

SCHOOL ROUTES ANALYSIS

RIVIERA ELEMENTARY SCHOOL

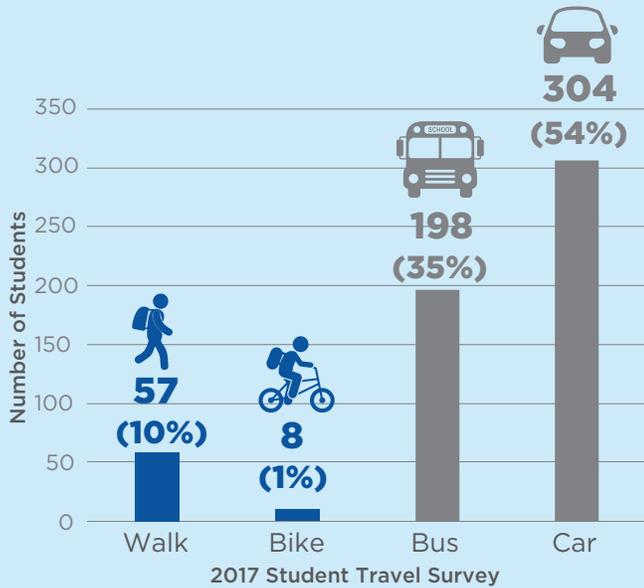


GRAPHICAL SUMMARY REPORT

JULY 2020



Student Travel Modes (2017)



Total Bicycle & Pedestrian Crashes within Study Area



School Aged Bicycle & Pedestrian Crashes within Study Area



2014 to 2018 Crashes from University of Florida's Signal Four Analytics Database

Signals and Crossings within Study Area



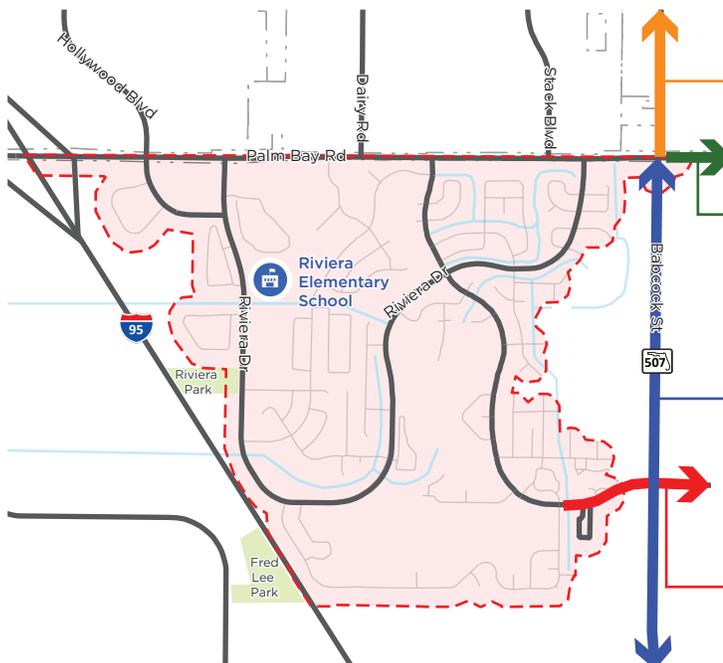
9 Signalized Intersections



6 Unsignalized Marked Crosswalks Across Major Streets



2 Crossing Guards at Larch Cir. & Riviera Dr. Mascot St. & Mariposa Dr.



Previous & Ongoing Plans

SR 507 (Babcock Street) Corridor Planning Study

- Evaluate operational, safety, and multi-modal improvements from Palm Bay Road to US 192.

Palm Bay Road Pedestrian/Bicycle Safety Review

- Evaluated pedestrian/bicycle safety and provided suggestions for improvement from Babcock Street to Lipscomb Street.

SR 507 (Babcock Street) Widening

- Widen existing four-lane roadway to six-lane, divided roadway.
- SCTPO performed Road Safety Audit on 6-lane design plans in 2016.

Bicycle & Pedestrian Master Plan (2019)

- Bicycle facilities prioritized along Port Malabar Boulevard.

Figure 1: Background Information

School Routes Analysis Riviera Elementary School

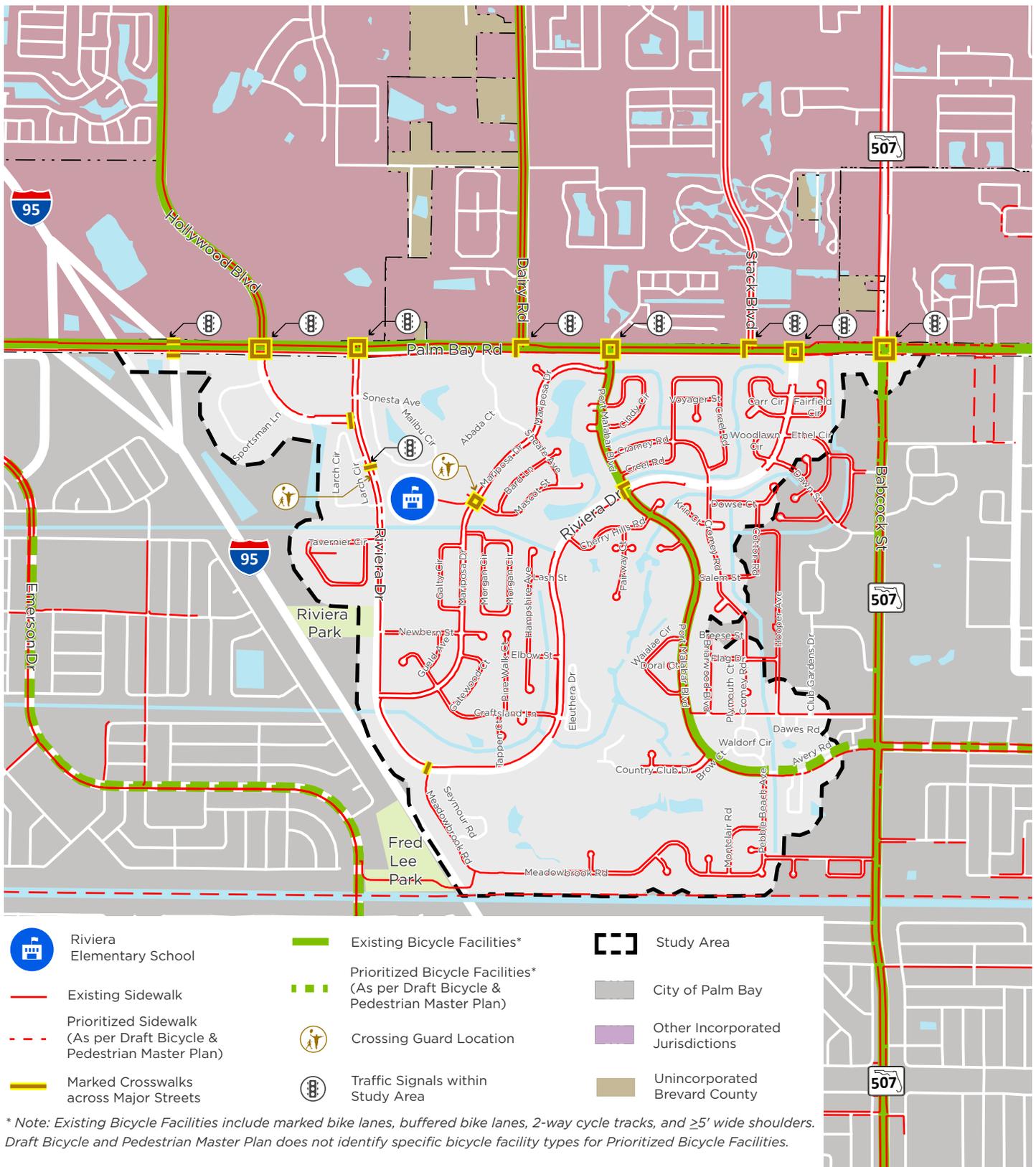


Figure 2: Existing and Planned Bicycle and Pedestrian Facilities

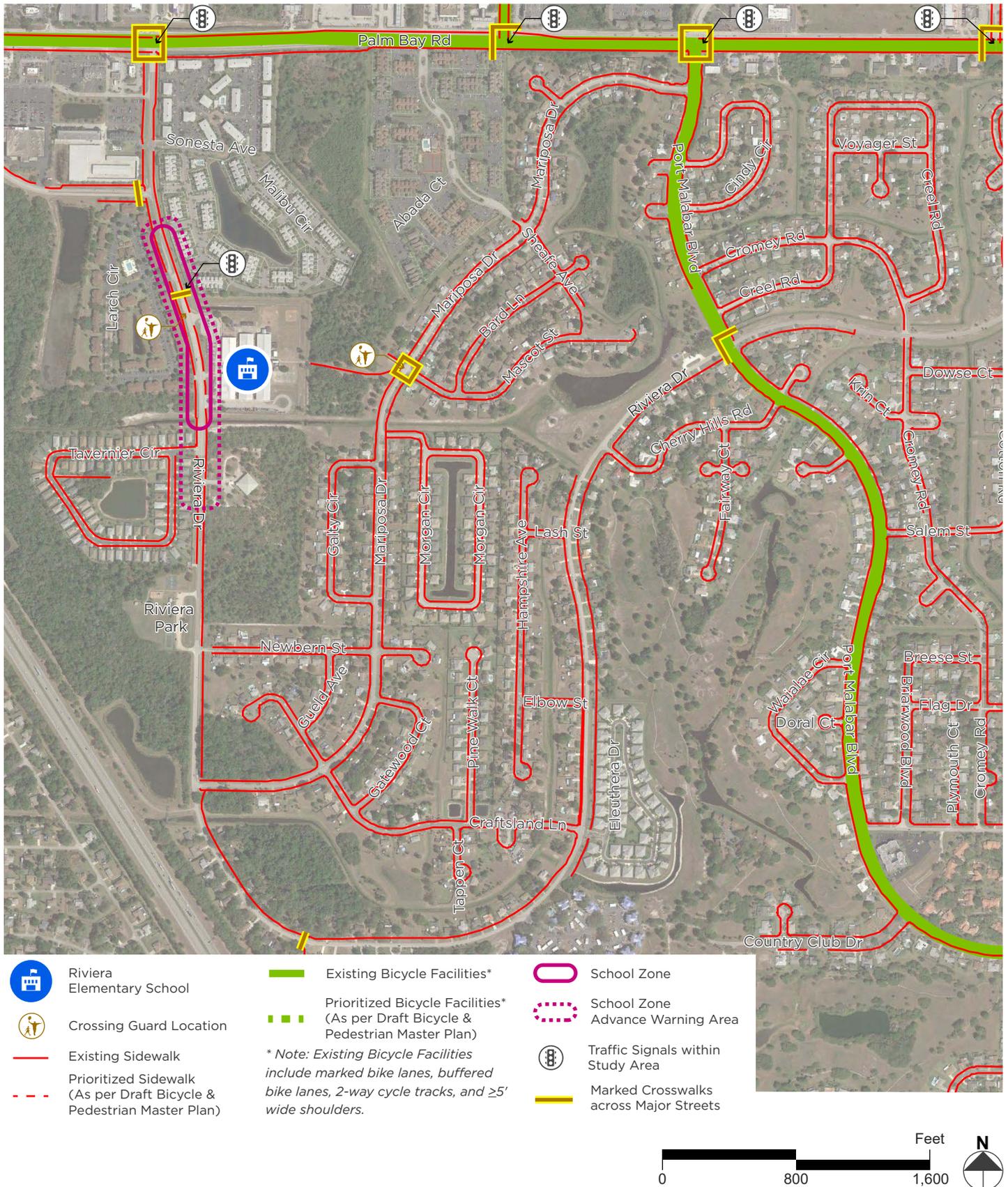


Figure 3: Existing Conditions School Context Aerial Map

School Routes Analysis
Riviera Elementary School

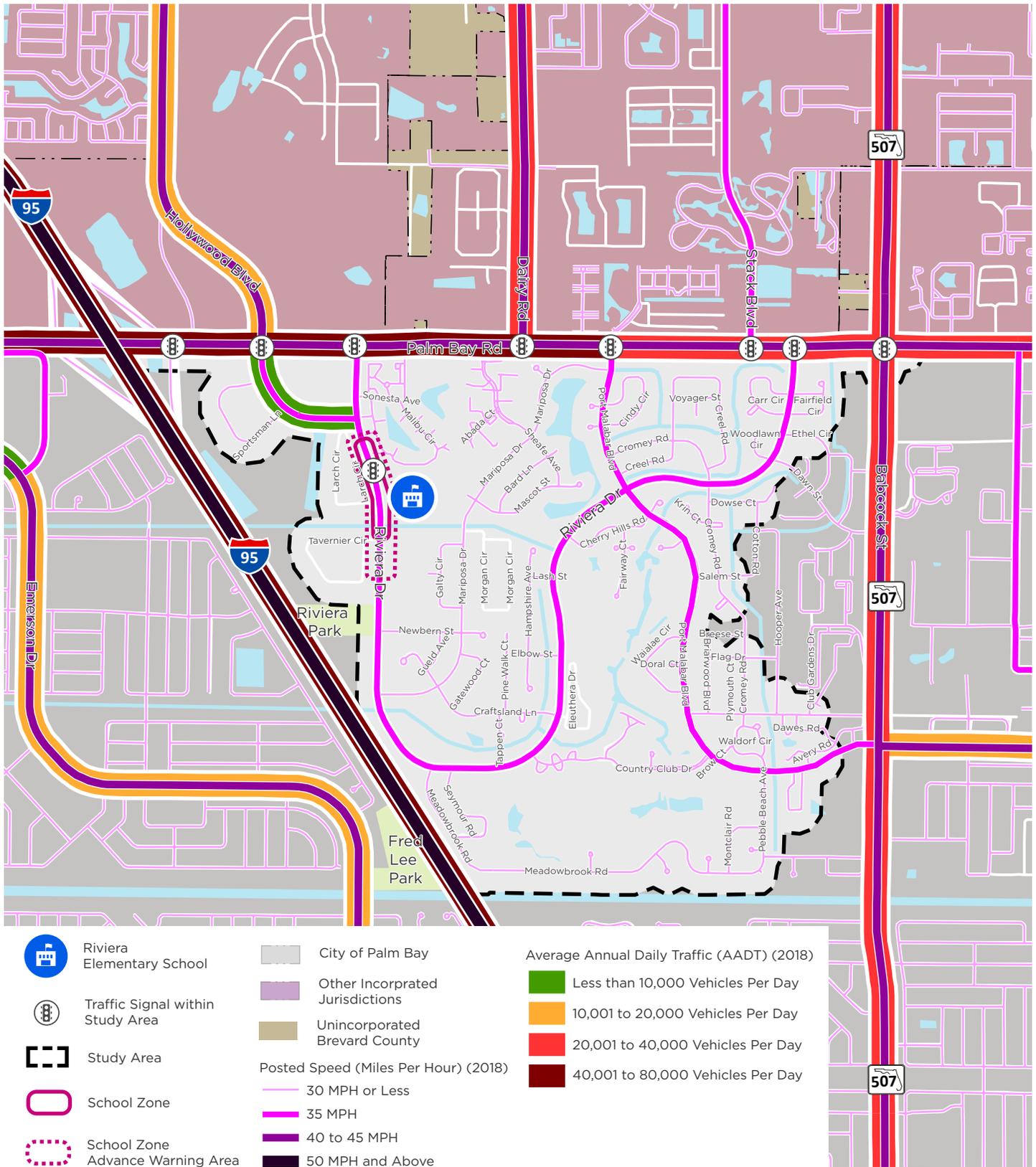


Figure 4: Existing Conditions Traffic Data
 School Routes Analysis
Riviera Elementary School

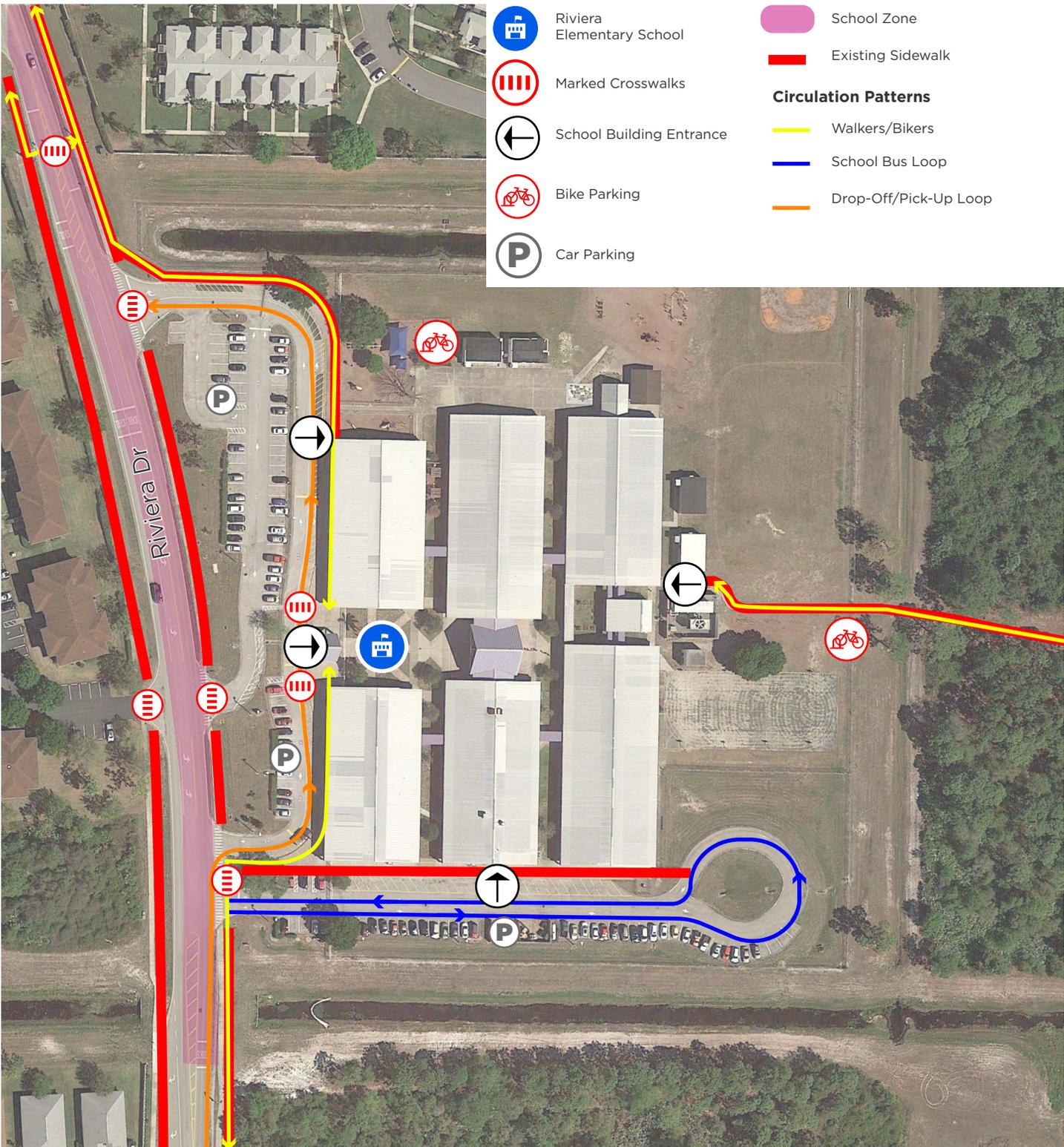


Figure 5: Existing School Circulation Map
 School Routes Analysis
Riviera Elementary School

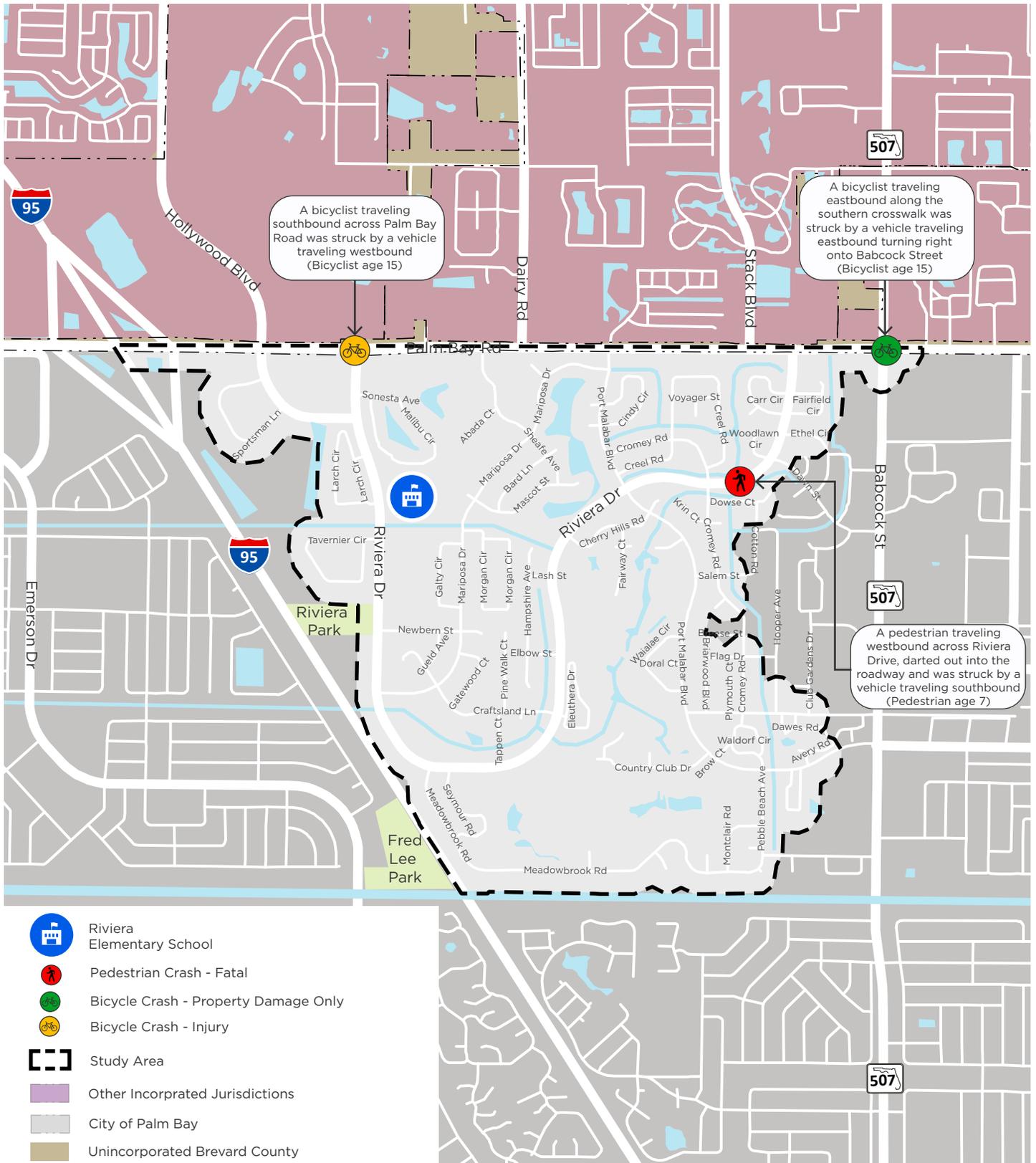


Figure 6: Bicycle and Pedestrian Crashes (2014 - 2018)

School Campus Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
1	Bus loop and parent drop-off/pick-up loop	Switch the bus loop and parent drop-off/pick-up loop to provide more space for cars to stack during student drop-off/pick-up.	School Circulation	Near-Term	No Anticipated Cost
2	Between bus loop driveway and parent drop-off/pick-up entrance driveway	Extend the concrete separator between the two southern driveways west to the crosswalk to prevent the northbound right turning vehicles from driving in the crosswalk while turning into the school. Construct a pedestrian ramp at the concrete separator to provide a connection for students traveling northbound along Riviera Drive to the school campus.	Crossing	Near-Term	<\$10,000
3	Grass area between Riviera Drive and the staff/parent parking lot in front of the school	Add wooden "fairground style" fencing along the edge of the sidewalk to prevent vehicles from parking in the grass to drop-off/pick-up their student.	School Circulation	Near-Term	\$15,000 to \$20,000
4	School campus	Restripe the crosswalks to be high-visibility crosswalks.	Crossing	Near-Term	<\$10,000

Study Area Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
5	Mariposa Drive and Mascot Street	Restripe crosswalks to be high-visibility crosswalks. Upgrade/install ADA compliant pedestrian ramps. Construct a raised intersection.	Crossing	Near-Term	\$90,000 to \$105,000

Recommendations Table

School Routes Analysis Riviera Elementary School



Study Area Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
6	Riviera Drive from Tavernier Circle to just south of Craftsland Lane and Riviera Drive from just north of Lash Street to just south of Dawn Street	Build 5 to 6 foot wide sidewalks on both sides of roadway to fill in sidewalk gaps along Riviera Drive.	Sidewalk	Near-Term	\$515,000 to \$600,000
7	Riviera Drive just south of first school entrance/driveway	Construct a right turn lane for vehicles turning right into the bus loop and parent drop-off/pick-up loop to stack in.	Roadway	Near-Term	\$305,000 to \$360,000
8	Riviera Drive from Palm Bay Road to Port Malabar Boulevard	Add traffic calming elements along Riviera Drive.	Traffic Calming	Long-Term	Further Study Required
9	Mariposa Drive from Riviera Drive to Port Malabar Boulevard	Add traffic calming elements along Mariposa Drive.	Traffic Calming	Long-Term	Further Study Required
10	Sidewalk from Mariposa Drive to the eastern entrance to school	Add lighting along the sidewalk to increase visibility and safety.	Lighting	Long-Term	Further Study Required
11	Sidewalk from Mariposa Drive to the eastern entrance to school	Clear understory vegetation in the vicinity of the sidewalk and increase enforcement for homeless camps near the sidewalk.	Enforcement	Near-Term	Clearing Vegetation is Routine Maintenance and Enforcement Requires Staff Coordination

Recommendations Table (Continued)

School Routes Analysis Riviera Elementary School



Study Area Recommendations

No.	Location	Recommendation	Type	Time-Frame	Cost Estimate
12	Mid-block crossing along Riviera Drive just west of Meadowbrook Road	Construct a RRFB at the mid-block crossing.	Crossing	Long-Term	\$25,000 to \$30,000
13	Driveways to school along Riviera Drive	Restripe crosswalks at the three driveways along the school to be high-visibility crosswalks.	Crossing	Near-Term	\$15,000 to \$20,000

Recommendations Table (Continued)

School Routes Analysis Riviera Elementary School



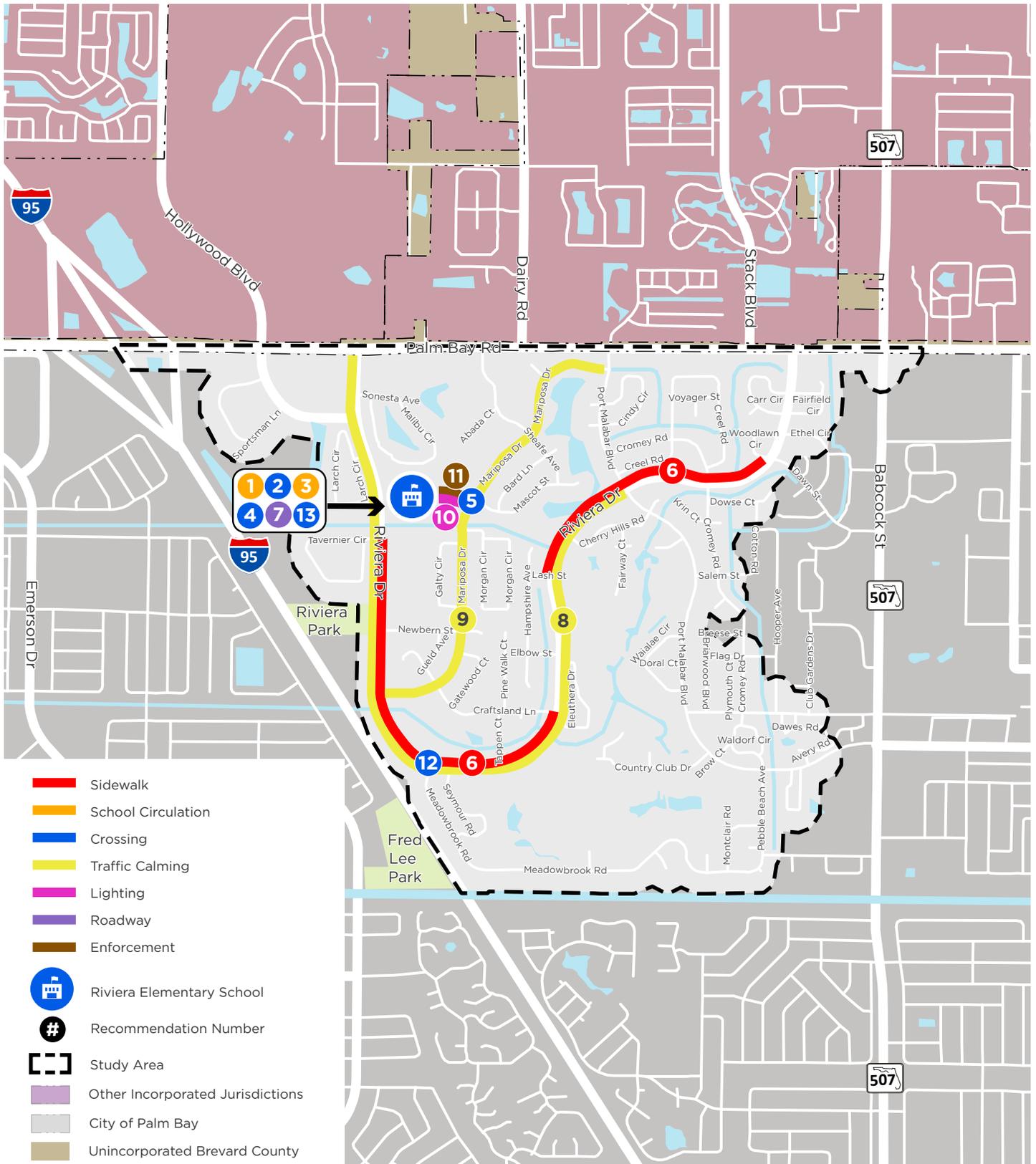


Figure 7: Recommendations

School Routes Analysis
Riviera Elementary School



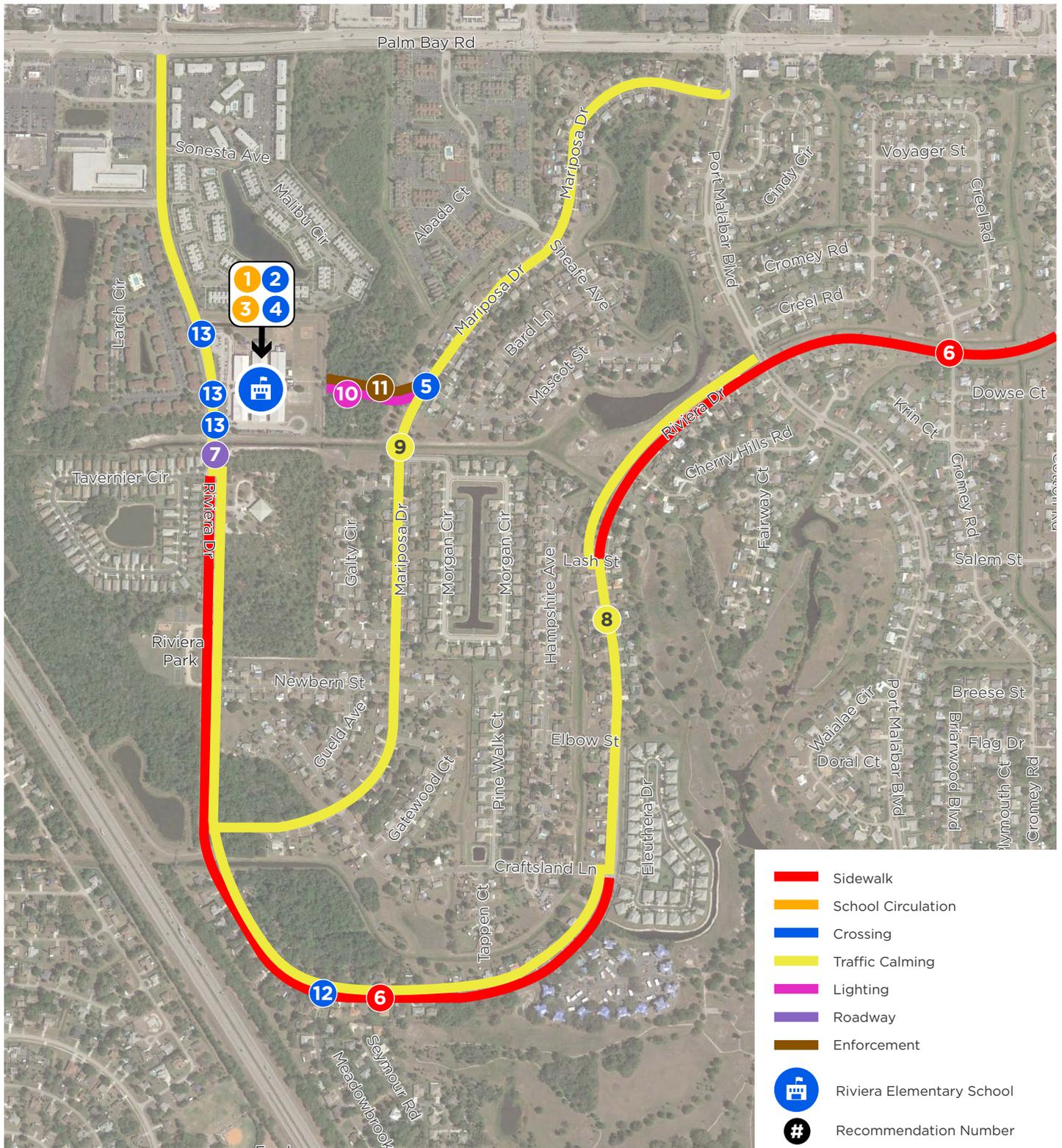


Figure 8: Recommendations School Context Aerial Map

School Routes Analysis
Riviera Elementary School

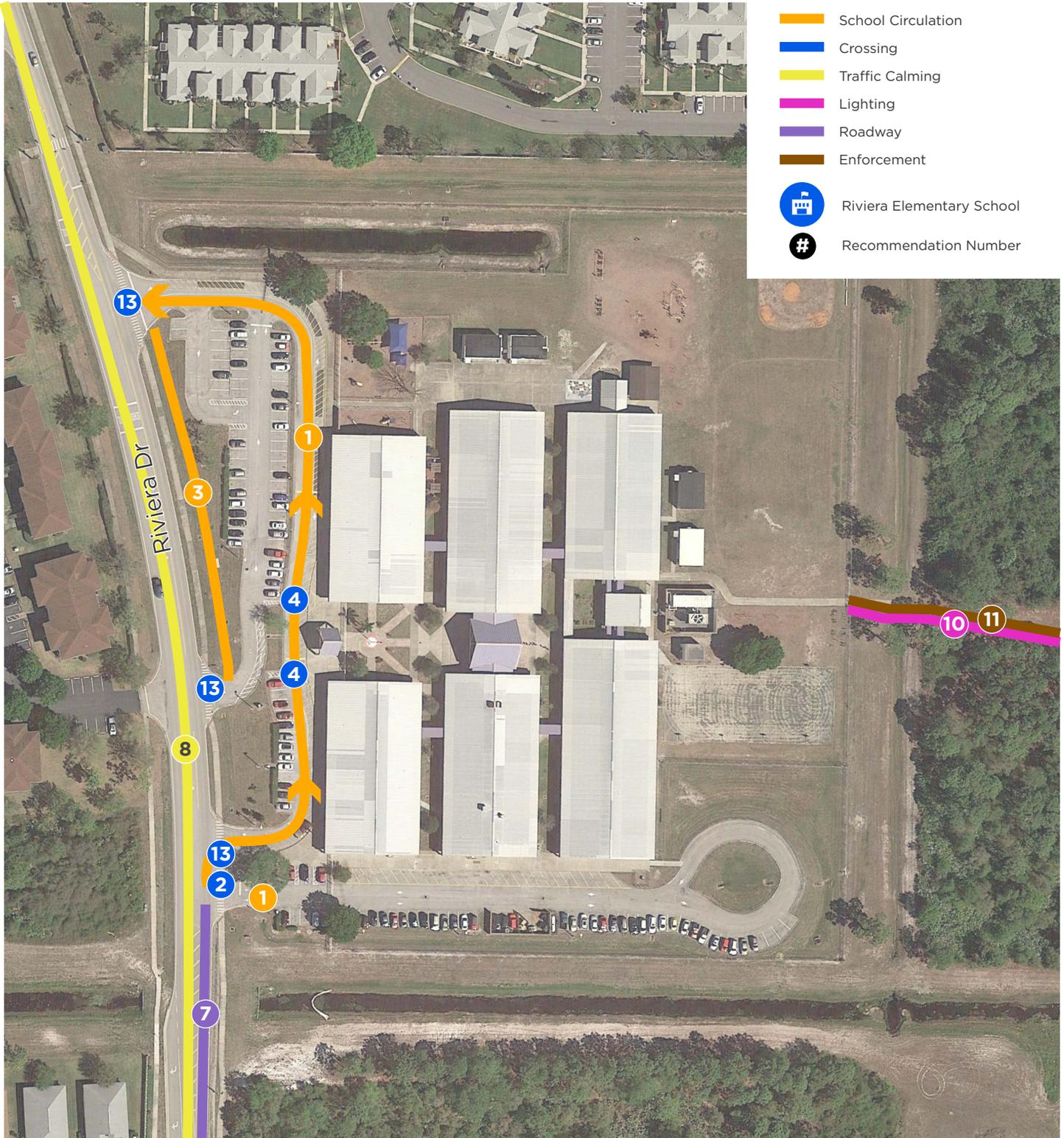


Figure 9: Recommendations School Campus Aerial Map

School Routes Analysis
Riviera Elementary School

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