Joseph Azevada Elementary School Fremont School Traffic Safety Assessment Technical Memo

October 2017

Prepared by Alta Planning + Design

Joseph Azevada Elementary School

A Traffic Safety Assessment was conducted at Joseph Azevada Elementary School during the afternoon pick-up on Tuesday, March 14, 2017. The assessment was attended by representatives from the City of Fremont, Fremont Police Department, Alta Planning + Design, and Joseph Azevada Elementary staff and parents.

School Information

Address	39450 Royal Palm Drive
Morning Bell(s)	8:30am
Afternoon Bell(s)	2:50pm
Grade Levels	Grades K-6
Enrollment	605

Joseph Azevada Elementary is located on Royal Palm Drive in a residential neighborhood. The school is directly adjacent to Azevada Park and there is a pathway and gate allowing students access to the back of the school. Shopping centers located west and south of the school and I-880 generate through traffic around the school. Parents access the drop-off loop and parking lot on Royal Palm Drive. There is a separate staff parking lot, also accessed from Royal Palm Drive.

Existing Conditions

The following existing conditions were observed or reported by participants during the walk audit.

- 1. Royal Palm Drive
 - Cars are backed-up along Royal Palm Drive to enter the drop-off loop from Bamboo Lane to Flamingo Lane.
 - Parents can access the drop-off loop from both directions, which creates turning conflicts between cars.
 - Cars sometimes block the drop-off loop entrance and exit, which can cause sight distance issues, especially for buses.
- 2. Royal Palm Drive & Bamboo Lane
 - The crosswalk across Royal Palm Drive is heavily used.
 - The intersection is uncontrolled on both legs.
- 3. Blacow Road
 - Traffic on Blacow Road is light, however, very few parents have their students walk to Azevada School to get picked up or dropped off on the Blacow Road frontage adjacent to the school.
 - The path through Azevada Park to access the school gets muddy when it rains.

- Occasionally there are issues with parents blocking neighbors' driveways on Blacow Road
- 4. Royal Palm Drive & Coco Palm Drive
 - The intersection is currently stop controlled on Royal Palm Drive and uncontrolled on Coco Palm Drive.
 - Heavy traffic on Coco Palm Drive makes it dangerous for students to cross Royal Palm Drive.
 - The City has previously conducted studies and plans to convert this intersection to a 4-way stop.
- 5. Coco Palm Drive & Blacow Road
 - There is an existing Walking School Bus route that crosses through this intersection.
 - More waiting space for pedestrians is needed in the medians across Coco Palm Drive.
 - Pedestrians do not have enough time to cross Coco Palm Drive.

6. Additional Observations

- Attendees discussed the possibility of closing the drop-off loop to cars completely and encouraging parents to use the surrounding streets to park and walk to the school. This would eliminate the traffic and safety issues that are associated with entering and exiting the drop-off loop. Additionally, many families are already parking and walking to school, so this change would support existing behaviors and would not pose a significant inconvenience to families.
 - If closing the drop-off loop, the City should conduct a study to assess whether to keep or remove the existing the mid-block crosswalk on Royal Palm Drive.
 With the additional traffic, concentrating crossing at the existing crosswalks at Diamond Head Lane and Bamboo Lane could be better options.
- The curb ramps on streets surrounding the school should be upgraded with truncated domes to be ADA compliant.
- The City plans to upgrade the existing speed bumps on Royal Palm Drive as part of their re-striping plan.
- 7. Current Safe Routes to School Involvement
 - Joseph Azevada Elementary has been in the Alameda County SR2S program since 2012 and participates in two of the countywide events: International Walk & Roll to School Day and Bike to School Day.
 - According to student travel tallies collected in spring 2016, approximately 9% of students walk to school and 0.4% bike. Approximately 7.8% of students participate in a carpool to school, and 80.3% arrive by family vehicle.

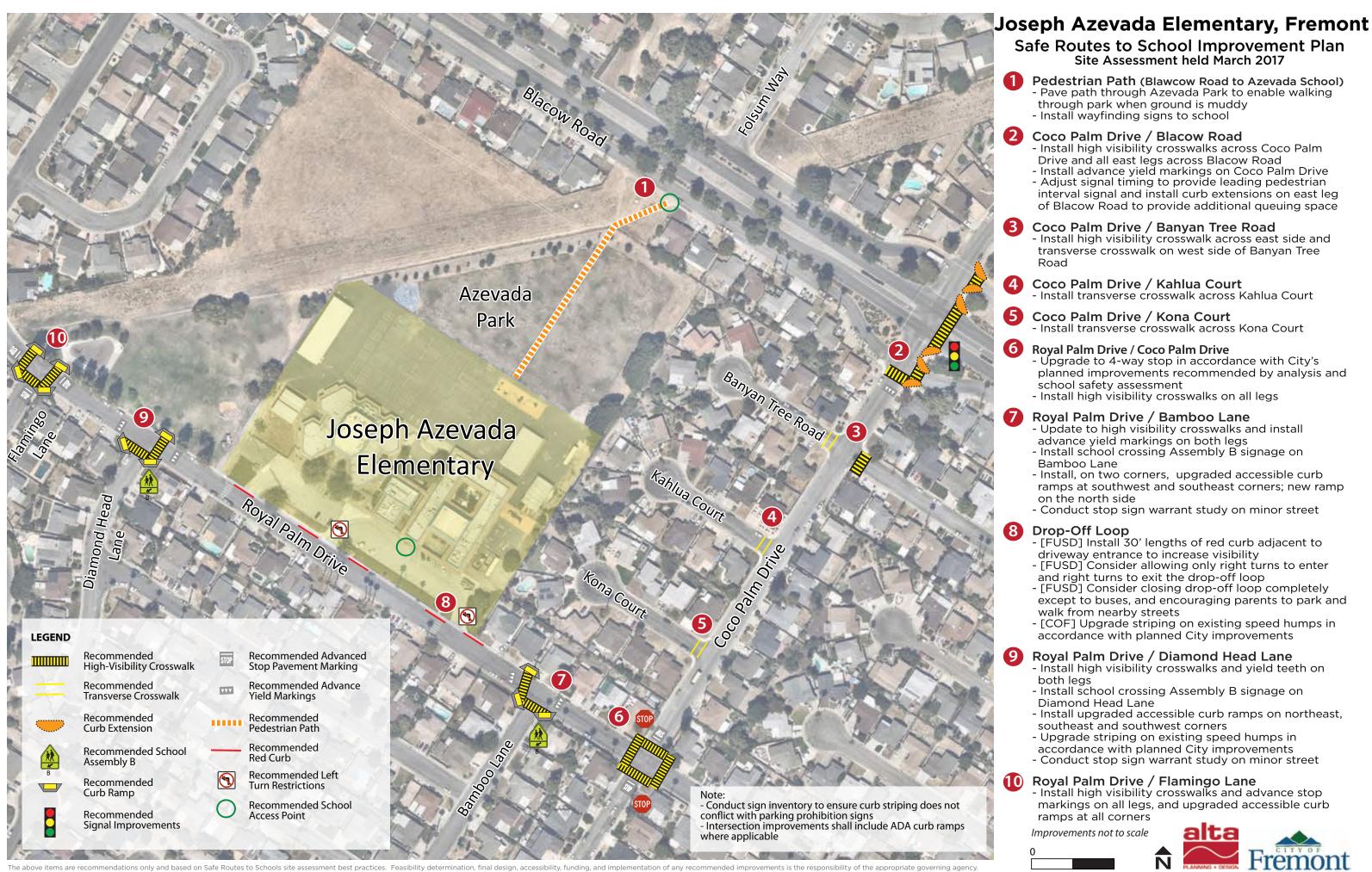
Recommendations

Recommendations to improve infrastructure or operations surrounding Joseph Azevada Elementary can be seen on the conceptual improvement plan found on the following page. Engineering cost estimates for the infrastructure recommendations are also provided.

The following improvements are recommendations for policy and program implementation at Joseph Azevada Elementary School to increase safety and active commutes to school.

Policy & Program Recommendations

- Distribute Recommended Walk/Bike Maps to students and their families in an effort to promote walking and biking to school on suggested routes. Safety tips are also included on the maps to promote good behavior among bicyclists, pedestrians, and drivers.
- Promote use of the walking path in Azevada Park.
- Consider using the section of Royal Palm Drive west of the school and other locations where parking is underutilized for Park & Walk sites.
- Participate in SR2S events, such as International Walk & Roll to School Day, the Golden Sneaker Contest, and Bike to School Day.
- Provide age-appropriate pedestrian and bicycle safety education to students, either during class or as an after school activity.
- Participate in SR2S evaluations each fall and spring to monitor progress on mode shift goals.
- Encourage and aid in the creation Walking School Bus groups.
- Pilot temporary circulation changes such as restricting turning movements or closing the drop-off loop in the spring to get parents ready for changes in the fall.



Fremont School Traffic Safety Assessment Joseph Azeveda Elementary School Preliminary Cost Estimate

Alta Planning + Design

11/30/2017

ITEM		ESTIMATED			
NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
1	Mobilization	1	LS	\$34,200	\$34,000
2	Traffic Control	1	LS	\$34,200	\$34,200
3	High Visibility Crosswalk	16	EA	\$2,000	\$32,000
4	Traverse Crosswalk	3	EA	\$500	\$1,500
4	Curb Extension & Ramp	6	EA	\$20,000	\$120,000
5	Curb Ramp Improvement	10	EA	\$5,000	\$50,000
6	Yield Line	5	EA	\$500	\$2,500
7	Sign and Post Assembly	8	EA	\$500	\$4,000
8	STOP Bar and Pavement Marking	5	EA	\$400	\$2,000
9	Minor Street Stop Control Study & Implementation	2	EA	\$6,000	\$12,000
10	Concrete Pedestrian Path	4800	SF	\$20	\$96,000
11	Painted Curb Marking	1	LS	\$2,000	\$2,000
12	Signal Modification (Leading Pedestrian Interval)	1	LS	\$20,000	\$20,000

SubTotal Items		\$410,200
CONSTRUCTION CONTINGENCY	20%	\$82,000
Total		\$492,200



PROJECT	Fremont School Traffic Safety Assessments		
SUBJECT	Azevada Elementary		
DATE	March 14, 2017		

Name	Organization/Affiliation	Email Address
Cashy Cornell	Parenot	Catcabralphotmail.com
Maryanne Kollen	- pasent / PTA	Maryannekoller @ gmailin
Carole Diamond	Principal / Azer.	Calamond @ frammt, K12. co. 4
RENE DALTON	COF TRANSP	rdalton@fremont.gov
Jonny Sanak	COF Transp	Ssunak@ Frement- jou
MICHAEL TEGORA	FREMONT PD	MTEGNER @ FREMONT.GOV
Vaisheli Kasav	Parent	adwaishalitesshirde yeloo.iom