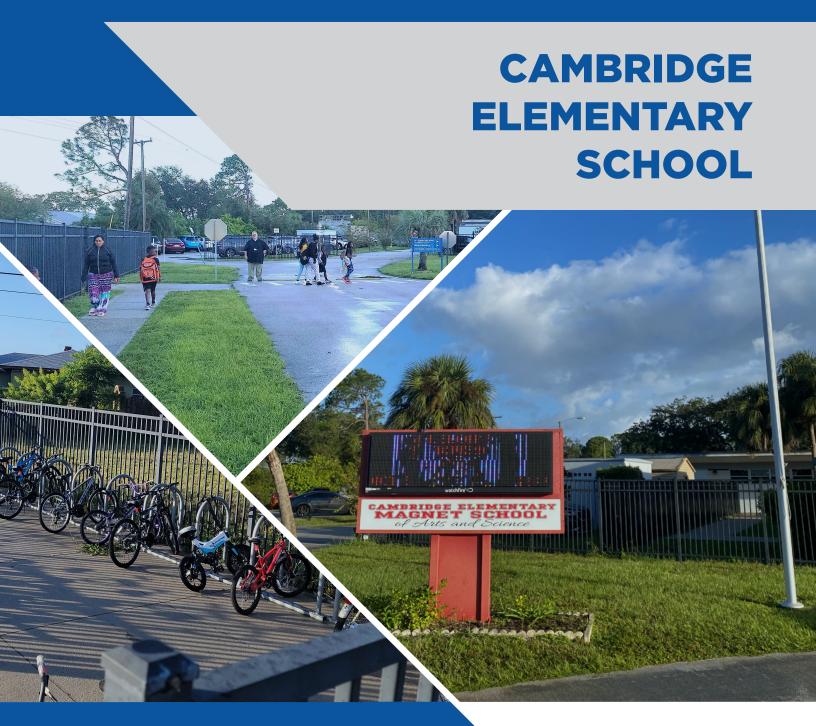
SCHOOL ROUTES ANALYSIS



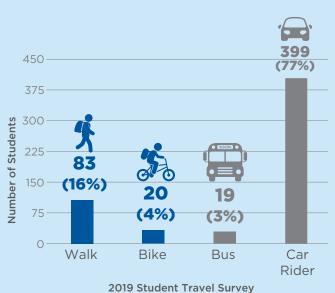
GRAPHICAL SUMMARY REPORT

FEBRUARY 2024





Student Travel Modes (2019)



Total Bicycle & Pedestrian Crashes within Study Area

† 17 Pedestrian



School Aged Bicycle & Pedestrian Crashes within Study Area





O Bicycle

1 Non-Incapacitating Injury

August 2017 to July 2023 Crashes from University of Florida's Signal Four Analytics Database

Signals and Crossings within Study Area

11

Signalized Intersections



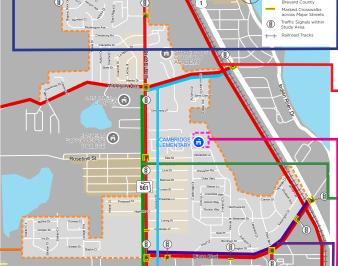
Unsignalized Marked Crosswalk Across Major Street



3

Crossing Guards





Michigan Ave Trail from SR 501 (Clearlake Road) to US 1

Adding a trail for bicyclists and pedestrians.

2018 SCTPO Transit Bus Stop Accessibility Study

 The 2018 Space Coast Area Transit Bus Stop Accessibility Study prioritized accessibility and safety improvements needed at each bus stop.





Previous & Ongoing Plans SR 524 from Friday Road to Industry Road

- PD&E study to improve roadway capacity, safety, and enhance multimodal opportunities with improved bicycle and pedestrian facilities
- Current alternatives consider widening SR 524 from two to four lanes and adding a six-foot sidewalk on the south side of the roadway, an eight-foot sidewalk on the north side of the roadway, and buffered bicycle lanes.

2019 SCTPO Bicycle & Pedestrian Master Plan

- Includes filling sidewalk and bicycle facility gaps throughout the county.
- Near Cambridge Elementary School, this includes filling pedestrian and bicycle facility gaps along Dixon Boulevard, SR 501 (Clearlake Road), Michigan Avenue, Industry Road, and Fiske Boulevard.
- An alternative alignment of the East Coast Greenway is proposed along the railroad west of US 1.

SR 501 (Clearlake Road) from SR 520 (King Street) to South of Michigan Avenue

- Adding horizontal deflection and spot medians to slow vehicle speeds.
- Widening existing sidewalks and adding sidewalk along Broadcast Court from SR 501 (Clearlake Road) to Endeavour Elementary School. Sidewalk will be added on school property from Broadcast Court to the Endeavour Elementary School building.
- Adding raised midblock crossings with pedestrian signals.

School Campus Drainage

• An onsite drainage project is scheduled for the School Campus.

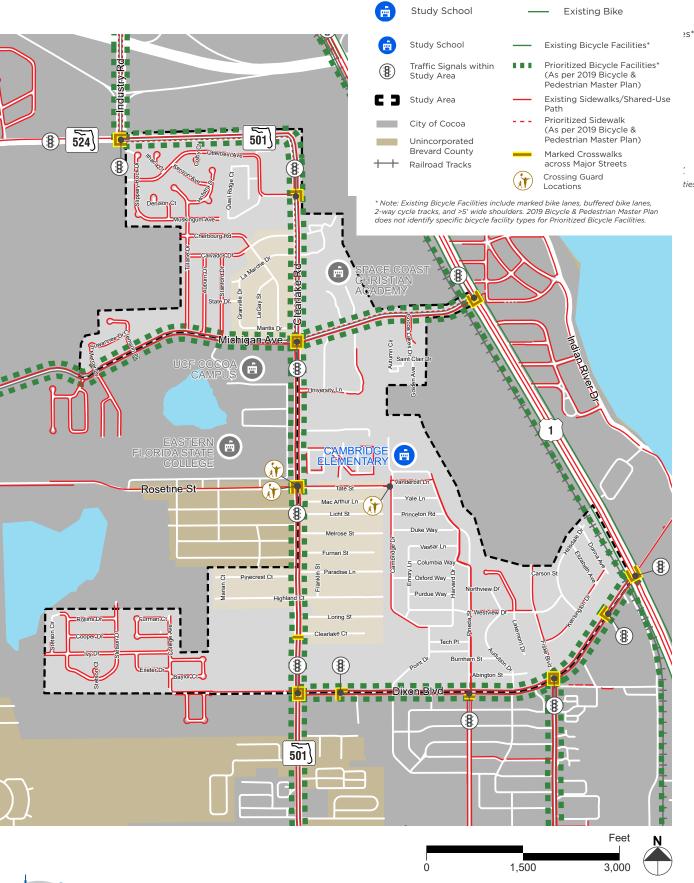
Dixon Boulevard from SR 501 (Clearlake Road) to US 1

 Complete Street Feasibility Study to evaluate and identify improvements to improve pedestrian and bicyclist safety and mobility.

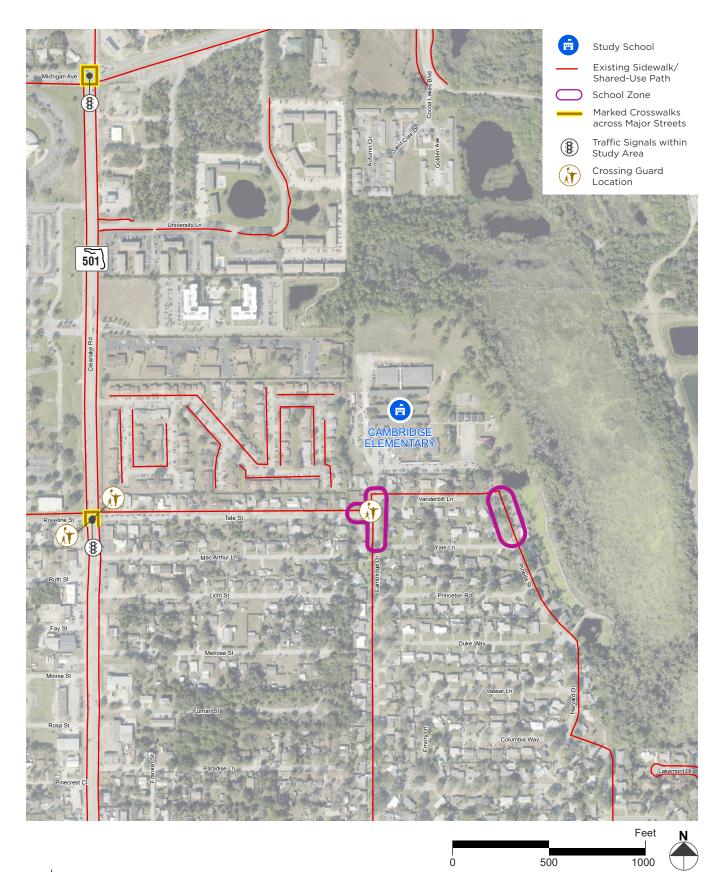
Figure 1: Background Information

School Routes Analysis

Cambridge Elementary School













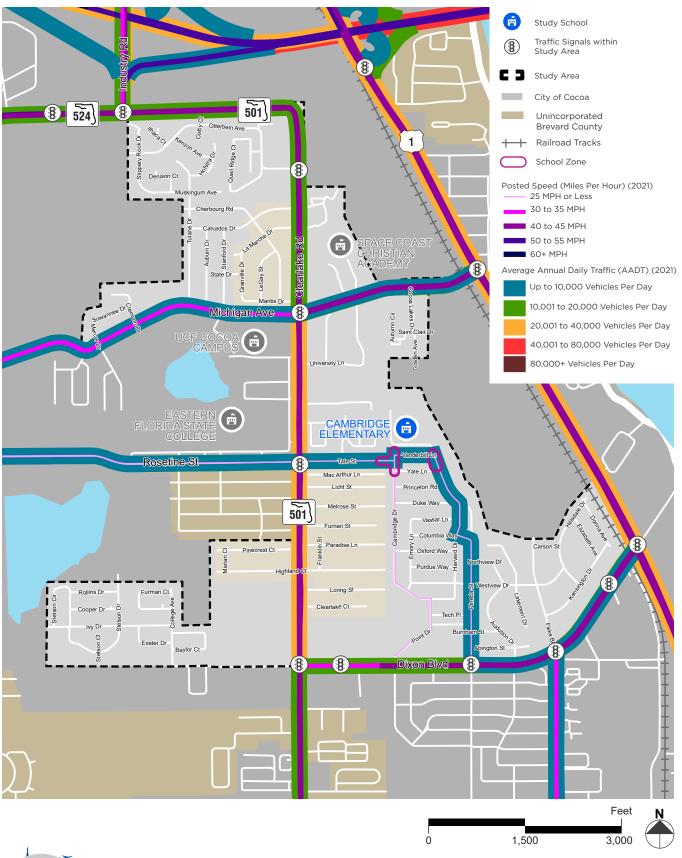
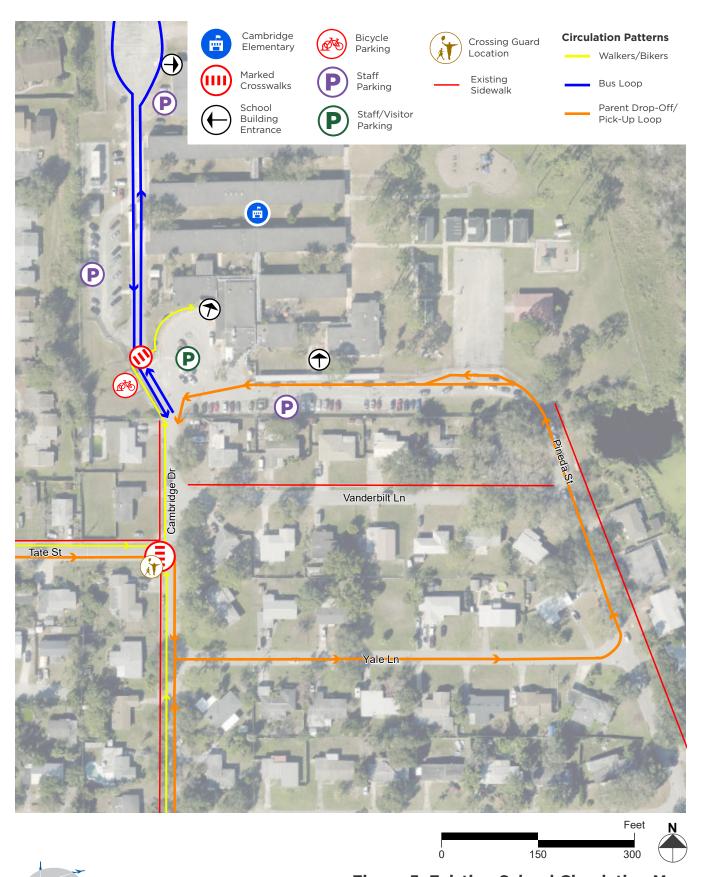






Figure 4: Existing Conditions Traffic Data
School Routes Analysis
Cambridge Elementary School





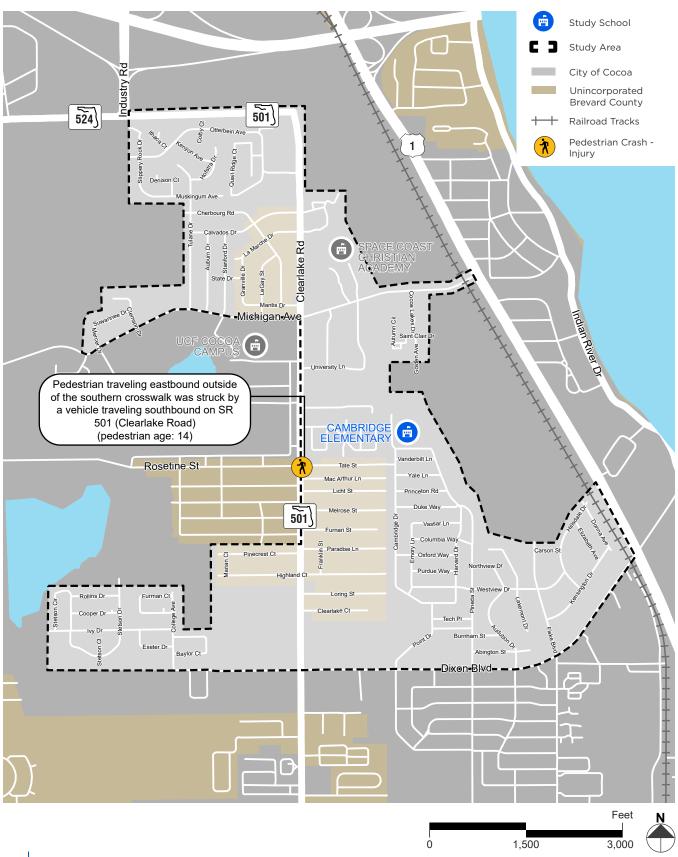




Figure 6: School Aged Bicycle and Pedestrian Crashes (August 2017 - July 2023) School Routes Analysis
Cambridge Elementary School **KITTELSON**

School Campus Recommendations								
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate			
1	School Campus	Restripe high-visibility crosswalk.	Crossing	Maintenance	<\$10,000			
2	School Campus	Update stop signage and restripe stop bars and markings.	Sign/Signal	Maintenance	<\$10,000			
3	School Campus	Restripe faded directional arrows in the one-way car loop.	Maintenance	Maintenance	<\$10,000			
4	Western Fence of School Campus	Maintain vegetation along the western fence on School Campus.	Maintenance	Maintenance	Maintenance			
5	School Campus	Reconstruct the speed bumps on the school campus.	Roadway	Near-Term	Further Study Required to Design Speed Bumps			
	Study Area Recommendations							
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate			
			. 7 10 0					
6	SR 501 (Clearlake Road) & Michigan Avenue	Employ two additional crossing guards at SR 501 (Clearlake Road) & Michigan Avenue.	Enforcement	Near-Term	Enforcement			





cross-street locations.

Table 1: Recommendations Summary

School Routes Analysis

Study Area Recommendations							
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate		
8	Pineda Street and Tate Street & Cambridge Drive	Add school zone pavement markings, advance school zone warning signs, flashing beacon signage, and "End School Zone" signage at the existing school zone on Pineda Street from Yale Lane to the Southeast School Entrance/Car Loop Entrance and at Tate Street & Cambridge Drive.	Sign/Signal	Near-Term	\$70,000 to \$80,000		
9	Pineda Street and Point Drive/ Cambridge Drive	Conduct a speed study and if justified, implement speed humps and/or raised crossings/intersections along: • Pineda Street from Dixon Boulevard to Southeast School Entrance; and • Point Drive/Cambridge Drive from Dixon Boulevard to the Southwest School Entrance.	Traffic Calming	Near-Term/ Long-Term	Further Study Required to Perform Speed Study		
10	Tate Street, Cambridge Drive, and Pineda Street	Install/upgrade pedestrian ramps that meet current standards along: • Tate Street from SR 501 (Clearlake Road) to Cambridge Drive; • Cambridge Drive from Harvard Drive to Southwest School Entrance; and • Pineda Street from Dixon Boulevard to Southwest School Entrance.	Sidewalk	Near-Term	\$400,000 to \$470,000		
11	Cambridge Drive and Rosetine Street/Tate Street	 Conduct a drainage analysis on: Cambridge Drive from Harvard Drive to the Southwest School Entrance; Pineda Street from Dixon Boulevard to Vanderbilt Lane; Vanderbilt Lane from Cambridge Drive to Pineda Street; and Rosetine Street/Tate Street from Walter Street to Cambridge Drive. 	Roadway	Near-Term	Further Study Required for Drainage Analysis		





Table 1: Recommendations Summary Cont.

School Routes Analysis

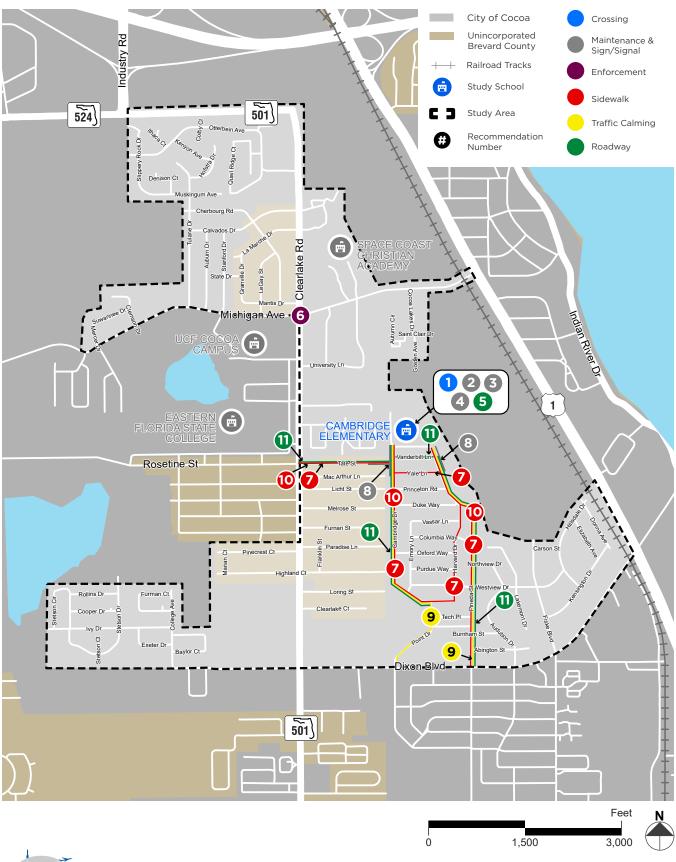
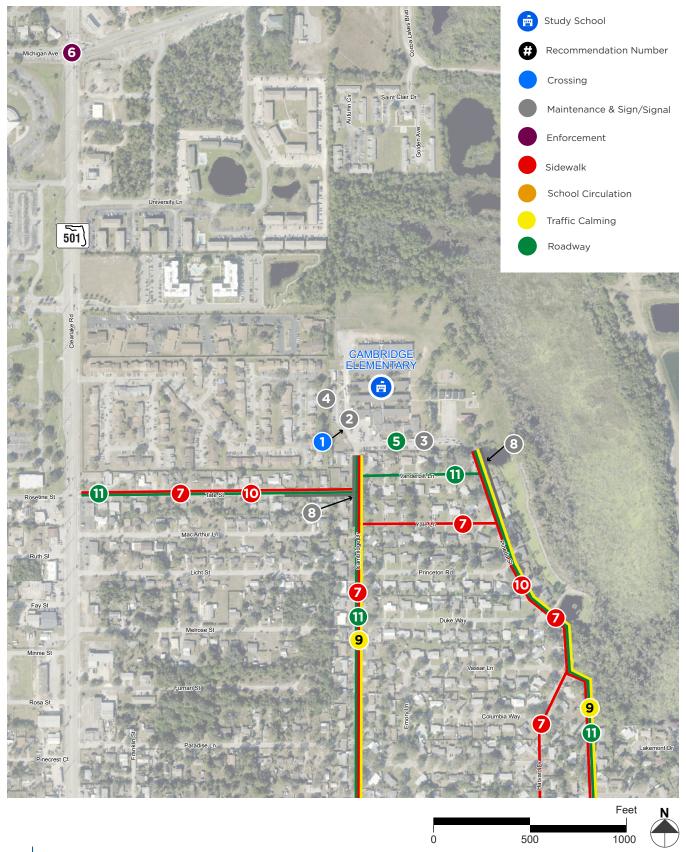






Figure 7: Recommendations
School Routes Analysis
Cambridge Elementary School







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