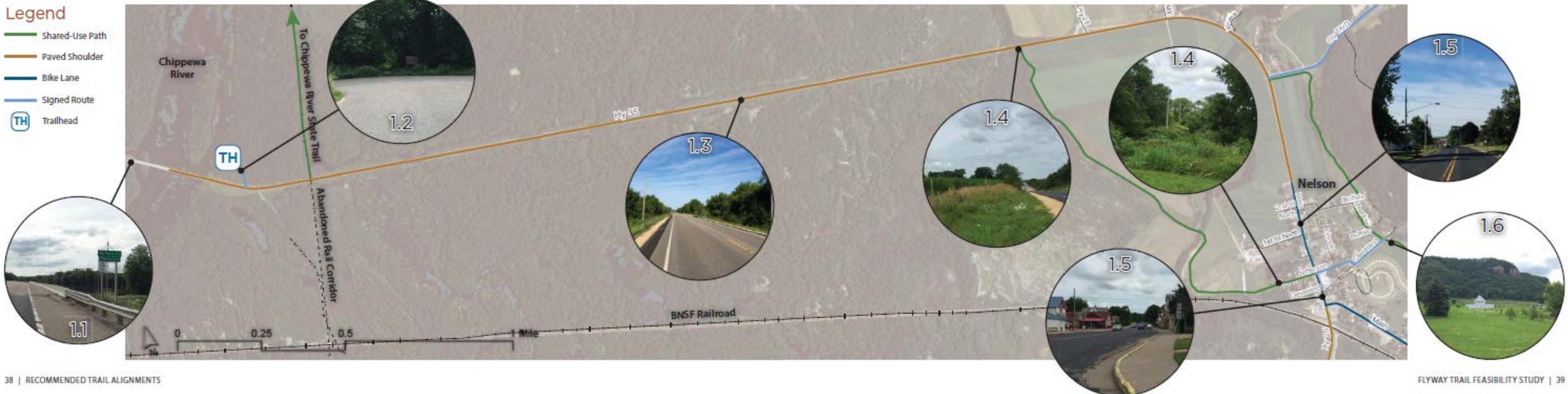
# Shared Use Path



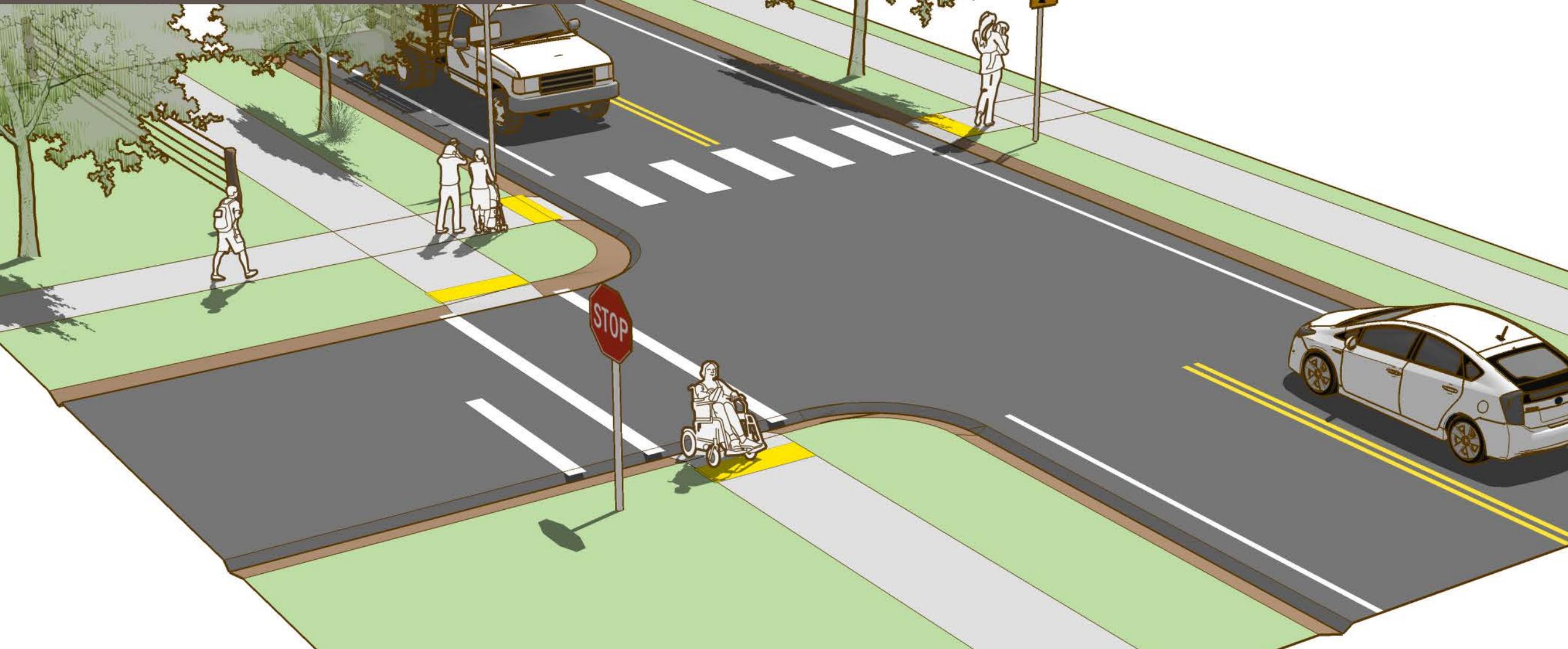
Marion, IA  
Population: 36,000

# Flyway Trail Feasibility Study Buffalo County, WI

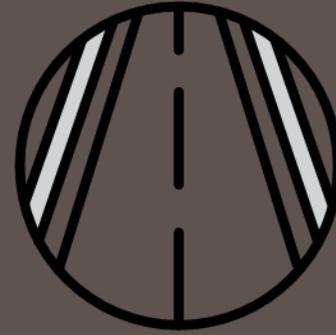
- Crowdfunded study
- Part of Mississippi River Trail (MRT)
- Currently mostly on-street
- Draft alignment, facility type
- Cost estimates
- Funding and administrative structure for implementation



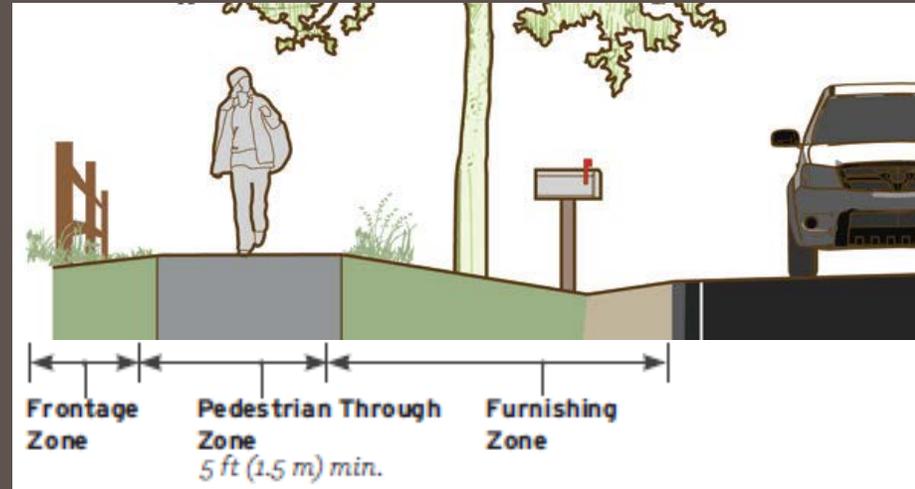
# Sidewalk



# Sidewalk



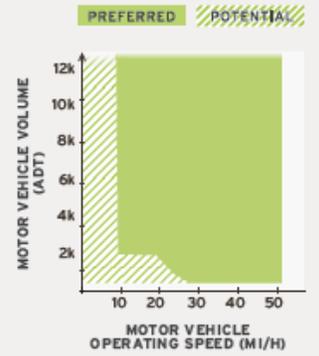
*Sidewalks provide dedicated space intended for use by pedestrians that is safe, comfortable, and accessible to all. Sidewalks are physically separated from the roadway by a curb or unpaved buffer space.*



## APPLICATION

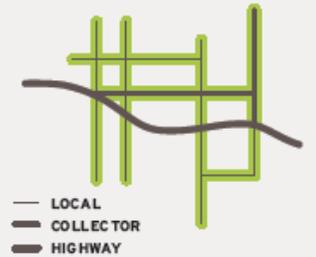
### Speed and Volume

Sidewalks are recommended on all but the most low-speed and low-volume roadways.



### Network

Sidewalks are appropriate on all types of roadways where pedestrian activity is likely.

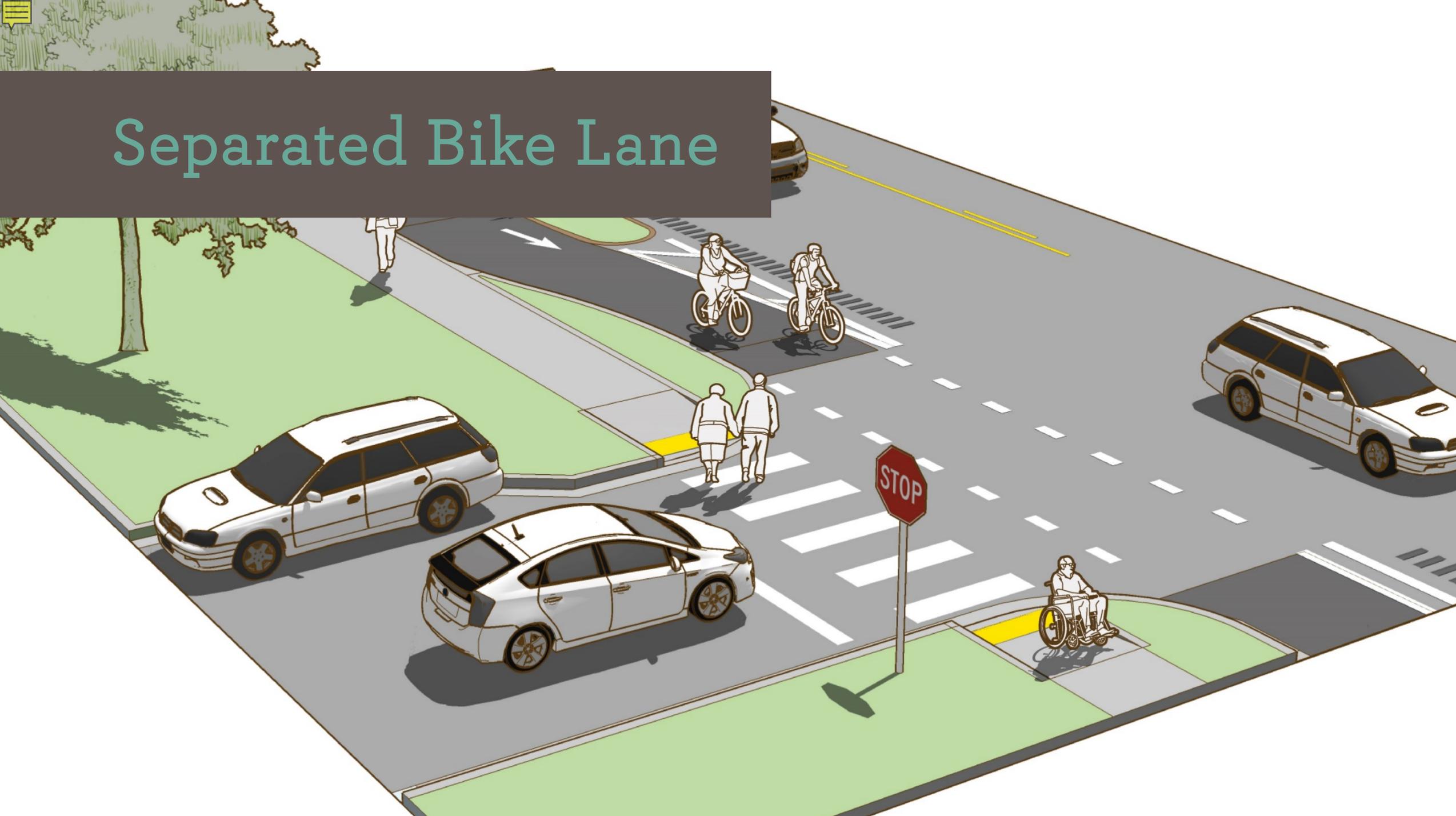


### Land Use

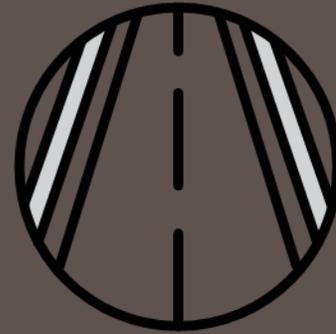
Appropriate inside of built-up areas. May serve short distance travel between built-up areas, e.g., along or near highways in rural areas near pedestrian-generating development, such as neighborhoods, schools, and businesses.



# Separated Bike Lane



# Separated Bike Lane



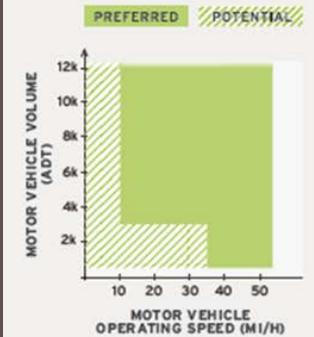
*A separated bike lane is a facility for exclusive use by bicyclists that is located within or directly adjacent to the roadway and is physically separated from motor vehicle traffic with a vertical element.*



## APPLICATION

### Speed and Volume

For use on roads with high motor vehicle volumes, and moderate to high-speed motor vehicle traffic.



### Network

Serves primary connections on major roads through and across communities.



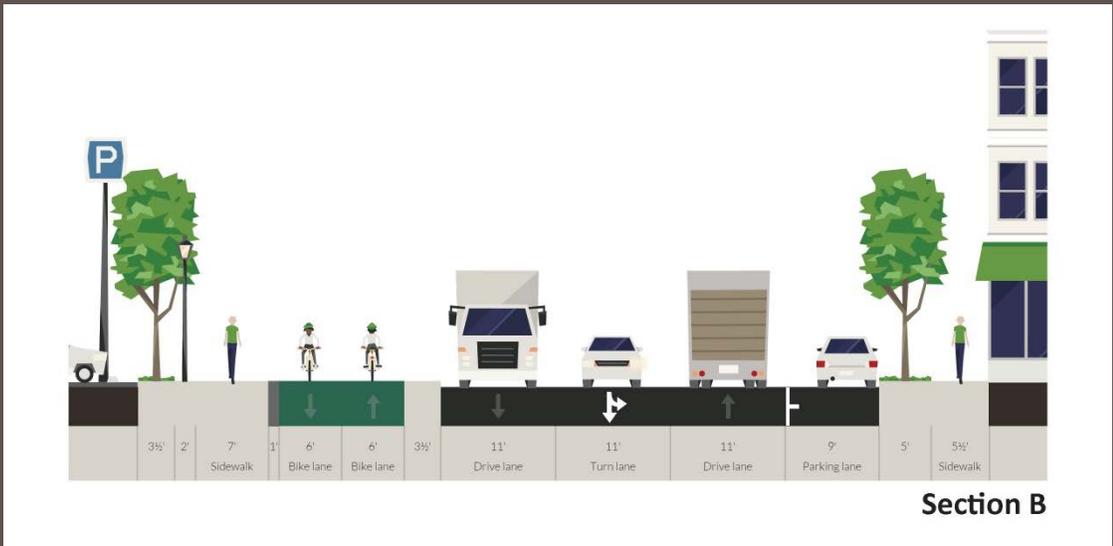
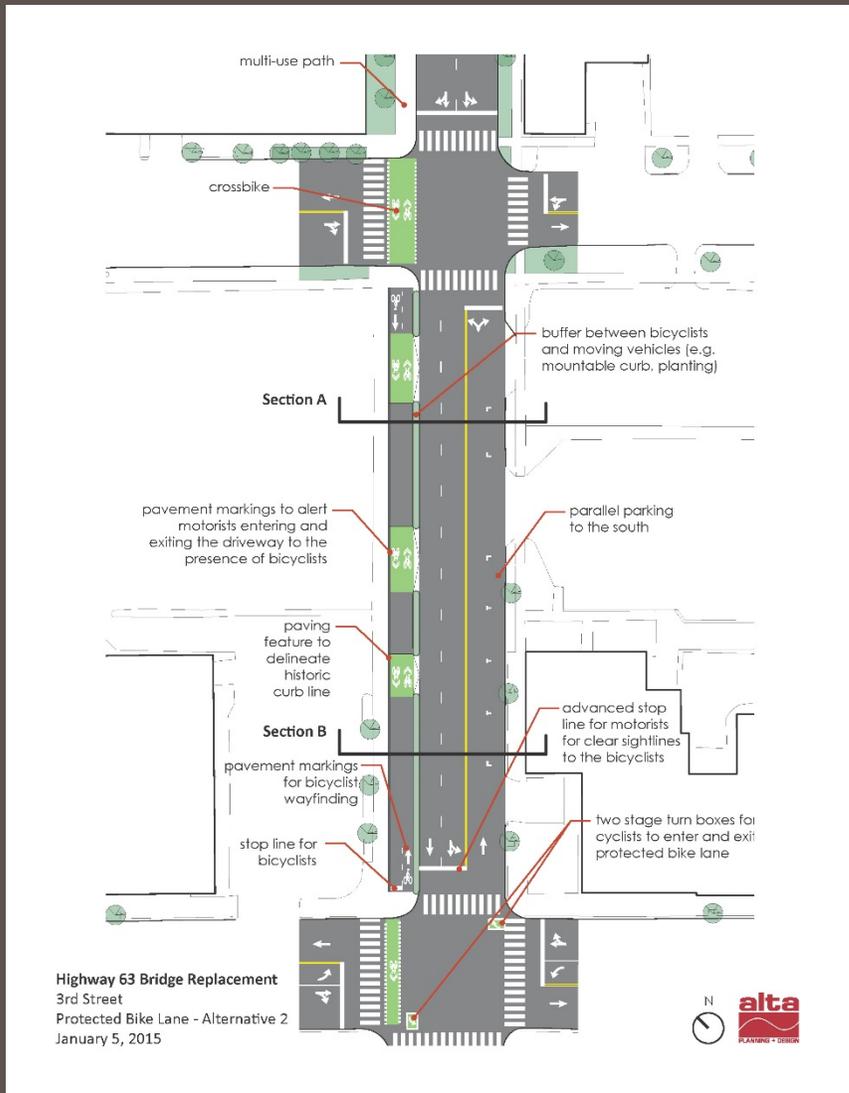
### Land Use

For use inside built-up areas where a moderate to high volume of bicyclists and pedestrians is expected.



# West 3<sup>rd</sup> Street Protected Bike Lane

## Red Wing, MN



# West 3<sup>rd</sup> Street Protected Bike Lane

Red Wing, MN





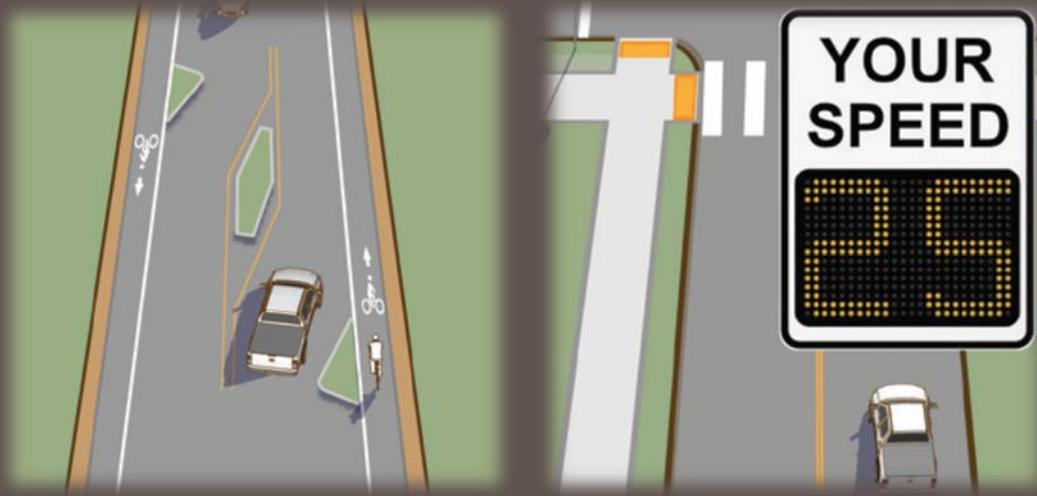
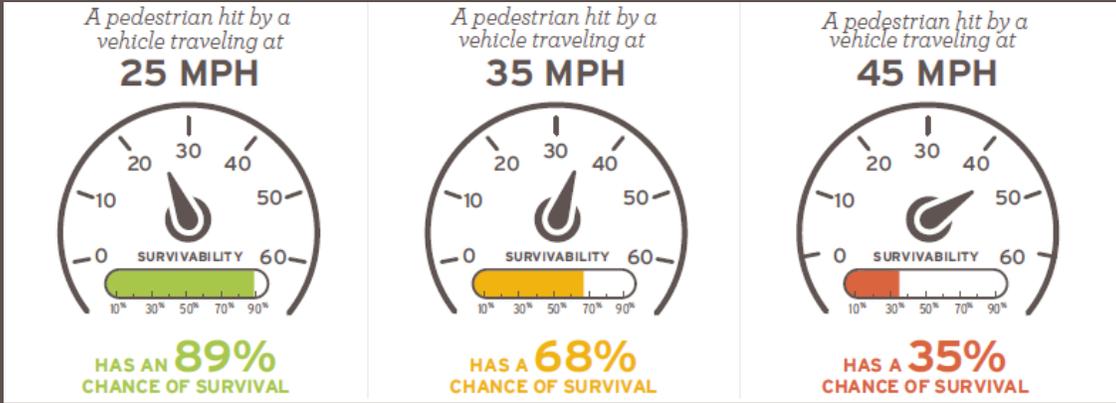
Jackson Hole, WY  
Population: 9,600

# Network Opportunities

- Speed Management
- Pedestrian Lane
- School Connections
- Multimodal Main Street
- Bridges
- Access to Public Lands

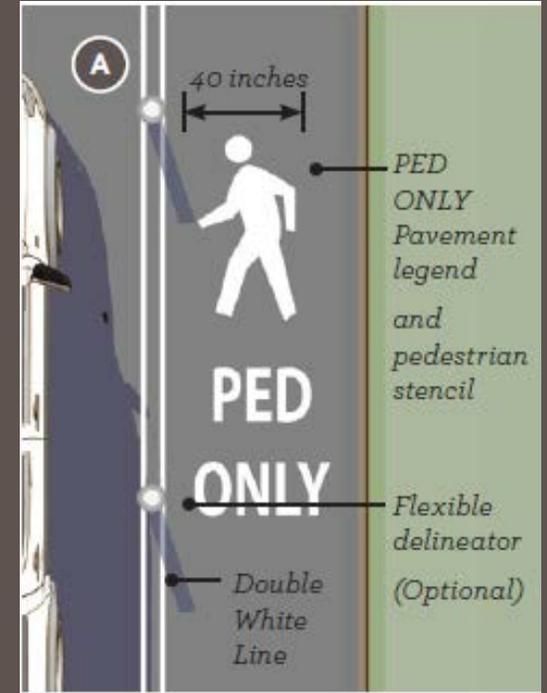


# Speed Management



# Pedestrian Lanes

- Interim or temporary pedestrian accommodation on roadways lacking sidewalks.
- Not intended to be an alternative to sidewalks and often will fill short gaps between other higher quality facilities.
- Explore issues and the potential challenges a pedestrian lane may face.



Clayton, MO  
Pop.13,000

# School Connections

- Schools are key destinations in communities of all sizes.
- This is particularly true in small and rural places, where they often play a prominent role in the community as centers of activity for people of all ages and abilities.
- It is essential to provide separation from motorized traffic, controlled crossings, and wayfinding.



Opportunity  
for activity



Design for  
children



Centers of  
community

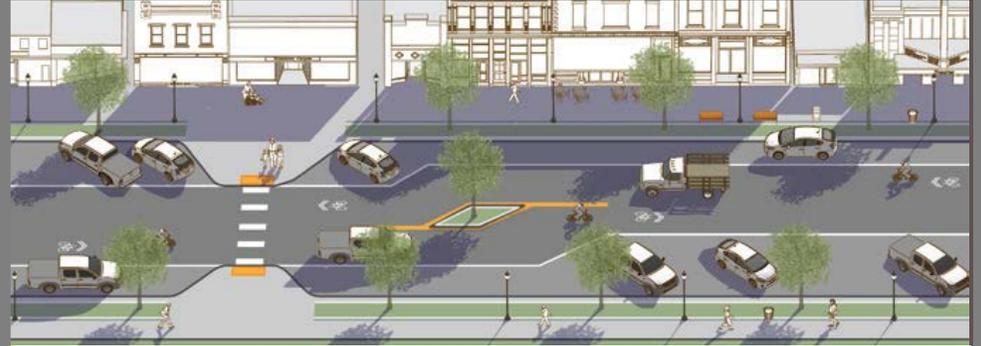


Multimodal  
network



School  
location

## TWO-LANE STREET SCENARIOS



## FOUR-LANE STREET SCENARIOS



## FIVE-LANE STREET SCENARIOS



# Bridges

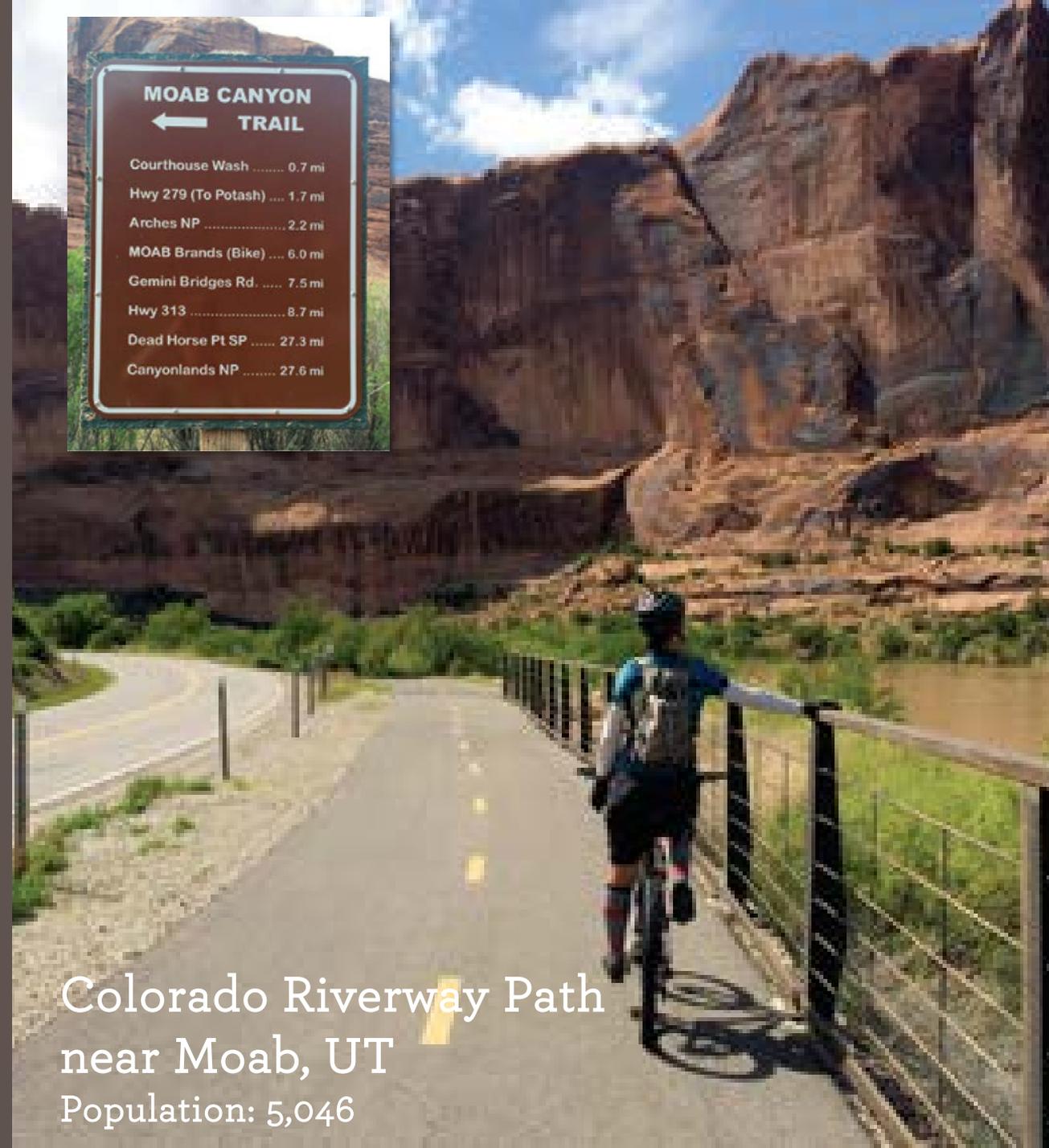
- Separation
- Prioritize
- Awareness
- Continuity
- Future Proof
- Flexibility



Decorah, IA  
Population: 8,127

# Access to Public Lands

- Scenic places, sometimes unique need for wayfinding
- Opportunities for more diverse funding sources:
  - Federal Lands Transportation Program (FLTP)
  - Federal Lands Access Program (FLAP)



Colorado Riverway Path  
near Moab, UT  
Population: 5,046

# Let's Get Started!

- Read & review it, it's free online  
Share it with your colleagues on LinkedIn
- Share with local elected officials  
Attend or host a training (ask us how!)
- Visit or call municipalities that have done projects recently
- Prepare/update a bicycle and pedestrian plan



# Let's Get Started!

- Organize a demonstration project
- Integrate active transportation planning goals and objectives into your comprehensive plan
- Update, revisit, or develop a Complete Streets policy (Planning Advisory Service Report 559 Complete Streets: Best Policy and Implementation Practices)

## Chapter 6: Transportation

Streets and Highways

Air Service

Bicycle and Pedestrian System

Rail Transportation

Water Transportation

Public Transit Services



# How to Get the Guide



- PDF copy on FHWA publications page
- Hard copies available soon



- Interactive online guide at [ruraldesignguide.com](http://ruraldesignguide.com)



- Contact Alta Planning + Design for more information

# Thank you. Questions?



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