



# SAFE ROUTES TO SCHOOL MASTER PLAN

## City of Baldwin Park



**October 2014**

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# Safe Routes to School Master Plan

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October 2014

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*Views and opinions presented in this report do not necessarily represent the views or opinions of Caltrans or the California Business Transportation and Housing Agency*



## INTRODUCTION

The City of Baldwin Park has embarked on an effort to improve safety at all of its public schools. Baldwin Park has received both Federal and State SRTS grants to fund the Maine Avenue Complete Streets project. The Maine Avenue project will make numerous improvements to Maine Avenue from Los Angeles Street to Arrow Highway. These will be completed soon. The Maine Avenue project precedes this current planning effort and sets the stage for improvements called for in this Plan. This Plan will position the City well to receive future grants for both infrastructure projects and non-infrastructure programs.

The City partnered with the Local Government Commission and the California Center for Public Health Advocacy, and was awarded a grant from Caltrans to create a City of Baldwin Park Safe Routes to School (SRTS) Plan (the Plan). The Plan will include SRTS plans for each school, and citywide efforts to support and complement the individual plans. This document details work completed thus far and future steps.

There are two primary purposes to SRTS programs:

1. To make it safer for students to walk and bicycle to school
2. To increase the number of students walking and bicycling to school

In addition to safety benefits, there are health benefits for students who walk and bike to school. Environmental benefits result as fewer parents drive their children to school every day. Additionally, as children and families adopt more active lifestyles, their quality of life increases, they have more free time from driving less, and community relationships are strengthened. All of these benefits combine to create more livable neighborhoods surrounding schools where children walk or bike to school.

This document contains a program for a “5E” approach to making walking and bicycling safer and more attractive to Baldwin Park’s students and parents. The 5Es include the following:

- Engineering—to make physical improvements to the routes that students use to walk or bicycle to school
- Education—to teach students safe walking and bicycling habits, to teach parents the importance of safe driving habits, and to emphasize health and environmental benefits
- Encouragement—to promote walking and bicycling to school so more students choose to do so
- Enforcement—to ensure that rules and laws of the road are followed, as well as safe pick-up and drop-off practices are adhered to at the schools

- Evaluation—to track the Plan to assess its success and to modify it accordingly

Experience shows that this approach yields successful results in both making our communities safer to walk and bicycle in, and increasing the number of students doing so.

The Caltrans grant funded a range of efforts at the schools to initiate this Plan. The grant was used to do the following:

- Conduct SRTS workshops at schools
- Assess the safety issues
- Plan physical modifications to the routes

This project began in August of 2013. In September of 2013 the consultant team began conducting SRTS workshops for the stakeholders at each school. Three nationally certified SRTS instructors from the consultant team facilitated the workshops. The workshops began with a presentation that described why SRTS is important, along with a sampling of engineering devices that can be applied to make walking and bicycling safer. Attendees also saw presentation modules on education, encouragement, and enforcement programs. The workshops provided Spanish-speaking residents at all the schools with translated presentation slides along with simultaneous interpretation with headphones.

After the presentation, stakeholder attendees walked around the school and identified safety concerns at particular locations along common routes to each school. Upon returning to the presentation room, attendees drew on large-scale maps of their schools and surrounding areas. Attendees marked common walking and cycling routes to their school and identified key issues and locations needing improvement. They identified general safety issues, as well as location-specific safety issues. They also listed potential education, encouragement, and enforcement programs that might work at their schools. These led to the creation of SRTS plans for each school.

Since Baldwin Park high schools are located adjacent to elementary and middle schools, the team conducted joint workshops and prepared joint plans for these.

The plans for each school contain detailed engineering concepts. They also include a bullet-pointed list of some education, encouragement, and enforcement ideas that workshop attendees mentioned as potential programs.

After the draft of this plan was released and reviewed by City staff, a final community workshop was conducted on April 29, 2014. Community members were presented with the draft projects and program plans for each school, and offered a chance to comment and offer additional ideas. The ideas received were then incorporated into the existing projects and recommendations in this plan.

This Plan updates SRTS planning work conducted in 1995 by Baldwin Park. The 1995 SRTS Plan identified specific street improvements near each school in a similar fashion to this Plan. Signals, crosswalk striping, signs and other improvements were called for. Those improvements have been completed. This Plan moves Baldwin Park to the next step. This update utilizes the latest devices and design guidance which have changed significantly since 1995.

## EVALUATION

In the beginning of the process, baseline surveys were taken to learn about existing commute to school patterns. As the Plan's programs unfold, they should show increases in the number of students walking and bicycling. Since engineering improvements (physical modifications made to streets and intersections) will likely be made after this planning effort ends, initial improvements will result from the programs alone. Further increases can be expected once the physical improvements are made. Table 1 below shows results of the first baseline tally conducted in classrooms in the fall of 2013. Students identified the way they commute to school by all the modes that are commonly used. "Other" may include skateboards, scooters or taxis.

**Table 1: Baseline Commute to School Tally**

School	Walk	Bicycle	Other Self-Driven	School Bus	Family Vehicle	Carpool with Children of Other Family	Public Bus	Other	Number of Students
Bursch Elementary School	104	1	1	10	189	13	0	0	318
Central Elementary School									
De Anza Elementary School	174	12	3	111	252	7	0	0	559
Elwin Elementary School	133	1	5	19	193	15	0	0	366
Foster Elementary School	206	2	5	58	283	21	7	1	583
Geddes Elementary School	145	3	5	112	414	28	0	0	707
Kenmore Elementary School	175	0	1	52	258	12	0	2	500
Margaret Heath Elementary School	166	0	0	7	304	34	0	0	511
Pleasant View Elementary School	124	4	3	16	181	31	0	1	360
Santa Fe Elementary School	28	0	0	0	194	31	0	3	256
Tracy Elementary School	172	0	0	28	351	32	1	1	585
Vineland Elementary School	208	9	4	53	369	41	0	1	685
Walnut Elementary School	118	1	5	11	332	32	1	4	504
Holland Middle School	176	11	30	34	275	24	0	0	550
Jones Jr. High School	181	5	0	35	223	19	1	5	469
Olive Middle School	97	3	5	21	325	16	0	0	467
Sierra Vista Jr. High School	275	5	3	32	399	31	1	0	746
<b>TOTAL BY MODE</b>	<b>2482</b>	<b>57</b>	<b>70</b>	<b>599</b>	<b>4542</b>	<b>387</b>	<b>11</b>	<b>18</b>	<b>8166</b>
<b>% BY MODE</b>	<b>30.39%</b>	<b>0.70%</b>	<b>0.86%</b>	<b>7.34%</b>	<b>55.62%</b>	<b>4.74%</b>	<b>0.13%</b>	<b>0.22%</b>	

School	Walkers	Riders	Number of Students
Central Elementary School	221	302	523

Notes: Tallies were taken for Grades 1-8 between the dates of 10/7/13-10/21/13. High School students were not tallied. Central Elementary used different categories for their tally.



## SRTS PLANS BY SCHOOL

Comments from the SRTS workshops were brought along when fieldwork was conducted so that the resulting plans address the issues raised. The fieldwork also identified issues observed, which the plans address. The schools are presented in the order when the workshops were conducted. The workshops were grouped with the elementary schools that feed each corresponding middle school.

The planned physical improvements along school routes are described in the following pages. The Design Guidance section at the end of this document provides definition and guidance on these improvements. All bulb-outs and curb extensions will include perpendicular curb ramps and truncated dome tactile devices for the sight impaired. All pedestrian signals include audible signals for the sight impaired. All parkways planned for paving will ideally be paved with porous concrete for infiltration.

This is a *planned* list of improvements. The list gives the City projects that it can seek funds for. The City may want to change the list over time, as the list is conceptual. Engineering will need to be conducted prior to construction.

Crossing improvements are numbered according to their location in this document.

Maps on the following pages illustrate common routes that students take to get to school. The proposed improvements were planned along these routes.

The City should consider implementing some of the less expensive items first. Some items are relatively inexpensive and many can be put in within a short time frame after this Plan has been adopted. On the other hand, devices that require construction, and perhaps drainage modification, are significantly more expensive and may become long-term expenditures. Table 2 below shows some of the devices for consideration of short-term or long-term implementation.

**Table 2: Short-Term Vs. Long-Term Devices**

Short-Term Devices	Long-Term Devices
Crosswalks	Curb extensions
Advanced stop/yield lines	Crossing islands
Signs	Hybrid beacons
Countdown signals	Raised crosswalks
Curb ramps	Sidewalks
Bike lanes	Paths
Red curbs	Drainage modifications
Rapid flash beacons	

However, the City should take extra care with uncontrolled crossings, especially of multi-lane streets. Research has shown that simply marking a crosswalk on multi-lane streets with over 12,000 vehicles per day may result in more pedestrian crashes. The research recommends that other devices, such as but not limited to crossing islands, advanced yield lines, curb extensions and beacons are needed to make these pedestrian crossings safe. So in these cases, new crosswalks should be put in with some devices that are more expensive.

In addition to cost, the City should also consider means of prioritizing projects. The City won't be able to fund all of the improvements at once so they will have to be phased in. In order to prioritize projects the city can apply such criteria as, but not limited to:

- Crash history
- Traffic volumes
- Pedestrian volumes
- Number of travel lanes
- Width of the street
- Traffic speed
- Size of the school
- Community support

The City should also seek opportunities to piggy back on other projects. For example, the Maine Avenue project will soon make improvements that will benefit a number of schools. A future Olive Street project could do the same. Implementing a citywide bicycle plan will coincide with bikeway projects in this Plan. Resurfacing projects present ideal opportunities to stripe bike lanes, crosswalks, advanced yield lines, etc.

The plans for each school are presented in an order that groups elementary schools with the middle schools that they feed into in the same area of the city.



**Tracy Elementary School**

## SRTS Workshop

A SRTS workshop was conducted on October 8, 2013. The following key stakeholders attended:

- School principal
- School community liaison
- Parents
- Tutor
- Noon aide
- Representatives from the Baldwin Park Unified School District
- Representatives from the California Center for Public Health Advocacy



## Safety Issues Raised at the Stakeholder Workshop or Through Field Observations

### General

- Speeding
- Narrow sidewalks
- No bike lanes
- Poor visibility of pedestrians
- Lack of marked crosswalks
- Lack of signage
- Double parking
- Traffic
- Inadequate traffic signals
- Poor drainage
- Dogs
- Animal droppings
- Car exhaust

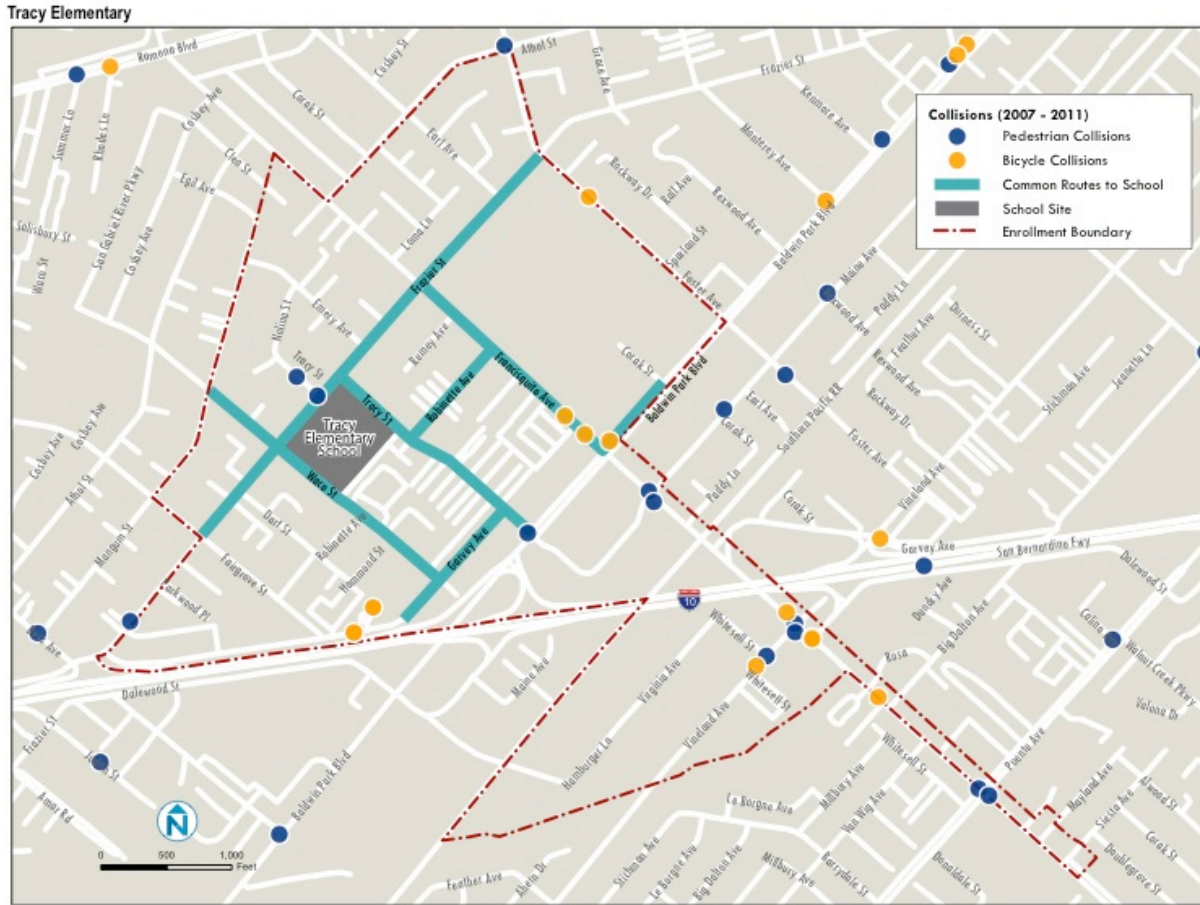
### Location-Specific Issues

- Waco St. & Frazier St.
  - motorists don't stop for pedestrians

- crosswalks aren't visible
  - kids cross diagonally
- Waco St. & Garvey Ave.
  - no marked crosswalk
- Tracy St. & Frazier St.
  - motorists don't stop for pedestrians
  - speeding
  - motorists ignore crossing guards
  - narrow curbs
  - no bike lanes
  - needs a road diet
  - cars park on the corner
- Tracy St. & Robinette Ave.
  - motorists block the crosswalk
  - motorists block the sidewalk
  - poor drainage
- Waco St. & Robinette Ave.
  - no marked crosswalk
  - speeding
  - double parking
  - poor drainage
- Francisquito Ave. & Robinette Ave.
  - no marked crosswalk
- Whitesell St. & Vineland Ave.
  - bus stop for students; no bus stop signage
  - poor crosswalk
- Along Tracy St.
  - sidewalk too narrow
- Along Waco St.
  - sidewalk too narrow
  - debris and trash
- Along Garvey Ave.
  - overgrown plants on the sidewalk
- School driveway
  - cars block the sidewalk
- Back gate
  - many students cross the street mid-block here

## Maps

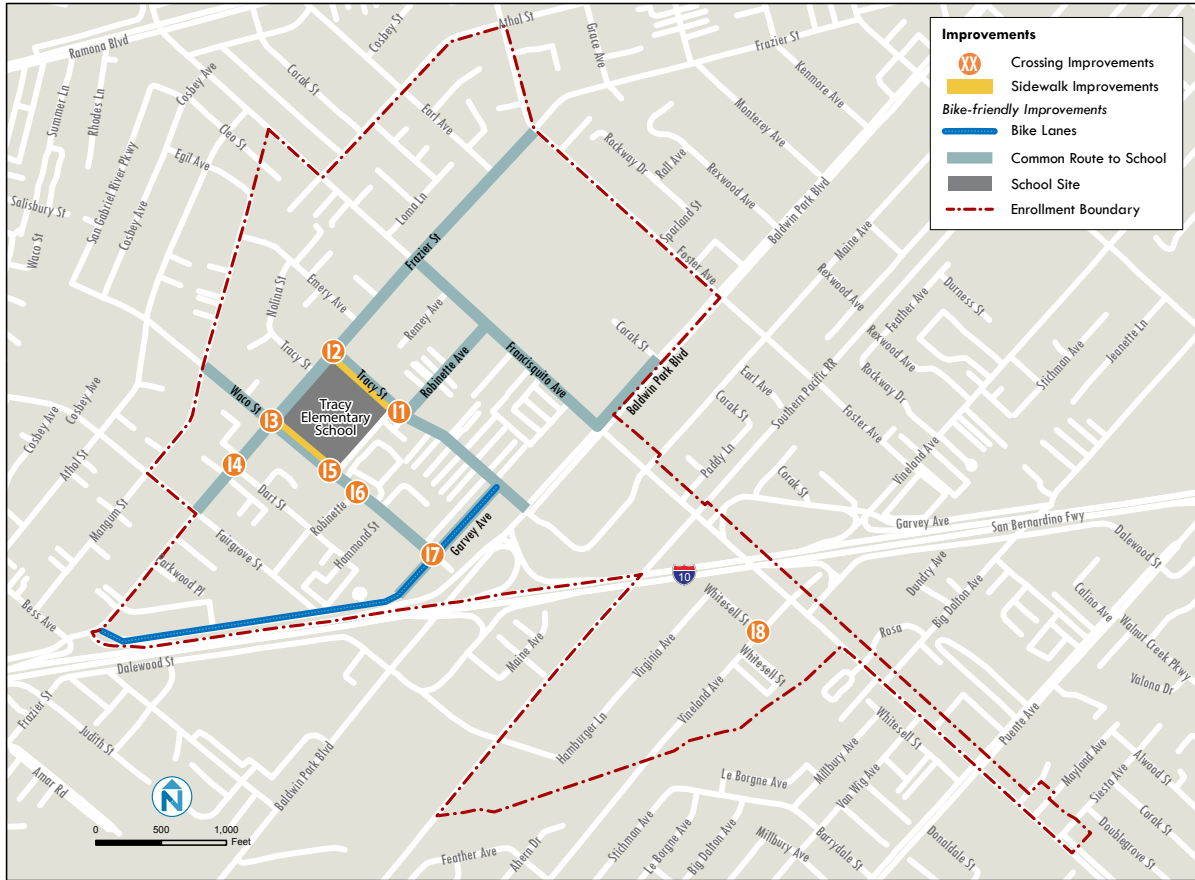
The following map displays bicyclist and pedestrian involved crashes for a five-year period between 2007 and 2011.



California Transportation Injury Mapping System data (2007-2011)

The map below shows the proposed engineering projects along common routes used by students to get to school.

Tracy Elementary



## Existing Conditions and Engineering Recommendations

### Crossing Improvements

#### 11. Tracy St. & Robinette Ave.

##### Existing

- T-intersection
- 3-way stop
- Yellow transverse-line crosswalks on the NW and NE legs
- Cars back up and block the sidewalk here to the school driveway

##### Proposed

- Add a yellow zebra-stripe crosswalk on the NW and NE legs (2)
- Add advanced stop lines to the NW and NE leg crosswalks (2)
- Add curb extensions to both crossing faces of the NW and NE legs (4)
- Add a raised sidewalk over the school driveway to slow cars and make it easier for pedestrians to cross (1)
- Add a sign to instruct parents not to block the sidewalk at the driveway (1)
- Evaluate ways to improve drainage



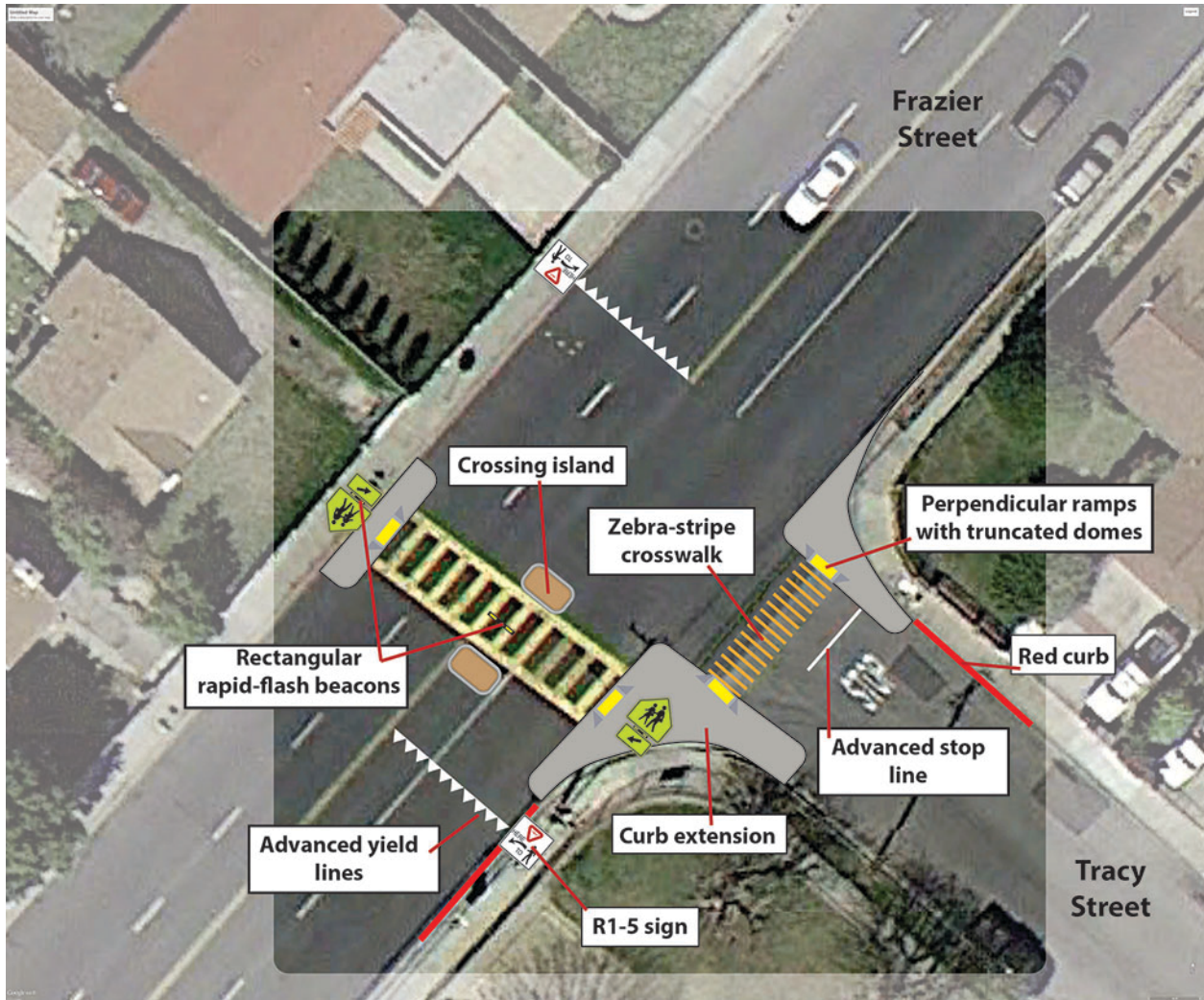


**I2. Tracy St. (NW intersection) & Frazier St.**Existing

- T-intersection
- 1-way stop for Tracy St.
- Yellow transverse-line crosswalk on the SE leg
- Yellow ladder crosswalk on the SW leg
- No curb ramp on the NW side of the SW leg crosswalk
- SLOW SCHOOL XING pavement markers on both approaches to the SW leg crosswalk
- Old Assembly D signs on both approaches to the SW leg crosswalk
- Old Assembly B signs at the SW leg crosswalk
- Assembly C signs on both approaches to the SW leg crosswalk
- Crossing guard

Proposed

- Add a yellow zebra-stripe crosswalk on the SE leg (1)
- Add advanced stop lines to the SE leg (1)
- Add curb extensions to both crossing faces of the SW and SE legs (4)
- Add advanced yield lines to both approaches to the SW leg crosswalk (2)
- Add R1-5 signs to both approaches to the SW leg crosswalk (2)
- Add crossing islands to the SW leg crosswalk (1 pair) (if a road diet is done on Frazier St., these would go in the center-turn lane; if not, restrict on-street parking at the crosswalk)
- Add rectangular rapid flash beacons to the SW leg crosswalk (1 set)
- Add a red curb on Frazier St. on the SE side SW of the SW leg crosswalk, and on Tracy St. on the NE side just SE of Frazier St. (1)



### 13. Waco St. & Frazier St.

#### Existing

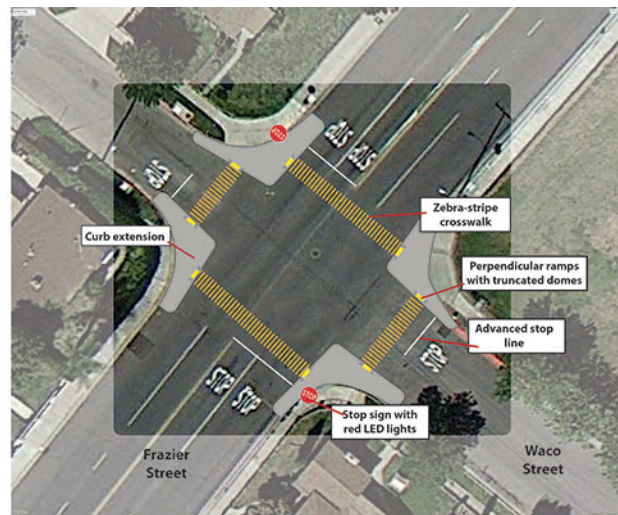
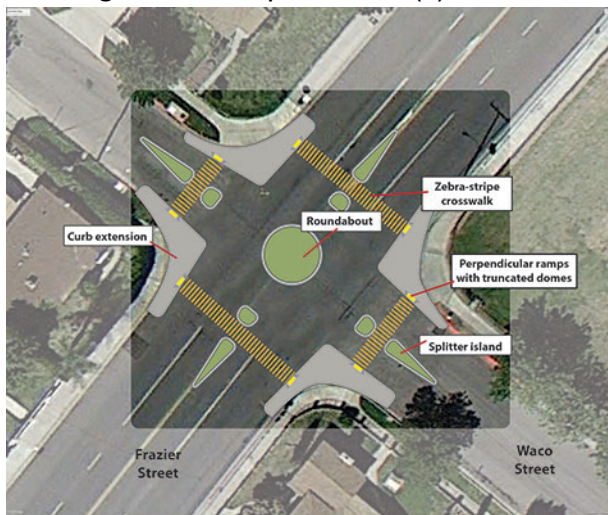
- 4-way stop
- Yellow transverse-line crosswalks on all legs

#### Proposed Option 1

- If a road diet is done on Frazier, replace the stop signs with a roundabout
- Choke the corners down

#### Proposed Option 2

- Add a yellow zebra-stripe crosswalk on all legs (4)
- Add advanced stop lines to all crosswalks (4)
- Add curb extensions to all crossing faces (8)
- Replace existing stop signs on Frazier St. with stop signs that have flashing LED lights on the perimeter (2)



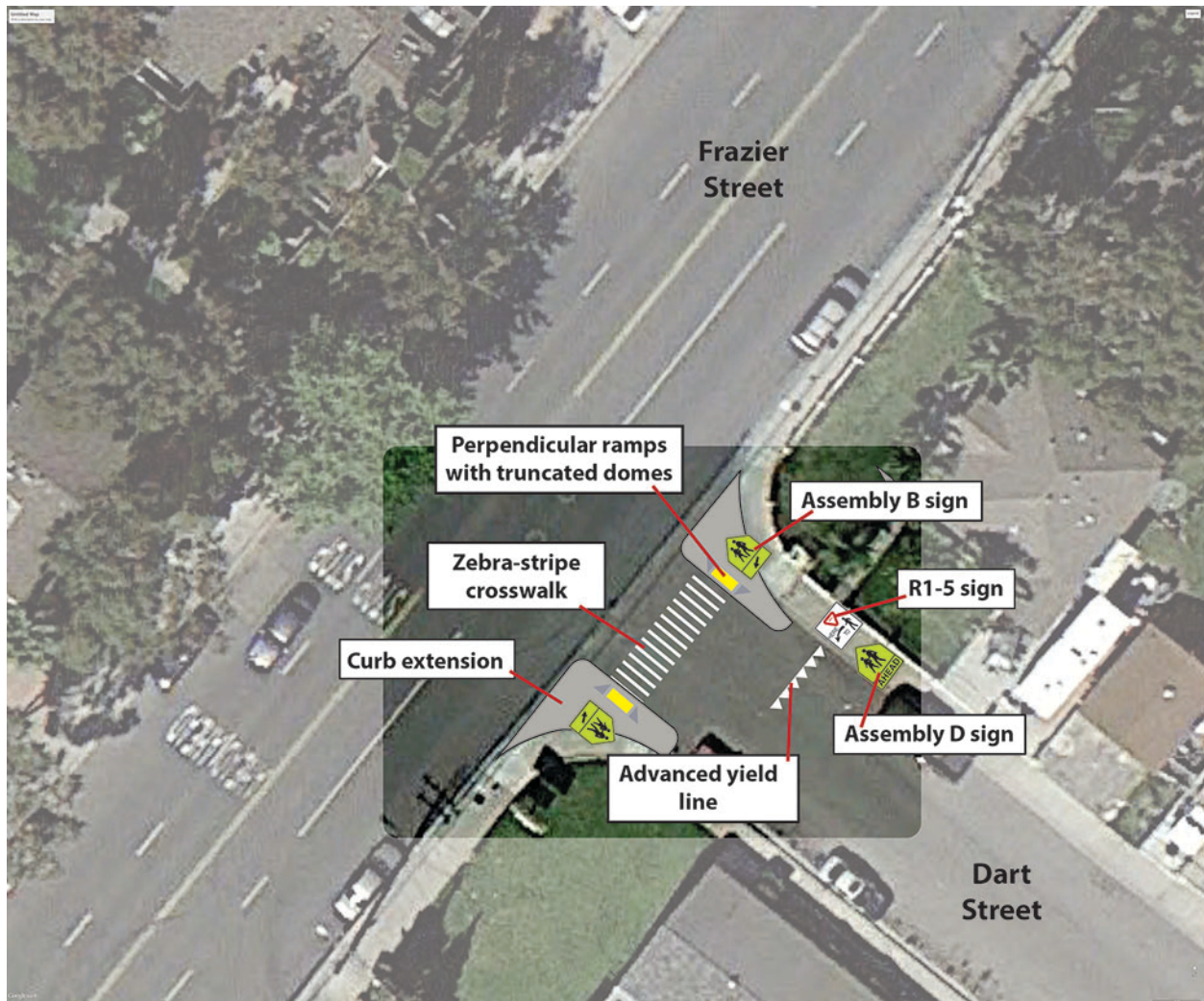
## 14. Frazier St. & Dart St.

### Existing

- T-intersection
- Uncontrolled intersection

### Proposed

- Add a zebra-stripe crosswalk on the SE leg (1)
- Add an advanced yield line to the approach of the SE leg (1)
- Add an R1-5 sign to the approach of the SE leg (1)
- Add an Assembly D sign to the approach of the SE leg (1)
- Add Assembly B signs to the SE leg crosswalk (2)
- Add curb extensions to both crossing faces of the SE leg crosswalk (2)



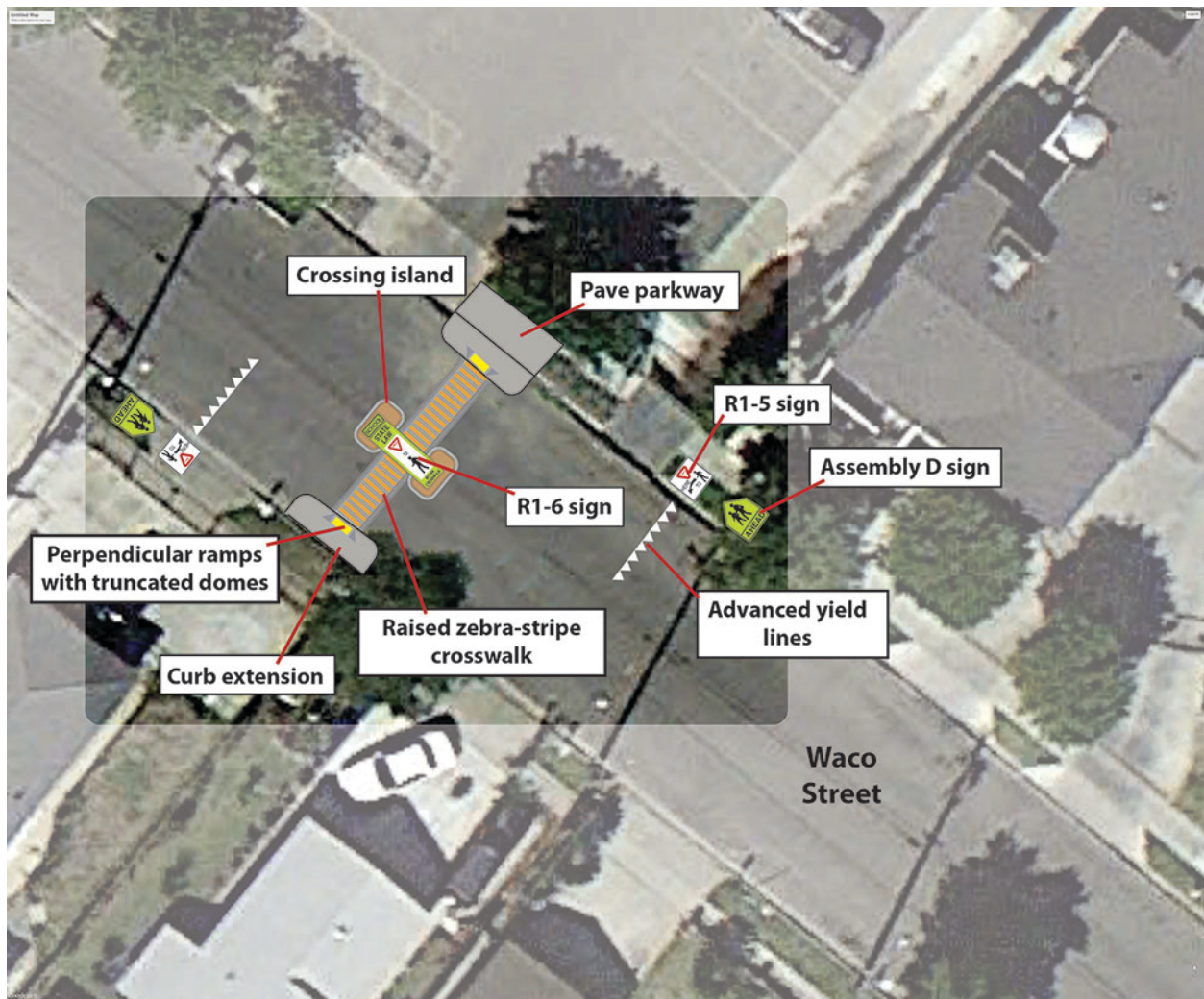
## 15. Back Gate to the School on Waco St.

### Existing

- Students cross here without a marked crosswalk

### Proposed

- Add a raised yellow zebra-stripe crosswalk to cross Waco St. (1)
- Add advanced yield lines to both approaches of the new crosswalk (2)
- Add an R1-5 sign to both approaches of the new crosswalk (2)
- Add an Assembly D sign to both approaches of the new crosswalk (2)
- Add R1-6 signs to the new crosswalk (2)
- Add curb extensions to both crossing faces of the new crosswalk (2)
- Add crossing islands to the new crosswalk (1 pair)
- Pave the parkway to connect the crosswalk to the sidewalk on the NE side (1)
- Trim trees that block Assembly A signs along Waco St.



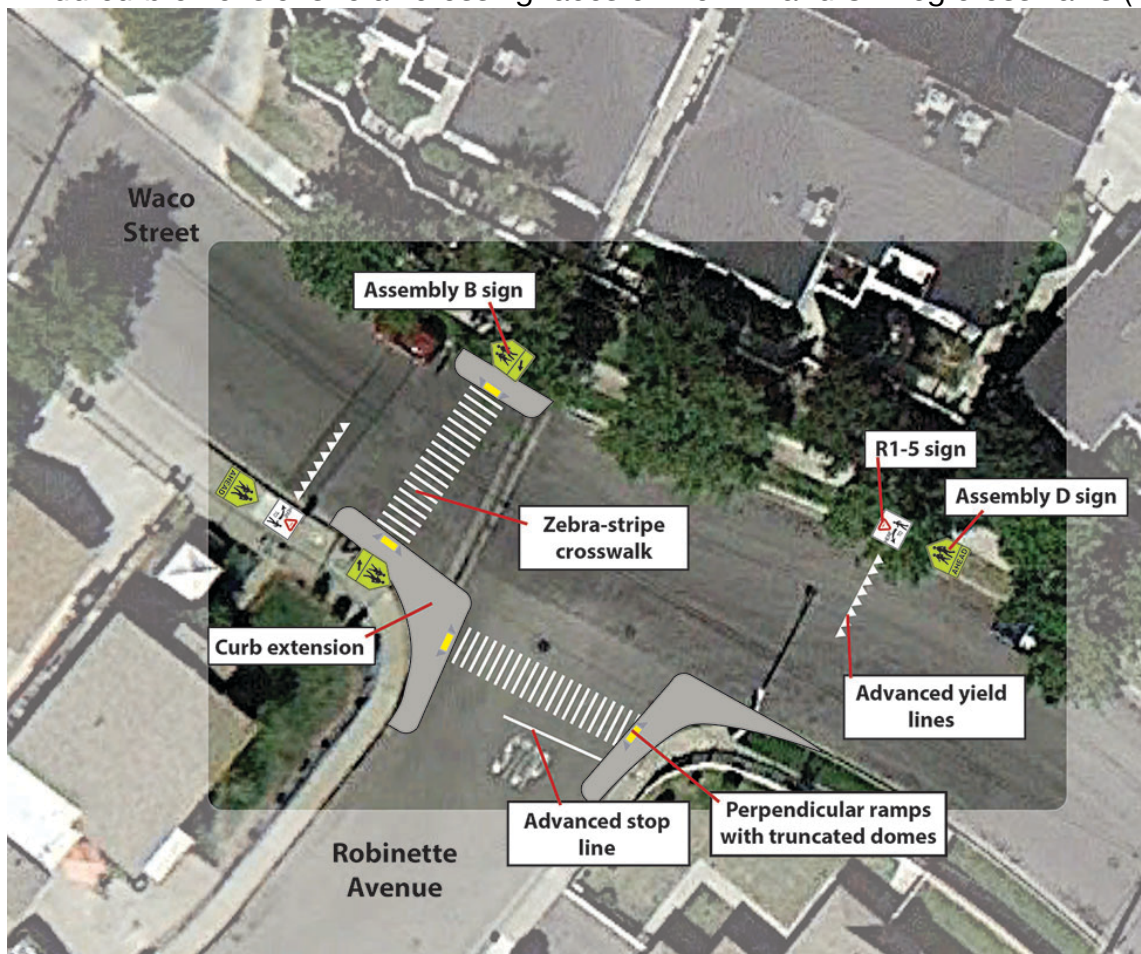
## 16. Robinette Ave. & Waco St.

### Existing

- T-intersection
- 1-way stop for Robinette Ave.
- No marked crosswalk
- Drainage channel on the NW leg

### Proposed

- Add zebra-stripe crosswalks to the NW (NW of drainage) and SW legs (2)
- Add an advanced stop line to the SW leg crosswalk (1)
- Add advanced yield lines to both approaches of the NW leg crosswalk (2)
- Add R1-5 signs to both approaches of the NW leg crosswalk (2)
- Add an Assembly D sign to both approaches of the NW leg crosswalk (2)
- Add Assembly B signs to the NW leg (2)
- Add curb extensions to all crossing faces of the NW and SW leg crosswalks (4)



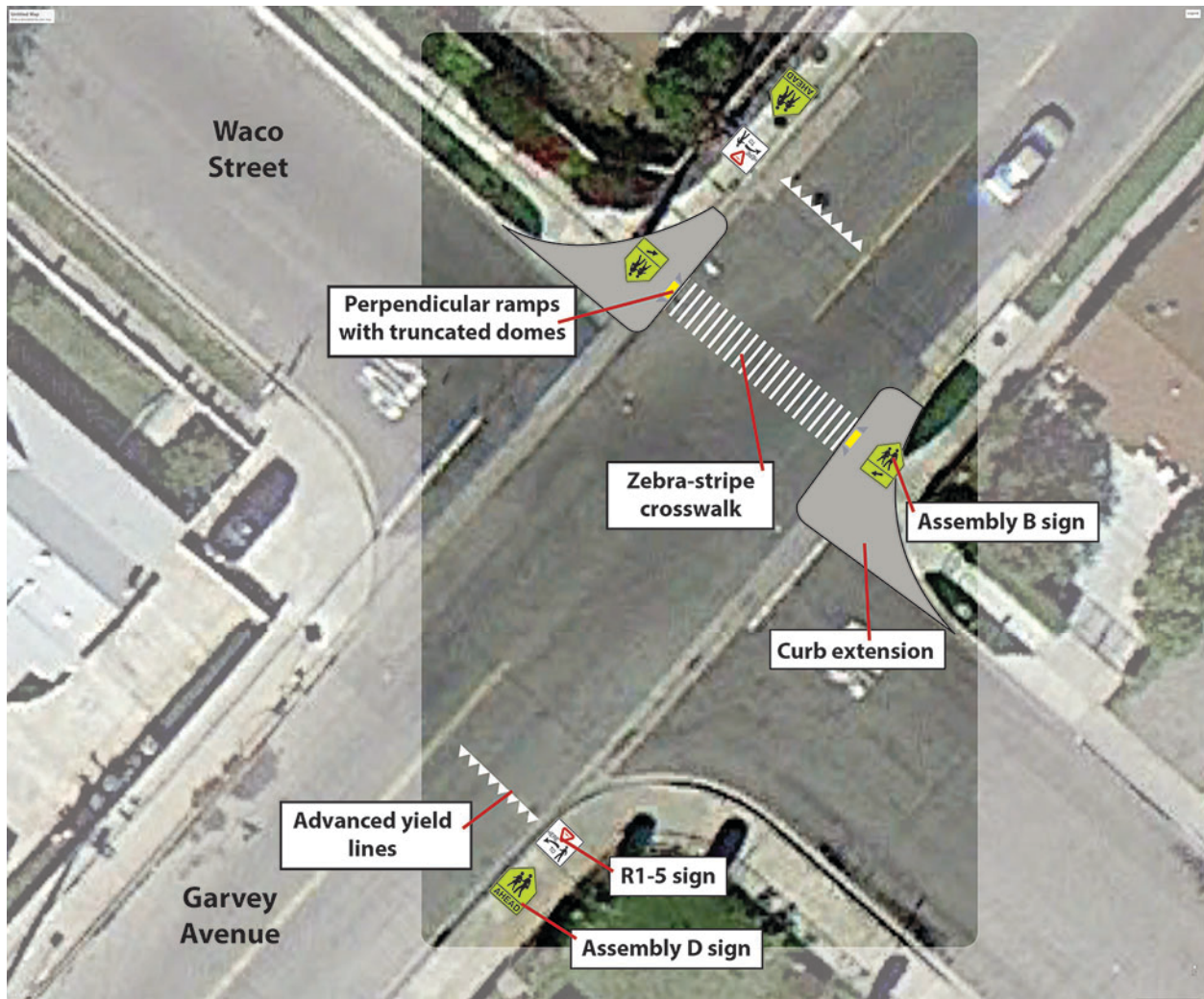
### 17. Waco St. & Garvey Ave.

#### Existing

- 2-way stop for Waco St.
- No marked crosswalk

#### Proposed

- Add a zebra-stripe crosswalk to the NE leg (1)
- Add advanced yield lines to both approaches of the NE leg crosswalk (2)
- Add R1-5 signs to both approaches of the NE leg crosswalk (2)
- Add an Assembly D sign to both approaches of the NE leg crosswalk (2)
- Add Assembly B signs to the NE leg (2)
- Add curb extensions to both crossing faces of the NE leg crosswalk (2)



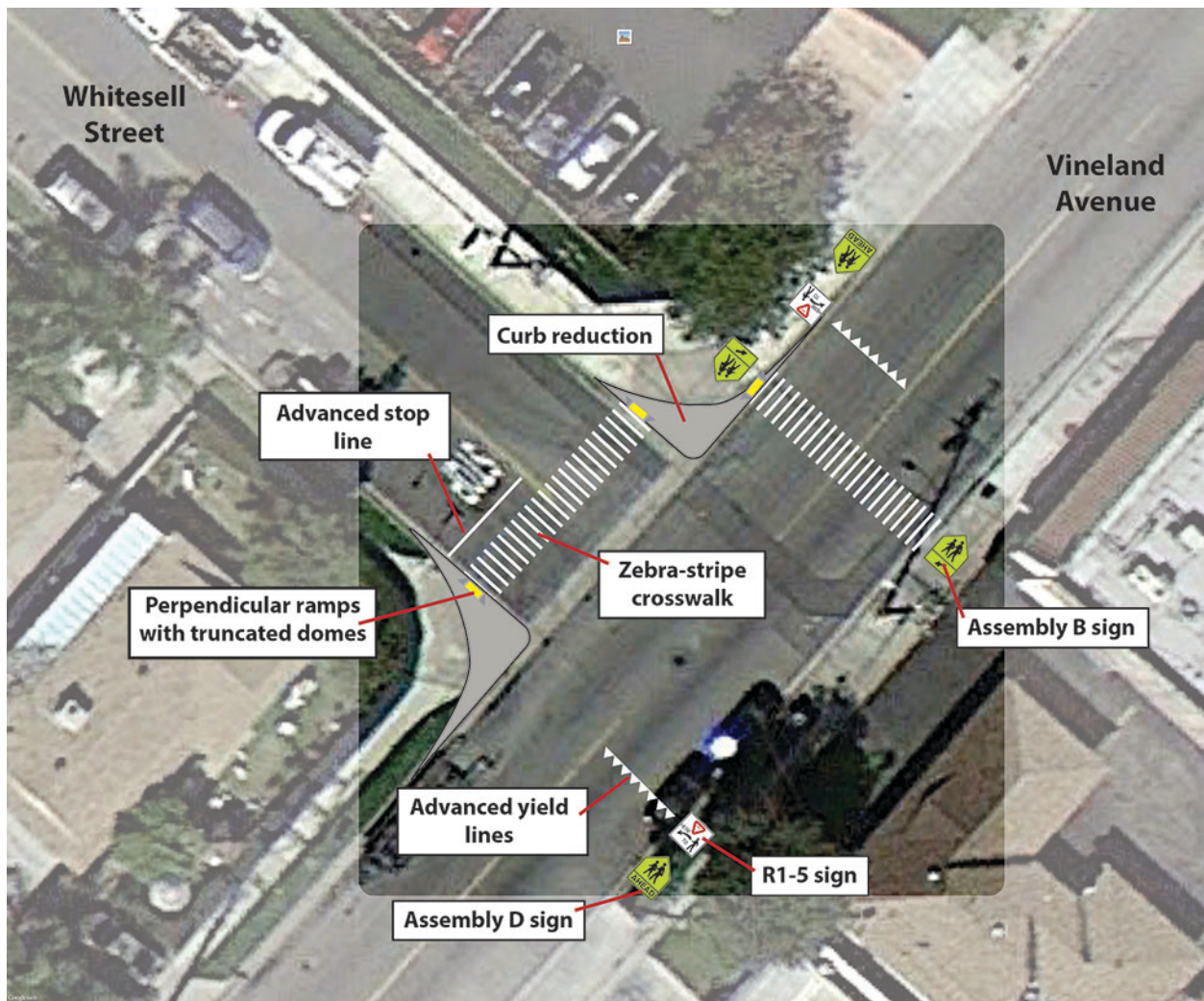
## 18. Vineland Ave. & Whitesell St.

### Existing

- T-intersection
- 1-way stop for Whitesell St.
- School bus stop

### Proposed

- Add a zebra-stripe crosswalk to the NW and NE legs (2)
- Add an advanced stop line to the NW leg crosswalk (1)
- Add advanced yield lines to both approaches of the NE leg crosswalk (2)
- Add R1-5 signs to both approaches of the NE leg crosswalk (2)
- Add an Assembly D sign to both approaches of the NE leg crosswalk (2)
- Add Assembly B signs to the NE leg (2)
- Reduce the curb return on the north and west corners (2)





## Linear Improvements

- Pave the parkway on the school side of Tracy St. from Robinette Ave. to Frazier St. (approximately 460')
- Pave the parkway on the school side of Waco St. from Frazier St. to the back entrance (approximately 500')
- Get the property owner to trim shrubs along the NW side of Garvey Ave. just NE of Waco St.
- Remove parking on the NW side of Garvey Ave. from Tracy St. to the point where the street curves to become east-west and add 6' bike lanes (0.2 mi.)
- Add 5' bike lanes from the point where the street curves to become east-west to Frazier St. (0.4 mi.)

## Bicycle, Skateboard, and Scooter Parking

- Add racks for 10 bicycles as described in the Design Guidance section. Add racks for 10 skateboards or scooters. Add more if needed.

## Program Plan

Over time the schools will form SRTS Committees. These committees will oversee and coordinate ongoing education, encouragement, and enforcement programs at the schools. They will decide which programs to institute. In the meantime, workshop participants at Tracy Elementary School viewed modules on these topics and generated the following list of ideas they thought they would like to participate in.

### Education

- Options for parents and students
- Creation of a committee of parents to spearhead incentives

### Encouragement

- Walking school buses
- International Walk-to-School Day event; advertise with posters around the school
- Walking Wednesdays
- Bike-to-School Day
- Class competitions with incentives for walking and bicycling

### Enforcement

- Police enforcement
- Parent involvement