



ACTIVE TRANSPORTATION PLAN

*Enhancing sustainable travel options
for healthier communities*



PROJECT TEAM

CITY OF NEEDLES STAFF

Kathy Raasch

- Director of Development Services/Capital Projects

Rainie Torrance

- Utility Manager

Tammy Ellmore

- Engineering Tech II

KIMLEY-HORN AND ASSOCIATES STAFF

Darryl DePencier, AICP, GISP, RSP

- Project Manager

Amy Restelli, PE, PTOE

- Project Lead

John Jackson IV, AICP

- Deputy Project Manager

AGENDA



Project Team

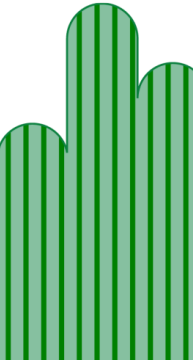
Project Overview

Existing Conditions

Active Transportation Toolkit

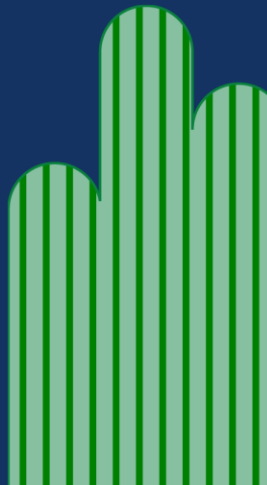
Community Outreach

Next Steps

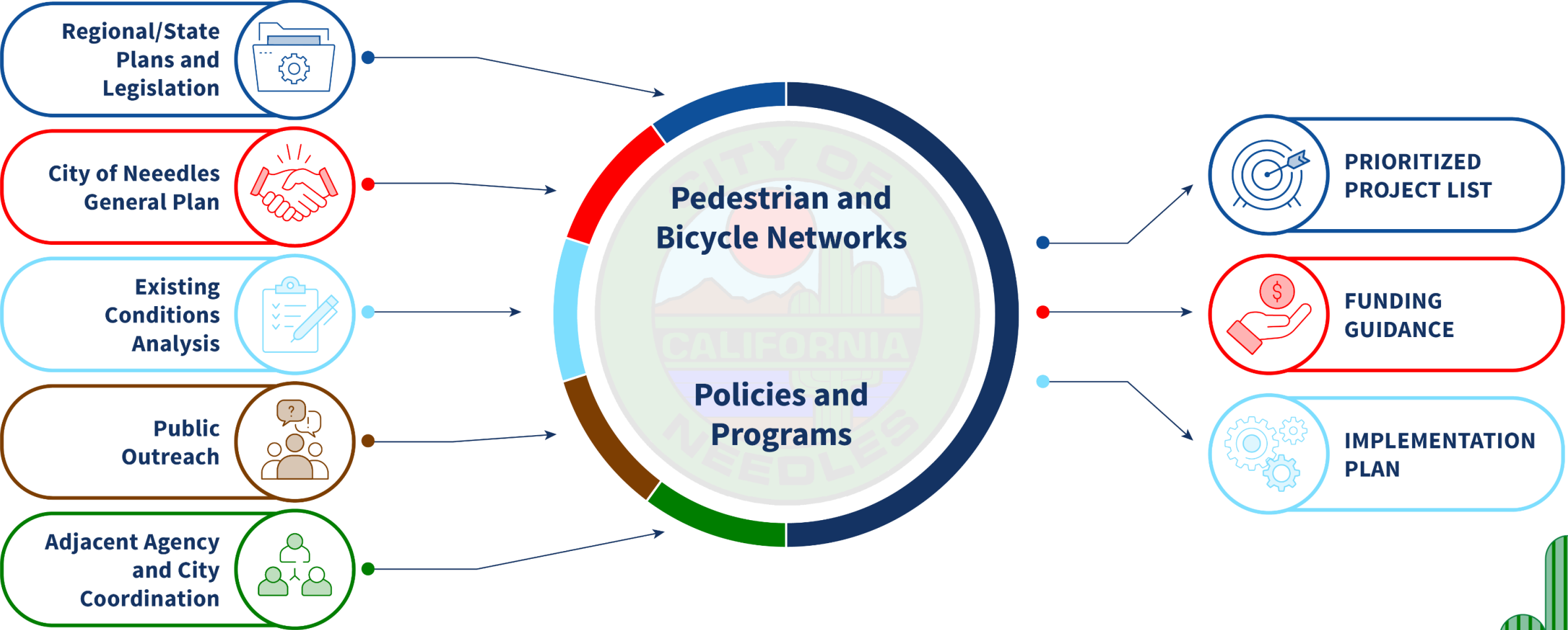




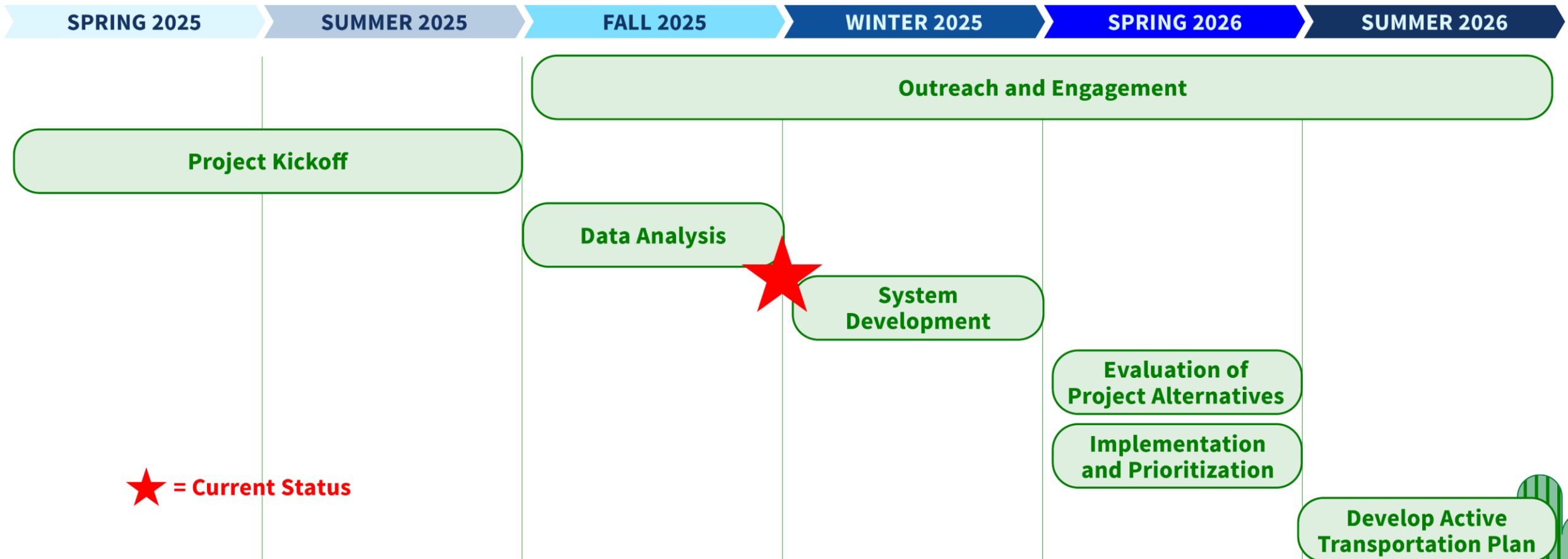
INTRODUCTION & PURPOSE



PROJECT OVERVIEW

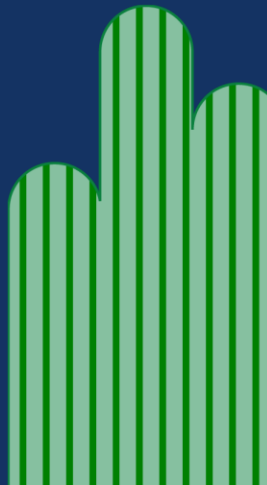


PROJECT SCHEDULE





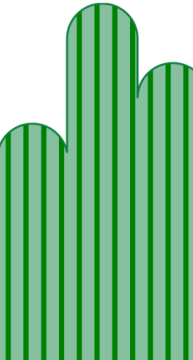
EXISTING CONDITIONS



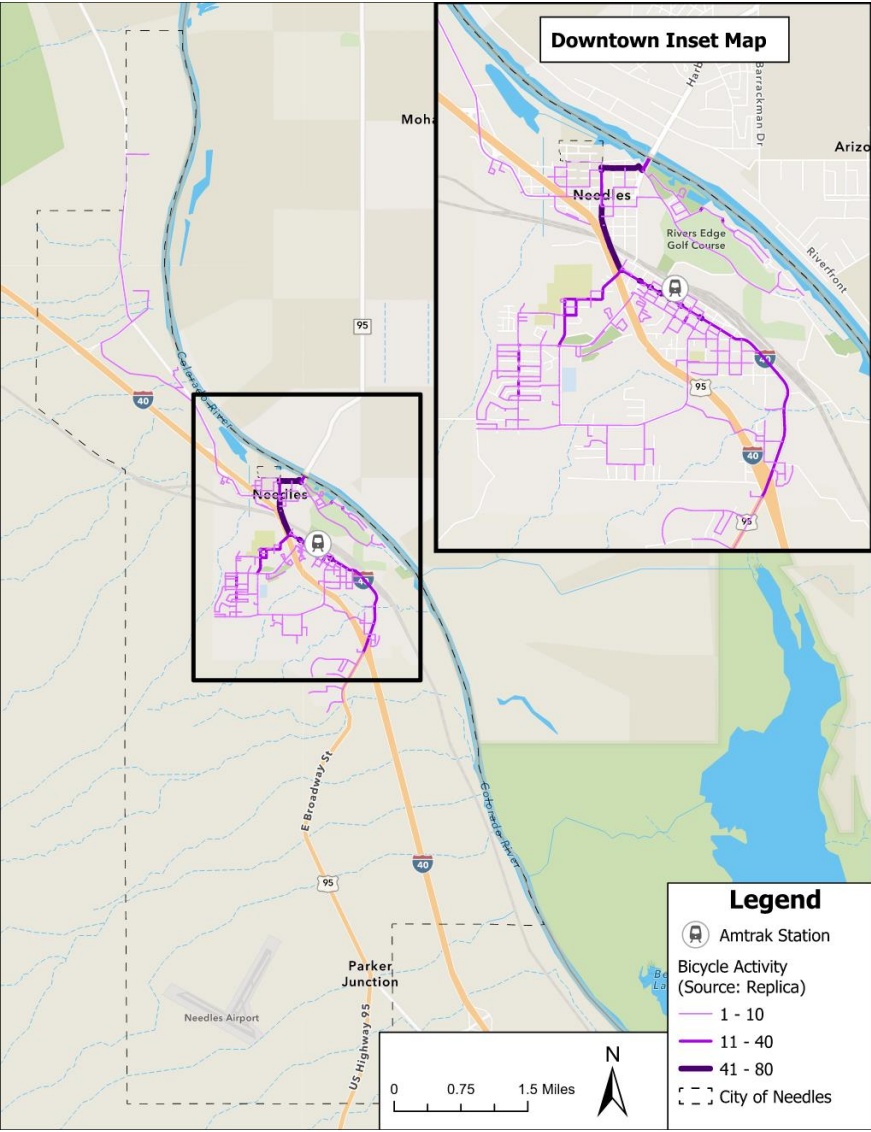
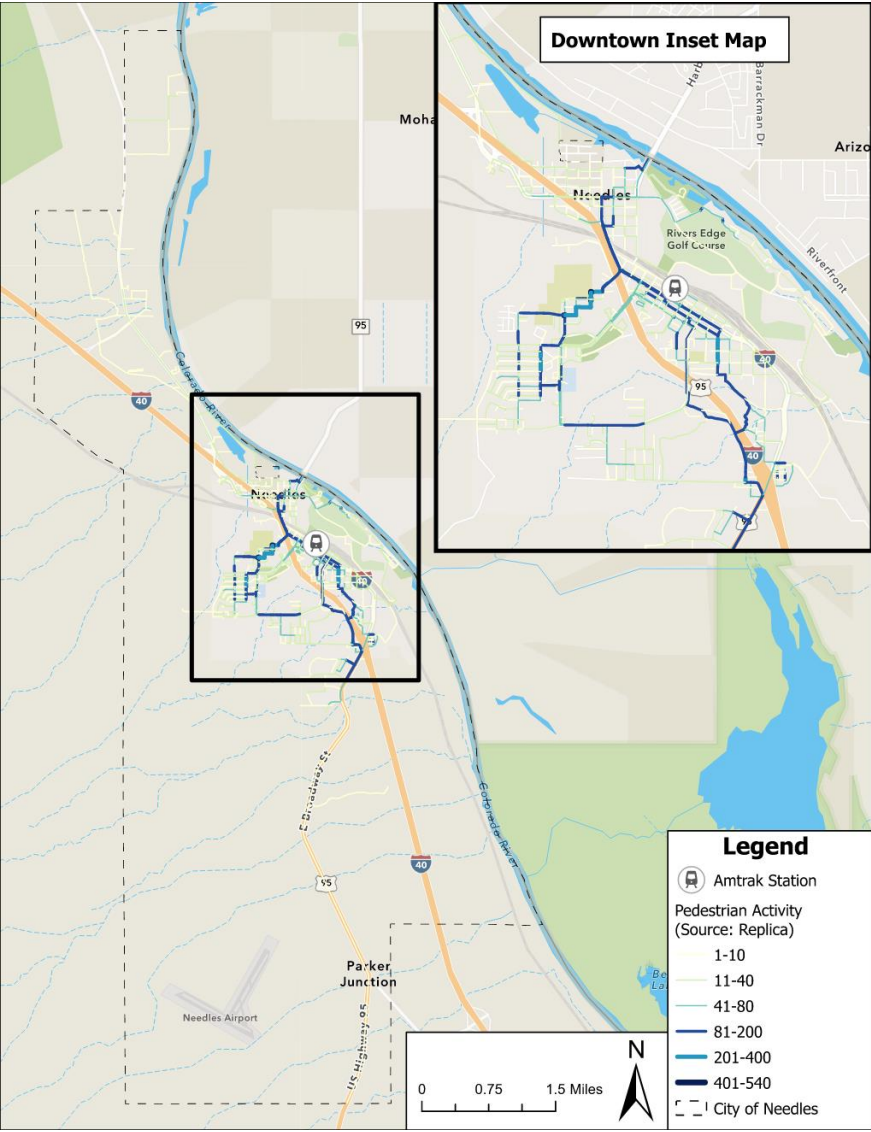


EXISTING CONDITIONS

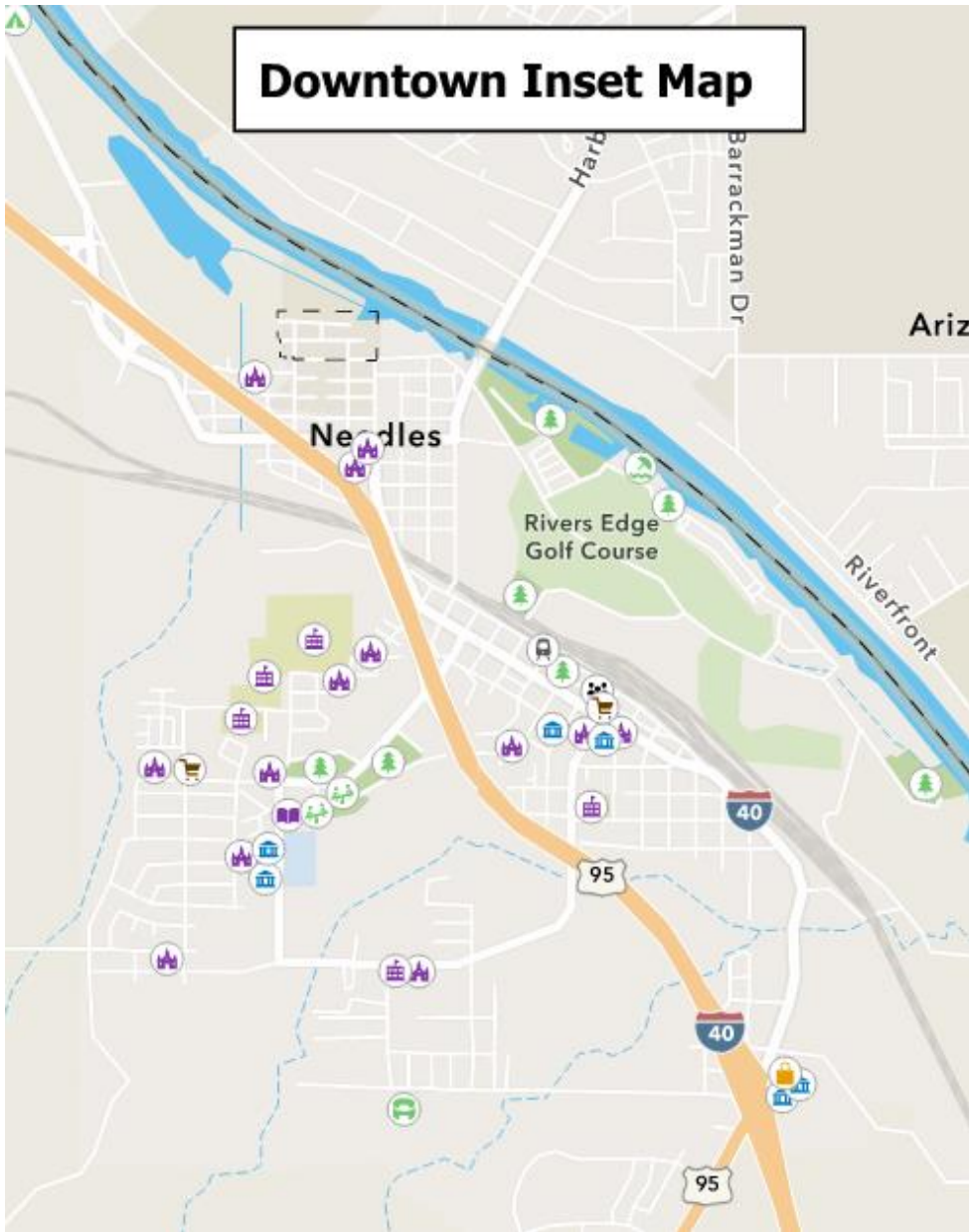
- Existing Infrastructure Challenges
- Lack of Bicycle Infrastructure
- Local Economic and Geographic Context
- Population and Jobs Growth Projections
- Unique Climate Conditions



BICYCLE/PEDESTRIAN ACTIVITY



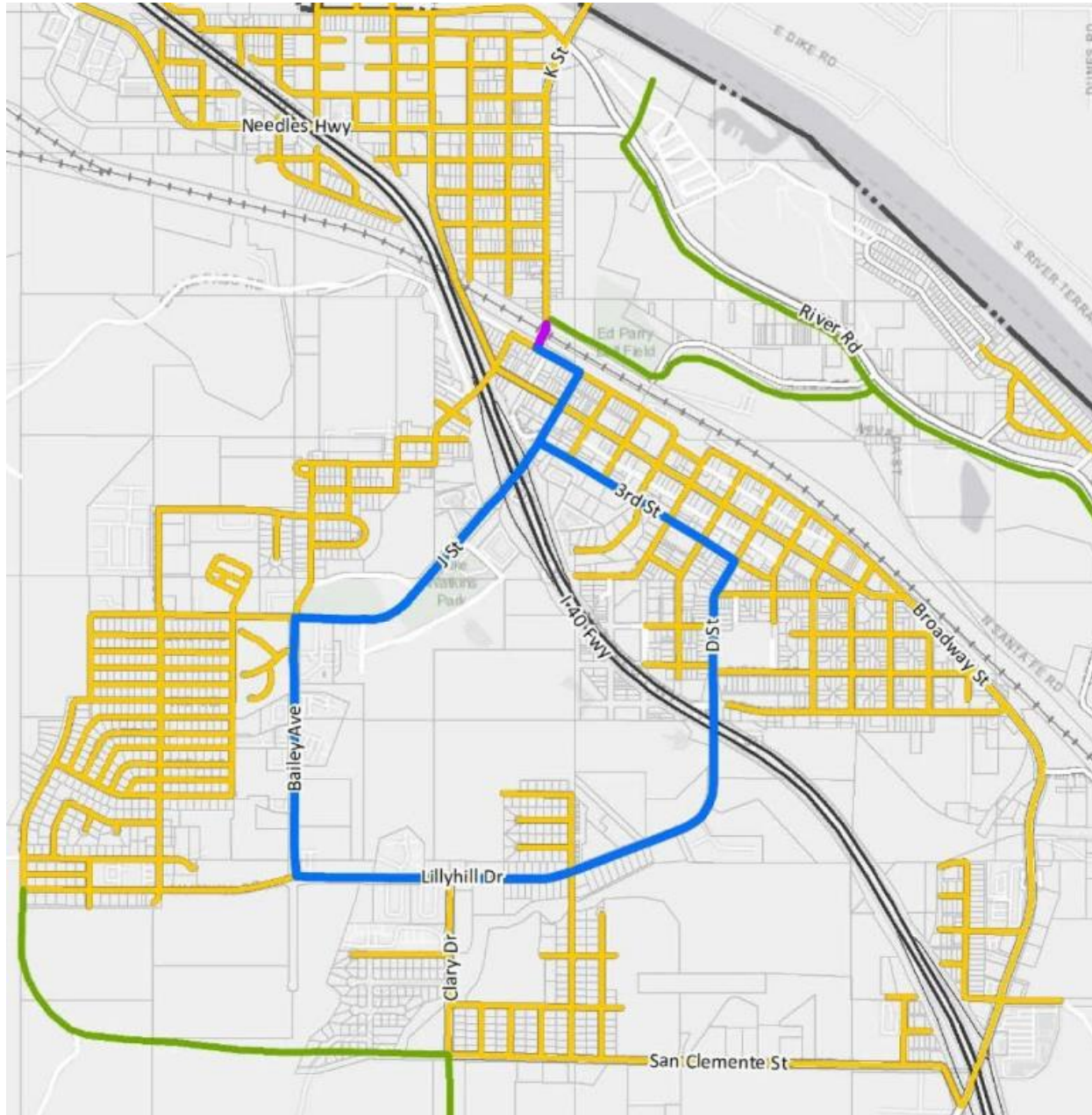
EXISTING PEDESTRIAN FACILITIES/DESTINATIONS



Legend

Destinations

- Church
- Community Center
- Event Space
- Government Building
- Library
- Park
- Recreation Center
- School
- Shopping Center
- Grocery Store
- Campground
- Beach
- Airport
- Amtrak Station



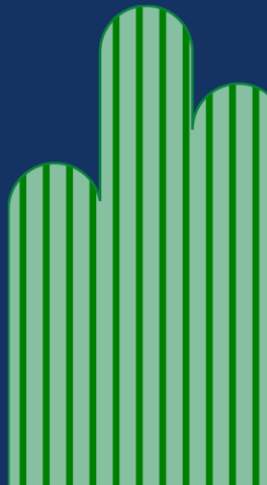
PLANNED PEDESTRIAN & BIKE FACILITIES

-  City Boundary
-  Railroad
-  Multimodal Loop
-  K Street Underpass
-  Trails
-  Sidewalks
-  Unpaved Pedestrian/Equestrian Trail

Date: 2/28/2023 Source: City of Needles 2023



TYPES OF INFRASTRUCTURE



BIKE CLASSIFICATIONS AND DESIGN FEATURES



Less Comfort

Class III

Bicycle Route or Boulevard



Class II

Buffered Bike Lane



Class IV

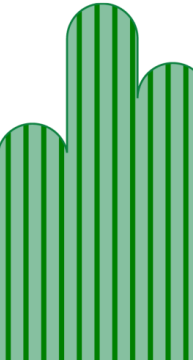
Separated Bikeway



More Comfort

Class I

Multi-Use Path



TOOLKIT: BIKE INTERSECTION TREATMENTS

Bike Box



Source: Courtesy of Greg Rafsman

Two-Stage Left-Turn Box



Source: NACTO, Transit Street Design Guide

Protected Intersection



Source: SFMTA

TOOLKIT: TRAFFIC CALMING

Neighborhood Traffic Circle



Source: Timmons Group

Chicane

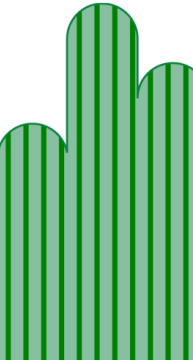


Source: Kimley-Horn and Associates

Speed Hump



Source: PennDOT Local Technical Assistance Program



TOOLKIT: TRAFFIC CALMING

Speed Feedback Sign

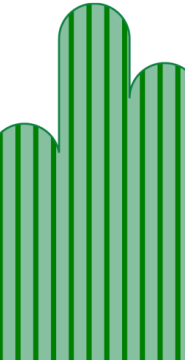


Source: Clackamas County Radar Speed Signs

Curb Extensions



Source: Google Maps Streetview



TOOLKIT: PEDESTRIAN SIGNAL ENHANCEMENTS

Lead Pedestrian Interval (LPI) Signals



Source: Adobe Stock
Images

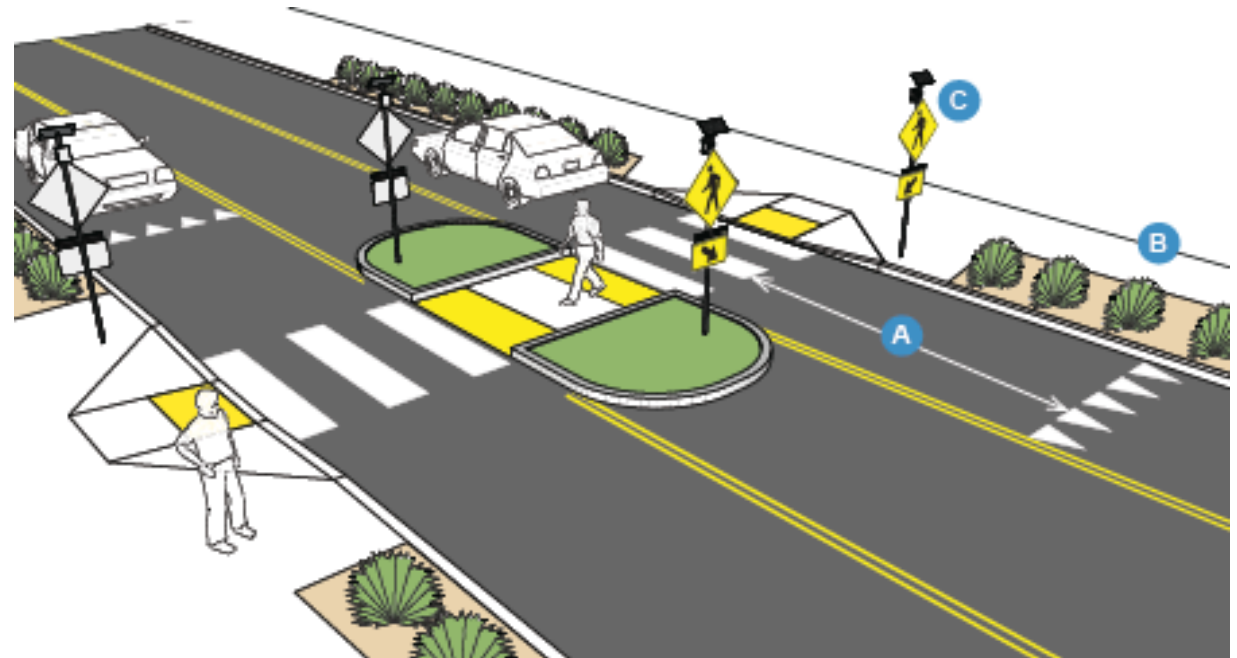
Countdown Timers



Source: Where the Sidewalk
Starts

TOOLKIT: MID-BLOCK CROSSING ENHANCEMENTS

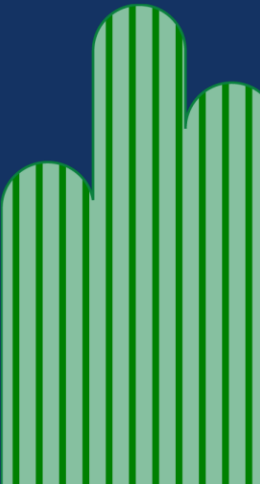
- High-Visibility Crosswalks
- Rectangular Rapid Flashing Beacon
- Pedestrian Refuge Area
- Advance Yield Lines



Source: Kimley-Horn and Associates



COMMUNITY ENGAGEMENT





OUTREACH OPPORTUNITIES



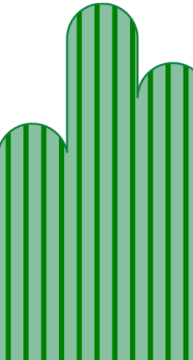
Workshops



Survey

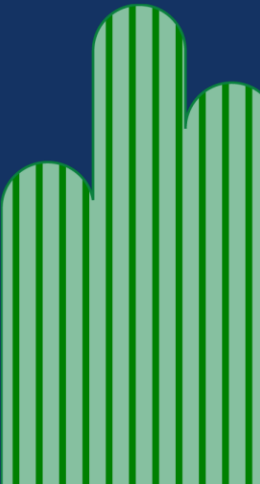


Website





NEXT STEPS



NEXT STEPS!

1. Develop Recommended Projects

2. Prioritize Projects

3. Develop Plan

4. Next Workshop
Tentatively Fall 2026

