



Arboretum Area Transportation Plan

A Community-Focused Transportation Vision for Eastern Carver County

The Arboretum Area Transportation Plan is an effort to create a traffic management, safety and phasing plan for major roads near the Minnesota Landscape Arboretum in Victoria, Chanhassen and Chaska. Study corridors include sections of Highway 5, Highway 41, Rolling Acres Road, Bavaria Road, and 82nd Street West.



Project Goals

The following goals are consistent with broader goals adopted by project partners.

- Provide efficient and reliable vehicle mobility
- Safely accommodate all system users
- Provide a comprehensive network for pedestrians and bicyclists
- Provide infrastructure improvements that respect the environment
- Develop a financially responsible implementation plan

co.carver.mn.us/ArboretumAreaTransportationPlan

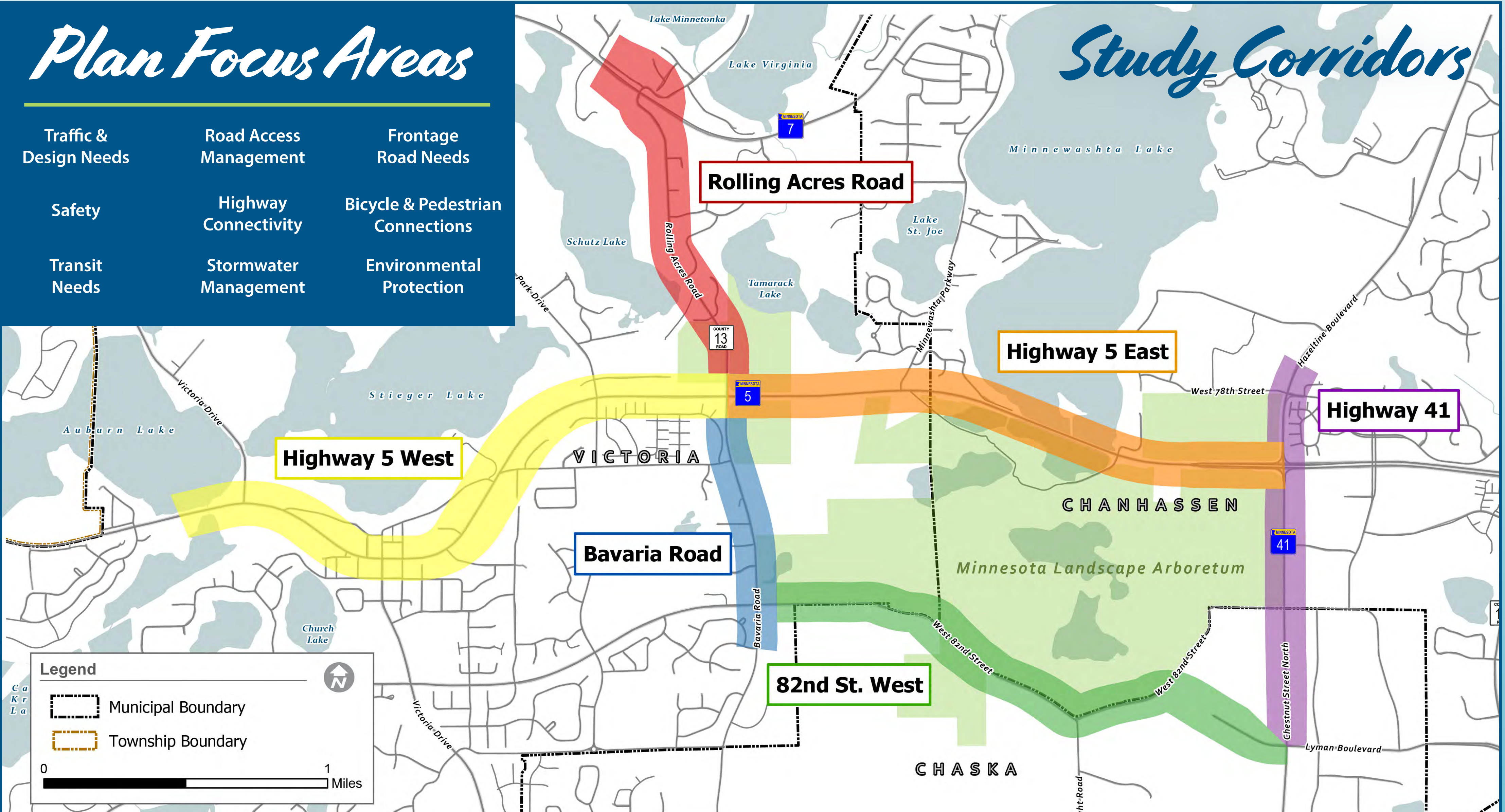
Plan Objectives

- Understand existing issues and needs
- Engage communities to build consensus on an area-wide transportation vision
- Develop plan for short, mid, and long-term improvements in corridors

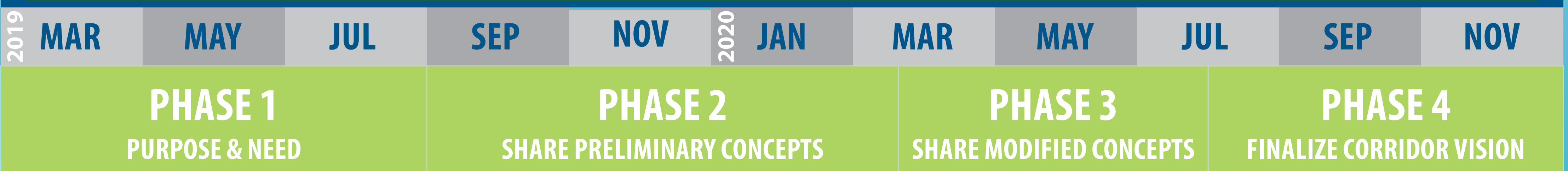
Plan Focus Areas

| | | |
|------------------------|------------------------|----------------------------------|
| Traffic & Design Needs | Road Access Management | Frontage Road Needs |
| Safety | Highway Connectivity | Bicycle & Pedestrian Connections |
| Transit Needs | Stormwater Management | Environmental Protection |

Study Corridors



Timeline



Project Manager
Angie Stenson, AICP
Sr. Transportation Planner
Carver County
952-466-5273
astenson@co.carver.mn.us



Community Involvement

Stay Informed, Get Involved

Engaging stakeholders is a key component of the Arboretum Area Transportation Plan. There are multiple ways you can get involved!

Subscribe to e-Bulletins

Subscribe to receive project updates and announcements by email.

Follow @CarverCountyPW on Social Media

Carver County Public Works (@CarverCountyPW) will share project news and announcements on Facebook and Twitter. You can also search for project-related posts using #ArbArea.

Attend an Open House

Multiple open houses will be held to share updates and collect public input. For notification of schedule information, subscribe to e-Bulletins or follow Carver County Public Works (@carvercountypw) on social media.

Visit the Project Website

Check back frequently for schedule updates and announcements about upcoming events such as open houses and online surveys.

Participate in a Subarea Group Meeting

Meetings will be held over the next few months to involve participants located in specific areas of concern.

Reach out to the Project Manager

Questions, comments, or concerns? Reach out to Angie Stenson, AICP, Carver County Senior Transportation Planner at 952-466-5273 or astenson@co.carver.mn.us.

Project Website

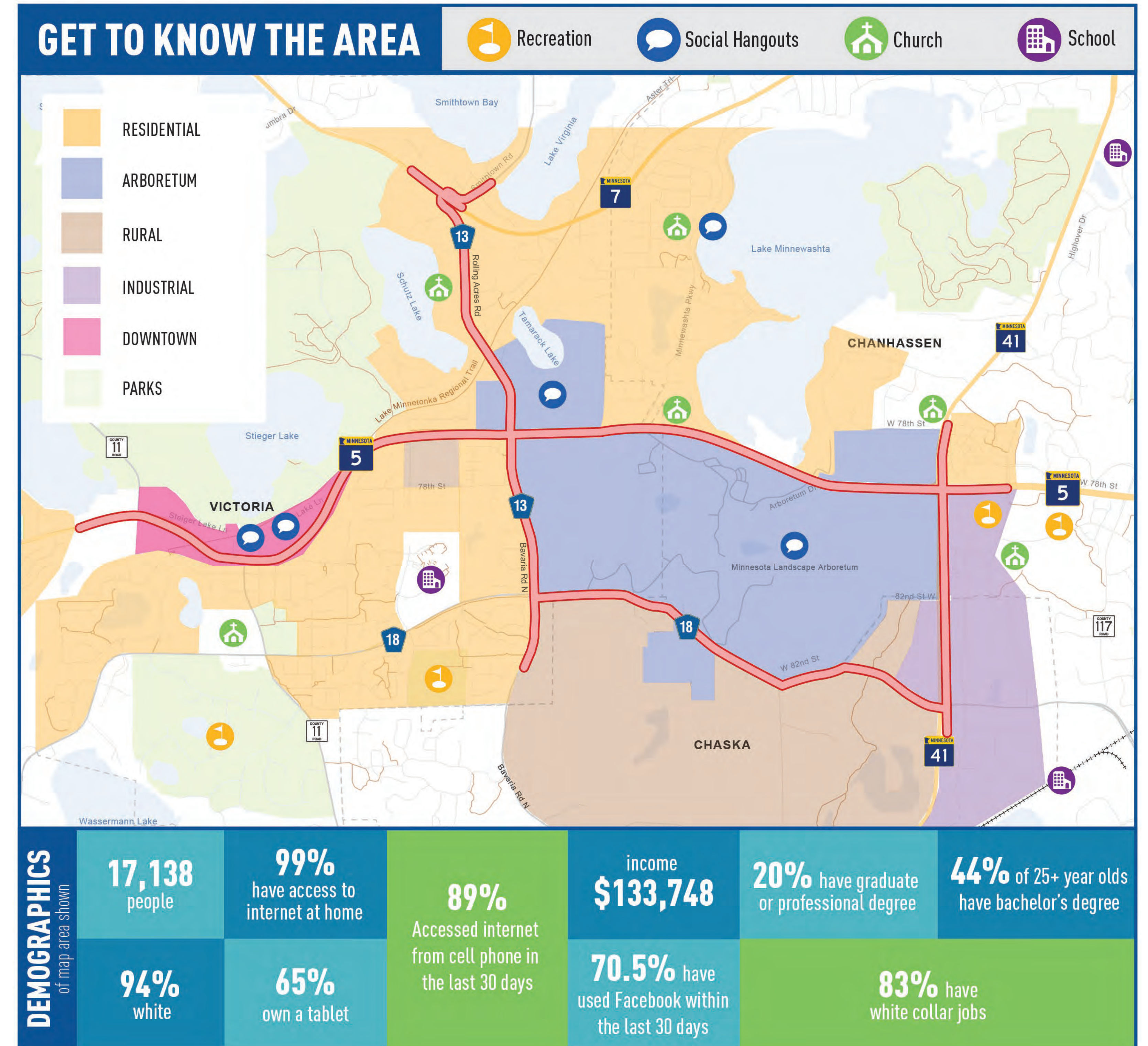
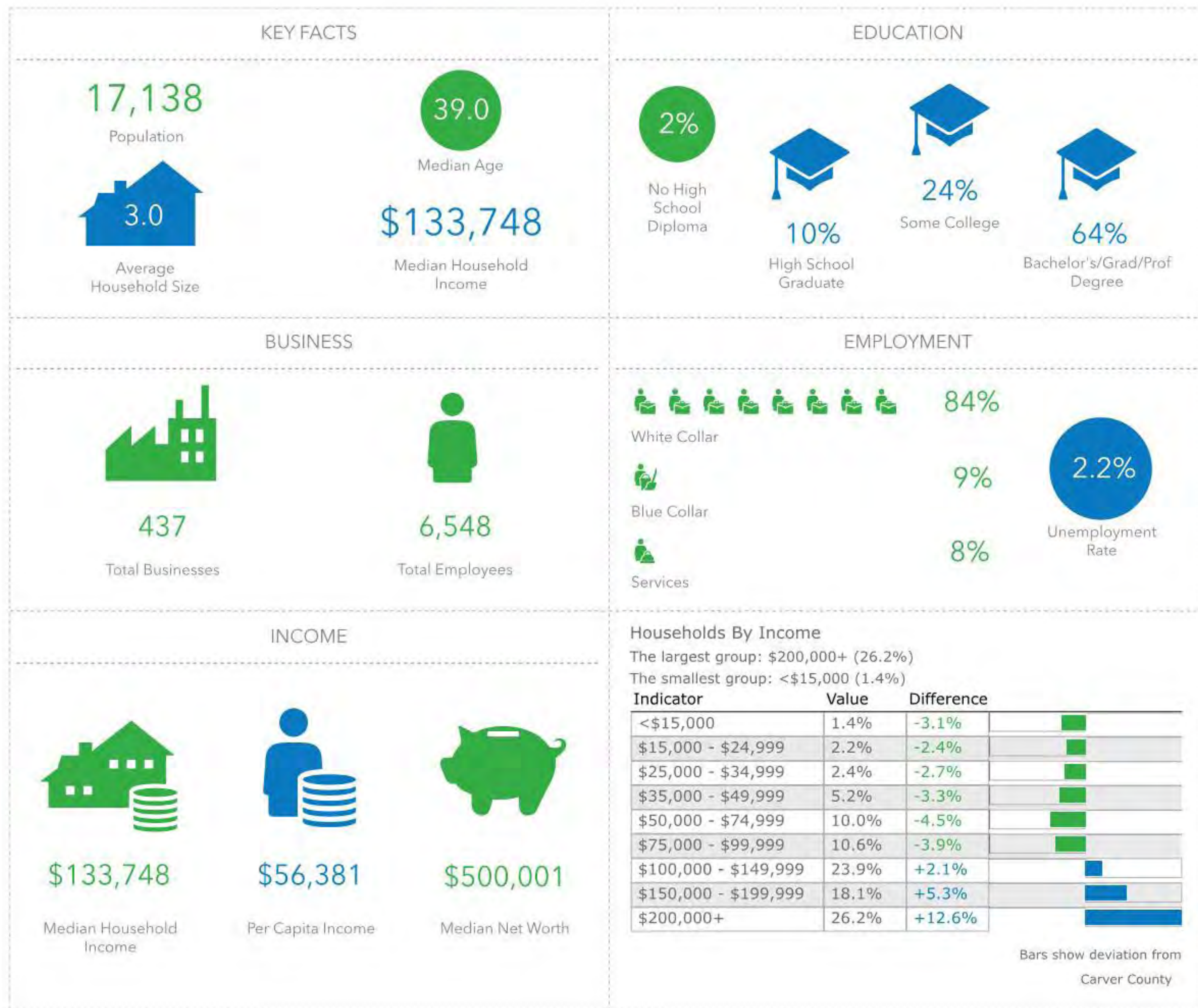
[co.carver.mn.us/ArboretumAreaTransportation Plan](https://co.carver.mn.us/ArboretumAreaTransportationPlan)

What you can do today:

- Review informational materials and displays
- Make comments on the comment forms
- “Vote” for issues you feel are most important
- Ask questions - we are here to listen and help!



Understanding the Study Area

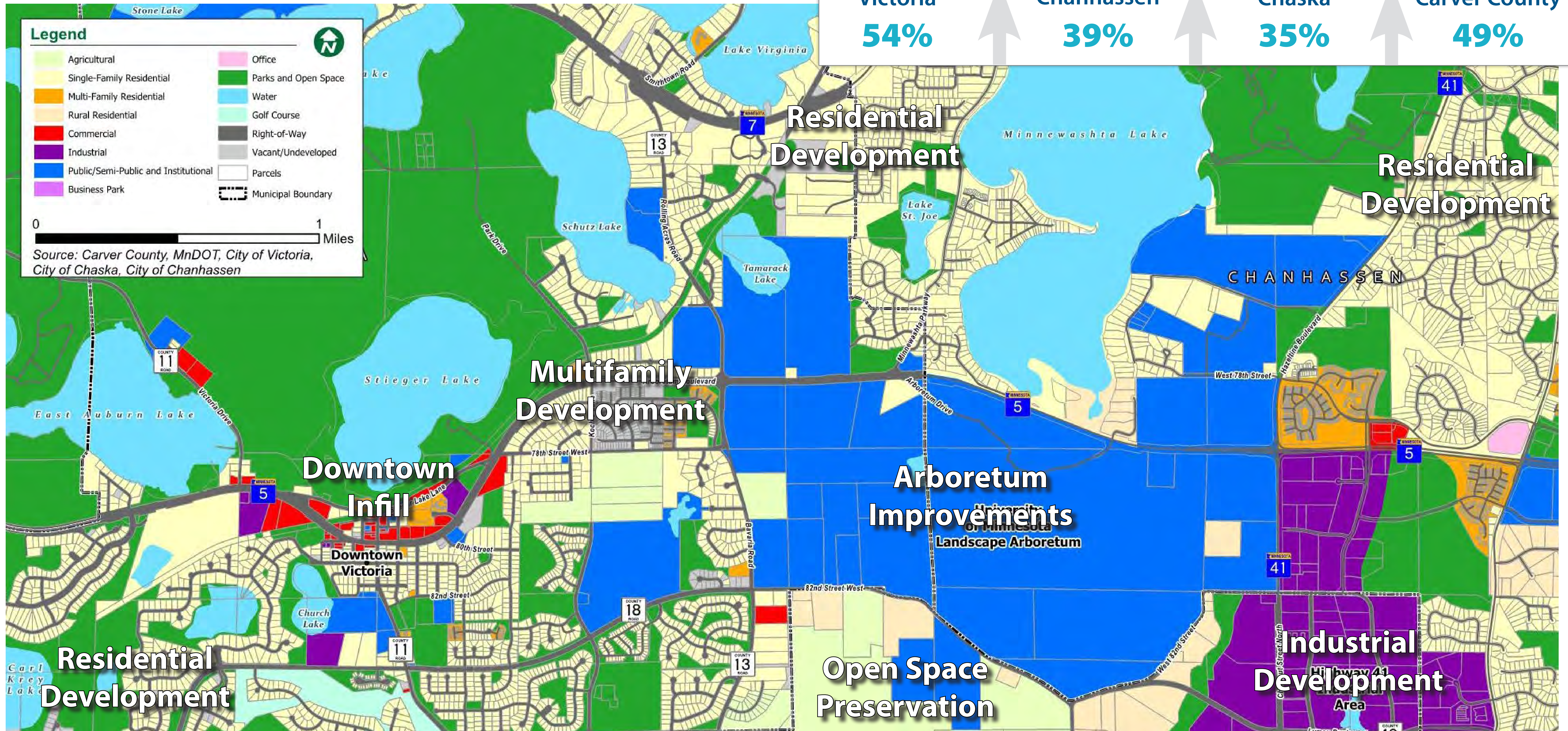


The project will need to be responsive to the population of the study area, as well as commuters from the broader region.



Accommodating Growth

Population Growth by 2040



The area is growing rapidly in terms of people, households, and jobs - increasing demands on the transportation network.



Increasing Capacity - Current Conditions



AM Peak Hour Operations



PM Peak Hour Operations



Understanding Level of Service (LOS)

LOS is used frequently to describe the level of congestion on a roadway.

- LOS A/B (under capacity) - no delays, relatively free flowing
- LOS C/D/E (approaching capacity) - minimal delays, with increasing unpredictability
- LOS F (over capacity) - significant delays, unstable with forced stops



Other Terminology

Traffic analysis has specific language for key concepts.

- 95th Queue - length of traffic queue that is only exceeded 5% of the time
- Signalized vs. unsignalized intersection - whether or not there is a traffic light present
- Capacity - the amount of traffic a road is designed to accommodate

The transportation network has significant delays due to congestion at peak hours, particularly at key intersections.



Increasing Capacity - 2040 Growth



AM Peak Hour Operations



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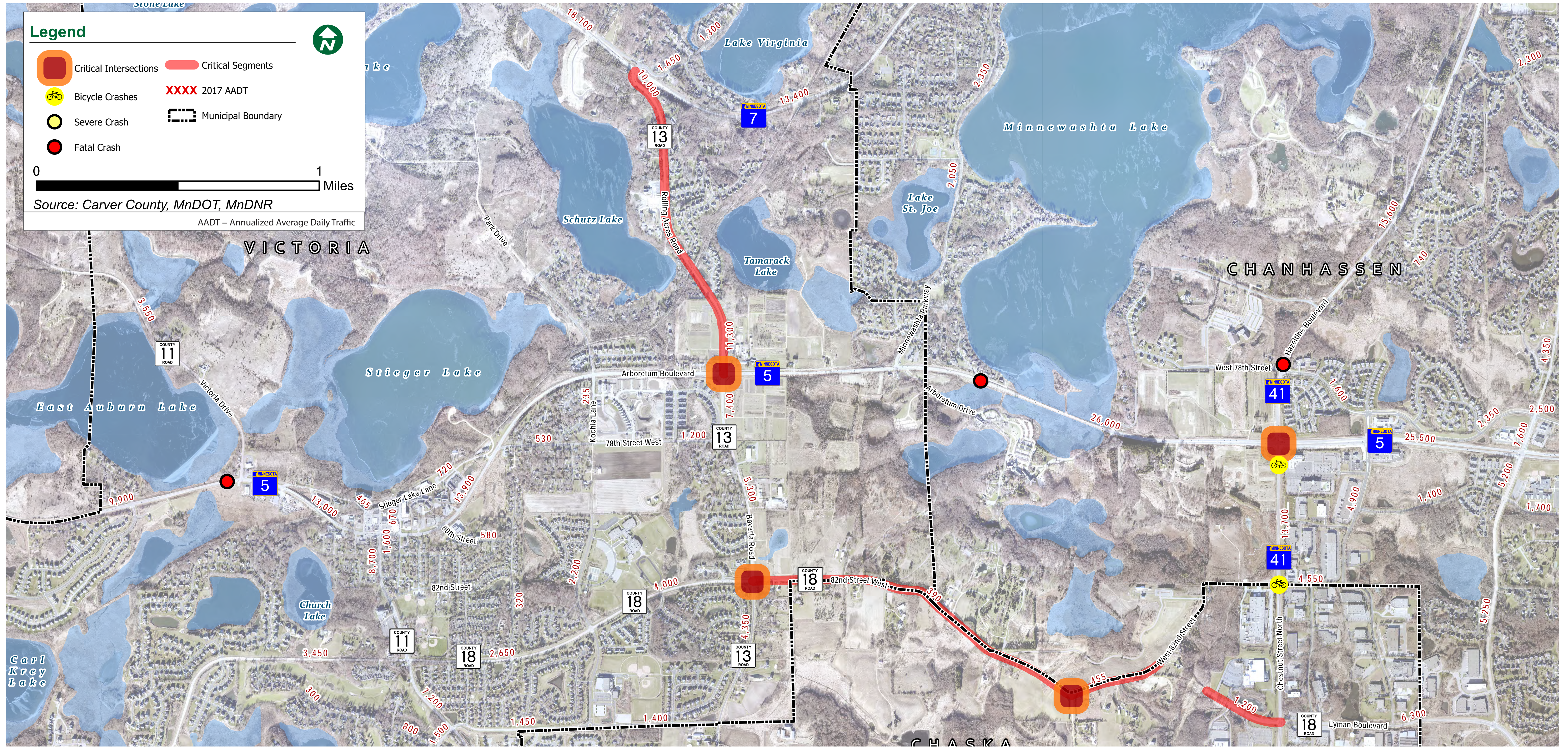
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Delays and congestion will worsen in the future without improvements.

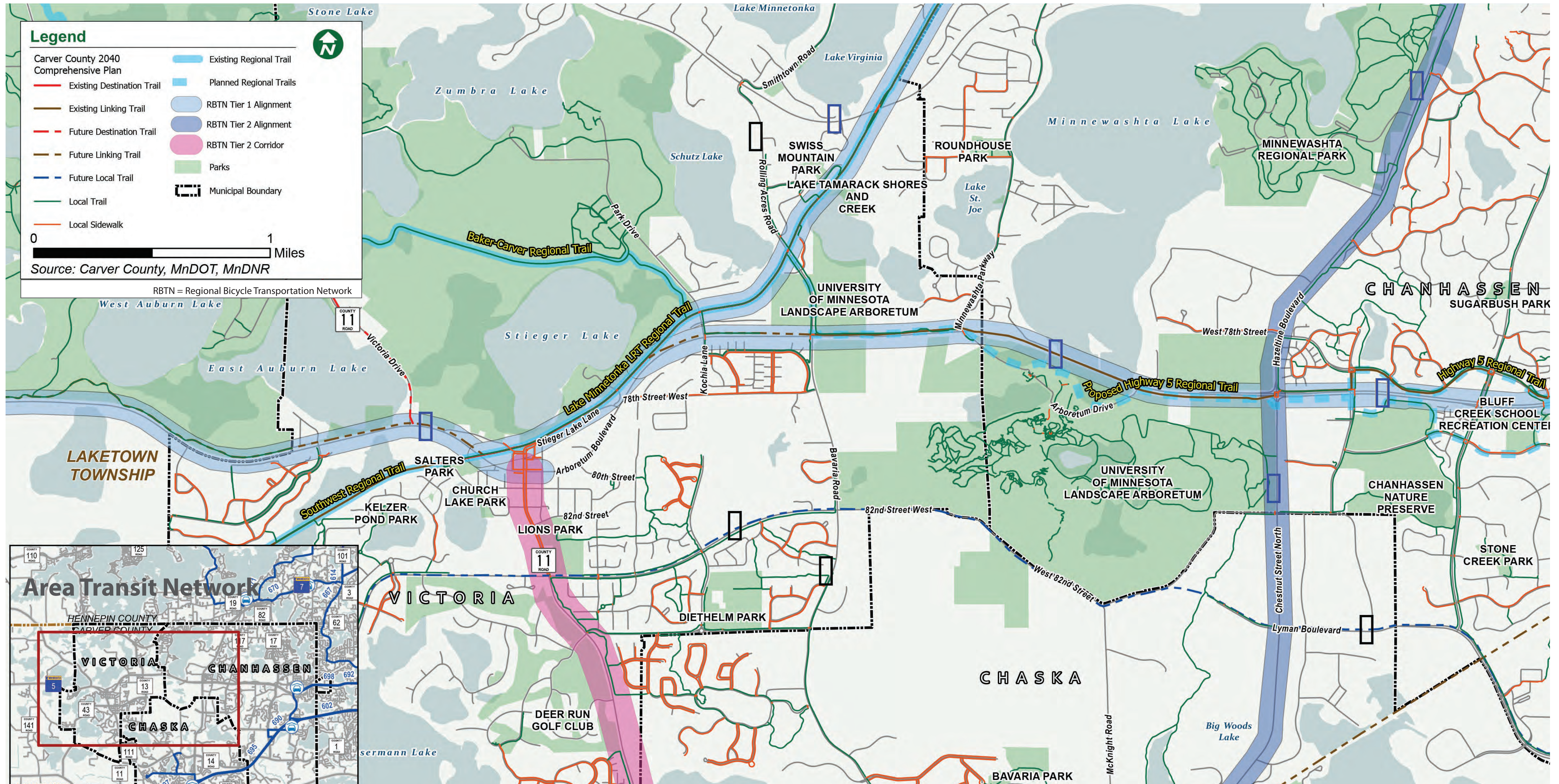
Enhancing Safety



Intersections and roadway segments in the study area have above average crash rates that need to be addressed.



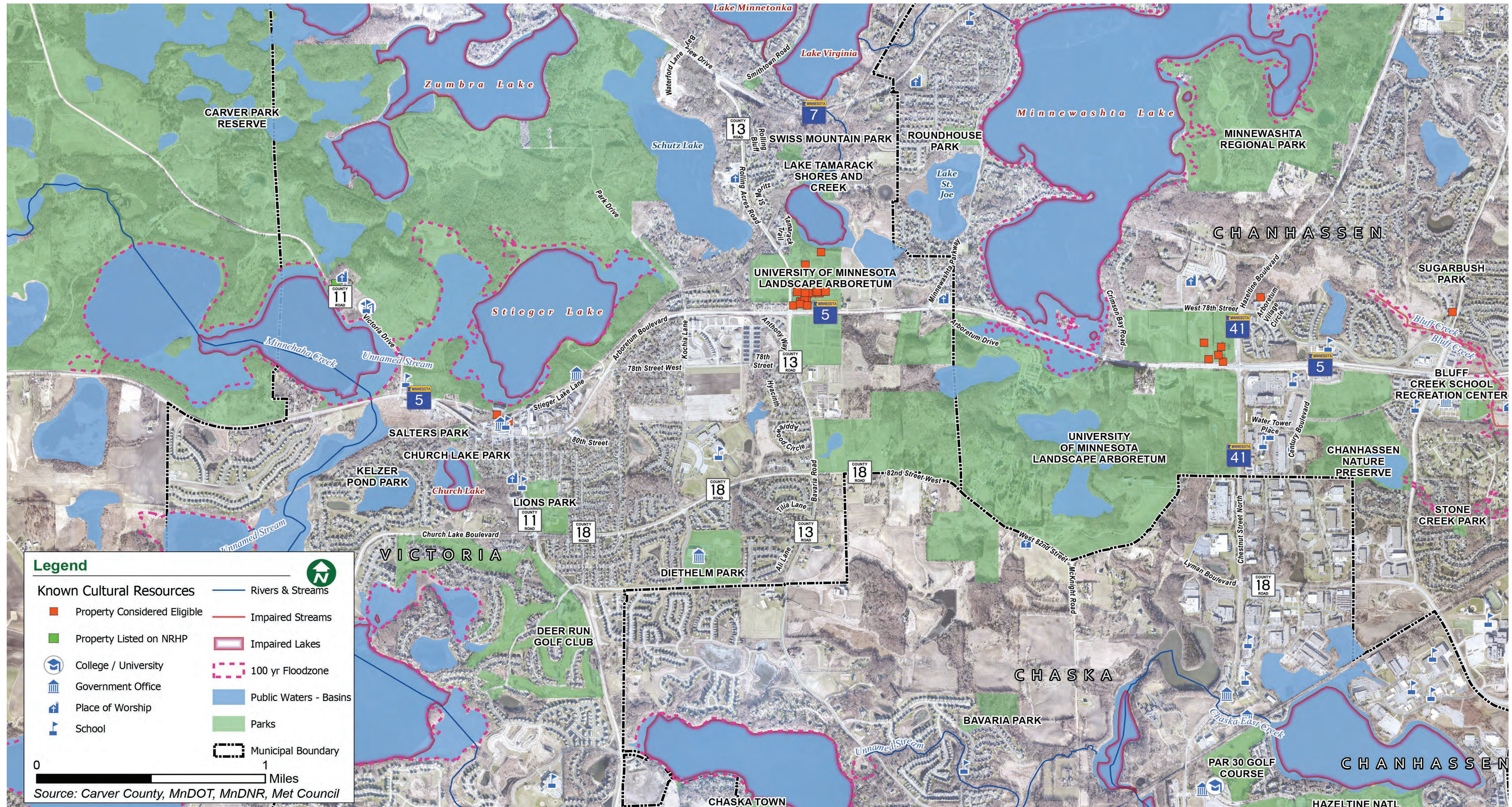
Supporting Multi-Modalism



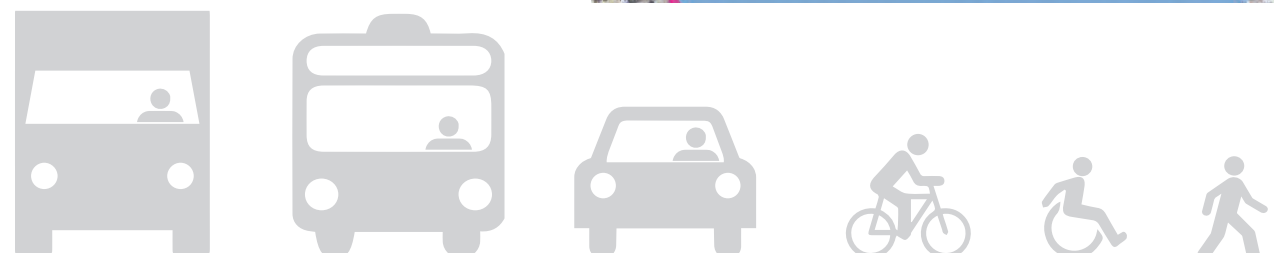
The bicycle and pedestrian network is well used, but gaps and safety concerns remain. Transit is a future possibility.



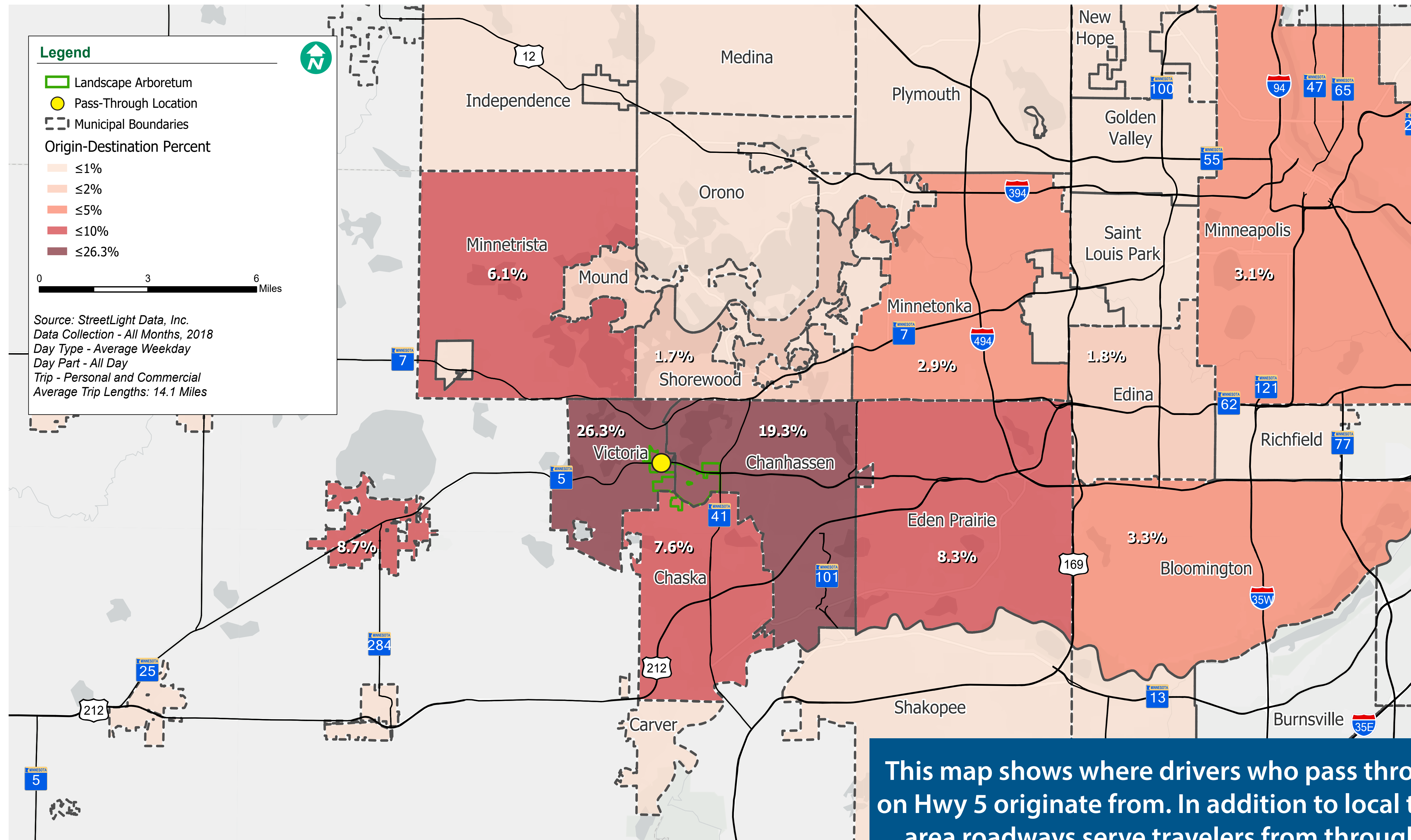
Respecting Environmental Resources



The study area is rich with natural, historic, and cultural resources. These will need to be identified and respected.



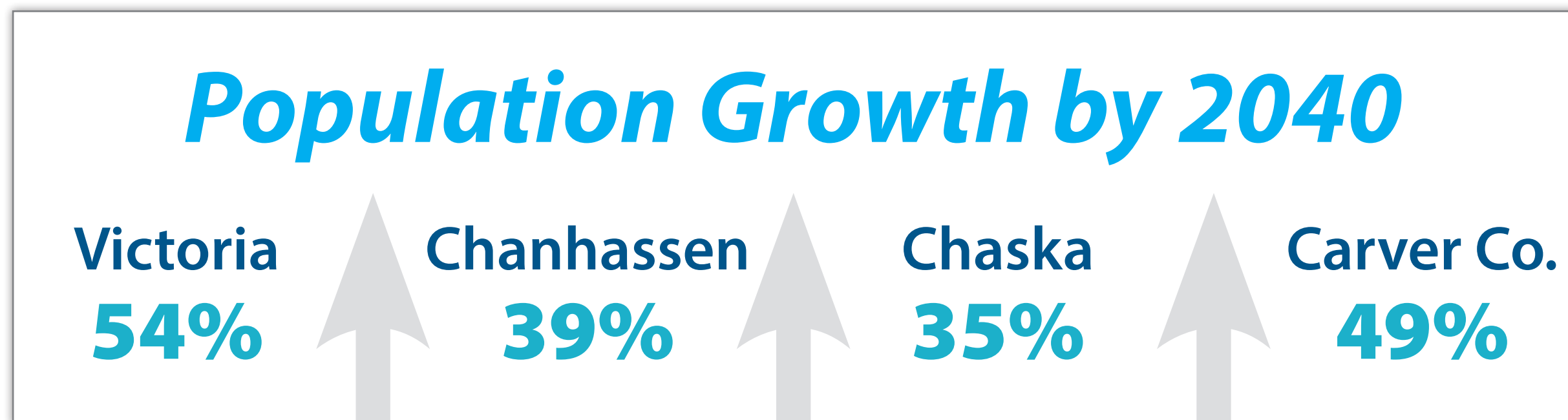
Connecting Communities



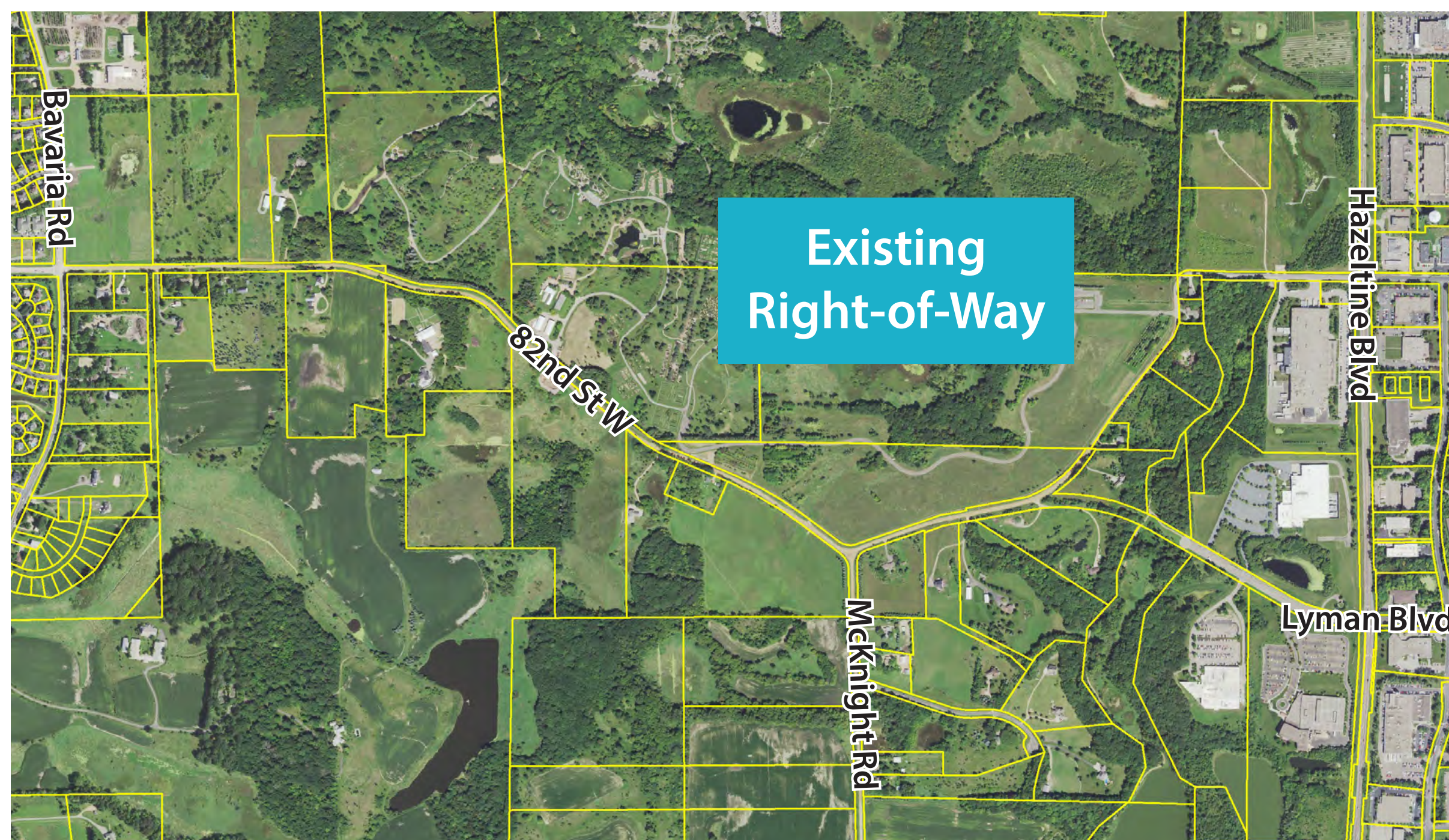
This map shows where drivers who pass through the yellow point on Hwy 5 originate from. In addition to local trips, Hwy 5 and other area roadways serve travelers from throughout the Twin Cities region and beyond. Around half of the trips are from Victoria, Chaska, or Chanhassen, with the remainder from elsewhere.



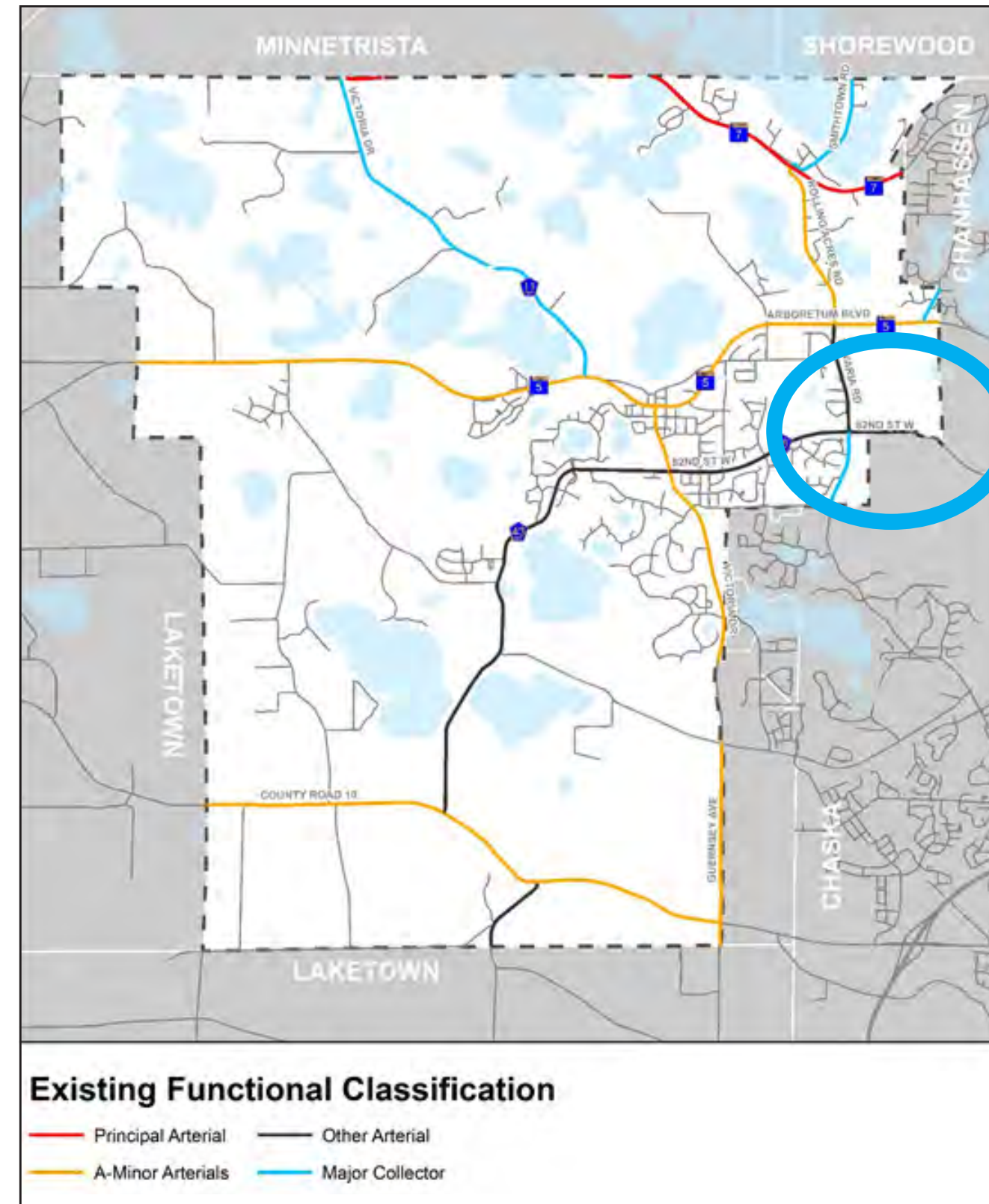
Planning for 82nd Street Connection



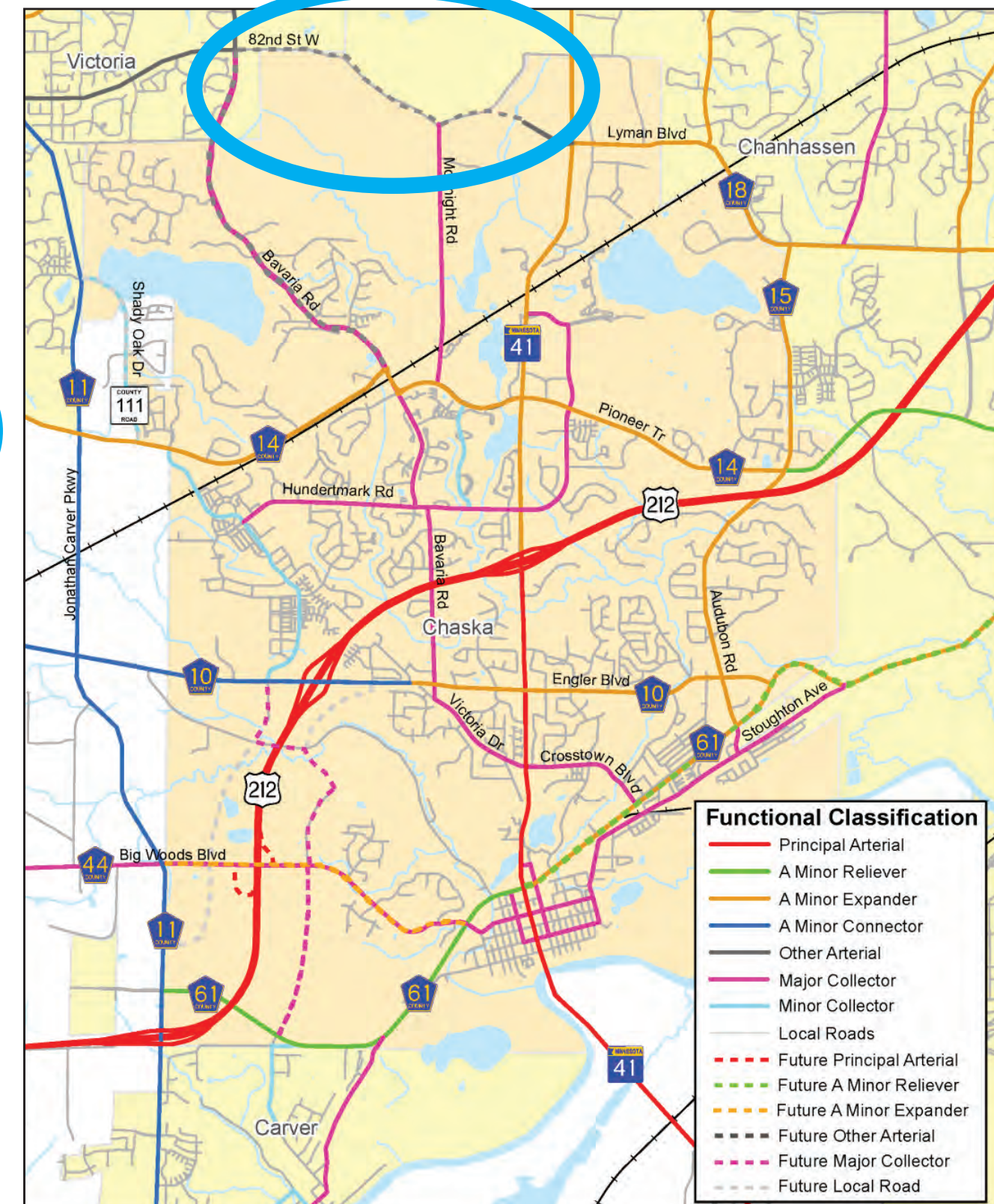
The old rural roadway network needs to transition to meet the needs of a developing community.



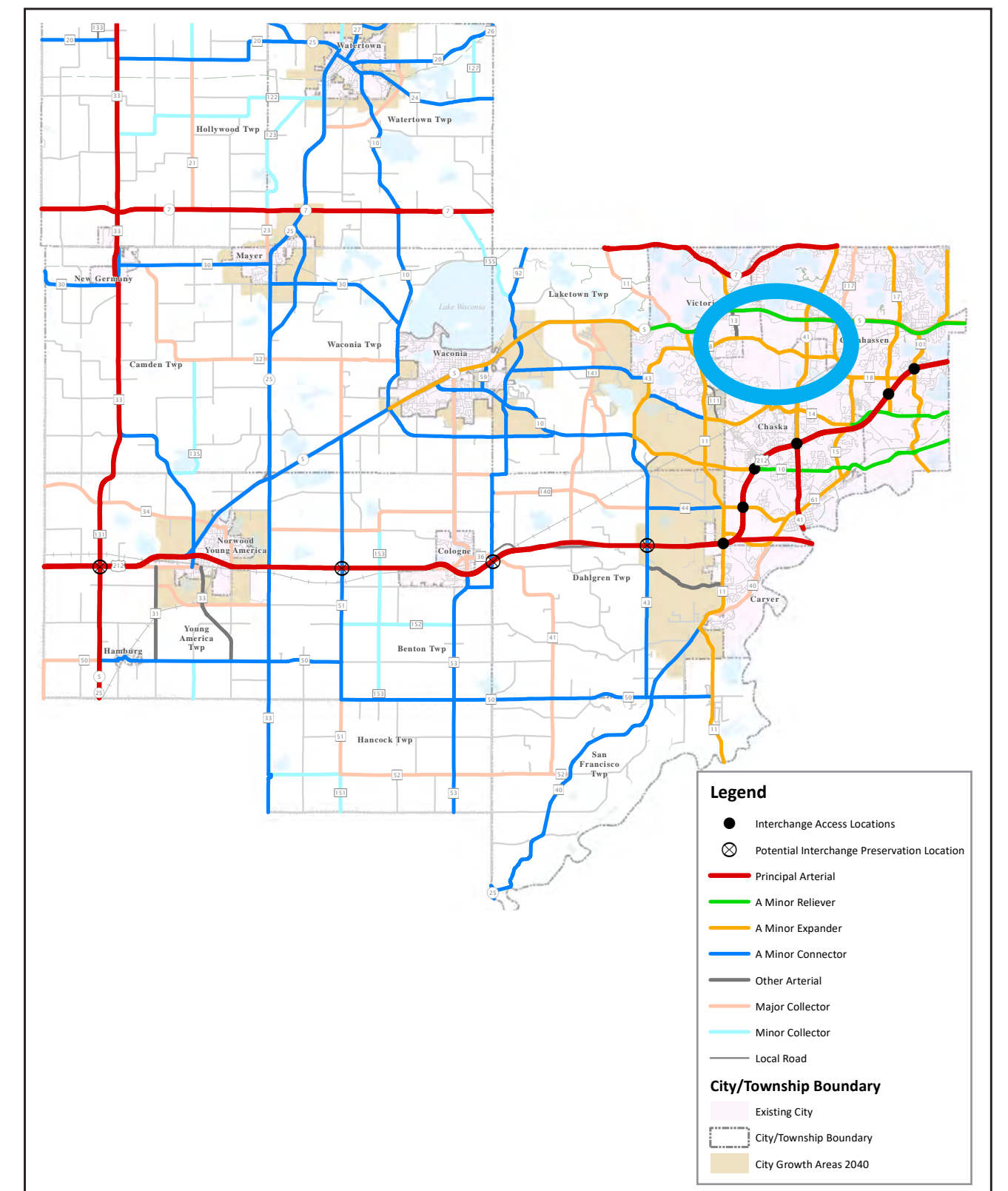
City of Victoria - Draft 2040 Comp Plan



City of Chaska - Draft 2040 Comp Plan



Carver County - Draft 2040 Comp Plan



The plans for Carver County and the cities of Chaska and Victoria all show 82nd Street West as a future arterial with connectivity to the rest of the system.

Implications for 82nd Street

- When is this connection needed?
- What will the corridor look like?
- What bicycle and pedestrian facilities should be included?
- How will access and crossing be handled?

