SCHOOL ROUTES ANALYSIS



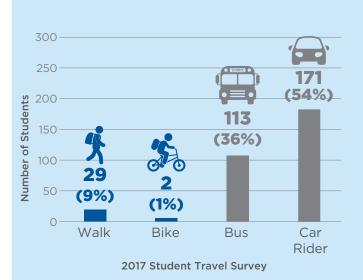
GRAPHICAL SUMMARY REPORT

JULY 2023





Student Travel Modes (2017)



Total Bicycle & Pedestrian Crashes within Study Area

7 30 Pedestrian



28

School Aged Bicycle & Pedestrian Crashes within Study Area

7 Pedestrian



2 Bicycle

Non-Incapacitating

1 Possible Injury

2 Non-Incapacitating Injury

Incapacitating Injury

1 Non-Incapacitating Injury

August 2016 to July 2022 Crashes from University of Florida's Signal Four Analytics Database

Signals and Crossings within Study Area

12

Signalized Intersections



✐

Unsignalized Marked Crosswalks Across Major Streets



2

Crossing Guards

Previous & Ongoing Plans SR 519 (Fiske Boulevard) Concept development study to advance the of the corridor to address the safety and mo

- Concept development study to advance the long term vision of the corridor to address the safety and mobility needs of the community, including for vehicle, transit, bicycle and pedestrian modes.
- Construct six foot wide sidewalks where possible, extend the Brevard Zoo trail, and tighten turning radii where possible.
- Construct curb & gutter north of Barbra Jenkins Street and conduct an areawide drainage study.

²⁰¹⁹ SCTPO Bicycle & Pedestrian Master Plan

- Prioritized filling sidewalk and bicycle facility gaps throughout the county.
- Alternative alignment of proposed East Coast Greenway is along US 1.

► Aurora Street Sidewalk

 Construct a sidewalk along Aurora Street from Jackson Street to SR 520 (King Street).

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.
- Adding horizontal deflection and spot medians to slow vehicle speeds.
- Widening existing sidewalks and adding sidewalk from Endeavour Elementary School to Broadcast Court.
- Adding raised midblock crossings with pedestrian signals.

SR 501 (Clearlake Road) from SR 520 to South of



Study School

City of Cocoa

Marked Crosswalks across Major Streets

Traffic Signals within Study Area

Michigan Avenue



School Routes Analysis

McNair Middle School

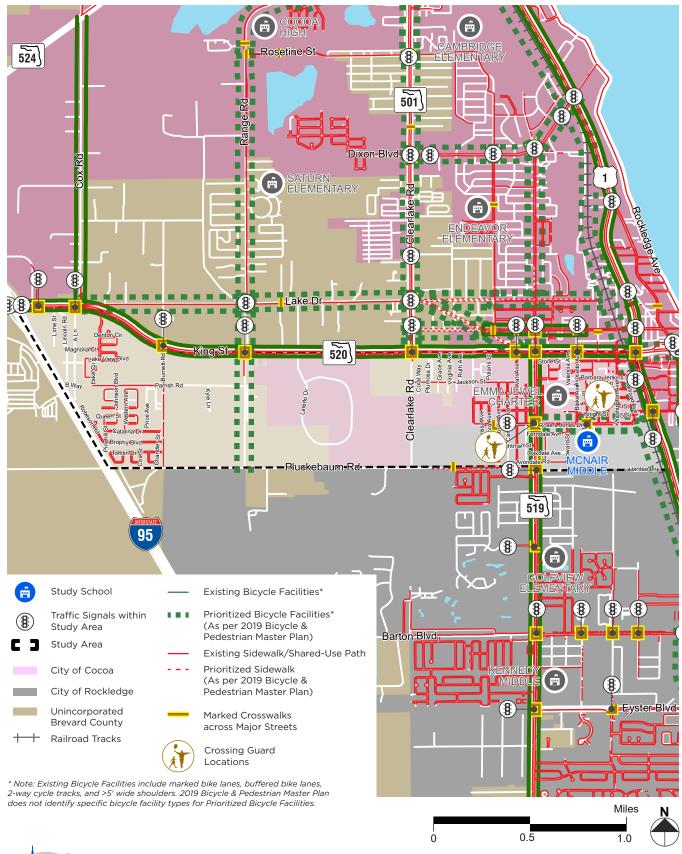






Figure 2: Existing and Planned Pedestrian and Blcycle Facilities

School Routes Analysis
McNair Middle School

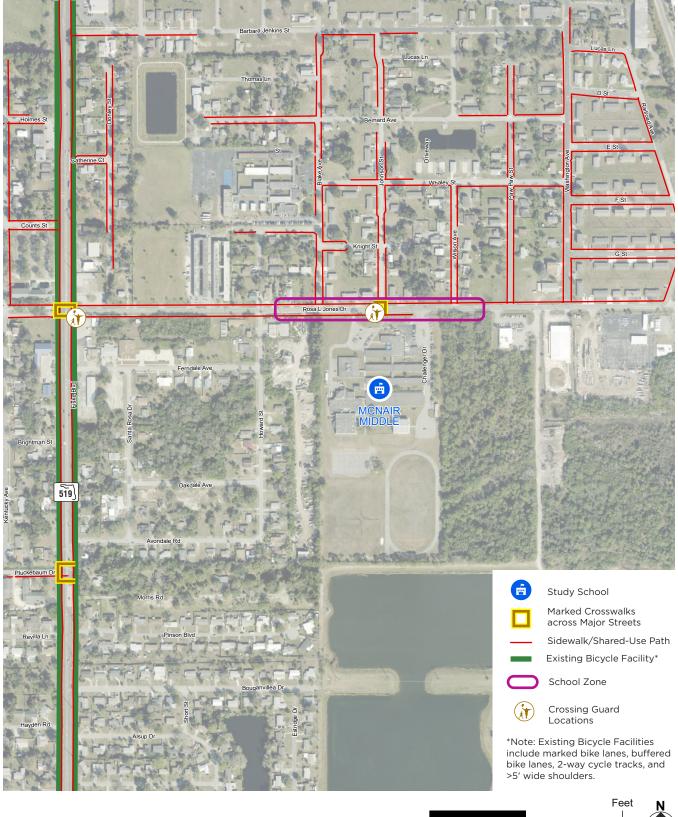








Figure 3: School Context Aerial
School Routes Analysis
McNair Middle School

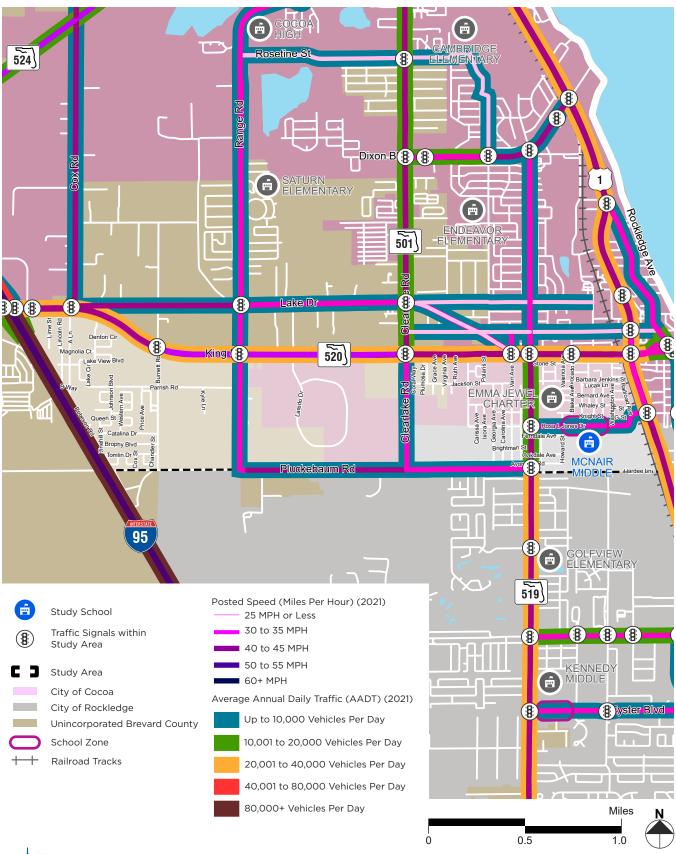






Figure 4: Existing Conditions Traffic Data
School Routes Analysis
McNair Middle School

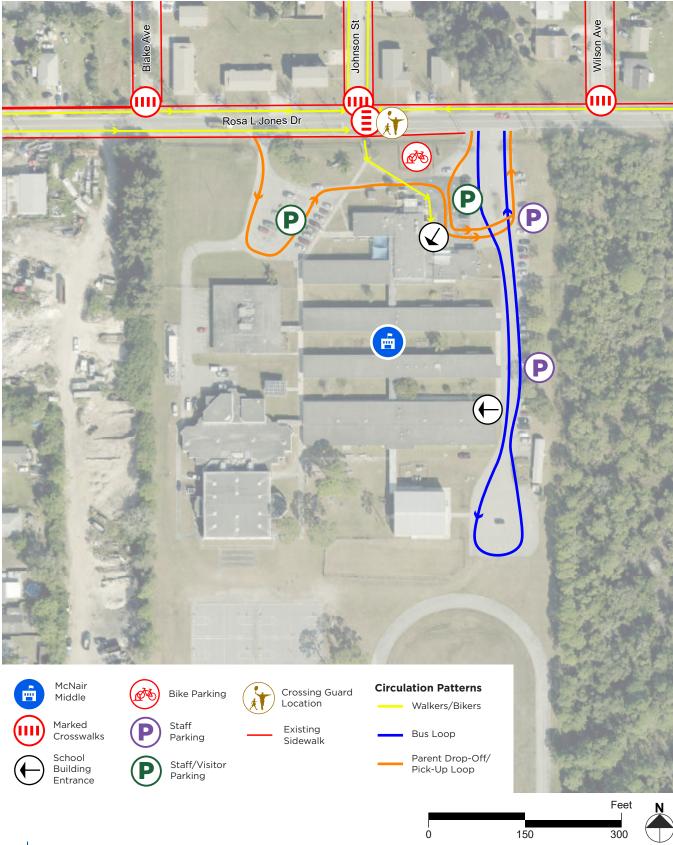






Figure 5: Existing School Circulation Map School Routes Analysis McNair Middle School

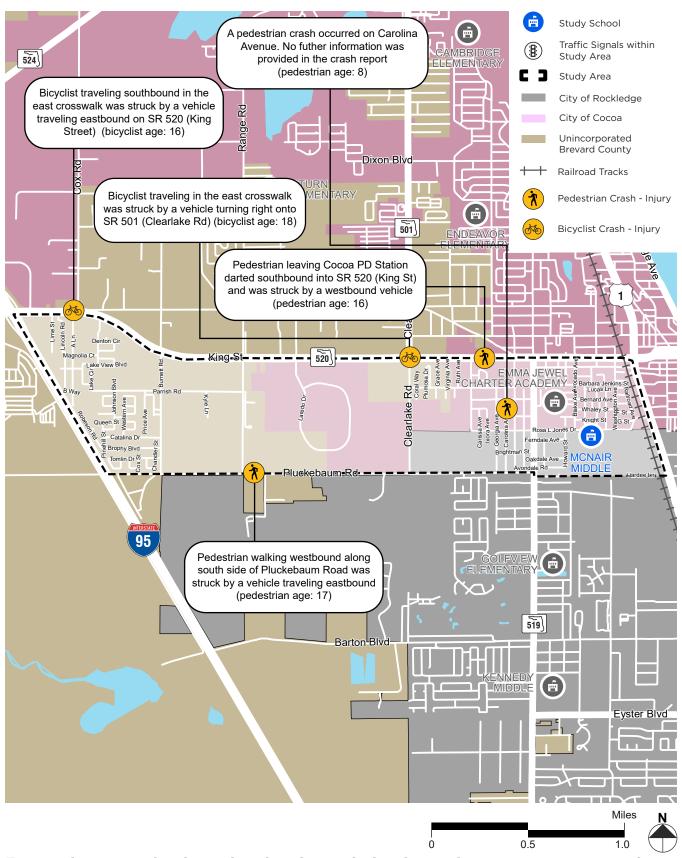


Figure 6: School Aged Pedestrian and Bicycle Crashes (August 2016 to July 2022)

KITTELSON

School Routes Analysis

School Campus Recommendations							
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate		
1	School Campus	Restripe crosswalks on the school campus to be high-visibility. Add stop bar with "Stop Here for Pedestrian" signage before the middle crosswalk in the parent drop-off/pick-up loop.	Crossing	Maintenance	<\$10,000		
2	School Campus	Restrict access at the eastern driveway to the school campus to only allow buses to enter with "Bus Only" signage and add a stop bar across the driveway. Staff parking on the east side of campus must enter the school campus through the western driveway. Remove the pavement markings directing traffic south from the western driveway.	School Circulation	Maintenance	<\$10,000		
3	School Campus	Restrict five of the parking spaces on the west side of the school campus to "visitor only" to provide a space for visitors to park once entering the western school driveway.	School Circulation	Maintenance	<\$10,000		
4	School Campus	Add more paved staff parking where the grass area currently exists on the east side north of where the current staff parking ends.	Roadway	Near-Term	\$30,000 to \$35,000		
5	School Campus	Add high-visibility crosswalk across the western school driveway.	Crossing	Maintenance	<\$10,000		
	Study Area Recommendations						
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate		
6	Rosa L Jones Drive & SR 519 (Fiske Boulevard)	Add another crossing guard at Rosa L Jones Drive & SR 519 (Fiske Boulevard).	Enforcement	Near-Term	Enforcement		
7	Rosa L Jones Drive	Fill sidewalk gap on the south side of Rosa L Jones Drive from the eastern school driveway to US 1. Add a high-visibility crosswalk across the eastern school driveway.	Sidewalk	Long-Term	\$280,000 to \$330,000		





Table 1: Recommendations Summary

School Routes Analysis

McNair Middle School

Study Area Recommendations						
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate	
8	Rosa L Jones Drive	Conduct a speed study and if justified, implement speed humps along Rosa L Jones Drive from SR 519 (Fiske Boulevard) to US 1.	Traffic Calming	Long-Term	Further Study Required to Perform Speed Study	
9	Rosa L Jones Drive	Install/upgrade pedestrian ramps that meet current standards along Rosa L Jones Drive from SR 519 (Fiske Boulevard) to US 1.	Sidewalk	Long-Term	\$50,000 to \$60,000	
10	Rosa L Jones Drive	Remove debris and widen sidewalks along Rosa L Jones Drive from SR 519 (Fiske Boulevard) to US 1.	Maintenance/ Sidewalk	Maintenance/ Near-Term	Maintenance/ Further Study Required to Determine Sidewalk Improvements	
11	Rosa L Jones Drive	Fill bicycle facility gap prioritized in the 2019 Space Coast TPO Bicycle & Pedestrian Master Plan on Rosa L Jones Drive from SR 519 (Fiske Boulevard) to US 1.	Roadway	Long-Term	Further Study Required to Determine Appropriate Bicycle Facility	
12	Rosa L Jones Drive & Johnson Street	Restripe faded crosswalks to high- visibility crosswalks.	Crossing	Maintenance	<\$10,000	
13	Rosa L Jones Drive, Blake Avenue, Johnson Street, and Wilson Avenue	Add flashing beacon signage at school zones along Rosa L Jones Drive, Blake Avenue, Johnson Street, and Wilson Avenue. Restripe pavement markings, add advance school zone warning signs, and add "End School Zone" signage. Remove redundant flashing beacon signage at the intersection of Rosa L Jones Drive & Johnson Street.	Sign/Signal	Near-Term	\$70,000 to \$80,000	
14	Clearlake Road	Fill bicycle facility gap prioritized in the 2019 Space Coast TPO Bicycle & Pedestrian Master Plan on Clearlake Road from Pluckebaum Road to SR 520 (King Street).	Roadway	Long-Term	Further Study Required to Determine Appropriate Bicycle Facility	





Table 1: Recommendations Summary Cont.

School Routes Analysis

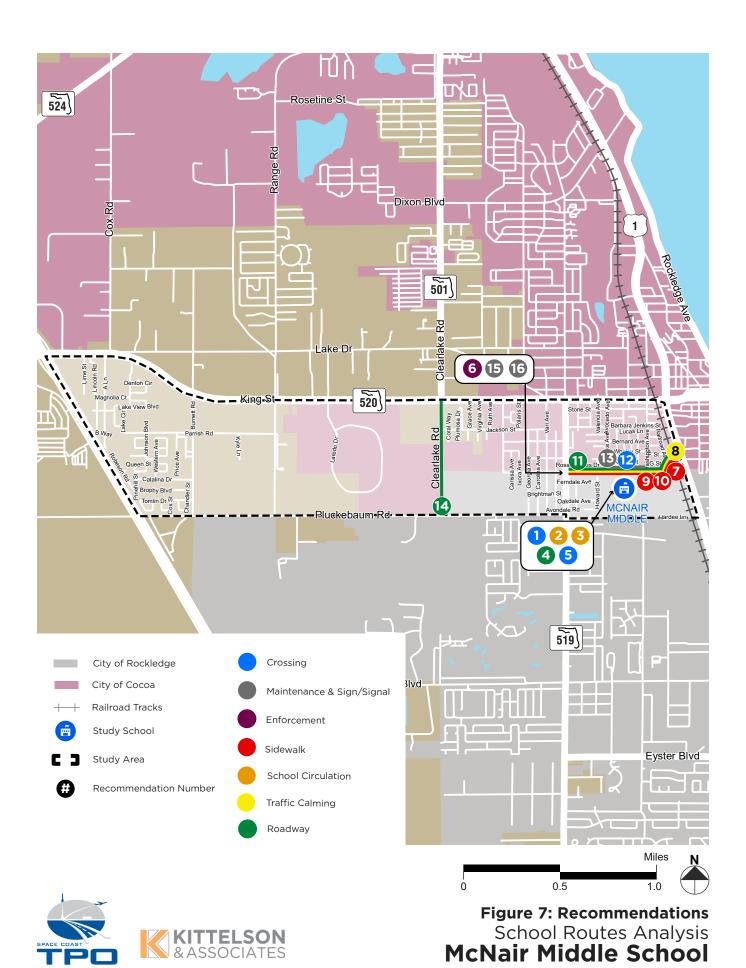
Study Area Recommendations							
No.	Location	Recommendation	Туре	Time-Frame	Cost Estimate		
15	SR 519 (Fiske Boulevard) & Rosa L Jones Drive	Add northbound and southbound left turn signal heads along SR 519 (Fiske Boulevard).	Sign/Signal	Near-Term	Further Study Required to Determine Signal Head Design		
16	SR 519 (Fiske Boulevard) & Rosa L Jones Drive	Consider implementing pedestrian friendly signal timing countermeasures including protected left turn phasing, a leading pedestrian interval (LPI), rest in walk, restricting right turn on red movements, adding protected/permissive left turn phasing, etc. Fix the loose railing and remove extra concrete at the southeast corner of the intersection. Fix the broken pedestrian signal at the southwest corner of the intersection.	Sign/Signal	Near-Term	Further Study Required to Evaluate Signal Retiming Measures		





Table 1: Recommendations Summary Cont.

School Routes Analysis



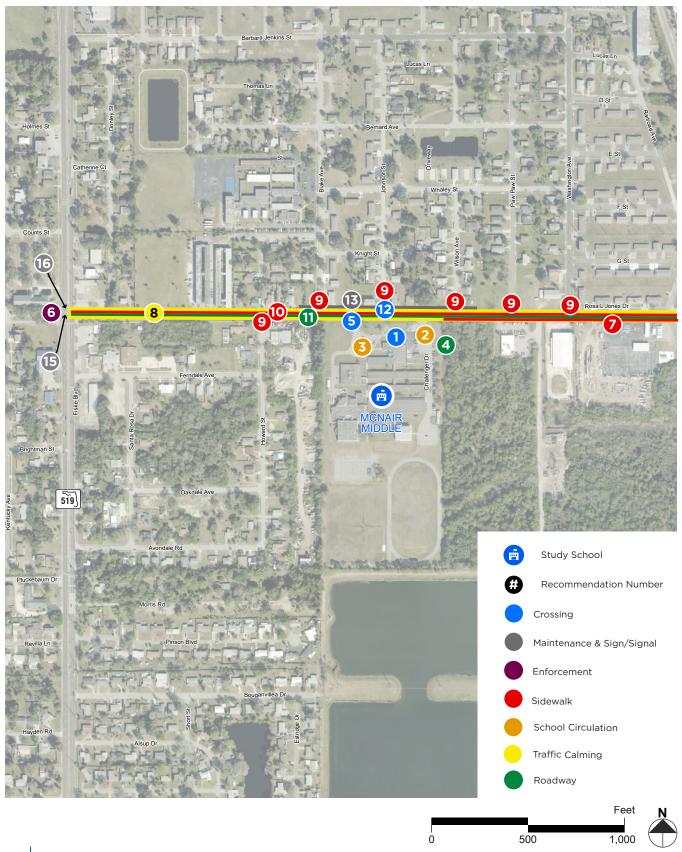






Figure 8: Recommendations: School Context Aerial
School Routes Analysis
McNair Middle School

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