



CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Project Overview and Schedule

DRAFT



WHY ARE WE HERE?

The Town of Concord is developing a town-wide comprehensive transportation plan to outline Concord's transportation and mobility network and create an action plan for moving forward. The Plan will:

- identify **actionable transportation improvements**
- adopt a **framework** to guide **future investments**
- develop specific Concord **design standards and policies**

COMPLETE THE ONLINE SURVEY

You are invited to complete the online survey!
Open from October 16 - November 20

Scan here with
your phone camera
to access the website



or type in concordma.gov/transitstudy

SCHEDULE

Sept - Nov 2023

Dec '23 - Feb 2024

Feb - Apr 2024

May - Jul 2024

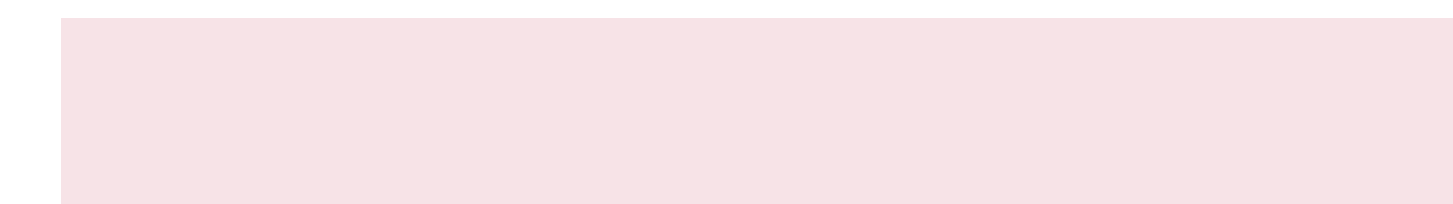
Aug - Sept 2024

Summary of Existing Conditions and the Concord Transportation Experience

Consider and Evaluate Potential Investments and Policies

Develop Investment and Policy Recommendations

Final Plan Development



WE ARE HERE





The 2018 Envision Concord Plan conducted surveys with residents to understand priorities for current and future needs of the Town. Below are the Plan's goals and key takeaways.

WHAT GOALS WOULD YOU PRIORITIZE FROM ENVISION CONCORD?

Place a dot next to the goal(s) below



Reduce motor vehicle dependence and traffic volume within Concord



Provide effective mobility options for trips within Concord, and to Boston and other regional medical centers and key destinations



Create safe, cost-effective walking and bicycling connections between key pedestrian and bicycle paths/trails to improve mobility around Concord.



Improve coordination with regional partners in order to reduce traffic volume and congestion from commuter through-traffic.



Develop an approach to parking that balances the principles of sustainability with the Town's economic goals.



Include managing existing parking spaces and consider providing parking options outside the village centers.

ADD YOUR OWN GOALS

TOP TRANSPORTATION CONCERNS

as indicated in the 2018 survey

1

Traffic in village centers

2

Bicyclist Safety

3

Lack of sidewalks outside of village centers

90+% of respondents travel by **privately owned vehicles**

70% of residents would **prefer to walk** to their destination rather than drive a car



CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Implementation Projects from Past Projects/Plans

DRAFT



Multi-Modal Projects

- 1. Implement Complete Streets projects

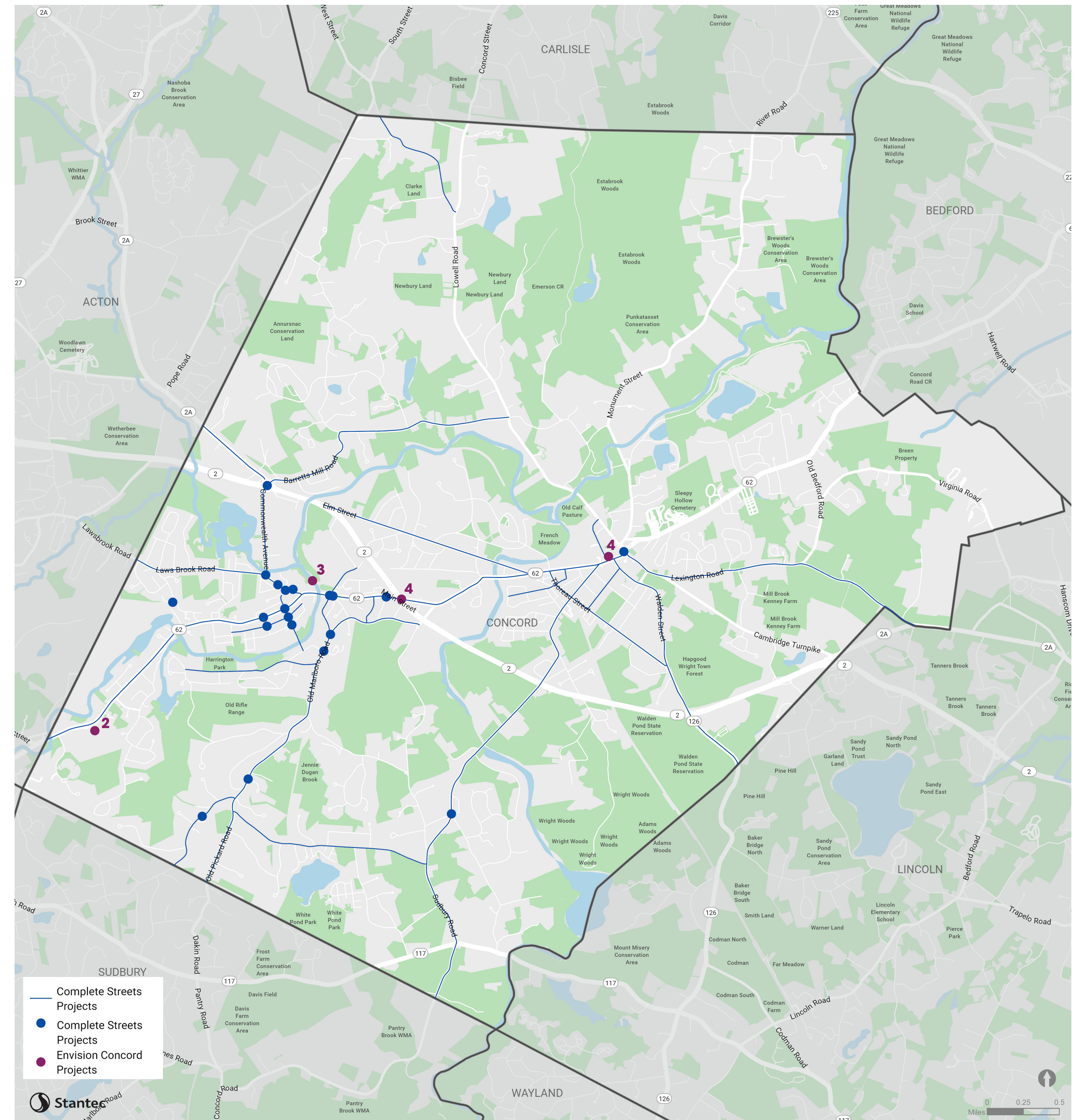
Transit Projects

- 2. Consider utilizing 2229 Main Street as a transportation hub and/or truck/bus maintenance facility, and/or remote parking, and/or new combined Town public facilities

Pedestrian and Bike Connection Projects

- 3. Install a pedestrian/bicycle bridge over the Assabet River to connect Baker Avenue businesses with West Concord Village
- 4. Provide a coordinated bike share program at the Visitor Center or increased marketing of existing rental programs

- Not Yet Started
- ◐ In Progress
- Complete





CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Implementation Projects from Past Projects/Plans

DRAFT



Multi-Modal Projects

- Explore mobility options, especially on-demand shared mobility
- Improve multi-modal transportation opportunities
- Develop a model for understanding the costs and benefits of various transportation improvements and services
- Promote regional public transportation options, ridesharing, carpooling, bicycle transportation, alternative-fuel vehicles, etc.
- Review and adapt the Complete Streets policy
- Provide transportation links to regional cultural assets (i.e. Walden Pond State Reservation or the Minute Man National Historical Park)

Visitor Oriented Projects

- Improve connectivity through wayfinding and signage
- Create a visitor-oriented map for accessibility of destinations
- Study traffic and parking for visitor needs and tour buses

Pedestrian and Bike Connection Projects

- Prioritize a set of financially sustainable infrastructure projects that will improve connections between key paths and sidewalks.
- Study possible paths and trails that create better links to natural areas, recreational lands, and other destinations
- Explore long-term potential of rail-with-trail multi-use path connecting West Concord Depot and Concord Depot and other neighboring communities

Not Yet Started

In Progress

Complete

Parking and Congestion Projects

- Study potential traffic calming measures along the main roads
- Develop plans to decrease the demand for parking
- Reduce parking requirements near village centers and other specific areas while requiring multi-modal features
- Provide EV charging stations, bike racks, and public transportation stops at public parking facilities
- Evaluate and identify sites suitable for remote parking
- Maintain scale of roadways consistent with public safety while considering and accommodating historical and natural character
- Consider limiting visitor parking during peak hours such as weekends and holidays to encourage use of remote parking areas

General Plan and Policy Recommendations

- Create a transportation planning function within Town government
- Conduct a study to examine transportation-use preferences
- Consider expanding the charge and membership of the TM Group
- Reallocate staff resources to allow for focus on transportation planning
- Provide leadership and participation in a regional transportation group
- Evaluate existing opportunities with neighboring communities to collaborate on fiscally prudent regional connectivity options

Transit Projects

- Identify shared use of transit vehicles (e.g. buses, vans) to improve door-to-door transportation options for those with mobility issues
- Recruit Ride-Share and Automated Vehicle Companies to make pitches for first/last mile solutions for Concord.



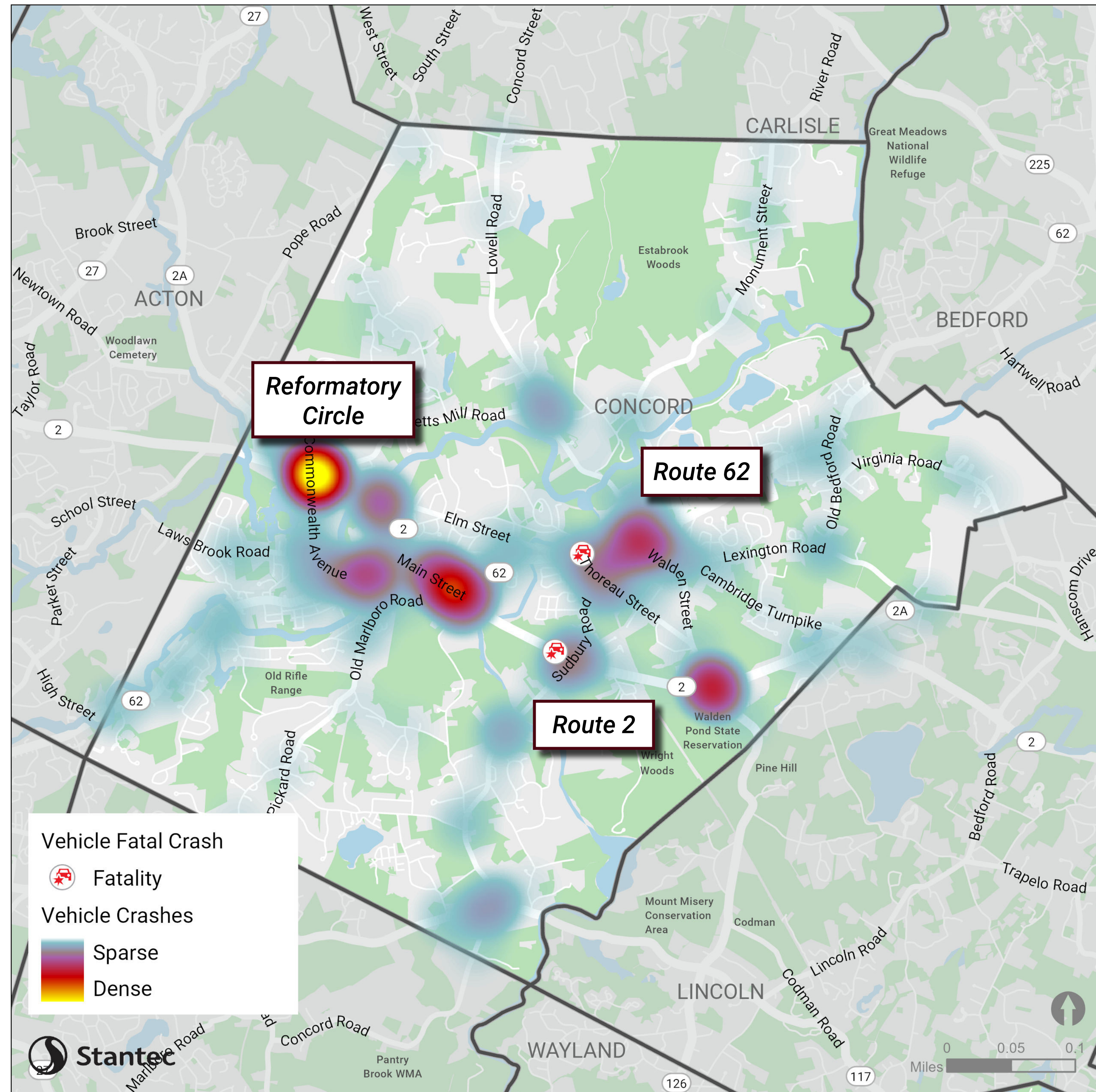
CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Existing Conditions - Driving

DRAFT



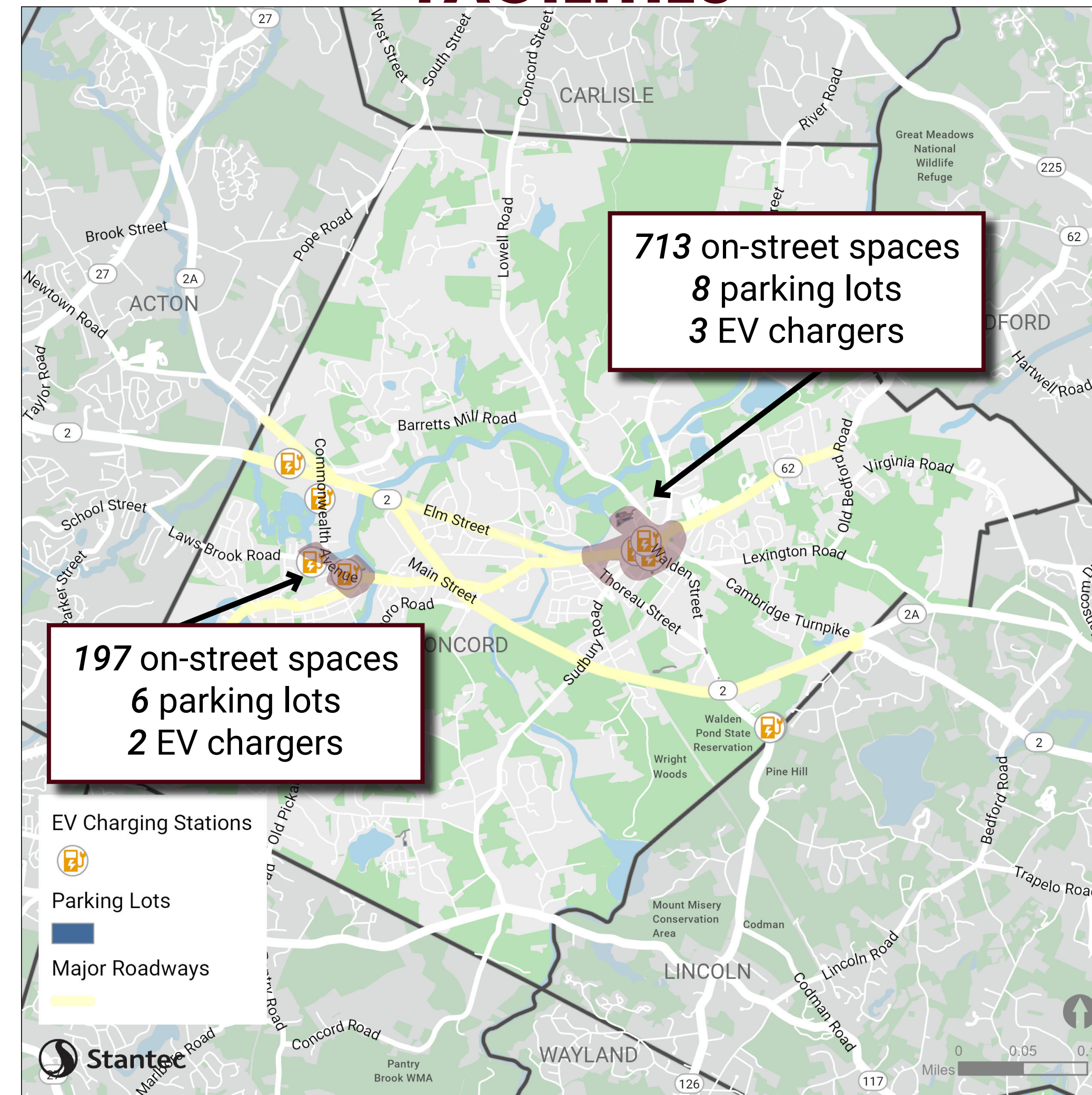
SAFETY - VEHICLE CRASHES (2018-2022)



Data Source: MassDOT

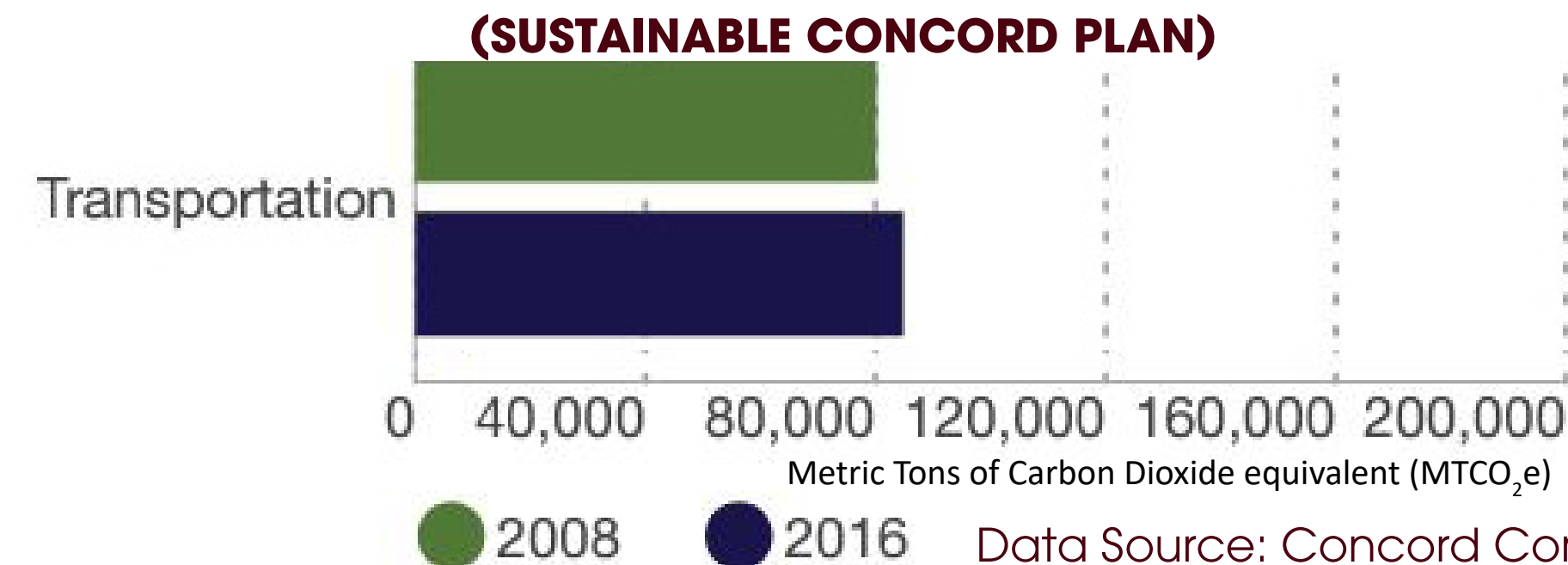
The four major vehicle crash hotspots are at the **Reformatory Circle**, along **Route 2** at Old Road to Nine Acre Corner, **Route 62**, and **Walden Street**.

PARKING AND ROADWAY FACILITIES



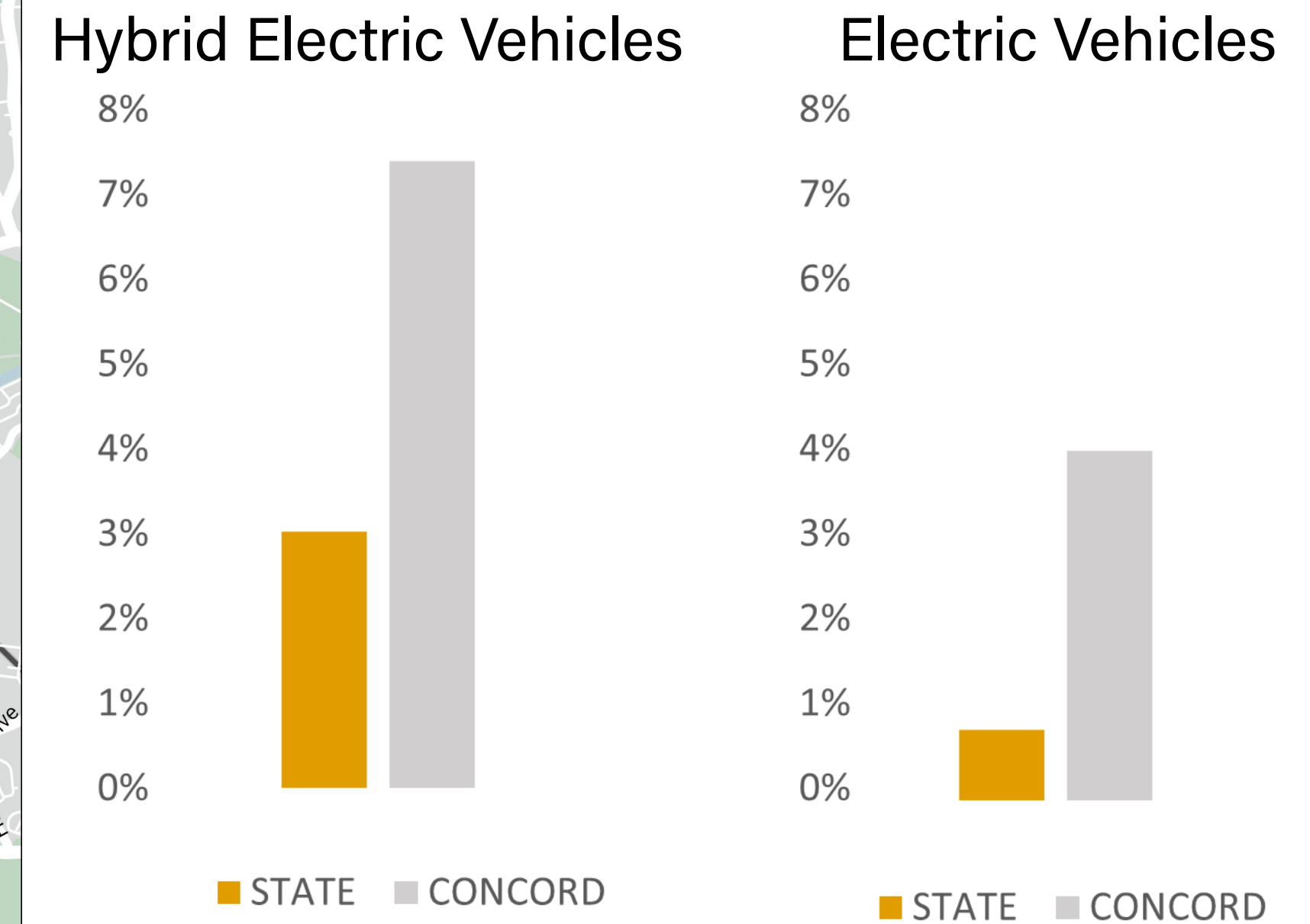
The Town of Concord has **18** parking lots, with **4** EV charging stations. There are just over **900** on-street spaces in the Town of Concord with **1** on-street EV charging station. There are **3** EV chargers in other areas of Concord.

CONCORD TRANSPORTATION EMISSIONS (SUSTAINABLE CONCORD PLAN)

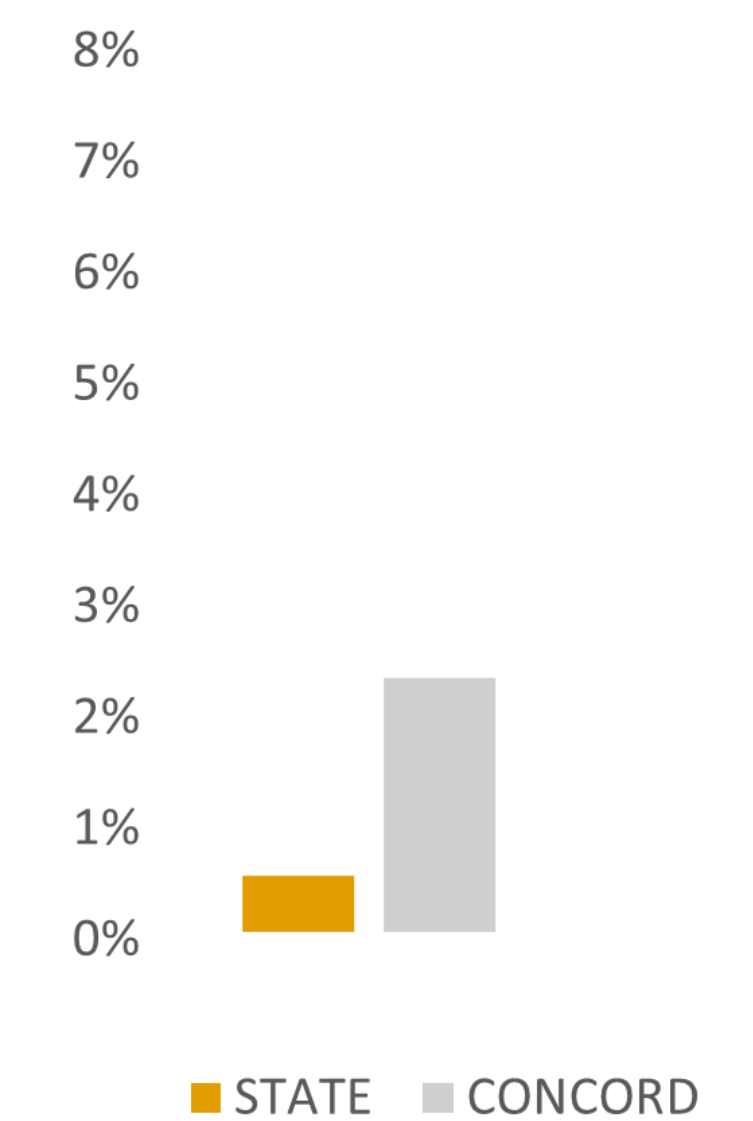


Data Source: Concord Community GHG Emissions

ELECTRIC VEHICLE USAGE



Plug-In Hybrid Electric Vehicles



Data Source: Massachusetts Vehicle Census, Mass.gov

The Town of Concord has the **2nd** highest number of **zero-emission or hybrid vehicles of municipalities in the State**



CONCORD COMPREHENSIVE TRANSPORTATION PLAN

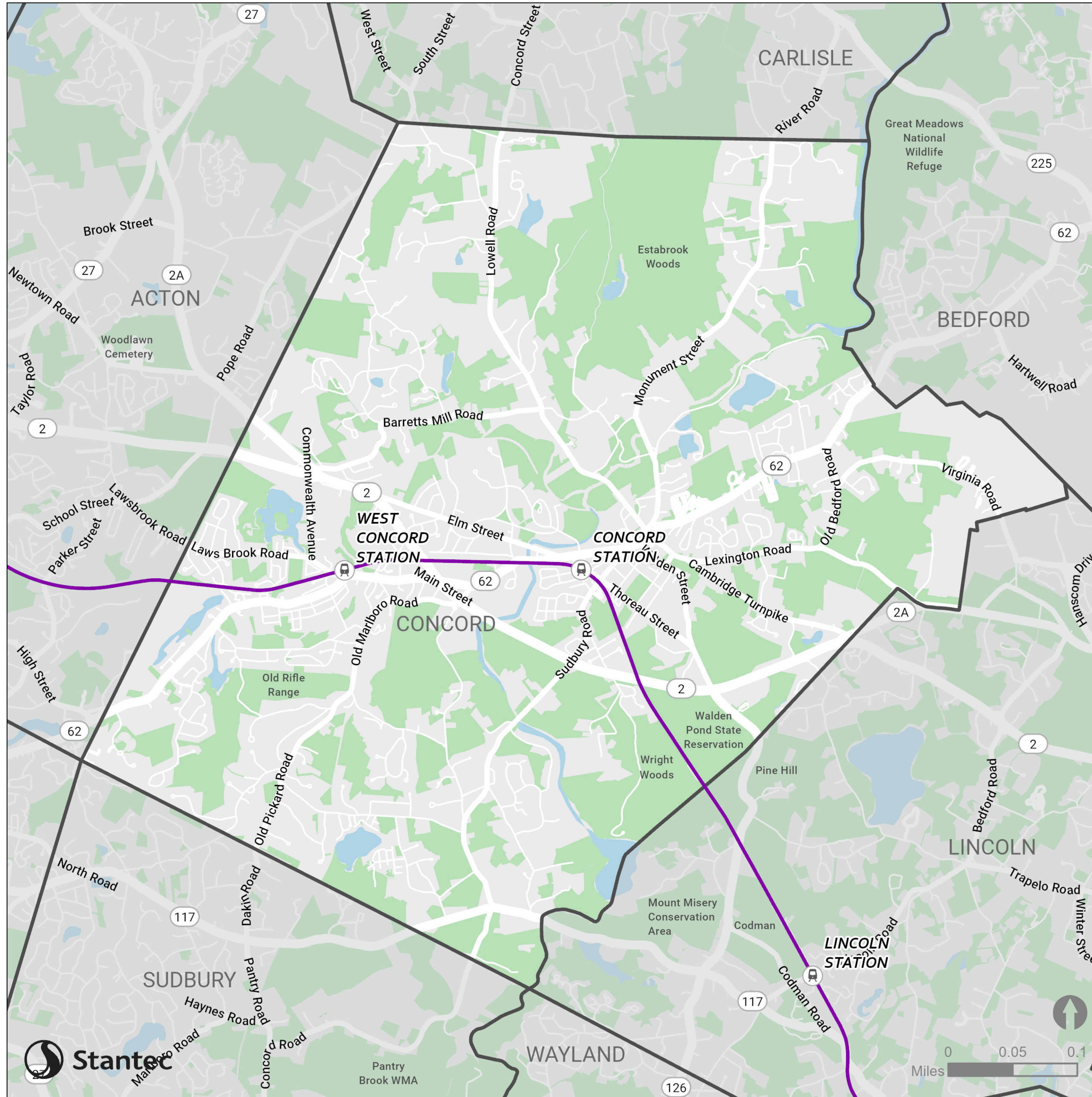
Key Destinations - Where would you change driving in/ around Concord?

DRAFT

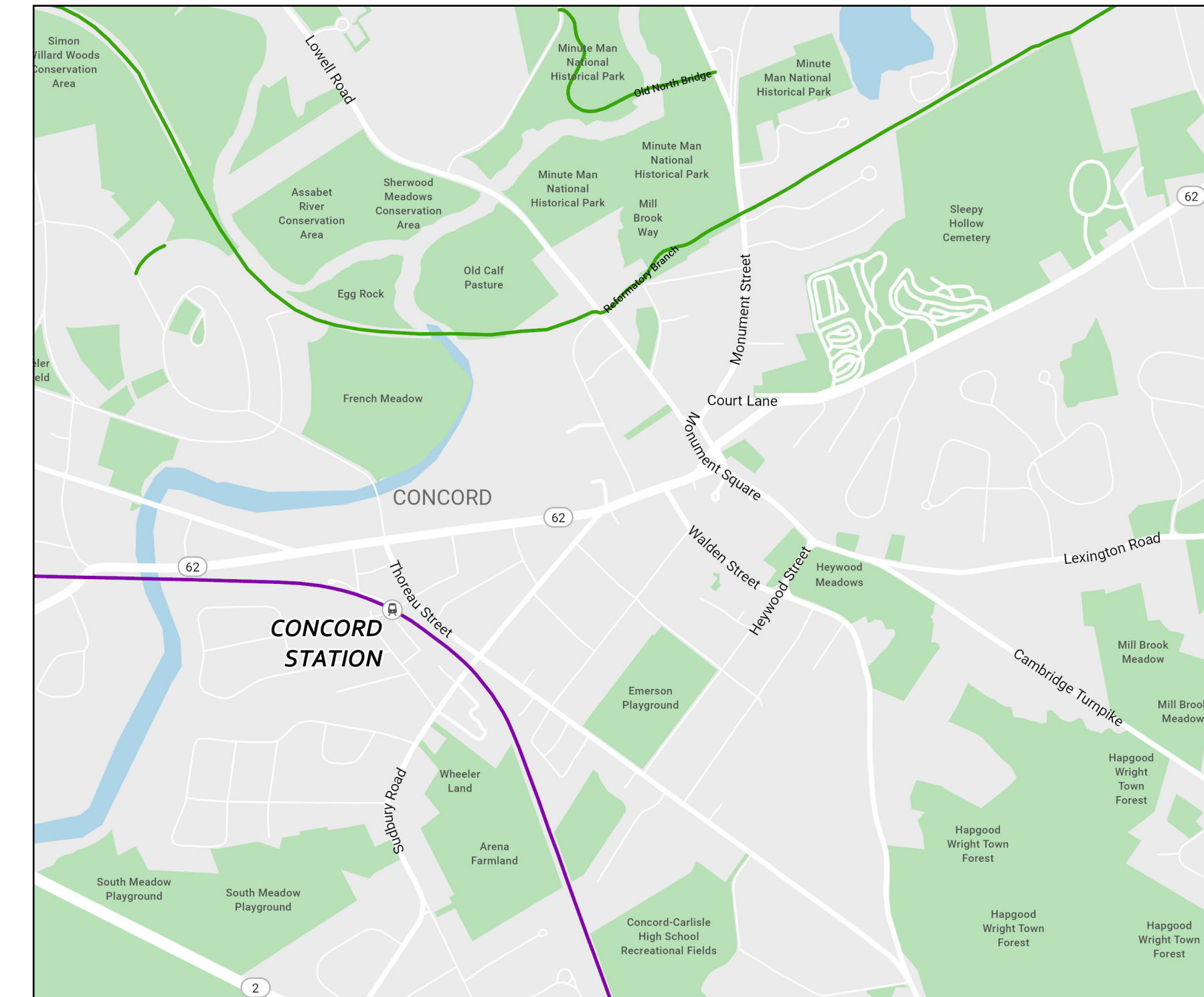


REGIONAL DESTINATIONS

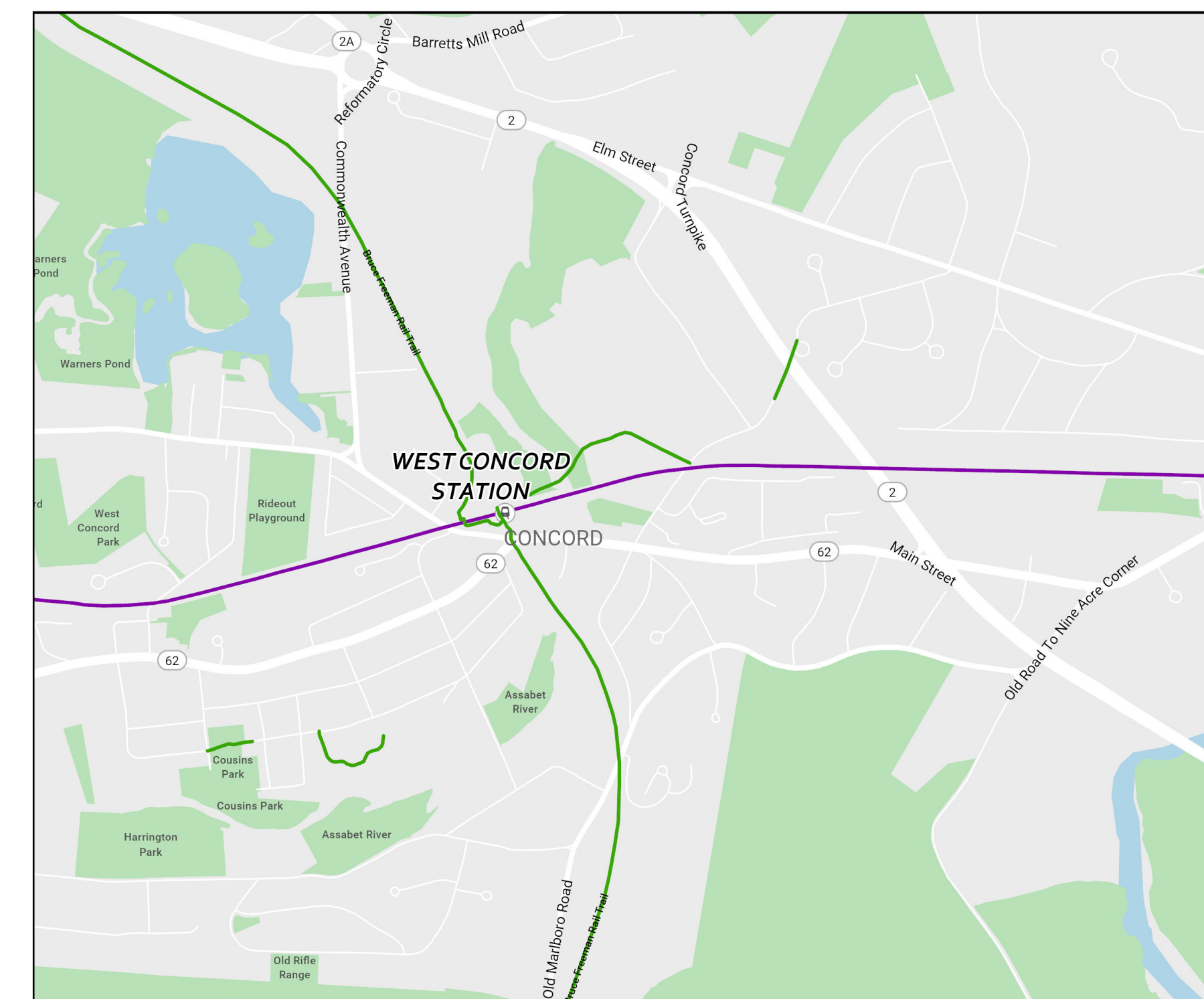
BEDFORD	2% of all trips
ACTON	7% of all trips
LINCOLN	2% of all trips
CARLISLE	1% of all trips
LEXINGTON	2% of all trips
WALTHAM	3% of all trips
WAYLAND	1% of all trips
MAYNARD	3% of all trips
BURLINGTON	2% of all trips
SUDBURY	2% of all trips



CONCORD CENTER



WEST CONCORD



Scan here to visit a webmap where you can add comments to a virtual map





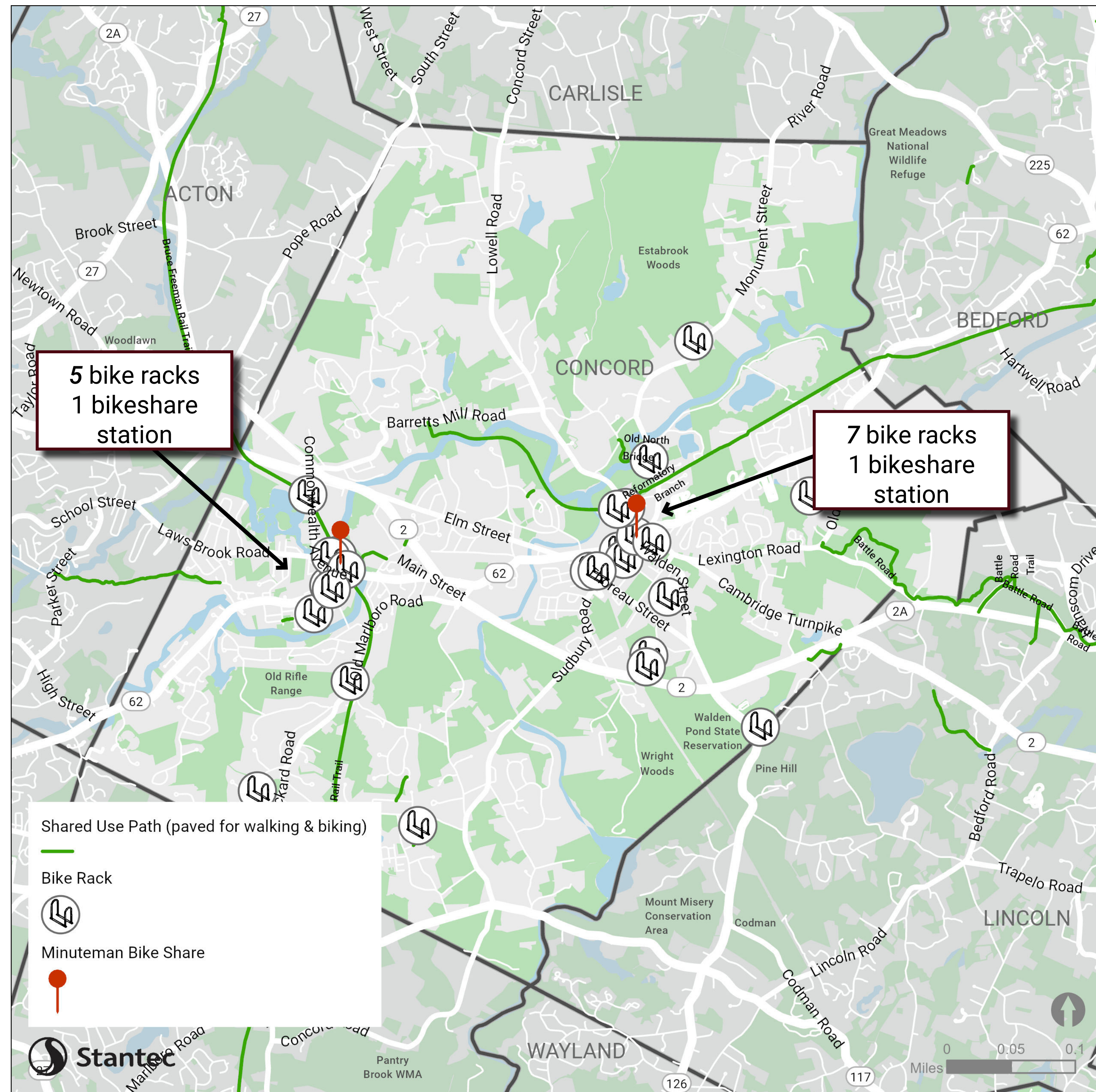
CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Existing Conditions - Bicycling

DRAFT

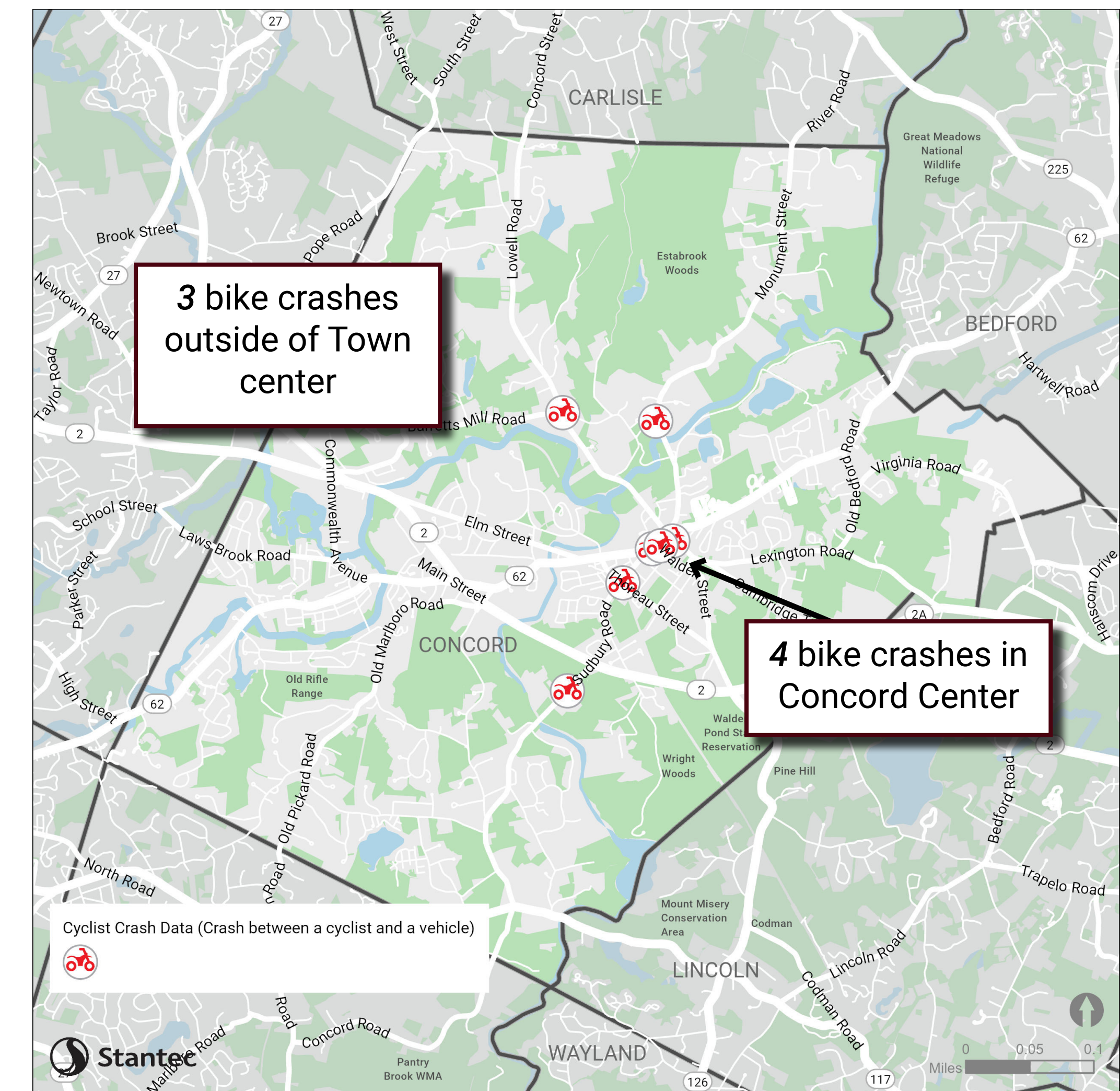


EXISTING BIKE FACILITIES



The Town of Concord has **25** bike racks, over **10** miles of shared use paths, and **2** bikeshare stations in Concord Center and West Concord.

SAFETY - BIKE CRASHES (2018-2022)

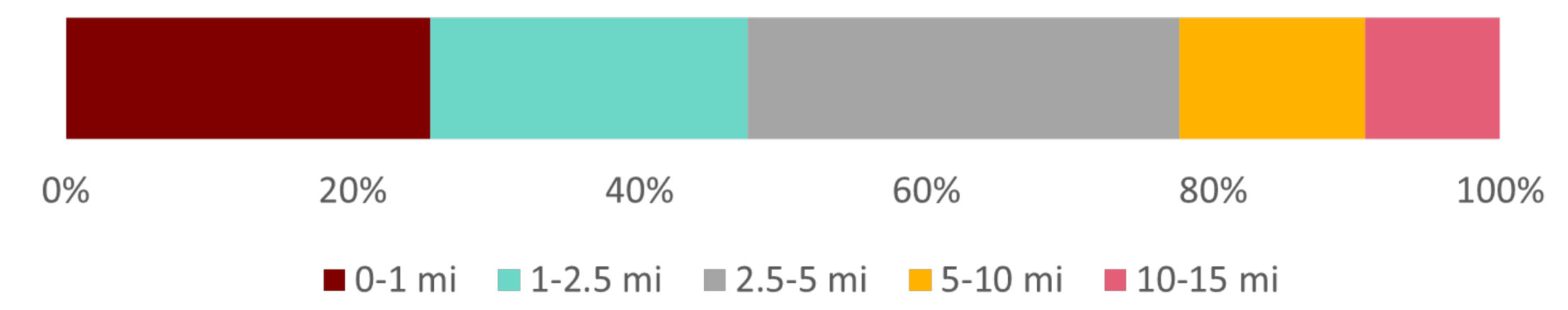


Data Source: MassDOT

There have been **7** bicycle crashes with vehicles in Concord between 2018 and 2022, with the majority (**4**) taking place in Concord Center

LENGTH OF BIKE TRIPS

The average bike ride is **3.7** miles



Data Source: Replica, 2023 Spring



CONCORD COMPREHENSIVE TRANSPORTATION PLAN

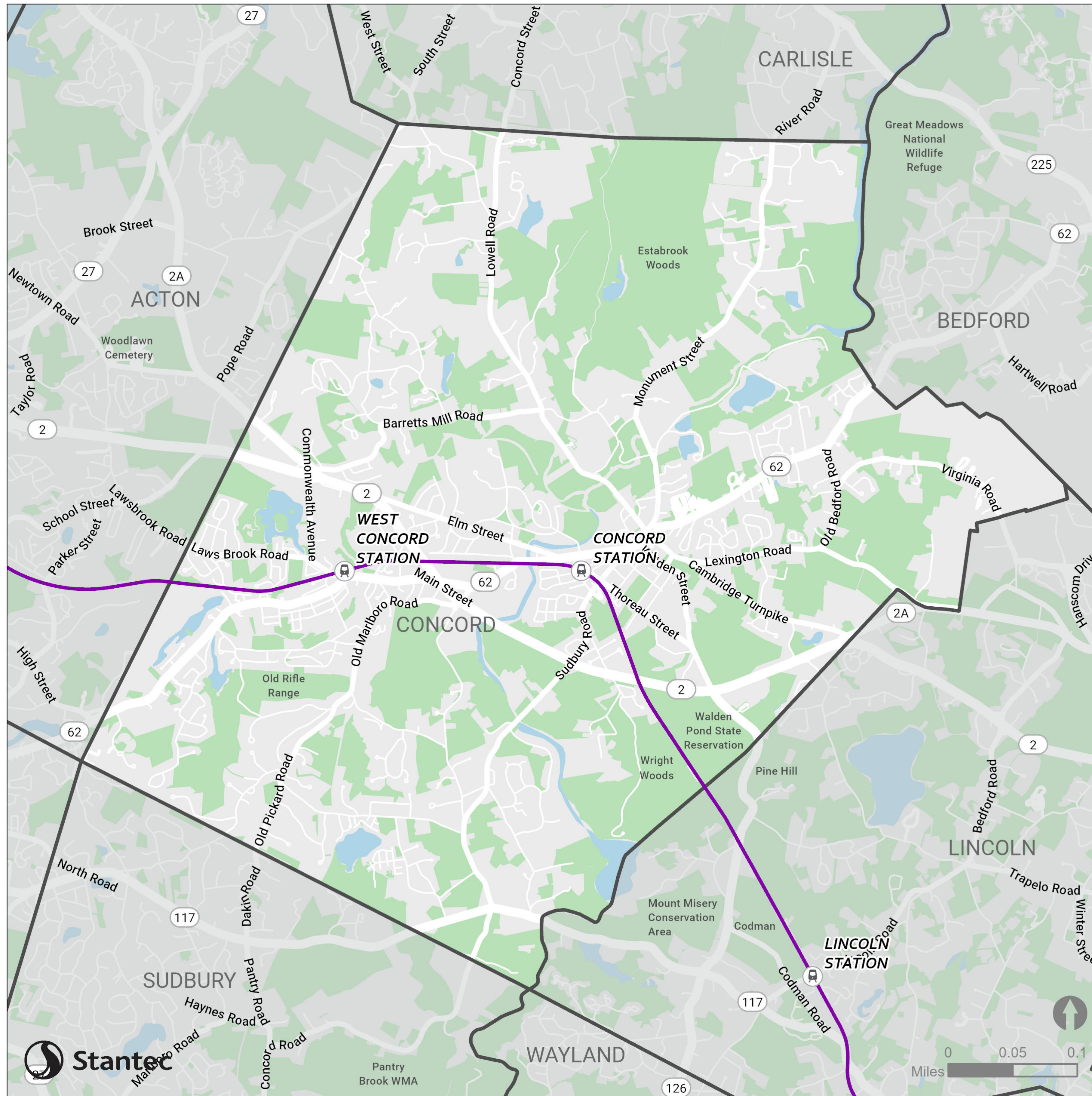
Key Destinations - Where would you change biking in/around Concord?

DRAFT

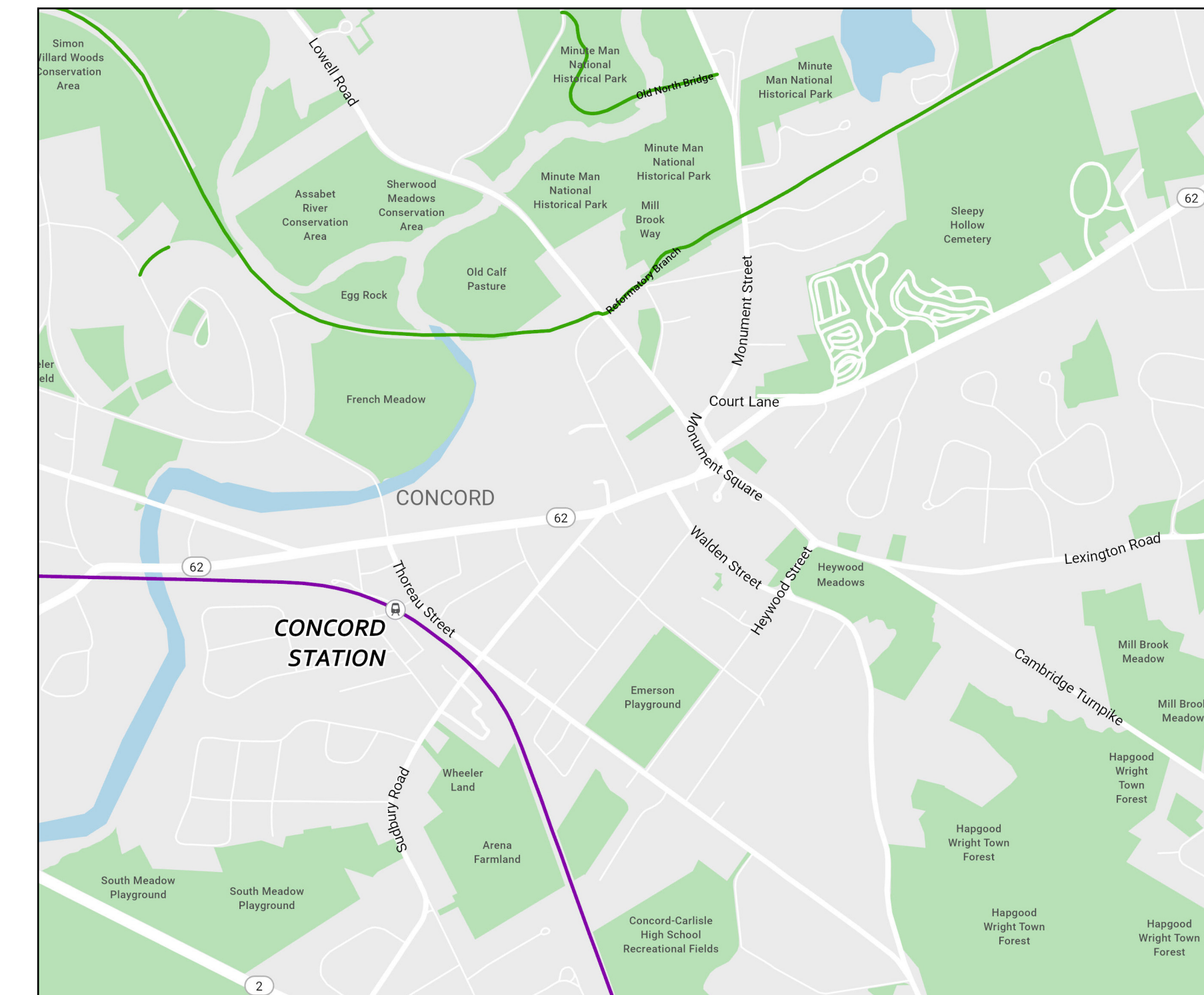


REGIONAL DESTINATIONS

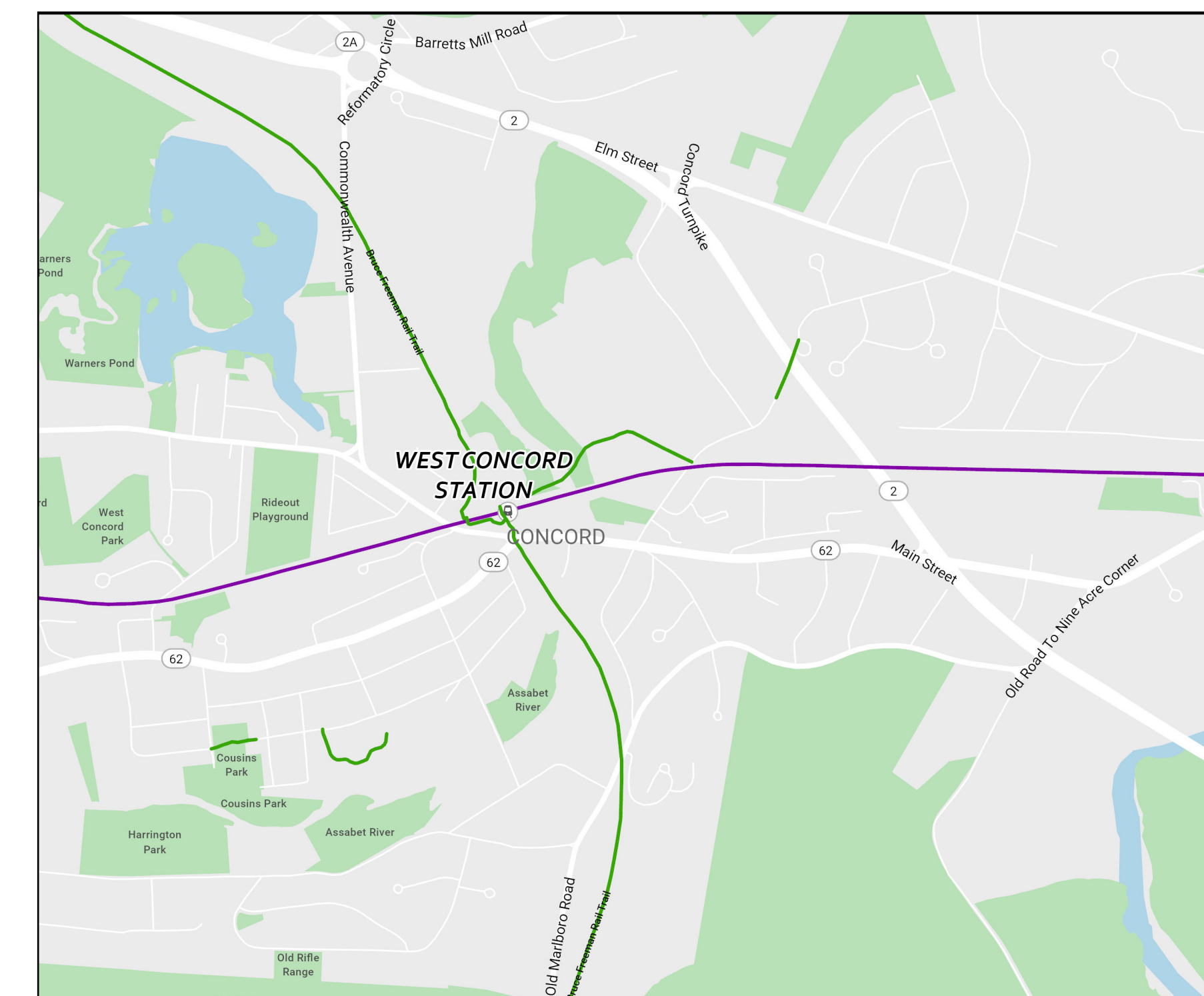
BEDFORD	2% of all trips
ACTON	7% of all trips
LINCOLN	2% of all trips
CARLISLE	1% of all trips
LEXINGTON	2% of all trips
WALTHAM	3% of all trips
WAYLAND	1% of all trips
MAYNARD	3% of all trips
BURLINGTON	2% of all trips
SUDBURY	2% of all trips



CONCORD CENTER



WEST CONCORD



Scan here to visit a webmap where you can add comments to a virtual map





CONCORD COMPREHENSIVE TRANSPORTATION PLAN

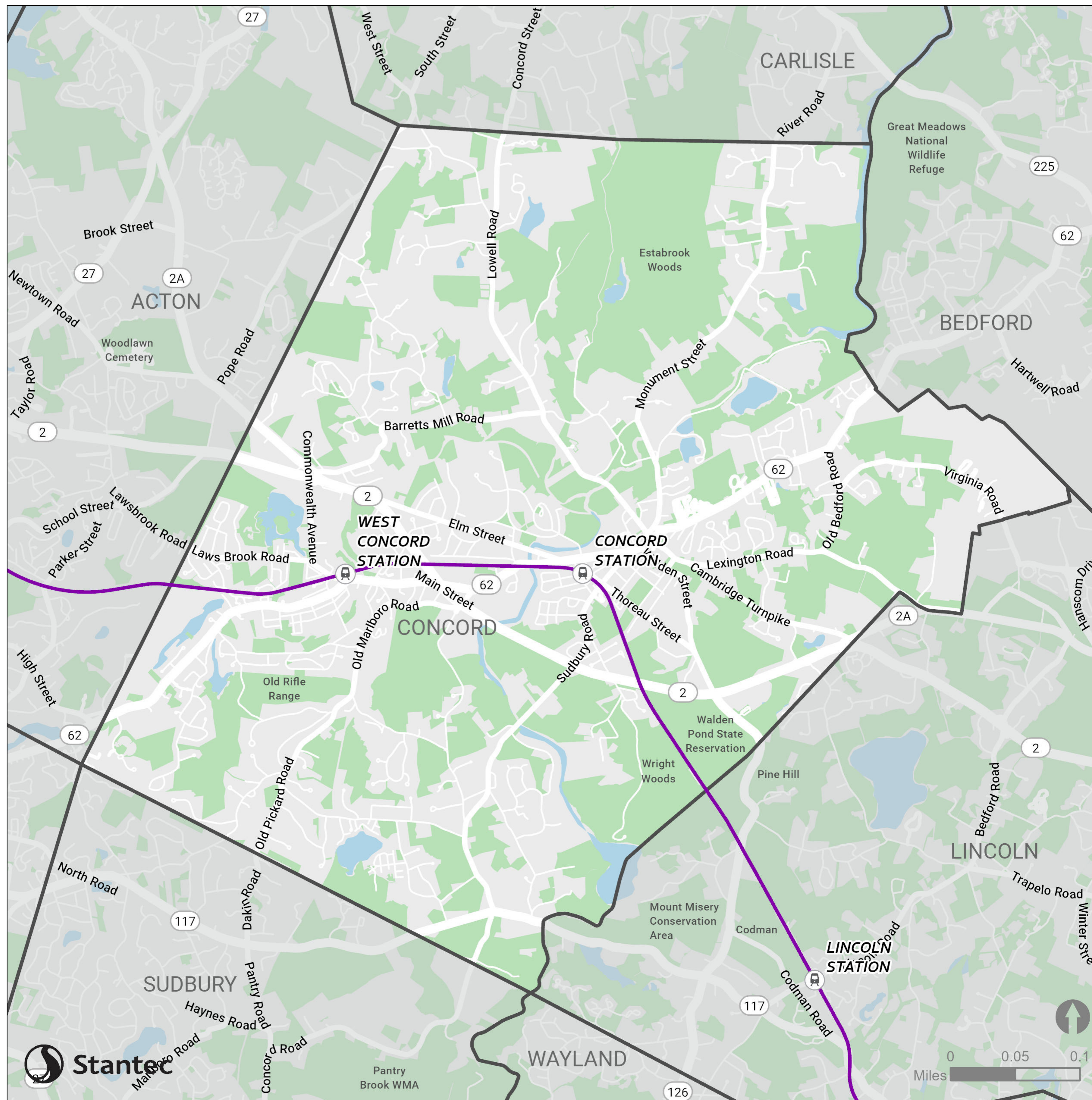
Key Destinations - Where would you change walking in/around Concord?

DRAFT

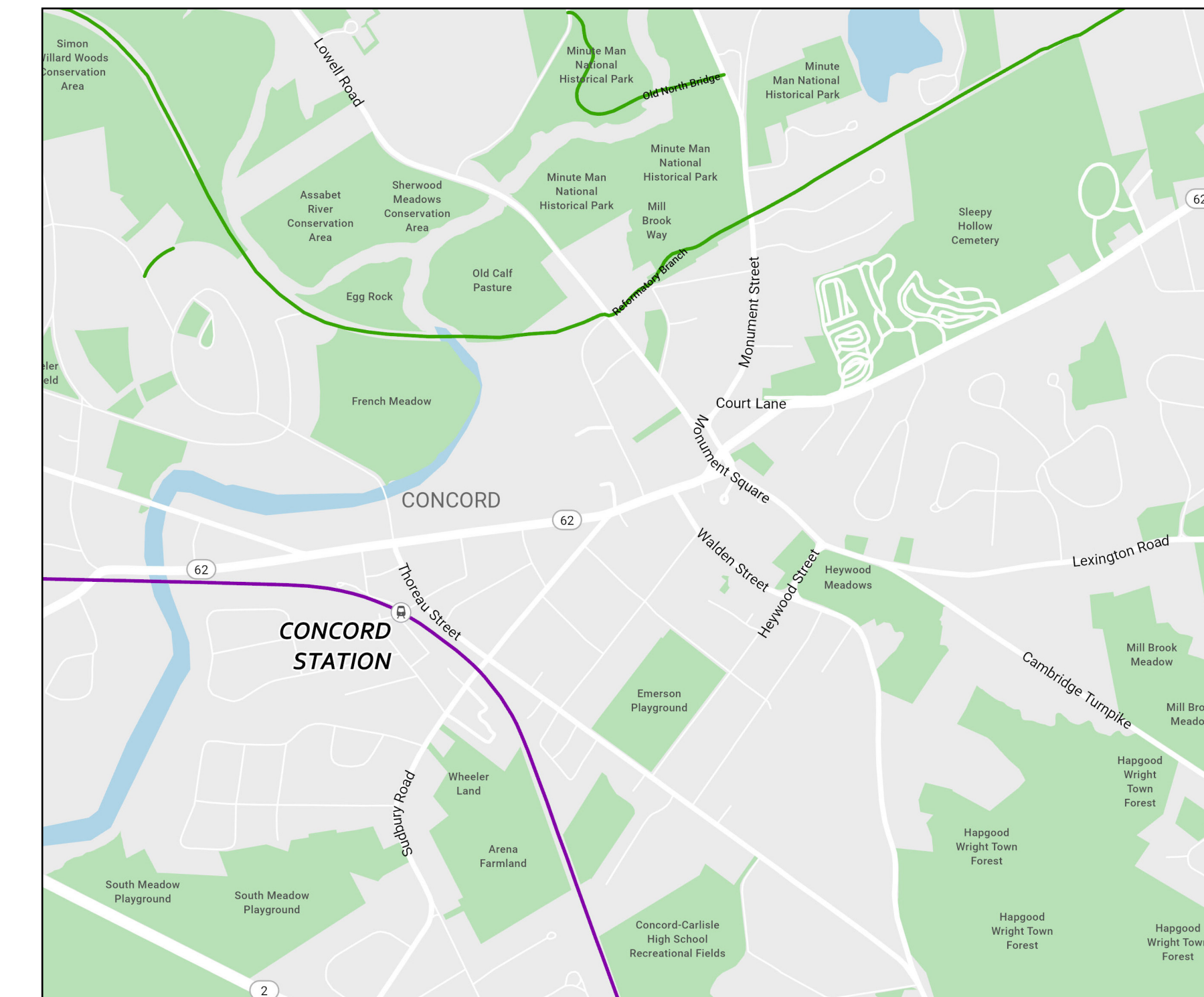


REGIONAL DESTINATIONS

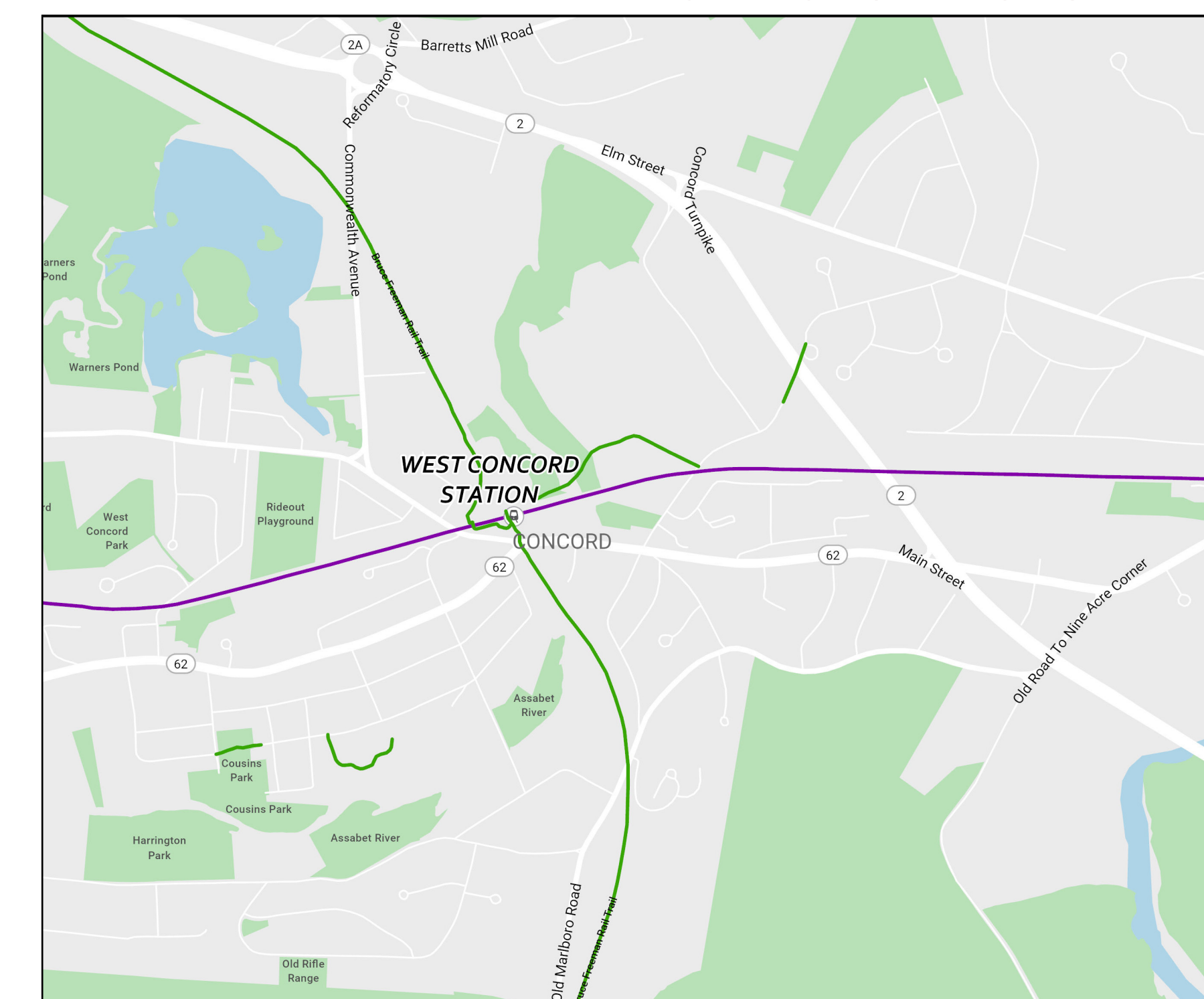
BEDFORD	2% of all trips
ACTON	7% of all trips
LINCOLN	2% of all trips
CARLISLE	1% of all trips
LEXINGTON	2% of all trips
WALTHAM	3% of all trips
WAYLAND	1% of all trips
MAYNARD	3% of all trips
BURLINGTON	2% of all trips
SUDBURY	2% of all trips



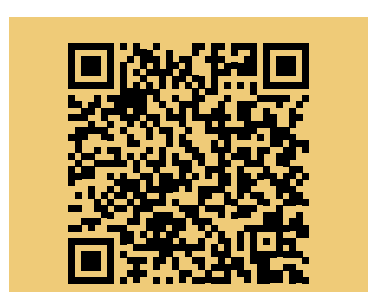
CONCORD CENTER



WEST CONCORD



Scan here to visit a webmap where you can add comments to a virtual map





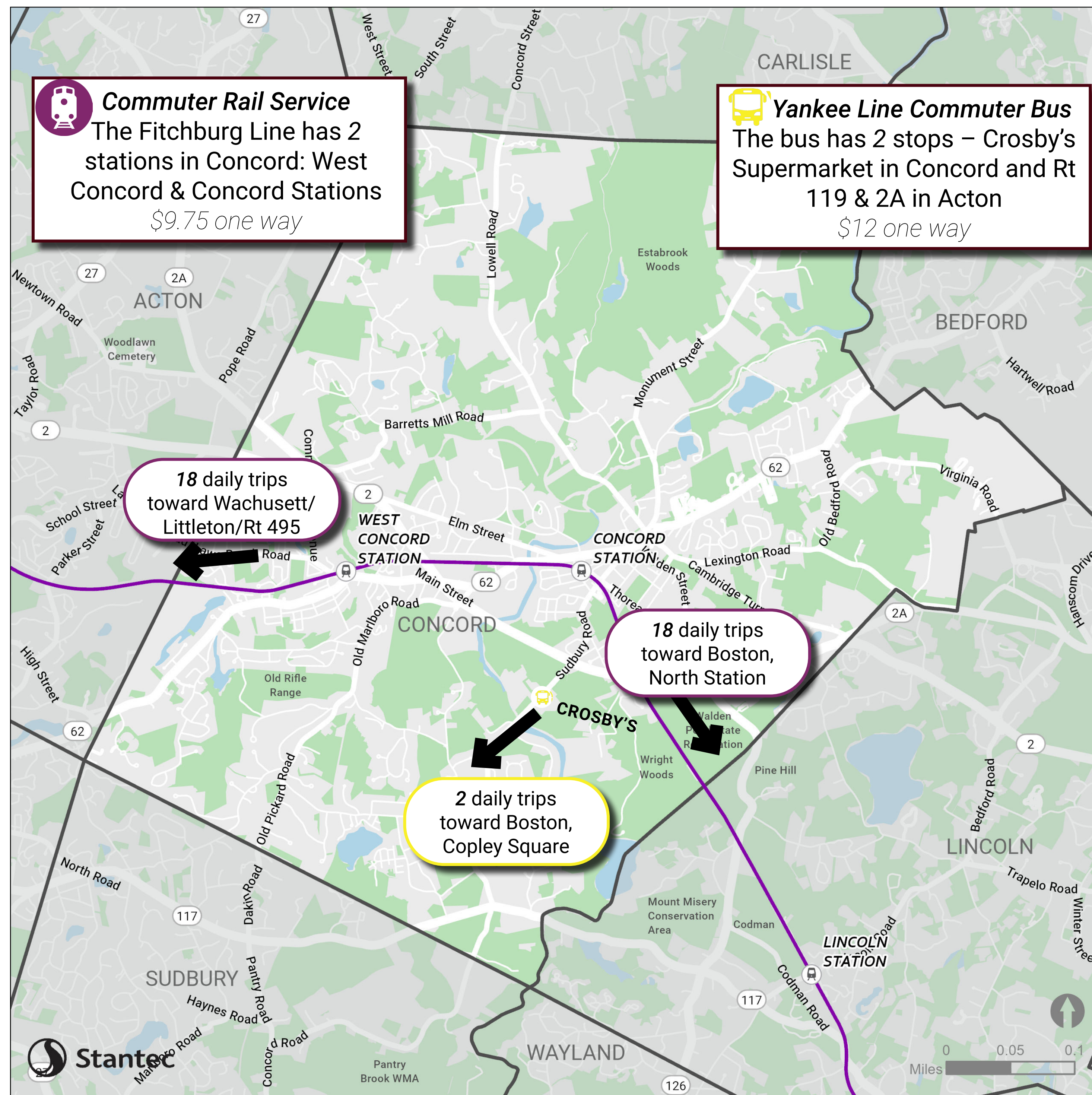
CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Existing Conditions - Transit

DRAFT



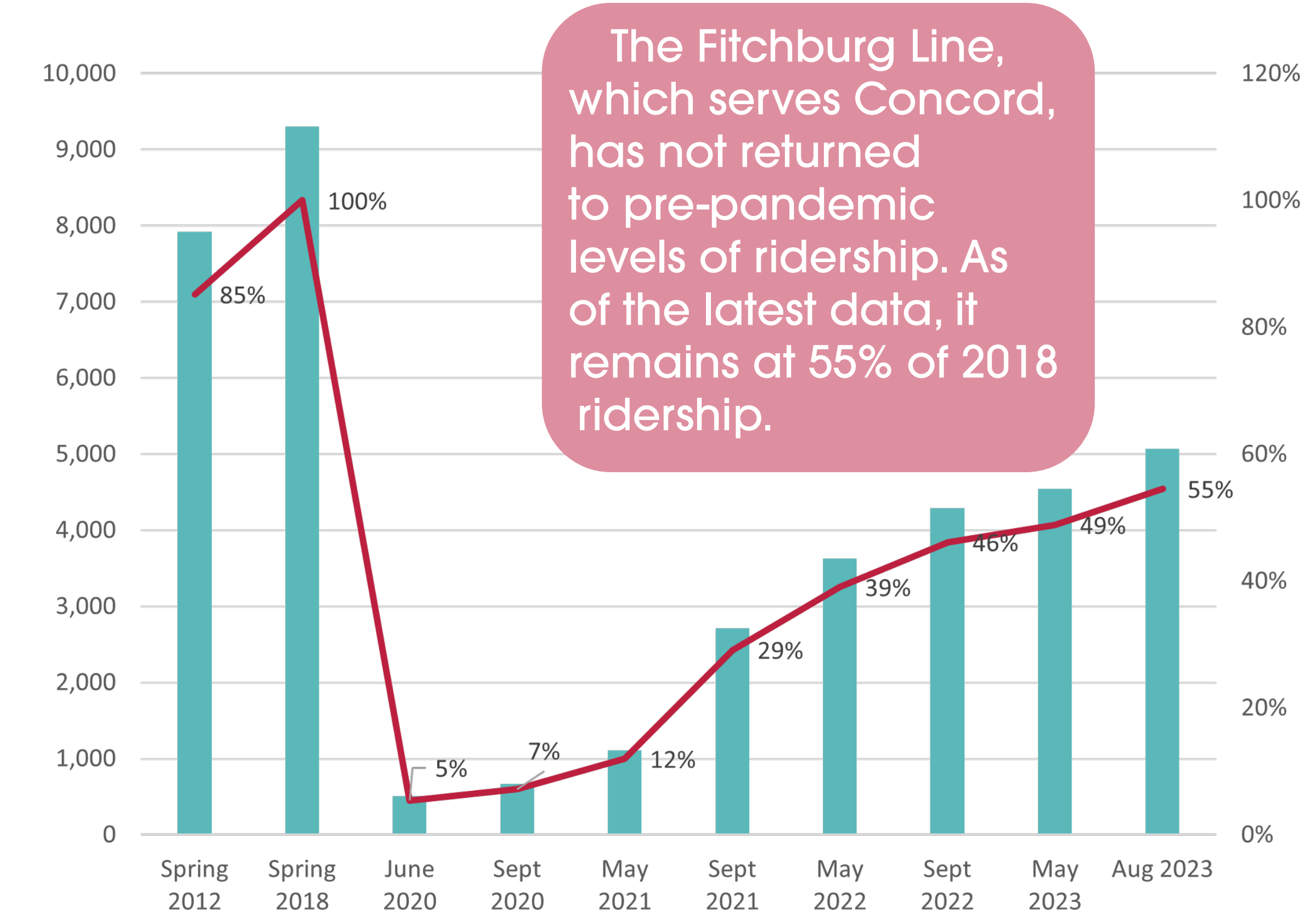
PUBLIC TRANSIT FACILITIES



Most transit in Concord is focused on commuting to Boston. According to the US Census 7% of people living in Concord take public transit to work.

Data Source: 2021 American Community Survey, 5-Year Estimates

FITCHBURG LINE - AVERAGE WEEKDAY DAILY BOARDINGS



The Fitchburg Line, which serves Concord, has not returned to pre-pandemic levels of ridership. As of the latest data, it remains at 55% of 2018 ridership.

COUNCIL ON AGING (COA) VAN SERVICE



The COA vans are available to seniors in Concord who need rides to destinations within Concord and appointments at Acton Medical. Additionally, weekly shopping trips are offered to Market Basket in Maynard and Crosby's Market in Concord. Twice a month, the van offers rides to Trader Joe's in Acton.



CONCORD COMPREHENSIVE TRANSPORTATION PLAN

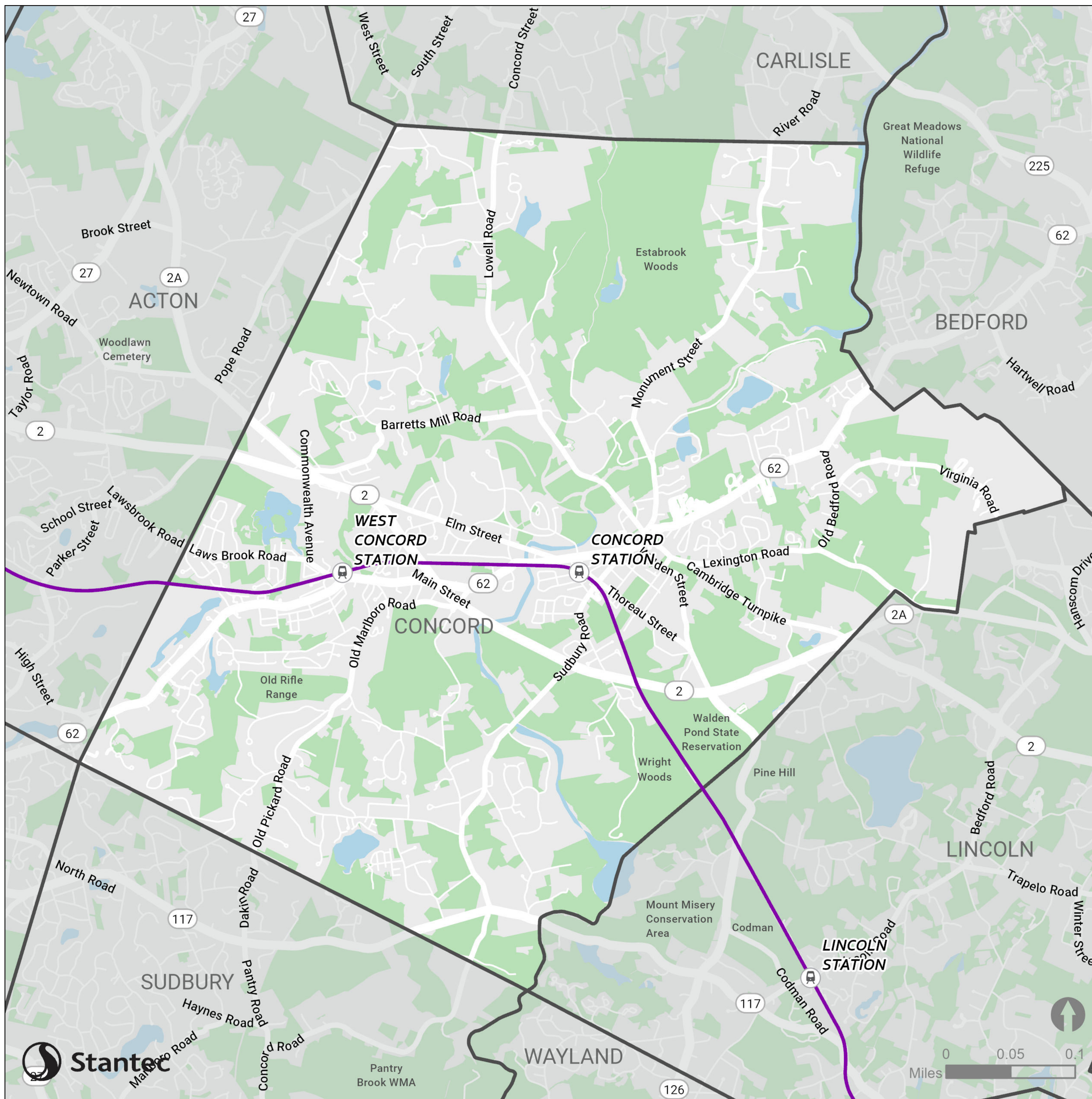
Key Destinations - Where would you change transit in/around Concord?

DRAFT

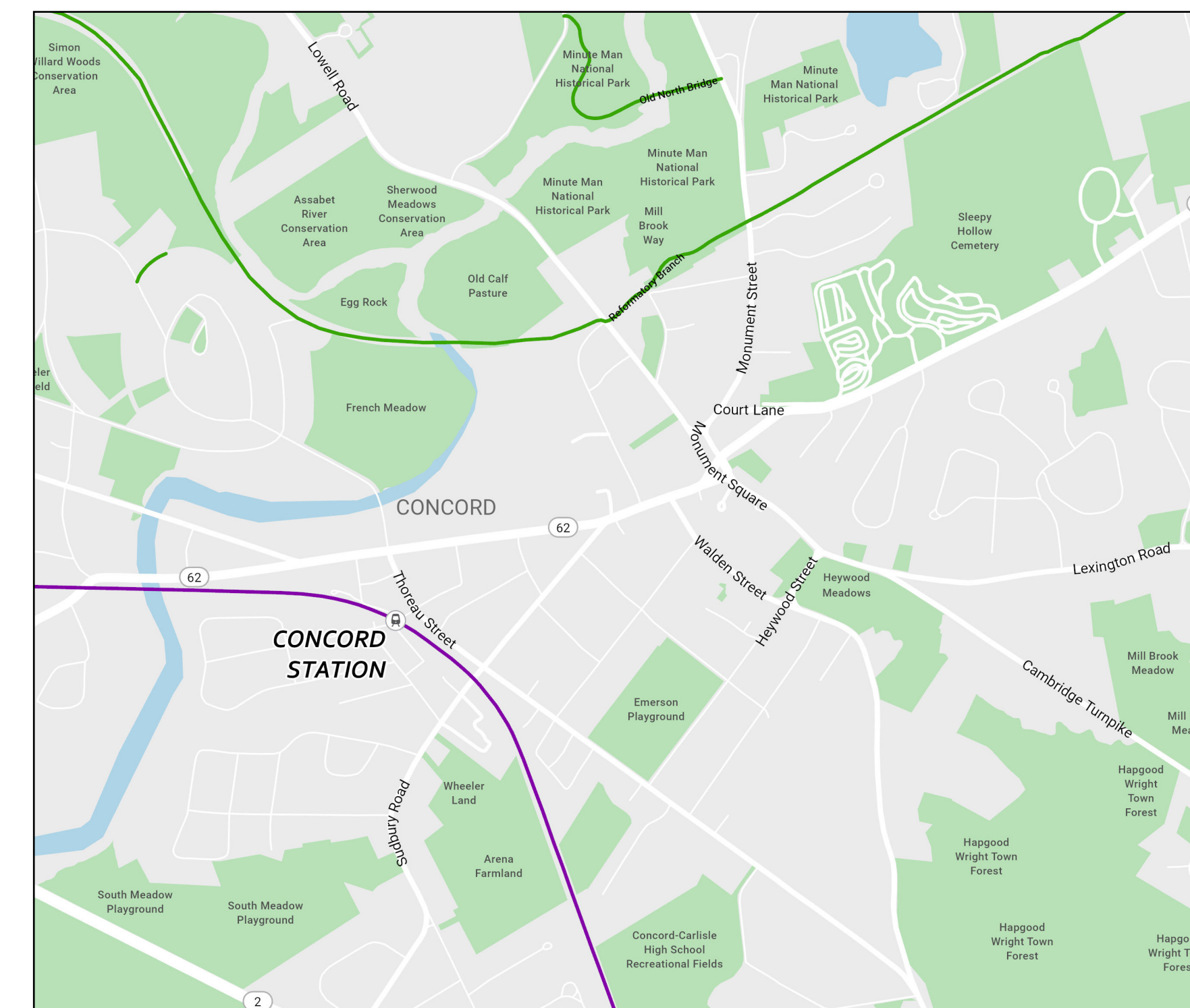


REGIONAL DESTINATIONS

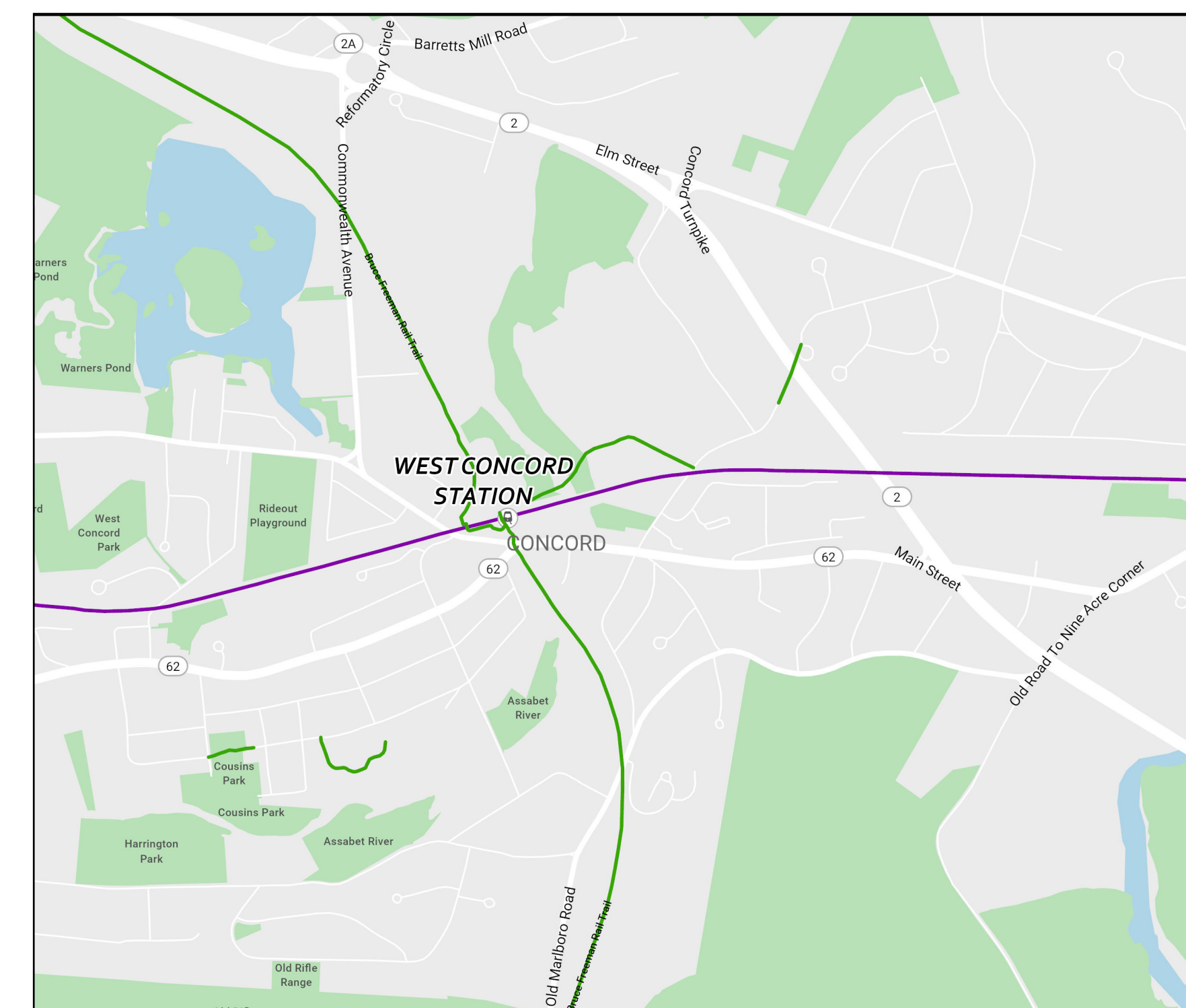
BEDFORD	2% of all trips
ACTON	7% of all trips
LINCOLN	2% of all trips
CARLISLE	1% of all trips
LEXINGTON	2% of all trips
WALTHAM	3% of all trips
WAYLAND	1% of all trips
MAYNARD	3% of all trips
BURLINGTON	2% of all trips
SUDBURY	2% of all trips



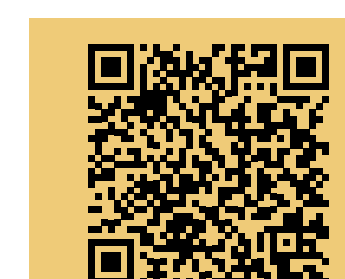
CONCORD CENTER



WEST CONCORD



Scan here to visit a webmap where you can add comments to a virtual map





CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Travel Patterns in Concord

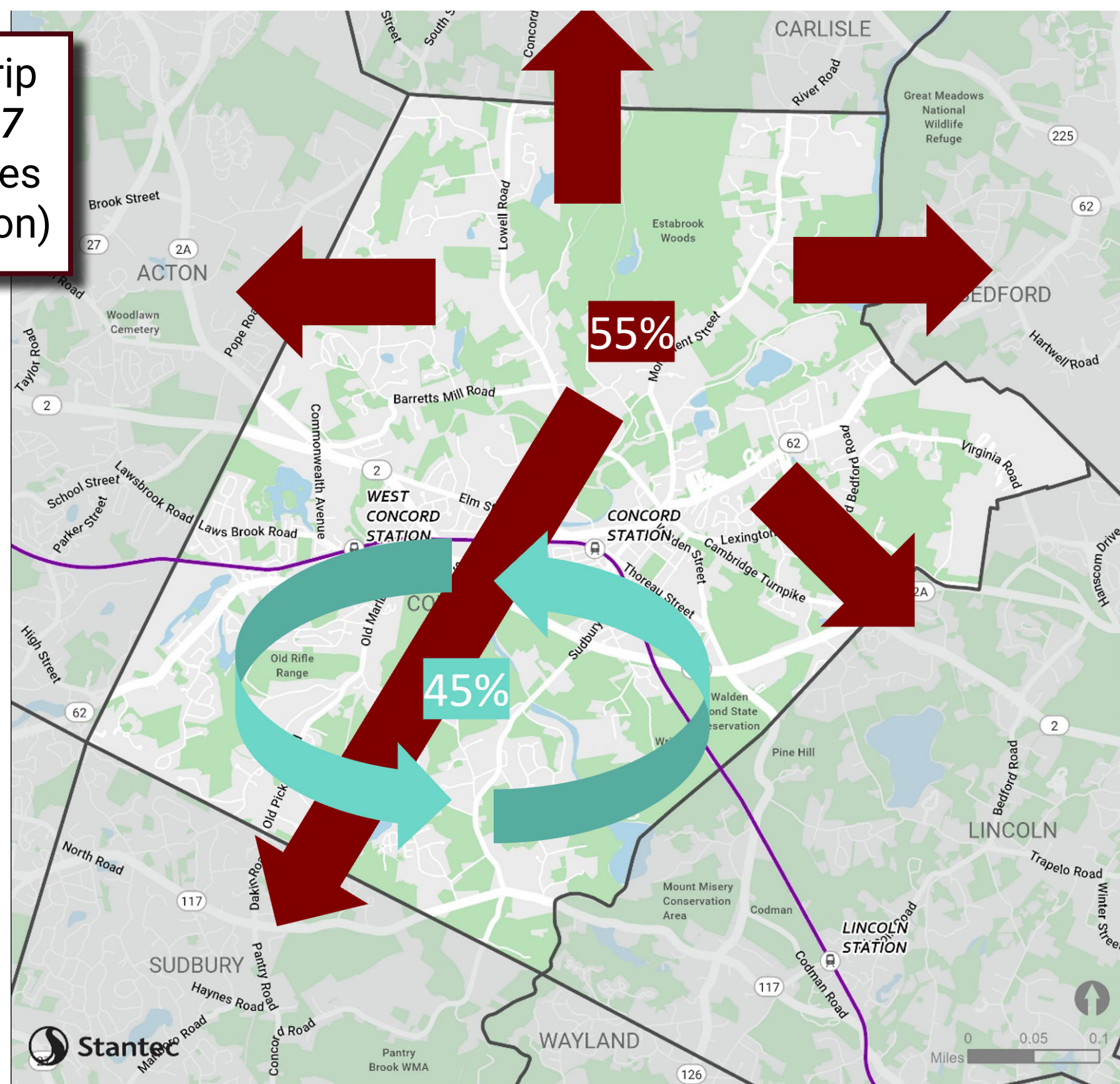
Data Source: Replica, 2023 Spring

DRAFT



TRIPS ORIGINATING IN CONCORD

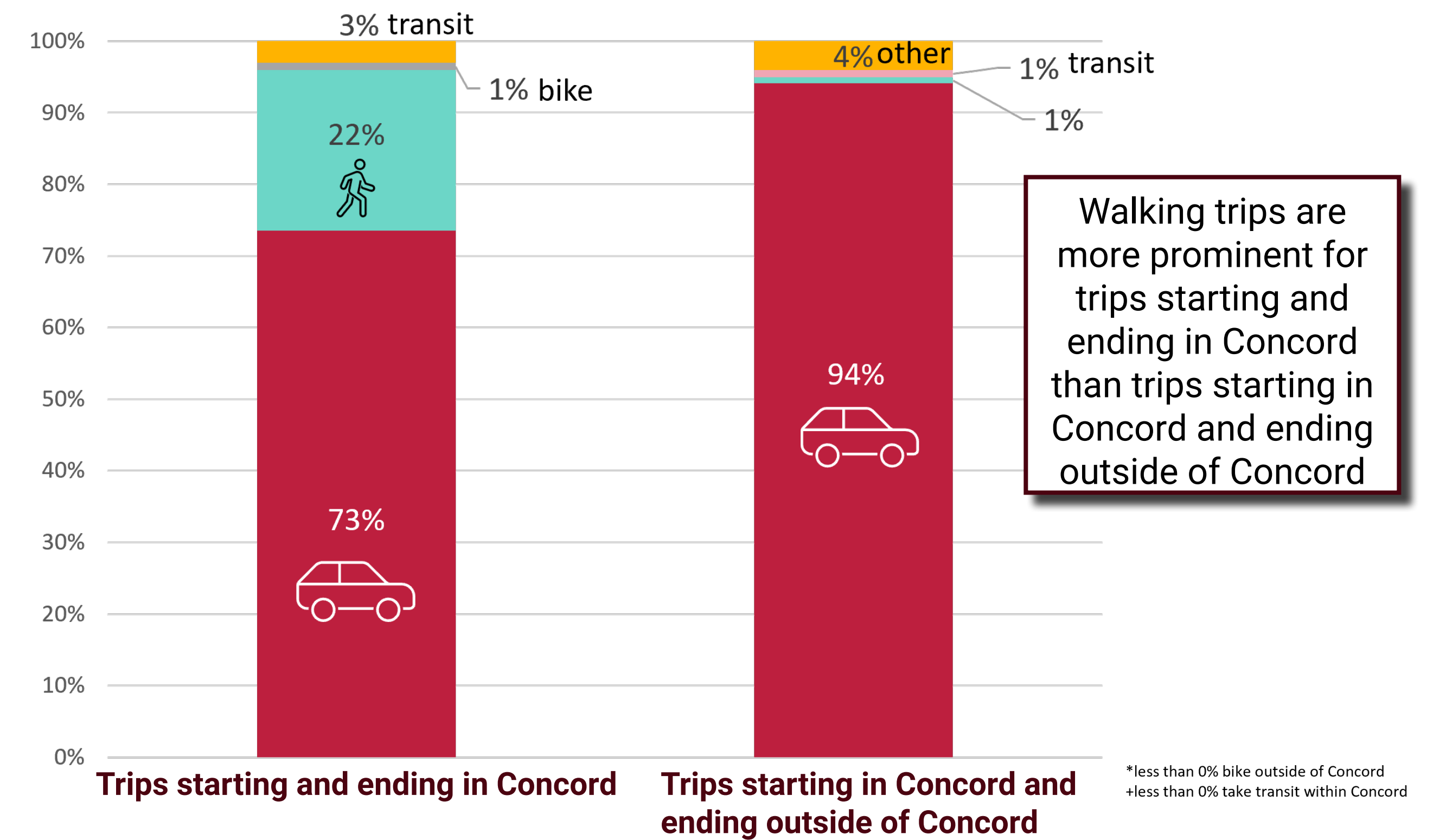
The average trip distance is 9.7 miles (all modes of transportation)



Trips starting and ending in Concord

Trips starting in Concord and ending outside of Concord

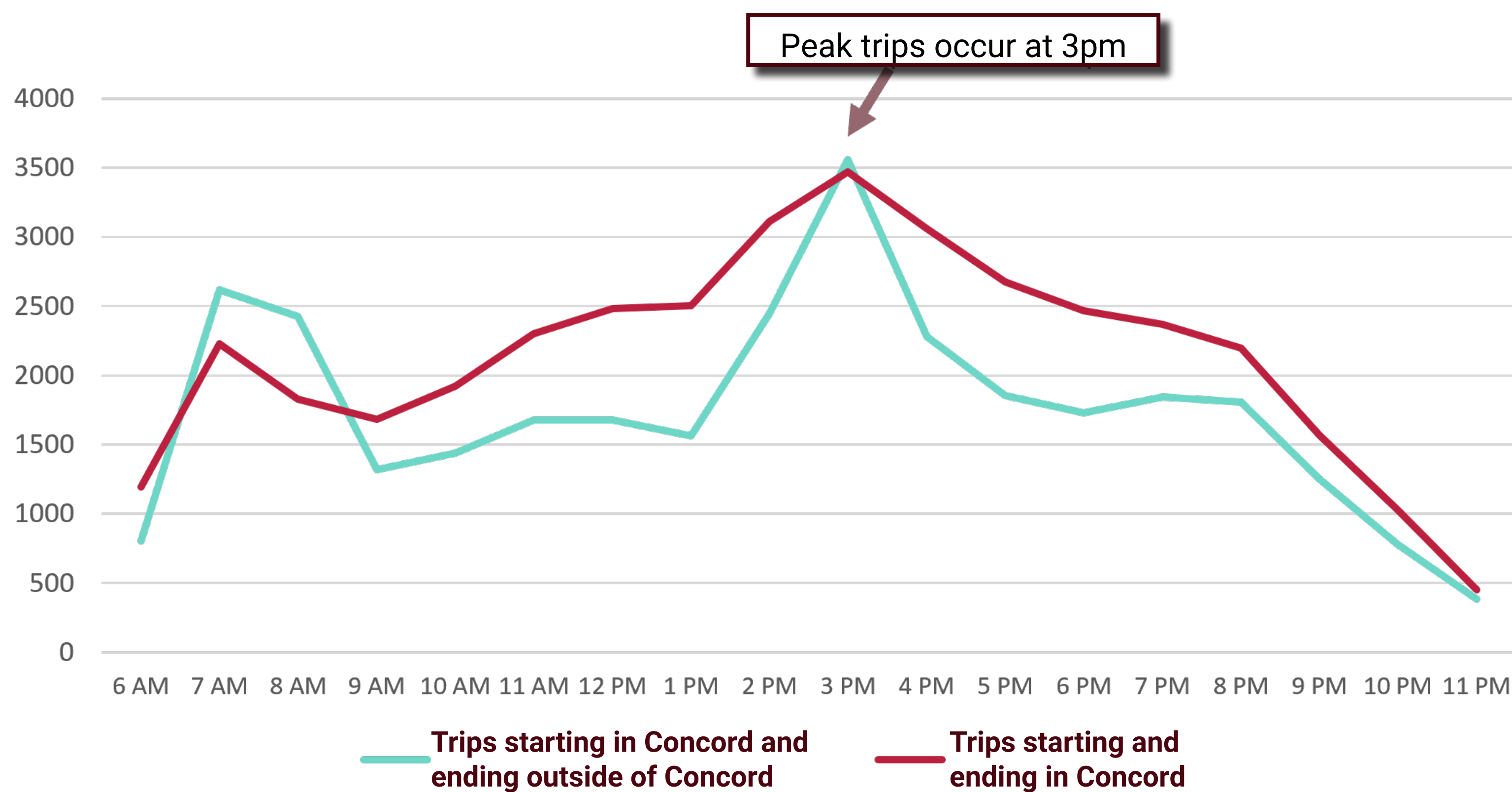
TRIPS ORIGINATING IN CONCORD BY MODE IN AND OUT OF CONCORD



Walking trips are more prominent for trips starting and ending in Concord than trips starting in Concord and ending outside of Concord

*less than 0% bike outside of Concord
+less than 0% take transit within Concord

TRIPS ORIGINATING IN CONCORD BY TIME OF DAY

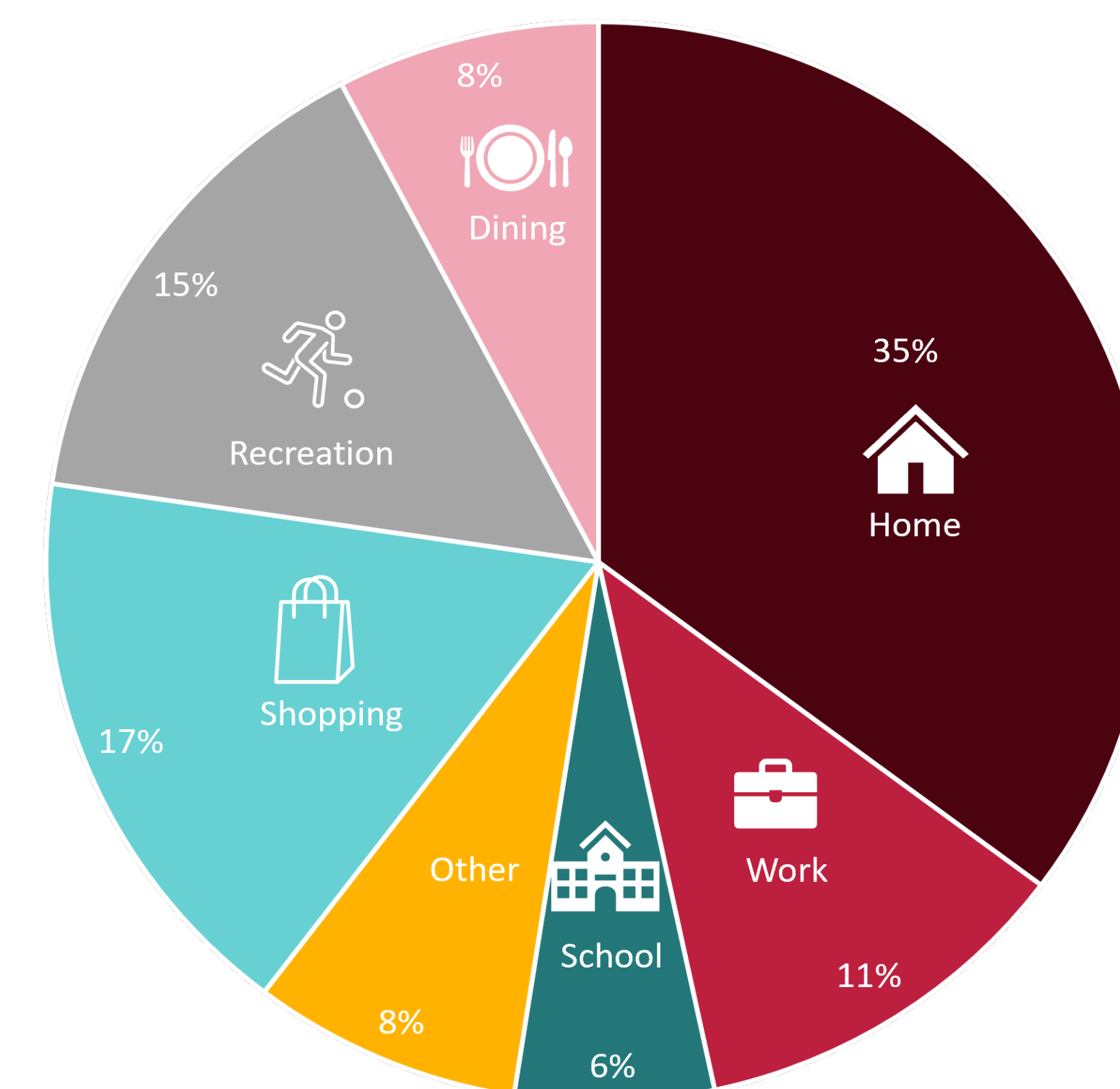


Peak trips occur at 3pm

Trips starting in Concord and ending outside of Concord

Trips starting and ending in Concord

TRIPS ORIGINATING IN CONCORD BY DESTINATION TYPE



Outside home trips, dining, recreation, and shopping trips are common destination types.




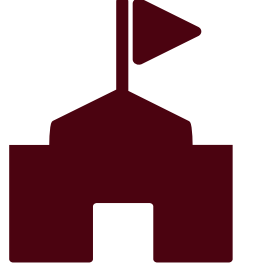

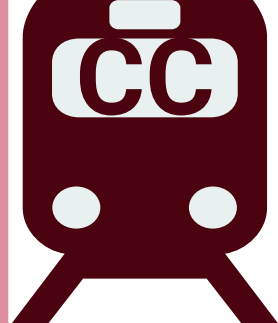
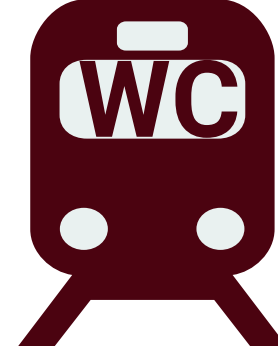
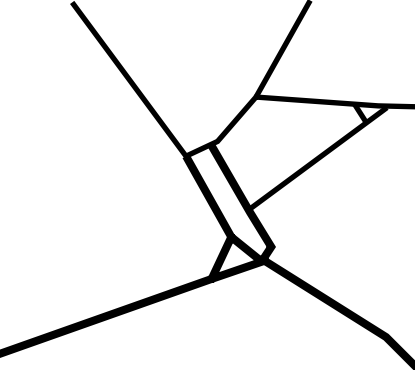
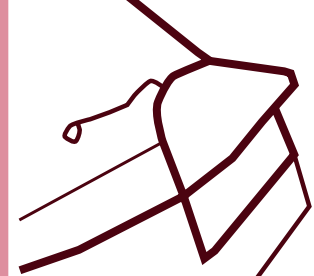
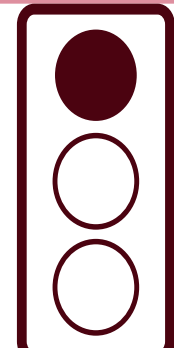

CONCORD COMPREHENSIVE TRANSPORTATION PLAN

Priorities - Top Transportation Improvements in Concord

DRAFT



Select the locations in Concord where you would like to see improvements.
Use the colored dots to vote for at most 5 or as few as 1.

 <p>MY NEIGHBORHOOD</p>	 <p>NEAR SCHOOLS</p>	 <p>NEAR PARKS</p>
 <p>NEAR THE CONCORD CENTER TRAIN STATION (THOREAU DEPOT)</p>	 <p>NEAR THE WEST CONCORD CENTER TRAIN STATION</p>	 <p>CONCORD CENTER</p>
 <p>WEST CONCORD VILLAGE</p>	 <p>BAKER AVE</p>	 <p>ALONG ROUTE 2</p>
<p>OTHER LOCATIONS <i>Write in any missing areas</i></p>		