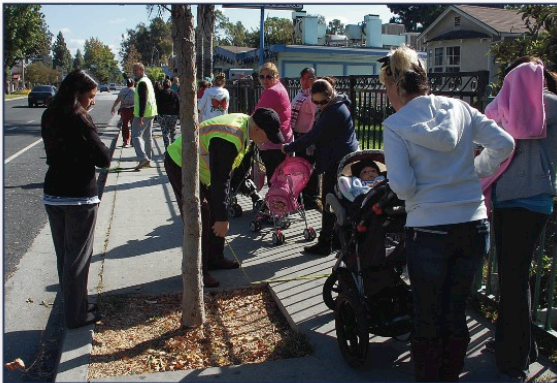




# SAFE ROUTES TO SCHOOL MASTER PLAN

## City of Baldwin Park



**October 2014**

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# Safe Routes to School Master Plan

## City of Baldwin Park

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.

## 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	



**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.

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.



**Margaret Heath Elementary School**

## SRTS Workshop

An SRTS workshop was conducted on September 17, 2013. The following key stakeholders attended:

- School principal
- Representatives from the Baldwin Park Unified School District
- Parents
- City Public Works Department staff
- Representatives from the California Center for Public Health Advocacy



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

### General

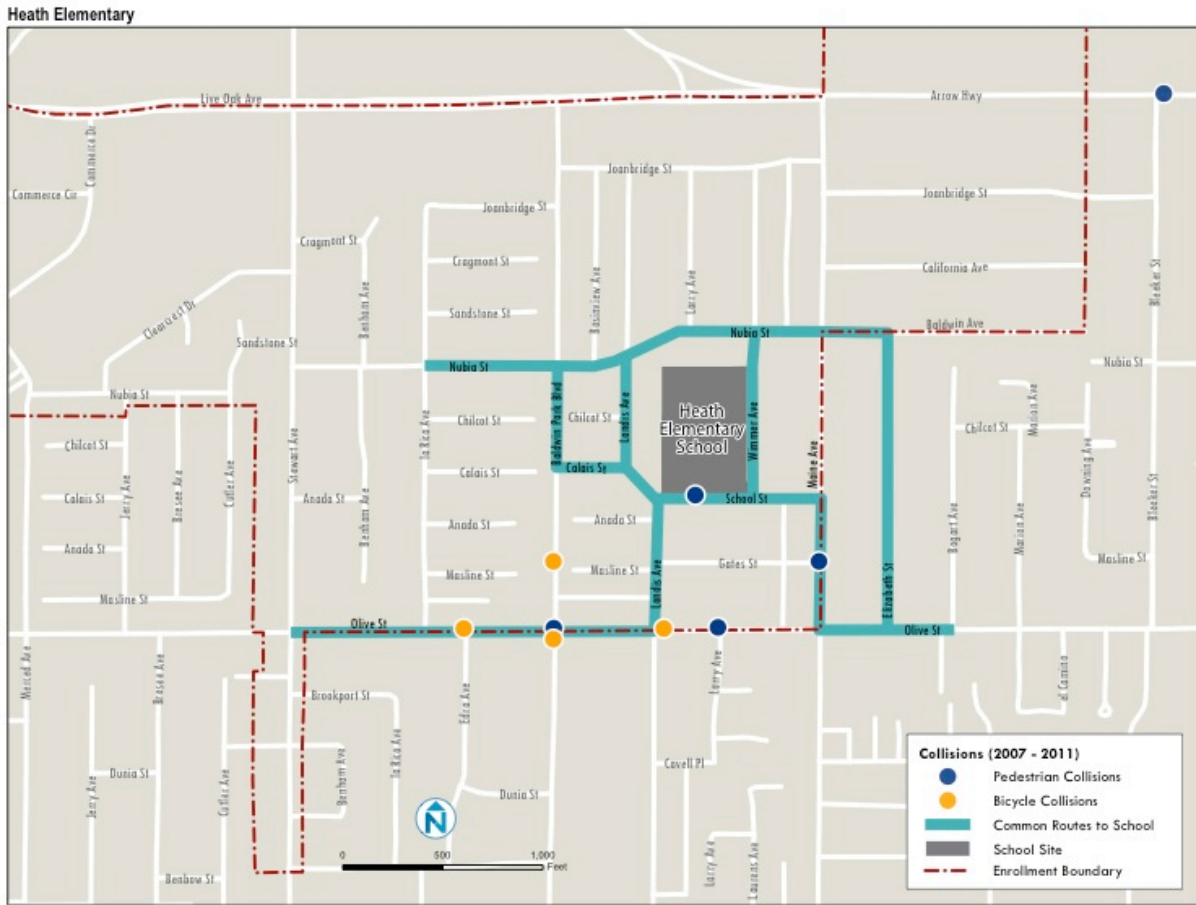
- Speeding
- Poles in sidewalks
- Narrow sidewalks
- Lack of stop signs
- Lack of crosswalks
- No disabled access
- Motorists not yielding to pedestrians
- Lack of shade
- Rolling stops
- No bike lanes
- Inadequate curb ramps
- Stray dogs
- Large curb radii
- Blind spots
- Need bike parking
- Narrow streets
- Many cars stopping in the street
- Cars stopping in the middle of the crosswalk
- Wide intersections
- Double parking
- Parking in the red zone

### Location-Specific Issues

- School St. & Wimmer Ave.
  - motorists speed
  - motorists cut the corner when pedestrians are present
  - parked cars block visibility
  - need a crossing guard
- School St. & Landis Ave.
  - wide and difficult to cross
  - no crosswalk to cross Landis Ave.
- Landis Ave. & Anada St.
  - no marked crosswalk
- Landis Ave. & Nubia St.
  - wide and difficult to cross
  - motorists speed
  - pedestrians cross diagonally from the NW corner to the SE corner
- Nubia St. & Baldwin Park Blvd.
  - no marked crosswalk to cross Baldwin Park Blvd.
  - no signal to cross Baldwin Park Blvd.
- Along School St.
  - narrow sidewalks
  - poles and signs in the sidewalks
- Along Landis Ave.
  - motorists speed
- Along Maine Ave.
  - motorists speed

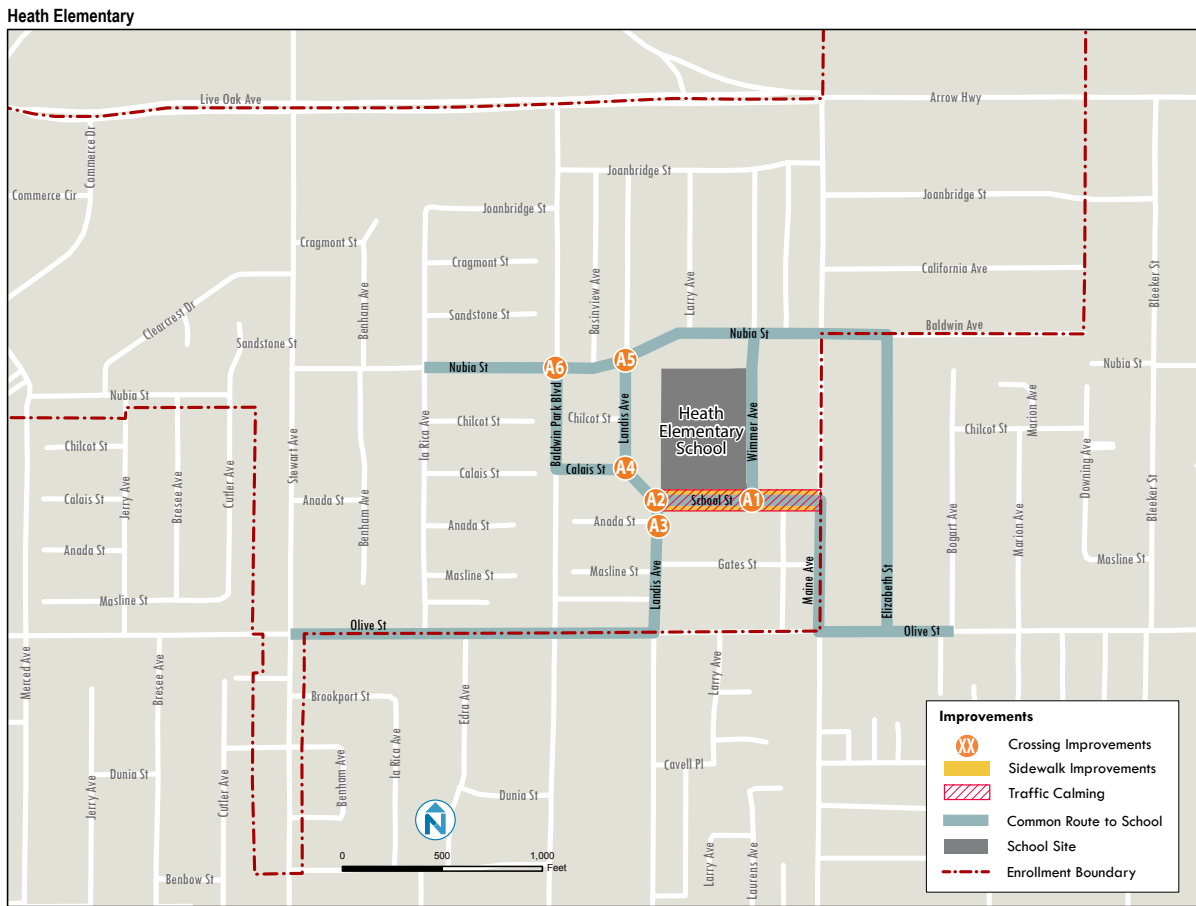
## Maps

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.



## Existing Conditions and Engineering Recommendations

### Crossing Improvements

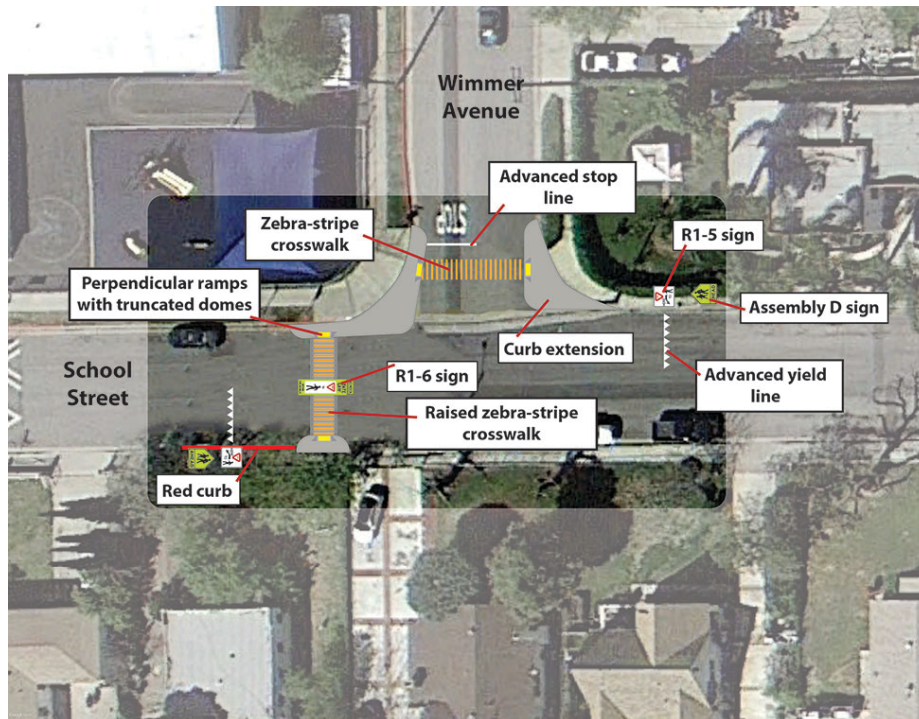
#### A1. School St. & Wimmer Ave.

##### Existing

- T-intersection
- 1-way stop for Wimmer Ave.
- Yellow transverse-line crosswalks on the north and west legs
- Old School Xing sign on the eastbound approach to the west leg crossing
- No curb ramp on the north side of the west leg

##### Proposed

- Add yellow raised zebra-stripe crosswalks to the west leg (1)
- Add a yellow zebra-stripe crosswalk to the north leg (1)
- Add curb extensions to both crossing faces of the north and west legs (4)
- Add R1-6 signs to the west leg crosswalk (1)
- Add advanced yield lines to the west leg crosswalk (2)
- Add R1-5 signs to the west leg crosswalk (2)
- Add Assembly D signs to the west leg crosswalk (2)
- Add an advanced stop line to the north leg crosswalk (1)
- Add a red curb to the south side of the west leg (1)





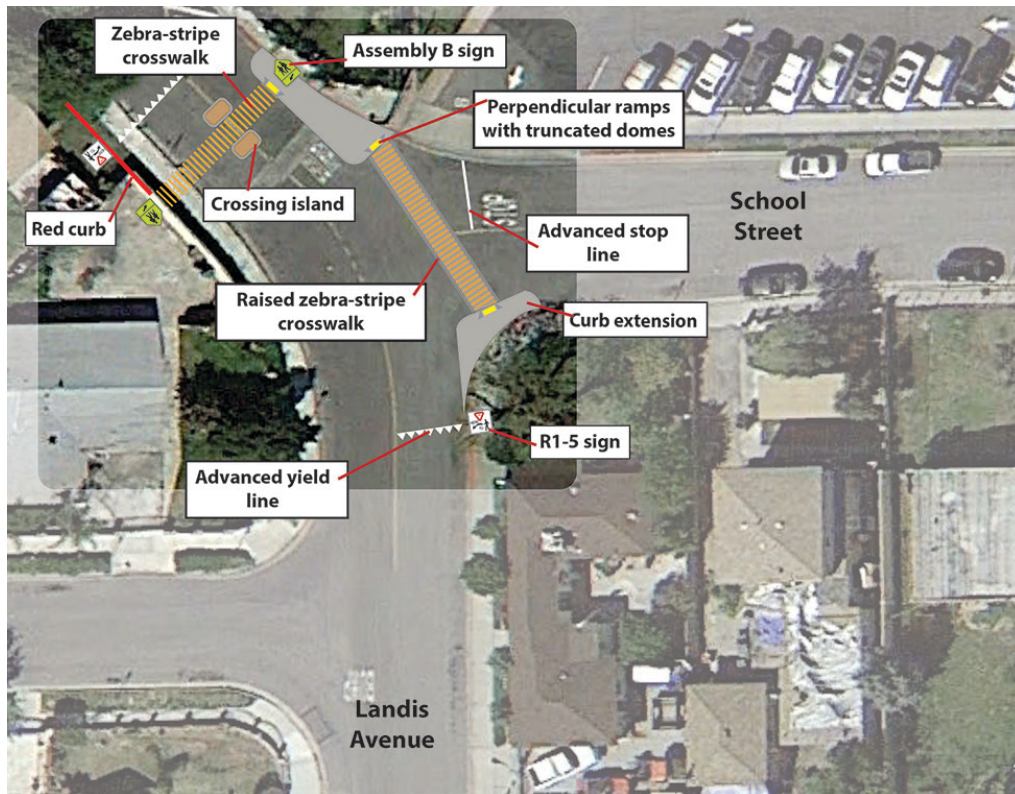
## A2. School St. & Landis Ave.

### Existing

- T-intersection
- 1-way stop for School St.
- Yellow transverse-line crosswalk on the east leg

### Proposed

- Add a yellow raised zebra-stripe crosswalk on the east leg (1)
- Add an advanced stop line to the east leg crosswalk (1)
- Add a yellow zebra-stripe crosswalk to the north leg on the north side (north of the drainage channel) (1)
- Add large curb extensions to both crossing faces of the east leg and to the east side of the north leg crosswalk (3)
- Add crossing islands to the north leg (1 pair)
- Add advanced yield lines to the north leg crosswalk (2)
- Add R1-5 signs to the north leg crosswalk (2)
- Add Assembly B signs to the north leg crosswalk (2)
- Add a red curb to the west side of the north leg crosswalk (1)
- Drainage issues will require special design



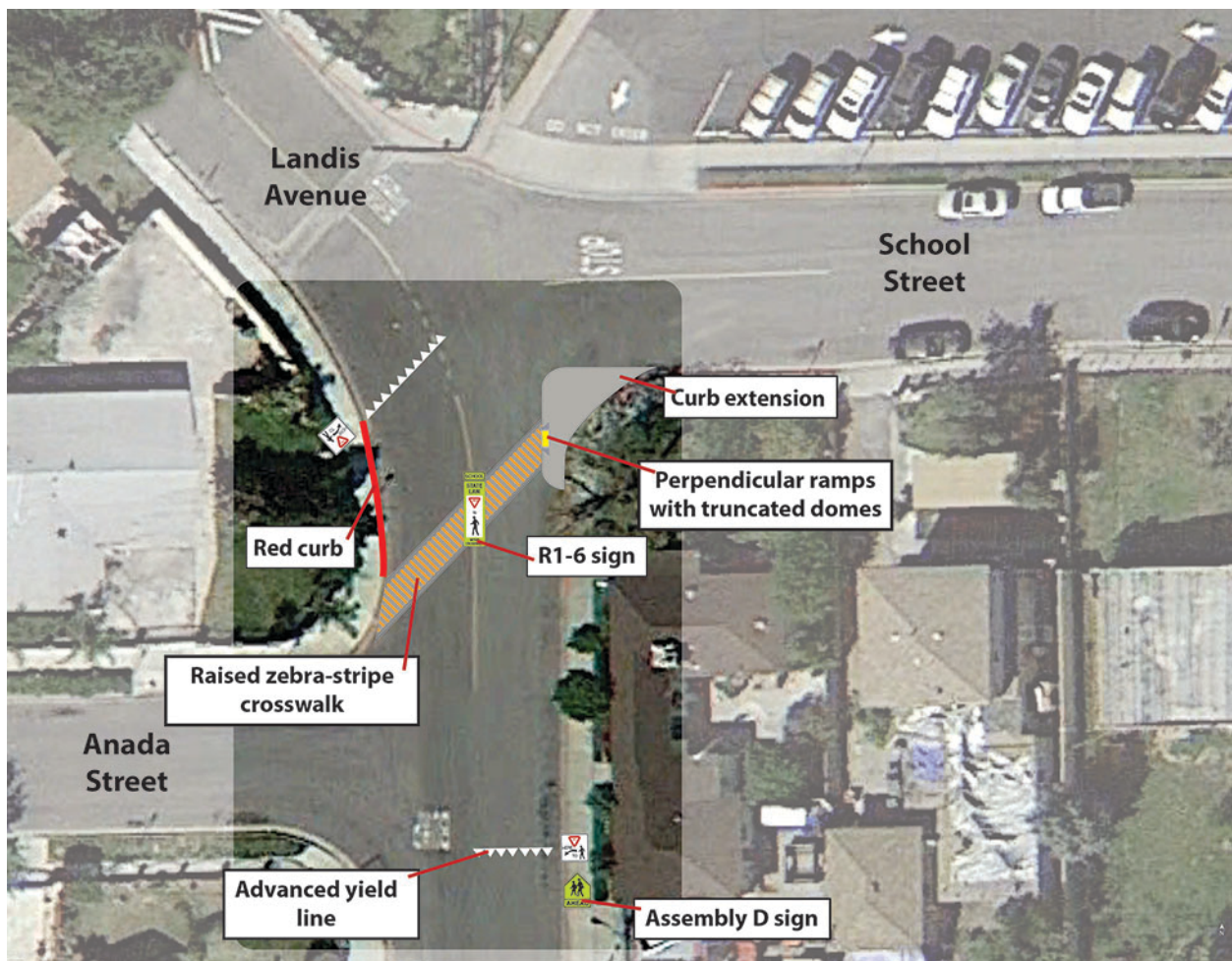
### A3. Landis Ave. & Anada St.

#### Existing

- T-intersection
- 1-way stop for Anada St.
- No marked crosswalk

#### Proposed

- Add a raised yellow zebra-stripe crosswalk from the north side of Anada St. to the south side of School St. (1)
- Add a curb extension on the SE corner of School St. (1)
- Add advanced yield lines to the Landis Ave. crosswalk (2)
- Add R1-5 signs to the Landis Ave. crosswalk (2)
- Add a R1-6 sign to the Landis Ave. crosswalk (1)
- Add a red curb to the west side of Landis Ave. for the new crosswalk (1)
- Add an Assembly D sign to the Landis Ave. crosswalk on the south approach (1)



### A4. Landis Ave. & Calais St.

#### Existing

- T-intersection
- 1-way stop for Calais St.
- Yellow transverse-line crosswalk on the south leg
- No curb ramp on the east side

#### Proposed

- Add a zebra-stripe crosswalk on the south leg (1)
- Add curb extensions to both sides of the south leg crosswalk (2)
- Add advanced yield lines to the south leg crosswalk (2)
- Add R1-5 signs to the south leg crosswalk (2)
- Add an R1-6 sign to the south leg crosswalk (1)
- Add an Assembly D sign to the south leg crosswalk on the north approach (1)



**A5. Landis Ave. & Nubia St.**

Existing

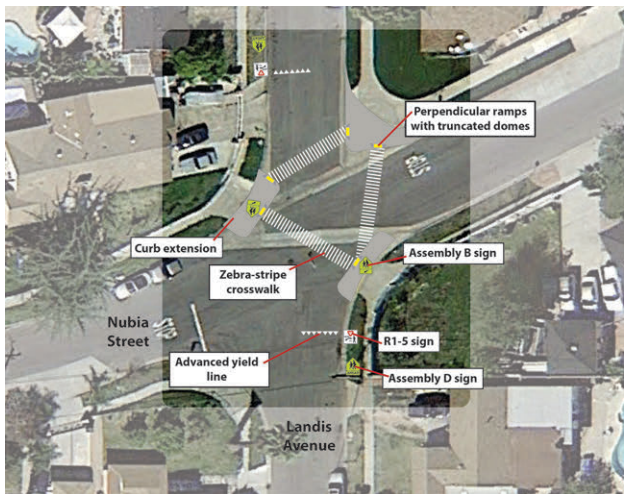
- 2-way stop for Nubia St.
- Off-set and curved intersection
- Yellow transverse-line crosswalk on the east leg
- 58' diagonal NW to SE (shortest diagonal distance)

Option 1 Proposed

- Add zebra-stripe crosswalks to the east and north legs of the crosswalk (2)
- Add a curb extension on the north side of the east leg crosswalk (1)
- Add a new diagonal NW to SE zebra-stripe crosswalk (1)
- Add large curb extensions to the NW and SE corners to shorten the distance (2)
- Add advanced yield lines to the diagonal crosswalk (2)
- Add R1-5 signs to the diagonal crosswalk (2)
- Add Assembly B signs to the diagonal crosswalk (2)
- Add Assembly D signs to the diagonal crosswalk (2)

Option 2 Proposed

- Add an oblong-shaped roundabout
- Extend the NE and SW curbs to create more deflection



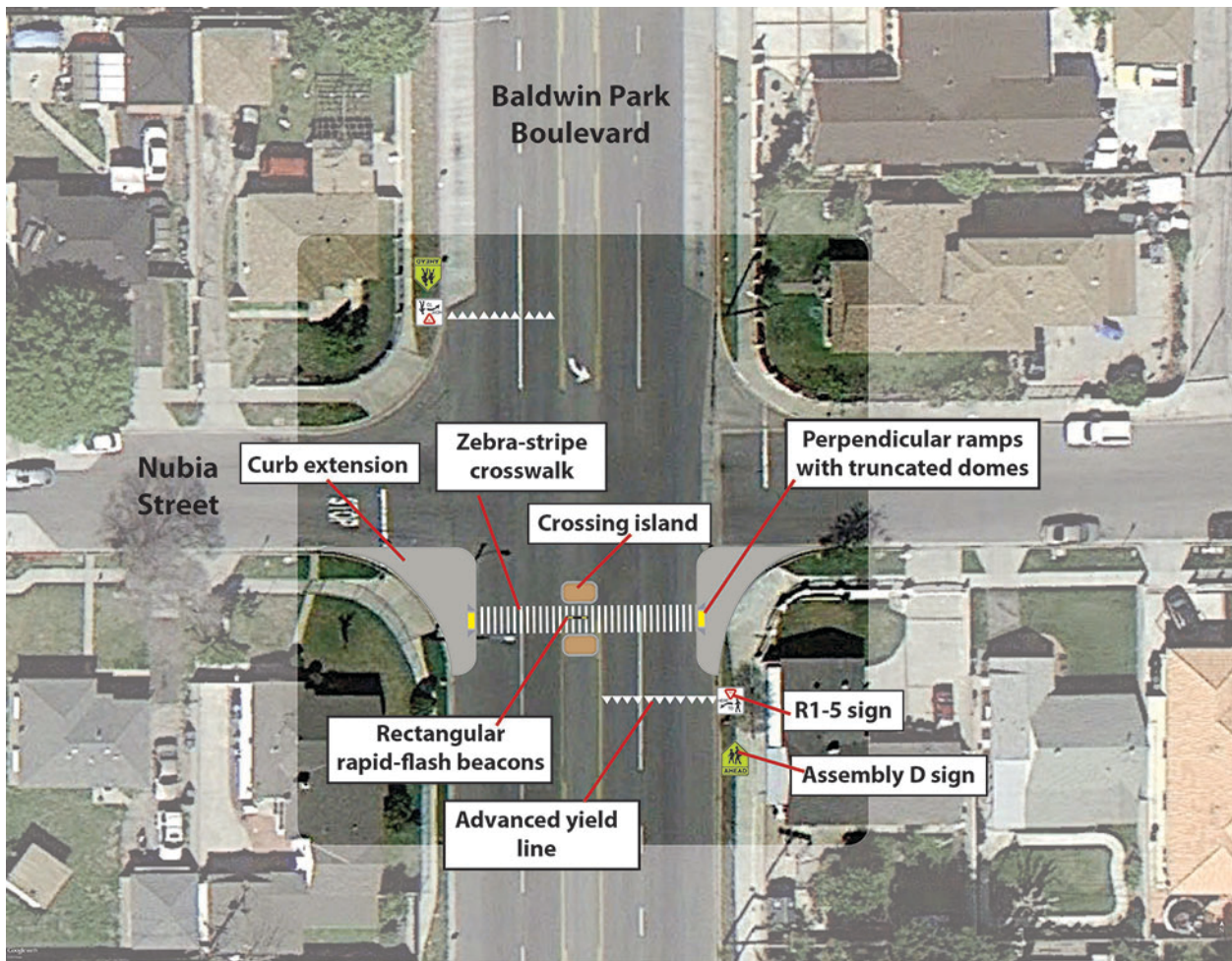
**A6. Baldwin Park Blvd. & Nubia St.**

Existing

- 2-way stop for Nubia St.
- No marked crosswalks

Proposed

- Add a zebra-stripe crosswalk to the south leg (1)
- Add curb extensions to both sides of the south leg crosswalk (2)
- Replace left-turn lanes with crossing islands (1 pair)
- Add advanced yield lines to the south leg crosswalk (2)
- Add R1-5 signs to the Landis Ave. south leg crosswalk (2)
- Add rectangular rapid-flash beacons to the south leg crosswalk (1 set)
- Add Assembly D signs to the south leg crosswalk (2)



**Improvements at Maine Ave. & School Ave. and at Maine Ave. & Nubia Ave. will be made as part of the Maine Ave. project.**

### **Linear Improvements**

#### School Street

- Widen sidewalk on the south side from Maine Ave. to Landis Ave. or add curb extensions for poles and signs (approximately 760')
- Widen the sidewalk on the north side from Maine Ave. to Wimmer Ave. or add curb extensions for poles and signs (approximately 460')
- Pave the parkway along the north side from Wimmer Ave. to Landis Ave. (approximately 280')
- Conduct an engineering study to add 15 mph Assembly C signs (2)
- Add speed cushions from Maine Ave. to Landis Ave. (4)

### **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 Margaret Heath Elementary School viewed modules on these topics and generated the following list of ideas they thought they would like to participate in.

#### Education

- Traffic, pedestrian and bicycle safety classes for parents and students
- You Tube video by students and parents

#### Encouragement

- Regular walking days
- Competitions and prizes
- Bike parade/train

#### Enforcement

- Illegal parking, speeding, etc., to be reported
- Creative ways to ticket illegal parking and driving
- Parent volunteers to enforce and educate