

ACTIVE TRANSPORTATION PROGRAM

RADAR SPEED FEEDBACK SIGNS AND FLASHING BEACONS

SANTA CRUZ COUNTY CYCLE 1 APPLICATION

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I. GENERAL INFORMATION

Project name: RADAR SPEED FEEDBACK SIGNS AND FLASHING BEACONS

(fill out all of the fields below)

1. APPLICANT (Agency name, address and zip code) SANTA CRUZ COUNTY 701 OCEAN ST, ROOM 410, SANTA CRUZ, CA 95060	2. PROJECT FUNDING ATP funds Requested \$ <u>829,000.00</u> Matching Funds \$ <u>0.00</u> (If Applicable) Other Project funds \$ _____ TOTAL PROJECT COST \$ <u>829,000.00</u>
3. APPLICANT CONTACT (Name, title, e-mail, phone #) GREG MARTIN, CIVIL ENGINEER GREG.MARTIN@Santacruzcounty.us 831-454-2160	5. PROJECT COUNTY(IES): <p style="text-align: center;">SANTA CRUZ</p>
4. APPLICANT CONTACT (Address & zip code) SANTA CRUZ COUNTY, 701 OCEAN ST, ROOM 410, SANTA CRUZ, CA 95060	7. Application # <u>1</u> of <u>1</u> (in order of agency priority)
6. CALTRANS DISTRICT #- Click Drop down menu below District 5	

Area Description:

8. Large Metropolitan Planning Organization (MPO)- Select your "MPO" or "Other" from the drop down menu>	Other
9. If "Other" was selected for #8- select your MPO or RTPA from the drop down menu>	AMBAG
10. Urbanized Area (UZA) population (pop.)- Select your UZA pop. from drop down menu>	Small Urban (Pop =or<200,000 but > than 5,000)

Master Agreements (MAs):

11. Yes, the applicant has a FEDERAL MA with Caltrans. 05-5936R
12. Yes, the applicant has a STATE MA with Caltrans. 00510
13. If the applicant does not have an MA. Do you meet the Master Agreement requirements? Yes No
 The Applicant MUST be able to enter into MAs with Caltrans

Partner Information:

14. Partner Name*:	15. Partner Type
16. Contact Information (Name, phone # & e-mail)	17. Contact Address & zip code

Click here if the project has more than one partner; attach the remaining partner information on a separate page

*If another entity agrees to assume responsibility for the ongoing operations and maintenance of the facility, documentation of the agreement must be submitted with the application, and a copy of the Memorandum of Understanding or Interagency Agreement between the parties must be submitted with the request for allocation.

Project Type: (Select only one)

18. Infrastructure (IF) 19. Non-Infrastructure (NI) 20. Combined (IF & NI)

Project name: RADAR SPEED FEEDBACK SIGNS AND FLASHING BEACONS

I. GENERAL INFORMATION-continued

Sub-Project Type (Select all that apply)

21. Develop a Plan in a Disadvantaged Community (select the type(s) of plan(s) to be developed)
 Bicycle Plan Safe Routes to School Plan Pedestrian Plan
 Active Transportation Plan

(If applying for an Active Transportation Plan- check any of the following plans that your agency already has):

- Bike plan Pedestrian plan Safe Routes to School plan ATP plan

22. Bicycle and/or Pedestrian infrastructure
Bicycle only: Class I Class II Class III
Ped/Other: Sidewalk Crossing Improvement Multi-use facility

Other: RADAR SPEED FEEDBACK SIGNS AND FLASHING CROSSWALK BEACONS

23. Non-Infrastructure (Non SRTS)

24. Recreational Trails*- Trail Acquisition

***Please see additional Recreational Trails instructions before proceeding**

25. Safe routes to school- Infrastructure Non-Infrastructure

If SRTS is selected, provide the following information

26. SCHOOL NAME & ADDRESS: see attached
27. SCHOOL DISTRICT NAME & ADDRESS: see attached

28. County-District-School Code (CDS) see attached	29. Total Student Enrollment	30. Percentage of students eligible for free or reduced meal programs **
31. Percentage of students that currently walk or bike to school	32. Approximate # of students living along school route proposed for improvement	33. Project distance from primary or middle school

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

- Click here if the project involves more than one school; attach the remaining school information including school official signature and person to contact, if different, on a separate page

II. PROJECT INFORMATION

(Please read the "ATP instructions" document prior to attaching your responses to all of the questions in Sections II. Project Information, Section III. Screening Criteria and Section IV. Narrative Questions - 20 pages max)

1. Project Location

Index CODE	School Name	ADDRESS	CITY	STATE	ZIP
1	Alianza Charter	115 Casserly Road	Watsonville	CA	95076
2	Amesti Elementary	25 Amesti Road	Watsonville	CA	95076
3	Aptos High School	100 Mariner Way	Aptos	CA	95003
4	Aptos Junior High	1001 Huntington Dr.	Aptos	CA	95003
5	Bonny Doon Elementary	1492 Pine Flat Rd.	Santa Cruz	CA	95060
6	Bradley Elementary	321 Corralitos Rd.	Watsonville	CA	95076
7	Brook Knoll Elementary	151 Brook Knoll Dr.	Santa Cruz	CA	95060
8	Calabasas Elementary	202 Calabasas Rd.	Watsonville	CA	95076
9	Del Mar Elementary	1959 Merrill St.	Santa Cruz	CA	95062
10	Delta Charter	6500 Soquel Dr.	Aptos	CA	95003
11	Green Acres Elementary	966 Bostwick Ln.	Santa Cruz	CA	95062
12	Happy Valley Elementary	3125 Branciforte Dr.	Santa Cruz	CA	95065
13	Harbor High	300 La Fonda Ave.	Santa Cruz	CA	95062
14	Lakeview Middle	2350 E Lake Ave.	Watsonville	CA	95076
15	Live Oak Elementary	1916 Capitola Rd.	Santa Cruz	CA	95065
16	Main Street Elementary	3400 N Main St.	Soquel	CA	95073
17	Mar Vista Elementary	6860 Soquel Dr.	Aptos	CA	95003
18	Shoreline Middle	855 17th Ave.	Santa Cruz	CA	95062
19	Soquel Elementary	2700 Porter St.	Soquel	CA	95073
20	Soquel High	401 Old San Jose Rd.	Soquel	CA	95073
21	Tierra Pacifica Charter	986 Bostwick Ln.	Santa Cruz	CA	95062
22	Valencia Elementary	250 Aptos School Rd.	Aptos	CA	95003

2. **Project Coordinates**

Latitude
(Decimal degrees)

Longitude
(Decimal degrees)

School Name	Longitude	Latitude
1. Alianza Charter	36.959906	-121.7327
2. Amesti Elementary	36.946153	-121.768792
3. Aptos High School	36.977512	-121.862197
4. Aptos Junior High	36.977684	-121.882045
5. Bonny Doon Elementary	37.061684	-122.148635
6. Bradley Elementary	36.976347	-121.807845
7. Brook Knoll Elementary	37.017717	-122.02991
8. Calabasas Elementary	36.944781	-121.792781
9. Del Mar Elementary	36.966078	-121.984828
10. Delta Charter	36.987711	-121.927021
11. Green Acres Elementary	36.984352	-121.986716
12. Happy Valley Elementary	37.024878	-121.991265
13. Live Oak Elementary	36.975404	-121.981909
14. Lakeview Middle	36.938556	-121.741433
15. Main Street Elementary	36.993179	-121.952384
16. Mar Vista Elementary	36.985432	-121.919425
17. Pacific Coast Charter	36.939551	-121.768727
18. Shoreline Middle	36.967878	-121.985214
19. Soquel Elementary	36.986494	-121.956739
20. Soquel High	36.992236	-121.959722
21. Tierra Pacifica Charter	36.983615	-121.985621
22. Valencia Elementary	36.976878	-121.893697

3. Project Description

The purpose of the project is to improve the safety adjacent to 22 schools in Santa Cruz County. There is a need to improve drivers' awareness of their speed and the presence of pedestrians and bicyclists in the vicinity of schools. We regularly receive complaints from the community regarding speeding vehicles and close calls near schools throughout Santa Cruz County. These schools and County roads have been selected on the basis of historical information, a benefit/cost analysis, and our knowledge of the County road system. The project consists of the installation of 39 radar speed feedback signs, 7 rectangular rapid flashing beacons, and one overhead flashing beacon on various County roads adjacent to twenty-two different schools.

The majority of the roads targeted for speed reduction are posted over 25 mph and the emphasis is on motorists awareness that the school zone is 25 mph. The radar speed feedback signs are the most efficient and effective means of conveying that message. In addition, the rectangular rapid flashing beacons are the most effective means of alerting motorists of pedestrians waiting to cross these higher speed arterial and collector streets.

Each school and related improvements are listed on the next page.

- 1 Alianza Charter - Install one radar speed feedback sign on EB Whiting Rd. Install one radar speed feedback sign on NB Casserly Rd.
- 2 Amesti Elementary - Install one radar speed feedback sign EB on Amesti Rd.
- 3 Aptos High - Install two radar speed feedback signs on Freedom Blvd.
- 4 Aptos Junior High - Install on rectangular rapid flashing beacon system on Soquel Drive at Huntington Drive.
- 5 Bonny Doon Union Elem - Install two radar speed feedback signs on Pine Flat Rd. Install one rectangular rapid flashing beacon system on Pine Flat Rd.
- 6 Bradley Elementary - Install two radar speed feedback signs on Corralitos Rd.
- 7 Brook Knoll Elementary School - Install two radar speed feedback signs on Graham Hill Road.
- 8 Calabasas Elementary - Install one radar speed feedback sign EB on Calabasas Road.
- 9 Del Mar Elementary – Install two radar speed feedback signs on 17th Ave. Install one rectangular rapid flashing beacon system on Portola Drive at Corcoran.
- 10 Delta Charter High School - Install one radar speed feedback sign on Cabrillo College Drive.
- 11 Green Acres Elem - Install two radar speed feedback signs on Paul Minnie. Install one rectangular rapid flashing beacon system on 7th Ave at Bostwick Lane.
- 12 Happy Valley Elem - Install two radar speed feedback signs on Branciforte Drive.
- 13 Harbor High – Install two radar speed feedback signs on Soquel Ave.
- 14 Lakeview Middle – Install one radar speed feedback sign EB on Holohan Road. Install one radar speed feedback sign WB on College Road.
- 15 Live Oak Elementary - Install two radar speed feedback signs on 17th Ave. Install two radar speed feedback signs on Capitola Road.
- 16 Main St School - Install two radar speed feedback signs on N Main St. Install one rectangular rapid flashing beacon system on N Main St.

- 17 Mar Vista Elementary - Install two radar speed feedback signs on Soquel Drive. Install one rectangular rapid flashing beacon system plus overhead flashing beacon on Soquel Drive at Heather Terrace.
- 18 Shoreline Middle - Install two radar speed feedback signs on 17th Ave.
- 19 Soquel Elementary School - Install two radar speed feedback signs on Porter St.
- 20 Soquel High School - Install one radar speed feedback sign on Old San Jose Rd. Install one radar speed feedback sign on Porter St.
- 21 Tierra Pacifica Charter - Install one rectangular rapid flashing beacon system on Capitola Rd at Jose Ave.
- 22 Valencia Elementary - Install one radar speed feedback sign on EB Trout Gulch. Install one radar speed feedback sign on WB Valencia.

4. **Project Status**

Preliminary engineering is complete. PS&E has not been completed. CEQA/NEPA has not been completed.

III. SCREENING CRITERIA

1. Demonstrated Needs of the Applicant

Describe the need for the project and/or funding

There is a need to improve drivers' awareness of their speed and the presence of pedestrians and bicyclists in the vicinity of schools. We regularly receive complaints from the community regarding speeding vehicles and close calls near schools throughout Santa Cruz County. These schools and County roads have been selected on the basis of historical information acquired from public feedback, a benefit/cost analysis, and our knowledge of the County road system.

2. Consistency with Regional Transportation Plan (100 words or less)

Explain how this project is consistent with your Regional Transportation Plan (if applicable). Include adoption date of the plan.

The 2010 RTP, June 2010:

Goal 2.4.4 Emphasize pedestrian and bicycle safety and direct access in urban area collector, arterial and intersection improvements.

Fifteen schools are directly adjacent to arterials or collectors where improvements are proposed.

Goal 3.7.2 Encourage safe routes to schools by providing improved bicycle and pedestrian facilities, improved transit service, traffic-calming measures, and bicycle rider training programs for students.

Radar feedback signs are a traffic calming measure.

Goal 3.7.3 Ensure that senior, youth, medical, low-income and other transit dependent oriented facilities are served by bicycle, pedestrian and transit services/facilities.

The youth are served by the proposed improvements.

IV. NARRATIVE QUESTIONS

1. **POTENTIAL FOR INCREASED WALKING AND BICYCLING, ESPECIALLY AMONG STUDENTS, INCLUDING THE IDENTIFICATION OF WALKING AND BICYCLING ROUTES TO AND FROM SCHOOLS, TRANSIT FACILITIES, COMMUNITY CENTERS, EMPLOYMENT CENTERS, AND OTHER DESTINATIONS; AND INCLUDING INCREASING AND IMPROVING CONNECTIVITY AND MOBILITY OF NON-MOTORIZED USERS. (0-30 POINTS)**

- A. Describe how your project encourages increased walking and bicycling, especially among students.

Improvements such as radar speed feedback signs and rectangular rapid flashing beacons encourage increased walking and bicycling, especially among students by increasing safety for pedestrians and bicyclists. These signs have been shown to be effective in reducing overall collisions by thirty percent according to researchers at the Safe Transportation Research and Education Center (SafeTREC) at the University of California, Berkeley. This reduction should correlate with increased use by pedestrians and bicyclists. The majority of the roads targeted for speed reduction are posted over 25 mph and the emphasis is on motorists awareness that the school zone is 25 mph. The radar speed feedback signs are the most efficient and effective means of conveying that message. In addition, the rectangular rapid flashing beacons are the most effective means of alerting motorists of pedestrians waiting to cross these higher speed arterial and collector streets.

- B. Describe the number and type of possible users and their destinations, and the anticipated percentage increase in users upon completion of your project. Data collection methods should be described.

The schools served by these improvements have over 11,000 students collectively. It is estimated that there are at least an additional 50,000 people living in the vicinity that will benefit from these improvements. The County anticipates a five percent increase in users upon completion of the project. The anticipated increase in users will be quantified indirectly by surveying each school as to the benefits received. The County relies upon feedback from the schools to identify projects and to evaluate their effectiveness.

- C. Describe how this project improves walking and bicycling routes to and from, connects to, or is part of a school or school facility, transit facility, community center, employment center, state or national trail system, points of interest, and/or park.

All of these improvements are directly adjacent or are located at strategic locations in close proximity to the school and on established safe routes to school. As these improvements are for safety for pedestrian and bicyclists they directly improve walking and bicycle routes to and from schools.

- D. Describe how this project increases and/or improves connectivity, removes a barrier to mobility and/or closes a gap in a non-motorized facility.

Any improvements to safety on established routes to school reduces barriers to accessing the schools, especially when school children have to cross major roads on the way to/from school.

- Projects with significant potential- 21 to 30 points
- Projects with moderate potential- 11 to 20 points
- Projects with minimal potential- 1 to 10 points
- Projects with no potential- 0 points

IV. NARRATIVE QUESTIONS- continued

2. POTENTIAL FOR REDUCING THE NUMBER AND/OR RATE OF PEDESTRIAN AND BICYCLIST FATALITIES AND INJURIES, INCLUDING THE IDENTIFICATION OF SAFETY HAZARDS FOR PEDESTRIANS AND BICYCLISTS. (0-25 POINTS)

A. Describe the potential of the project to reduce pedestrian and/or bicycle injuries or fatalities.

Improvements such as radar speed feedback signs and rectangular rapid flashing beacons encourage increased walking and bicycling, especially among students by increasing safety for pedestrians and bicyclists. It is expected that these measures will increase motorist's awareness of 25 mph school zones and school crosswalks thereby reducing collisions in the area by thirty percent. This reduction should correlate with increased use by pedestrians and bicyclists.

B. Describe if/how your project will achieve any or all of the following:

- **Reduces speed** or volume of motor vehicles
- Improves sight distance and **visibility of crossings** which may be either pedestrian or bicycle
- Improves compliance with local traffic laws
- Eliminates behaviors that lead to collisions
- Addresses inadequate traffic control devices
- Addresses inadequate bicycle facilities, crosswalks or sidewalks

The project consists of radar speed feedback signs which will reduce speeds of motor vehicles, and flashing beacons which will improve visibility of road crossings which serves school children and other pedestrians.

C. Describe the location's history of events and the source(s) of data used (e.g. collision reports, community observation, surveys, audits) if data is not available include a description of safety hazard(s) and photos.

Using our SWITRS based collision database and ArcGIS, we extracted collisions involving pedestrians and bicyclists in the vicinity of and on the road of the proposed locations for the radar speed feedback signs. The results are shown in the attached Collision Worksheet.

- | |
|---|
| <ul style="list-style-type: none">● Projects with significant potential- 16 to 25 points● Projects with moderate potential- 8 to 15 points● Projects with minimal potential- 1 to 7 points● Projects with no potential- 0 points |
|---|

IV. NARRATIVE QUESTIONS- continued

3. PUBLIC PARTICIPATION and PLANNING (0-15 POINTS)

- A. Describe the community based public participation process that culminated in the project proposal or plan, such as noticed meetings/public hearings, consultation with stakeholders, etc.

Each school and surrounding community has been directly engaged in the development of this project and many of the schools have direct ongoing relationships with this department to improve safety for the school children.

On March 20, 2012, at a public meeting, the County Board of Supervisors approved the radar speed feedback sign program for schools as the next priority for Safe Routes to School grant funding.

- B. Describe the local participation process that resulted in the identification and prioritization of the project:

The County continually receives feedback from the community and schools regarding public safety, particularly as it relates to safe routes to school through public meetings, elected officials, and written correspondence. This experience has allowed us to craft a project that is specifically tailored to the priorities of each school and the community each resides in.

- C. Is the project cost over \$1 Million? **No**

If Yes- is the project Prioritized in an adopted city or county bicycle transportation plan, pedestrian plan, safe routes to school plan, active transportation plan, trail plan, circulation element of a general plan, or other publicly approved plan that incorporated elements of an active transportation plan? Y/N

- Projects with substantial participation of community members- 11 to 15 points
- Projects with moderate participation of community members - 6 to 10 points
- Projects with minimal participation of community members- 1 to 5 points
- Projects with no participation of community members- 0 points

IV. NARRATIVE QUESTIONS- continued

4. COST EFFECTIVENESS (0-10 POINTS)

- A. Describe the alternatives that were considered. Discuss the relative costs and benefits of all the alternatives and explain why the nominated one was chosen.

The alternative to the traffic calming measure of a radar speed feedback sign would be to individually evaluate each street for other types of traffic calming measures such as medians, speed bumps, corner bump outs, and mid block bump outs. The only one of these improvements recognized by TIMS Berkeley benefit/cost calculator is raised medians. Raised medians have a Collision Reduction Factor of 25% over 20 years. The vast majority of the roads proposed for improvements are not suited for medians due to the number and location of driveways in the vicinity of the school. In addition, any of these countermeasures would require significant preliminary engineering to obtain reasonable cost estimates.

We do not believe there is an equivalent alternative to a rapid flashing beacon system at a crosswalk. The closest alternative is a soft solution of providing crossing guards at each of the seven crosswalks. Crosswalk guards are only present during short periods of time and the rapid flashing beacons in some cases are intended to supplement the existing crossing guards. Some motorists do not pay heed to crossing guards and in these cases it is hoped that the addition of the flashing beacons will reinforce correct motorist behavior.

- B. Calculate the ratio of the benefits of the project relative to both the total project cost and funds requested
(i.e., $\frac{\text{Benefit}^*}{\text{Total Project Cost}}$ and $\frac{\text{Benefit}^*}{\text{Program Funds Requested}}$).

*Benefits must directly relate to the goals of the Active Transportation Program.

- Applicant considers alternatives and exceptionally justifies the project nominated - 5 points
- Applicant considers alternatives and adequately justifies the project nominated - 3 to 4 points
- Applicant considers alternatives and minimally justifies the project nominated - 1 to 2 points
- Applicant did not consider alternatives or justify the project nominated - 0 points

Using our SWITRS based collision database and ArcGIS, we extracted collisions involving pedestrians and bicyclists in the vicinity of and on the road of the proposed locations for the radar speed feedback signs. The results are shown in the attached Collision Worksheet. The sums of various types of crash severity were then entered into the TIMS benefit/cost analysis tool to get the attached results of a benefit/cost ratio of 1.61. The analysis was for radar speed feedback signs and did not consider any added benefit of flashing beacons. The

two schools with rapid flashing beacons only, Aptos Junior High and Tierra Pacifica Charter, had no pedestrian or bicycle collisions associated with them so the conclusions of the analysis are valid.

- Applicant logically described how project benefits were quantified and has a benefit-cost ratio greater than 1 - 5 points
- Applicant logically described how project benefits were quantified and has benefit-cost ratio less than 1- 3 points
- Applicant did not logically describe how project benefits were quantified - 0 points

IV. NARRATIVE QUESTIONS- continued

5. IMPROVED PUBLIC HEALTH (0-10 points)

- A. Describe how the project will improve public health, i.e. through the targeting of populations who have a high risk factor for obesity, physical inactivity, asthma, or other health issues.

During the 2010-2011 school year, the percentages of children in Santa Cruz County whose BMI fell outside the "Healthy Fitness Zone" were 46%, 42%, and 37% in grades 5, 7, and 9 respectively. These percentages were slightly better than the statewide averages: 48%, 46%, and 41%, respectively. These poor figures show the large opportunity for improvement. Projects which improve safety can result in life altering changes in behavior as children can move from being driven to school daily to walking or bicycling to school daily.

- Applicant exceptionally described how the project will improve public health and addresses high risk populations- 7 to 10 points
- Applicant adequately described how the project will improve public health and addresses high risk populations - 4 to 6 points
- Applicant minimally described how the project will improve public health - 1 to 3 points
- Applicant did not describe how the project will improve public health - 0 points

IV. NARRATIVE QUESTIONS- continued

6. BENEFIT TO DISADVANTAGED COMMUNITIES (0-10 points)

I. Is the project located in a disadvantaged community? **Yes, around Alianza Charter, Live Oak Elementary, Lakeview Middle, Calabasas Elementary, and Amesti Elementary.**

A.

II. Does the project significantly benefit a disadvantaged community? **Yes**

Which criteria does the project meet? (Answer all that apply)

- o Median household income for the community benefited by the project: \$ _____

No communities disadvantaged by zip code.

- o California Communities Environmental Health Screen Tool (CalEnvironScreen) score for the community benefited by the project: _____

No communities in bottom 10%.

- o For projects that benefit public school students, percentage of students eligible for the Free or Reduced Price Meals Programs: _____ %

Alianza Charter 80.21

Live Oak Elementary 83.17

Lakeview Middie 91.51

Calabasas Elementary 94.11

Amesti Elementary 94.23

- a. Should the community benefitting from the project be considered disadvantaged based on criteria not specified in the program guidelines? If so, provide data for all criteria above and a quantitative assessment of why the community should be considered disadvantaged.

B. Describe how the project demonstrates a clear benefit to a disadvantaged community and what percentage of the project funding will benefit that community, for projects using the school based criteria describe specifically the school students and community will benefit.

Approximately twenty-two percent of funding will benefit these schools. Disadvantaged students walk or bicycle more than those not disadvantaged. Therefore, the disadvantaged community will receive a disproportionate benefit from these improvements, not only at this school which meets the definition of a disadvantaged community, but all of the schools which include a disadvantaged component.

- Project clearly and significantly addresses health, safety, and/or infrastructure challenges in the disadvantaged community- 5 points
- Project adequately addresses health, safety, and/or infrastructure challenges in the disadvantaged community - 3 points

- Project minimally addresses health, safety, and/or infrastructure challenges in the disadvantaged community - 1 points

- 80% to 100% of project funding benefits the disadvantaged community- 5 points
- 60% to 79% of project funding benefits the disadvantaged community- 4 points
- 40% to 59% of project funding benefits the disadvantaged community- 3 points
- 20% to 39% of project funding benefits the disadvantaged community- 2 points
- 1% to 19% of project funding benefits the disadvantaged community- 1 points
- 0% of project benefits the disadvantaged community- 0 points

IV. NARRATIVE QUESTIONS- continued

7. USE OF CALIFORNIA CONSERVATION CORPS (CCC) OR A CERTIFIED COMMUNITY CONSERVATION CORPS (0 to -5 points)

The applicant must send the following information to the CCC and CALCC prior to application submittal to Caltrans:

Project Description
Project Map

Detailed Estimate
Preliminary Plan

Project Schedule

The corps agencies can be contacted at:
California Conservation Corps at: www.ccc.ca.gov
Community Conservation Corps at: <http://callocalcorps.org>

A. The applicant has coordinated with the CCC to identify how a state conservation corps can be a partner of the project. **Yes**

a. Name, e-mail, and phone # of the person contacted and the date the information was submitted to them

Virginia Clark
Virginia.clark@ccc.ca.gov
916-341-3147
Emailed info 5/5/14

B. The applicant has coordinated with a representative from the California Association of Local Conservation Corps (CALCC) to identify how a certified community conservation corps can be a partner of the project. **Yes**

Name, e-mail, and phone # of the person contacted and the date the information was submitted to them

Cynthia Vitale
callocalcorps@gmail.com
916/ 558-1516
Emailed info 5/5/14

C. The applicant intends to utilize the CCC or a certified community conservation corps on all items where participation is indicated? **No**

I have coordinated with a representative of the CCC; and the following are project items that they are qualified to partner on: **CCC chose not to partner. Email attached.**

I have coordinated with a representative of the CALCC; and the following are project items that they are qualified to partner on: **CALCC chose not to partner. Email attached.**

Points will be deducted if an applicant does not seek corps participation or if an applicant intends not to utilize a corps in a project in which the corps can participate*.

- The applicant intends to partner with a conservation corps to the maximum extent possible- 0 points
- The applicant did not seek partnership with a conservation corps, or indicated that they do not intend to partner with the corps to the maximum extent possible- (-)5 points

**If the applicant has indicated intended use of the CCC or CALCC in the approved application, a copy of the agreement between the implementing agency and the CCC or CALCC must be provided by the implementing agency, and will be incorporated as part of the original application, prior to request for authorization of funds for construction.*

IV. NARRATIVE QUESTIONS- continued

8. APPLICANT'S PERFORMANCE ON PAST GRANTS (0 to -10 points)

A. Describe any of your agency's ATP type grant failures during the past 5 years, and what changes your agency will take in order to deliver this project.

The County of Santa Cruz Department of Public Works has not had any ATP type grant failures during the past 5 years.

- The applicant has no past grant experience or has performed satisfactorily on past grants - 0 points
- The applicant has not performed satisfactorily on past grants and/or has not adequately described how they will deliver this project (-)10 points

PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised July 2013)

General Instructions

<input checked="" type="checkbox"/> New Project					Date:	5/20/14
District	EA	Project ID	PPNO	MPO ID	TCRP No.	
05						
County	Route/Corridor	PM Bk	PM Ahd	Project Sponsor/Lead Agency		
SCR	County Roads			County of Santa Cruz, Department of Public works		
				MPO	Element	
				AMBAG	Capital Outlay	
Project Manager/Contact		Phone		E-mail Address		
Greg Martin		831-454-2160		greg.martin@santacruzcounty.us		
Project Title						
RADAR SPEED FEEDBACK SIGNS AND FLASHING BEACONS						
Location, Project Limits, Description, Scope of Work						<input type="checkbox"/> See page 2
The project consists of the installation of 39 radar speed feedback signs, 7 rectangular rapid flashing beacons, and one overhead flashing beacon on various County roads adjacent to twenty two different schools.						
<input type="checkbox"/> Includes ADA Improvements			<input checked="" type="checkbox"/> Includes Bike/Ped Improvements			
Component	Implementing Agency					
PA&ED	County of Santa Cruz, Department of Public Works					
PS&E	County of Santa Cruz, Department of Public Works					
Right of Way	County of Santa Cruz, Department of Public Works					
Construction	County of Santa Cruz, Department of Public Works					
Purpose and Need						<input type="checkbox"/> See page 2
The purpose of the project is to calm traffic in the vicinity of schools and provide increased awareness of pedestrians in crosswalks. A benefit/cost analysis of just pedestrians and bicyclists has shown a b/c ratio of 1.28 providing justification of the project on that basis alone. The actual value to the community will be far higher, as motorists will benefit as well from the reduced speeds.						
Project Benefits						<input type="checkbox"/> See page 2
It is expected that the project will benefit pedestrians and bicyclists in the vicinity of the improvements by reducing speed of motorists and improving awareness of pedestrians at crosswalks.						
<input type="checkbox"/> Supports Sustainable Communities Strategy (SCS) Goals			<input type="checkbox"/> Reduces Greenhouse Gas Emissions			
Project Milestone						Proposed
Project Study Report Approved						n/a
Begin Environmental (PA&ED) Phase						02/01/15
Circulate Draft Environmental Document				Document Type	CE/CE	04/01/15
Draft Project Report						n/a
End Environmental Phase (PA&ED Milestone)						02/01/15
Begin Design (PS&E) Phase						04/01/15
End Design Phase (Ready to List for Advertisement Milestone)						04/01/15
Begin Right of Way Phase						04/01/15
End Right of Way Phase (Right of Way Certification Milestone)						04/30/15
Begin Construction Phase (Contract Award Milestone)						07/01/15
End Construction Phase (Construction Contract Acceptance Milestone)						09/01/15
Begin Closeout Phase						10/01/15
End Closeout Phase (Closeout Report)						12/01/15

ADA Notice

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

RADAR SPEED FEEDBACK SIGNS AND FLASHING BEACONS

Project name: RADAR SPEED FEEDBACK SIGNS AND FLASHING BEACONS

VI. ADDITIONAL INFORMATION

Only fill in those fields that are applicable to your project

FUNDING SUMMARY

ATP Funds being requested by Phase (to the nearest \$1000)

Amount

PE Phase (includes PA&ED and PS&E)	\$	72,000
Right-of-Way Phase	\$	0
Construction Phase-Infrastructure	\$	757,000
Construction Phase-Non-infrastructure	\$	
Total for ALL Phases	\$	829,000

All Non-ATP fund types on this project* (to the nearest \$1000)

Amount

	\$	
	\$	
	\$	
	\$	
	\$	
	\$	

*Must indicate which funds are matching

Total Project Cost	\$	829,000
Project is Fully Funded	Yes	

ATP Work Specific Funding Breakdown (to the nearest \$1000)

Amount

Request for funding a Plan	\$	0
Request for Safe Routes to Schools Infrastructure work	\$	829,000
Request for Safe Routes to Schools Non-Infrastructure work	\$	0
Request for other Non-Infrastructure work (non-SRTS)	\$	0
Request for Recreational Trails work	\$	0

ALLOCATION/AUTHORIZATION REQUESTS SCHEDULE

	Proposed Allocation Date	Proposed Authorization (E-76) Date
PA&ED or E&P	01/01/2015	02/01/2015
PS&E	01/01/2015	02/01/2015
Right-of-Way		
Construction	06/01/2015	07/01/2015

All project costs MUST be accounted for on this form, including elements of the overall project that will be, or have been funded by other sources.

Project name: **RADAR SPEED FEEDBACK SIGNS AND FLASHING BEACONS**

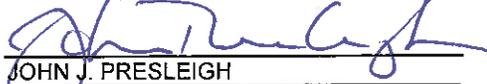
VIII. APPLICATION SIGNATURES

Applicant: The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: GREG MARTIN 
Name: GREG MARTIN
Title: CIVIL ENGINEER

Date: 5/23/14
Phone: 831-454-2160
e-mail: GREG.MARTIN@CO.SANTA-CRUZ.CA.US

Local Agency Official (City Engineer or Public Works Director): The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: 
Name: JOHN J. PRESLEIGH
Title: DIRECTOR OF PUBLIC WORKS

Date: 5/19/2014
Phone: 831-454-2160
e-mail: dpwwweb@santacruzcounty.us

School Official: The undersigned affirms that the school(s) benefited by this application is not on a school closure list.

Signature: _____
Name: see attached
Title: _____

Date: _____
Phone: _____
e-mail: _____

Person to contact for questions:

Name: _____
Title: _____

Phone: _____
e-mail: _____

Caltrans District Traffic Operations Office Approval*

If the application's project proposes improvements on a freeway or state highway that affects the safety or operations of the facility, it is required that the proposed improvements be reviewed by the district traffic operations office and either a letter of support or acknowledgement from the traffic operations office be attached () or the signature of the traffic personnel be secured below.

Signature: _____
Name: not applicable
Title: _____

Date: _____
Phone: _____
e-mail: _____

*Contact the District Local Assistance Engineer (DLAE) for the project to get Caltrans Traffic Ops contact information. DLAE contact information can be found at <http://www.dot.ca.gov/hq/LocalPrograms/dlae.htm>

School Signature Summary

School District	Application Index No.	Radar Speed Feedback Sign	Rapid Flashing Beacon
Alianza Charter	1	2	
Bonny Doon Elementary	5	2	1
Delta Charter	10	1	
Happy Valley Elementary	12	2	
Live Oak Elementary			
Del Mar Elementary	9	2	1
Green Acres Elementary	11	2	1
Live Oak Elementary	15	4	
Shoreline Middle	18	2	
Pajaro Valley Unified			
Arnesti Elementary	2	1	
Aptos High School	3	2	
Aptos Junior High	4		1
Bradley Elementary	6	2	
Calabasas Elementary	8	1	
Mar Vista Elementary	17	2	1 + Overhead Flashing Beacon
Valencia Elementary	22	2	
Lakeview Middle	14	2	
Santa Cruz City High			
Harbor High	13	2	
Soquel High	20	2	
Scotts Valley Unified (Brook Knoll Elementary School)	7	2	
Soquel Union			
Main Street Elementary	16	2	1
Soquel Elementary	19	2	
Tierra Pacific Charter	21		1
Note school affirmation includes "Letter of Support"		39	7

**Allanza Charter
Pajaro Valley Unified School District
115 Casserly Rd, Watsonville, CA 95076**

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature:  Date: 5/15/14
 Name: Michael B. Jones Phone: (831) 728-6333
 Title: Principal e-mail: michael_jones@PVUSD.NET

Person to contact for questions:

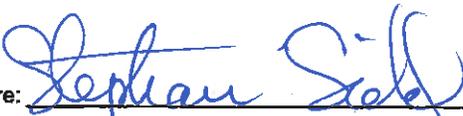
Name: Phone: Michael Jones 728-6333
 Title: e-mail: Principal MICHAEL-JONES@PVUSD.NET

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Allanza Charter	Pajaro Valley Unified	115 Casserly Road	2	1 for EB Whiting, 1 for NB Casserly		

Bonny Doon Union Elementary School District
1492 Pine Flat Rd, Santa Cruz, CA 95060

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature:  Date: 5/13/14
 Name: Stephanie Siddens Phone: 881-427-2300
 Title: Superintendent/Principal e-mail: ssiddens@santacruz.k12.ca.us

Person to contact for questions:

Name: Stephanie Siddens Phone: 427-2300
 Title: e-mail: Superintendent/Principal - ssiddens@santacruz.k12.ca.us

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback: Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Bonny Doon Elementary	Bonny Doon Union Elementary	1492 Pine Flat Rd	2	2 for Pine Flat Rd	1	Pine Flat Rd.

**Delta Charter
 Santa Cruz City High School District
 405 Old San Jose Road, Soquel, CA 95073**

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature: Mary Gawkel Forster Date: 5-14-14
 Name: Mary Gawkel Forster Phone: 831-477-5212
 Title: Principal e-mail: mgawkel@deltaschool.org

Person to contact for questions:

Name: Mary Gawkel Forster Phone: 831-477-5212
 Title: Principal e-mail: mgawkel@deltaschool.org

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Delta Charter	Santa Cruz City High	6500 Soquel Dr	1	1 for Cabrillo College Dr		

**Happy Valley Elementary School District
3125 Branciforte Dr, Santa Cruz, CA 95065**

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature: Michelle McKinny Date: 5/14/24

Name: Michelle McKinny Phone: 831.429.1456

Title: Superintendent/Principal e-mail: mmckinny@santacruz.k12.ca.us

Person to contact for questions:

Name: Phone: Pargi Lynd . 831.429.1456

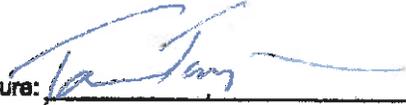
Title: e-mail: Admin Asst plynd@santacruz.k12.ca.us

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Happy Valley Elementary	Happy Valley Elementary	3125 Branciforte Dr	2	2 for Branciforte Dr		

**Live Oak Elementary School District
984-1 Bostwick Lane, Santa Cruz, CA 95062**

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature:  Date: 5/6/14
 Name: Tamra Taylor Phone: 831-475-6333 ext 202
 Title: Superintendent e-mail: ttaylor@losd.ca

Person to contact for questions:
 Name: Phone: 831-475-6333 ext. 202
 Title: e-mail: cwatt@losd.ca

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Del Mar Elementary	Live Oak Elementary	1859 Merrill St	2	2 for 17th Ave	1	Portola @ Corcoran
Green Acres Elementary	Live Oak Elementary	868 Bostwick Ln	2	2 for Paul Minnie	1	7th Ave @ Bostwick
Live Oak Elementary	Live Oak Elementary	1918 Capitola Rd	4	2 for 17th Ave, 2 for Capitola Rd		
Shoreline Middle	Live Oak Elementary	865 17th Ave	2	2 for 17th Ave		

Pajaro Valley Unified School District
294 Green Valley Rd, Watsonville, CA 95076

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature:  Date: 5.13.14

Name: RICHARD MULLIKIN Phone: 786.2100 x2555

Title: DIRECTOR OF M/O/F e-mail: RICHARD_MULLIKIN@PVUSD.NET

Person to contact for questions: SAME

Name: Phone: _____

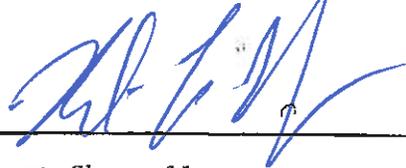
Title: e-mail: _____

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Amesti Elementary	Pajaro Valley Unified	25 Amesti Road	1	1 EB for Amesti		
Aptos High School	Pajaro Valley Unified	100 Mariner Way	2	2 for Freedom Blvd		
Aptos Junior High	Pajaro Valley Unified	1001 Huntington Dr.			1	Huntington Dr.
Bradley Elementary	Pajaro Valley Unified	321 Corralitos Rd	2	2 for Corralitos Rd		
Calabasas Elementary	Pajaro Valley Unified	202 Calabasas Rd.	1	EB on Calabasas Rd		
Mar Vista Elementary	Pajaro Valley Unified	6860 Soquel Dr.	2	2 for Soquel Dr	1	(@ Heather Terrace plus overhead flashing beacon)
Valencia Elementary	Pajaro Valley Unified	250 Aptos School Rd.	2	1 for EB Trout Gulch, 1 for WB Valencia		
Lakeview Middle	Pajaro Valley Unified	2350 E. Lake Ave	2	1 for EB Holohan 1 for WB College		

Santa Cruz City High School District
405 Old San Jose Road, Soquel, CA 95073

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature:  Date: 5-9-14

Name: Robert Shemwell Phone: (831) 429-3410, ext. 224

Title: Asst. Supt., Business e-mail: rshemwell@sccs.net

Person to contact for questions:

Name: Phone: Robert Shemwell 831-429-3410, ext. 224

Title: e-mail: Asst. Supt., Business rshemwell@sccs.net

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Harbor High	Santa Cruz City High	300 La Fonda Ave	2	2 for Soquel Ave		
Soquel High	Santa Cruz City High	401 Old San Jose Rd	2	1 for Old San Jose Rd 1 for Porter St		



Scotts Valley Unified School District
4444 Scotts Valley Drive, Suite 5B, Scotts Valley, CA 95066

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature: Penny Weaver Date: 5-15-2014
 Name: Penny Weaver Phone: 831-438-1820 ext. 105
 Title: Superintendent e-mail: pweaver@scottsvalleyusd.org

Person to contact for questions:

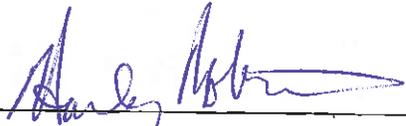
Name: Penny Weaver Phone: 831-438-1820 ex. 105
 Title: e-mail: Superintendent pweaver@scottsvalleyusd.org

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Brook Knoll Elementary	Scotts Valley Unified	151 Brook Knoll Dr	2	2 for Graham Hill Road		

Soquel Union Elementary School District
620 Monterey Avenue, Capitola, California 95010

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature:  Date: 5/15/14

Name: Harley Robertson Phone: 831-464-5632

Title: Asst. Supt. Business Serv. e-mail: hrobertson@suesd.org

Person to contact for questions:

Name: Phone: Pam Crum

Title: e-mail: pwilliams@suesd.org

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Main Street Elementary	Soquel Union Elementary	3400 N Main St	2	2 for N Main St	1	N Main St
Soquel Elementary	Soquel Union Elementary	2700 Porter St	2	2 for Porter St		

**Tierra Pacifica Charter
Live Oak Elementary School District
966 Bostwick Lane, Santa Cruz, CA 95062**

School Affirmation

School Official: The undersigned affirms that the school(s) listed below benefited by this application is/are not on a school closure list and affirms support ("Letter of Support") of the project(s) referenced below.

Signature: Linda Lambdin Date: 5/10/14
 Name: Linda Lambdin Phone: 831-462-9404
 Title: Principal e-mail: Lindalambdin@gmail.com

Person to contact for questions:

Name: Phone: Kitty Hansen, 831-462-9404 x0
 Title: e-mail: Office Manager, Khansen@santa.cruz.k12.ca.us

Active Transportation Program Improvements						
School	District	Street Address	Number of Speed Feedback Signs	Speed Feedback Sign Location	Rectangular Rapid Flashing Beacon	Rectangular Rapid Flashing Beacon Location
Tierra Pacifica Charter	Live Oak Elementary	966 Bostwick Ln			1	Capitola Rd @ Jose Ave

26. School Name & Address

Index	School Name	ADDRESS	CITY	ST	ZIP
1	Alianza Charter	115 Casserly Road	Watsonville	CA	95076
2	Amesti Elementary	25 Amesti Road	Watsonville	CA	95076
3	Aptos High School	100 Mariner Way	Aptos	CA	95003
4	Aptos Junior High	1001 Huntington Dr.	Aptos	CA	95003
5	Bonny Doon Elementary	1492 Pine Flat Rd	Santa Cruz	CA	95060
6	Bradley Elementary	321 Corralitos Rd	Watsonville	CA	95076
7	Brook Knoll Elementary	151 Brook Knoll Dr	Santa Cruz	CA	95060
8	Calabastas Elementary	202 Calabastas Rd.	Watsonville	CA	95076
9	Del Mar Elementary	1959 Merrill St	Santa Cruz	CA	95062
10	Delta Charter	6500 Soquel Dr	Aptos	CA	95003
11	Green Acres Elementary	966 Bostwick Ln	Santa Cruz	CA	95062
12	Happy Valley Elementary	3125 Branciforte Dr	Santa Cruz	CA	95065
13	Harbor High	300 La Fonda Ave	Santa Cruz	CA	95062
14	Lakeview Middle	2350 E Lake Ave,	Watsonville	CA	95076
15	Live Oak Elementary	1916 Capitola Rd	Santa Cruz	CA	95065
16	Main Street Elementary	3400 N Main St	Soquel	CA	95073
17	Mar Vista Elementary	6860 Soquel Dr.	Aptos	CA	95003
18	Shoreline Middle	855 17th Ave	Santa Cruz	CA	95062
19	Soquel Elementary	2700 Porter St	Soquel	CA	95073
20	Soquel High	401 Old San Jose Rd	Soquel	CA	95073
21	Tierra Pacifica Charter	986 Bostwick Ln	Santa Cruz	CA	95062
22	Valencia Elementary	250 Aptos School Rd.	Aptos	CA	95003

27. School District Name & Address

<u>Index</u>	<u>School</u>	<u>School District</u>
1	Alianza Charter	Pajaro Valley Unified
2	Amesti Elementary	Pajaro Valley Unified
3	Aptos High School	Pajaro Valley Unified
4	Aptos Junior High	Pajaro Valley Unified
5	Bonny Doon Elementary	Bonny Doon Union Elementary
6	Bradley Elementary	Pajaro Valley Unified
7	Brook Knoll Elementary	Scotts Valley Unified
8	Calabasas Elementary	Pajaro Valley Unified
9	Del Mar Elementary	Live Oak Elementary
10	Delta Charter	Santa Cruz City High
11	Green Acres Elementary	Live Oak Elementary
12	Happy Valley Elementary	Happy Valley Elementary
13	Harbor High	Santa Cruz City High
14	Lakeview Middle	Pajaro Valley Unified
15	Live Oak Elementary	Live Oak Elementary
16	Main Street Elementary	Soquel Union Elementary
17	Mar Vista Elementary	Pajaro Valley Unified
18	Shoreline Middle	Live Oak Elementary
19	Soquel Elementary	Soquel Union Elementary
20	Soquel High	Santa Cruz City High
21	Tierra Pacifica Charter	Live Oak Elementary
22	Valencia Elementary	Pajaro Valley Unified

Bonny Doon Union Elementary School District
1492 Pine Flat Rd, Santa Cruz, CA 95060

Happy Valley Elementary School District
3125 Branciforte Dr, Santa Cruz, CA 95065

Live Oak Elementary School District
984-1 Bostwick Lane, Santa Cruz, CA 95062

Pajaro Valley Unified School District
294 Green Valley Rd, Watsonville, CA 95076

Santa Cruz City High School District
405 Old San Jose Road, Soquel, CA 95073

Scotts Valley Unified School District
4444 Scotts Valley Drive, Suite 5B, Scotts Valley, CA 95066

Soquel Union Elementary School District
620 Monterey Avenue, Capitola, California 95010

28. County – District -- School Code (CDS)

Index	School	County Code	District Code	School Code
1	Alianza Charter	44	69799	6049829
2	Amesti Elementary	44	69799	6049639
3	Aptos High School	44	69799	4430518
4	Aptos Junior High	44	69799	6049647
5	Bonny Doon Elementary	44	69732	6049563
6	Bradley Elementary	44	69799	6049662
7	Brook Knoll Elementary	44	75432	6049936
8	Calabasas Elementary	44	69799	6049670
9	Del Mar Elementary	44	69765	6114102
10	Delta Charter	44	69823	4430187
11	Green Acres Elementary	44	69765	6049597
12	Happy Valley Elementary	44	69757	6049571
13	Harbor High	44	69823	4432340
14	Lakeview Middle	44	69799	6112841
15	Live Oak Elementary	44	69765	6049605
16	Main Street Elementary	44	69849	6111421
17	Mar Vista Elementary	44	69799	6049738
18	Shoreline Middle	44	69765	6113559
19	Soquel Elementary	44	69849	6049985
20	Soquel High	44	69823	4437406
21	Tierra Pacifica Charter	44	69765	100388
22	Valencia Elementary	44	69799	6049811

29. Total Student Enrollment

<u>Index</u>	<u>School</u>	<u>Enrollment</u>
1	Alianza Charter	652
2	Amesti Elementary	641
3	Aptos High School	1312
4	Aptos Junior High	740
5	Bonny Doon Elementary	132
6	Bradley Elementary	525
7	Brook Knoll Elementary	569
8	Calabasas Elementary	628
9	Del Mar Elementary	414
10	Delta Charter	123
11	Green Acres Elementary	401
12	Happy Valley Elementary	127
13	Harbor High	1046
14	Lakeview Middle	671
15	Live Oak Elementary	398
16	Main Street Elementary	494
17	Mar Vista Elementary	446
18	Shoreline Middle	517
19	Soquel Elementary	423
20	Soquel High	1053
21	Tierra Pacifica Charter	149
22	Valencia Elementary	<u>540</u>
		12,001

30. Percentage of students eligible for free or reduced meal programs.

<u>Index</u>	<u>School</u>	<u>Percent</u>
1	Alianza Charter	80.21
2	Amesti Elementary	94.23
3	Aptos High School	31.06
4	Aptos Junior High	36.49
5	Bonny Doon Elementary	9.85
6	Bradley Elementary	50.19
7	Brook Knoll Elementary	10.02
8	Calabasas Elementary	94.11
9	Del Mar Elementary	71.74
10	Delta Charter	22.76
11	Green Acres Elementary	56.86
12	Happy Valley Elementary	8.66
13	Harbor High	33.75
14	Lakeview Middle	91.51
15	Live Oak Elementary	83.17
16	Main Street Elementary	23.48
17	Mar Vista Elementary	28.25
18	Shoreline Middle	61.9
19	Soquel Elementary	47.75
20	Soquel High	29.82
21	Tierra Pacifica Charter	12.08
22	Valencia Elementary	35.93

31. Percentage of students that current walk or bike to school.

<u>Index</u>	<u>School</u>	<u>Percent</u>
1	Alianza Charter	0%
2	Amesti Elementary	2%
3	Aptos High School	12%
4	Aptos Junior High	17%
5	Bonny Doon Elementary	5%
6	Bradley Elementary	1%
7	Brook Knoll Elementary	1%
8	Calabasas Elementary	60%
9	Del Mar Elementary	11%
10	Delta Charter	80%
11	Green Acres Elementary	10%
12	Happy Valley Elementary	1%
13	Harbor High	70%
14	Lakeview Middle	60%
15	Live Oak Elementary	4%
16	Main Street Elementary	3%
17	Mar Vista Elementary	20%
18	Shoreline Middle	20%
19	Soquel Elementary	50%
20	Soquel High	10%
21	Tierra Pacifica Charter	30%
22	Valencia Elementary	0%

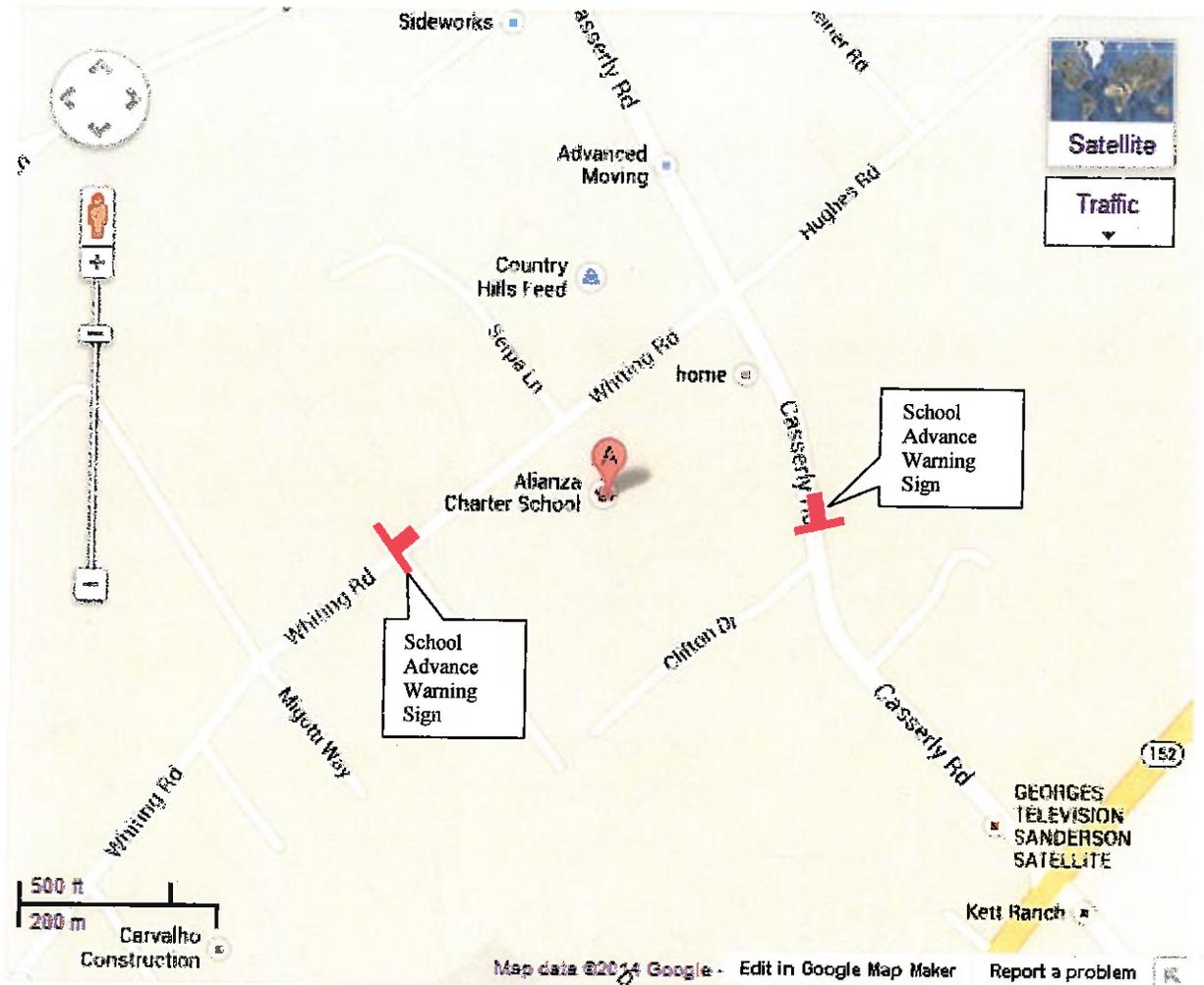
32. Approximate # of students living along school route proposed for improvement.

<u>Index</u>	<u>School</u>	<u>Number</u>
1	Alianza Charter	8
2	Amesti Elementary	7
3	Aptos High School	150
4	Aptos Junior High	200
5	Bonny Doon Elementary	13
6	Bradley Elementary	25
7	Brook Knoll Elementary	10
8	Calabasas Elementary	471
9	Del Mar Elementary	65
10	Delta Charter	98
11	Green Acres Elementary	43
12	Happy Valley Elementary	18
13	Harbor High	836
14	Lakeview Middle	671
15	Live Oak Elementary	398
16	Main Street Elementary	494
17	Mar Vista Elementary	160
18	Shoreline Middle	155
19	Soquel Elementary	423
20	Soquel High	260
21	Tierra Pacifica Charter	75
22	Valencia Elementary	10

33. Project distance from primary or middle school

<u>Index</u>	<u>School</u>	<u>Distance (ft)</u>
1	Alianza Charter	500
2	Amesti Elementary	500
3	Aptos High School	1500
4	Aptos Junior High	1000
5	Bonny Doon Elementary	500
6	Bradley Elementary	600
7	Brook Knoll Elementary	1500
8	Calabasas Elementary	500
9	Del Mar Elementary	500
10	Delta Charter	500
11	Green Acres Elementary	700
12	Happy Valley Elementary	1500
13	Harbor High	900
14	Lakeview Middle	1500
15	Live Oak Elementary	800
16	Main Street Elementary	700
17	Mar Vista Elementary	500
18	Shoreline Middle	800
19	Soquel Elementary	700
20	Soquel High	1200
21	Tierra Pacifica Charter	600
22	Valencia Elementary	1400

1. Alianza Charter



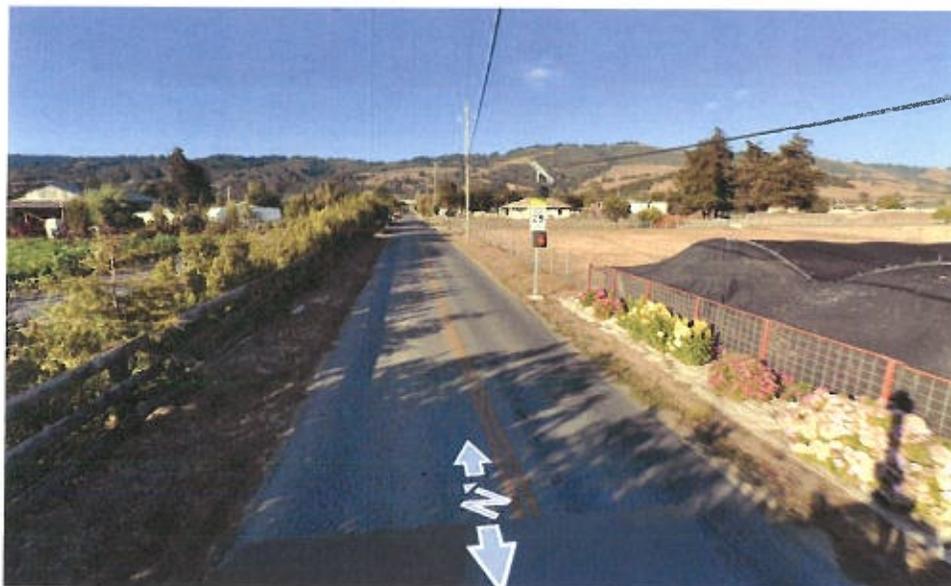
Name of School	Alianza Charter School
Posted Speed Limit	35 MPH
Location of Radar Speed Feedback Signs	Casserly Road/Whiting Road
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

1. Alianza Charter



**CASSERLY ROAD NORTHBOUND
Radar Speed Feedback Sign Location**



**WHITING ROAD EASTBOUND
Radar Speed Feedback Sign Location**

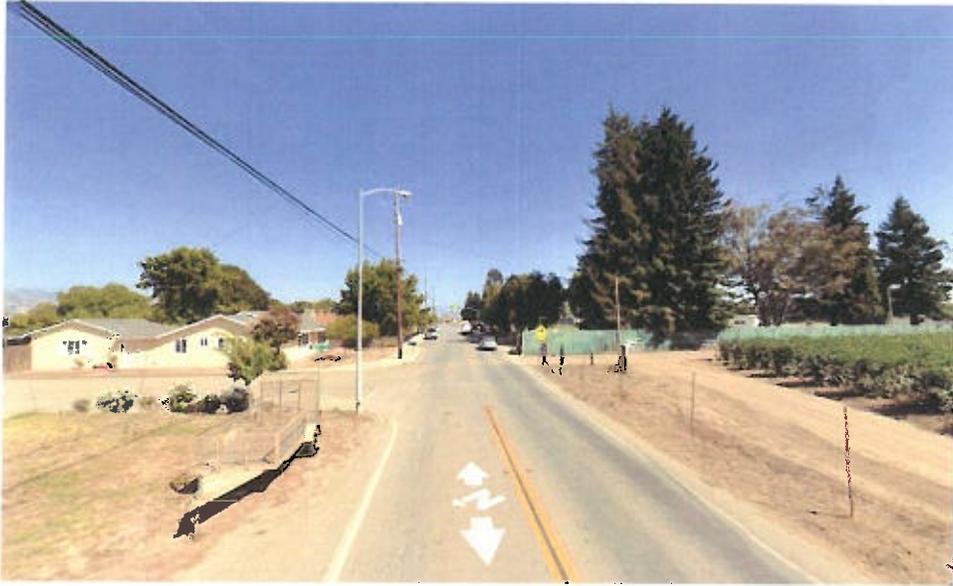
2. Amesti Elementary School



Name of School	Amesti Elementary School
Posted Speed Limit	40 MPH
Location of Radar Speed Feedback Signs	Amesti Road
Radar Speed Feedback Signs	1

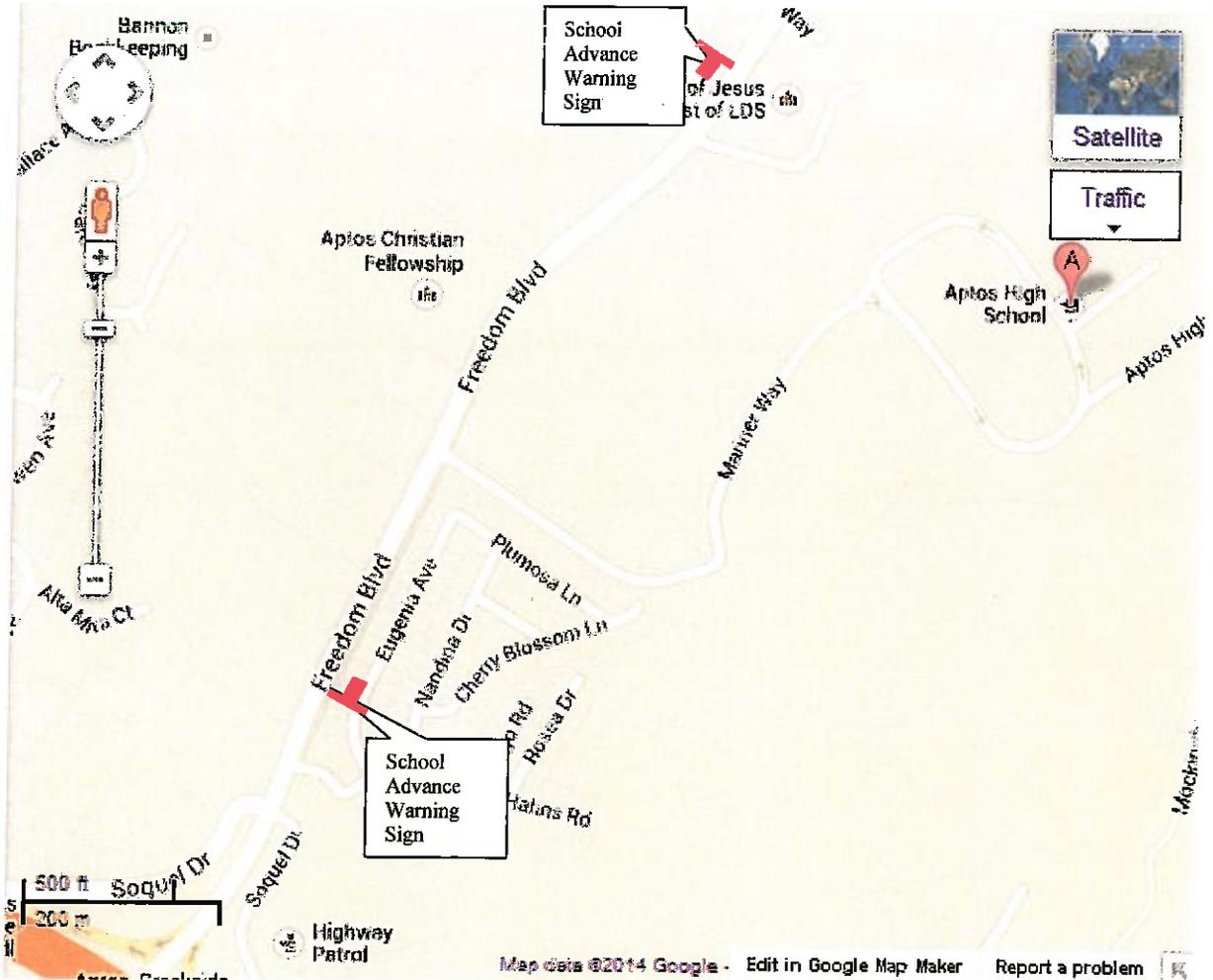
The Radar Speed Feedback Sign shall be placed at the same location of the School Advance Warning Sign shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

2. Amesti Elementary School



**AMESTI ROAD EASTBOUND
Radar Speed Feedback Sign Location**

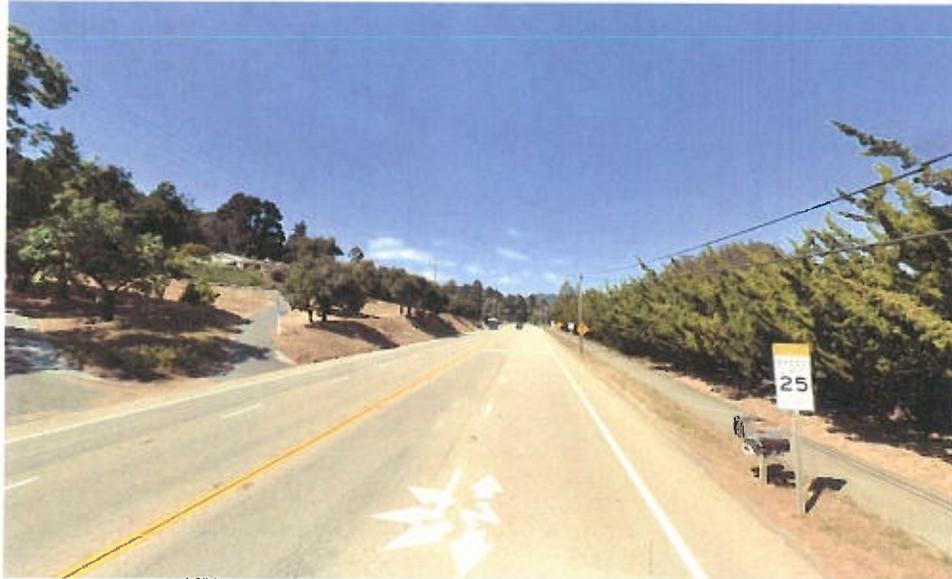
3. Aptos High School



Name of School	Aptos High School
Posted Speed Limit	45 MPH
Location of Radar Speed Feedback Signs	Freedom Boulevard
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

3. Aptos High School

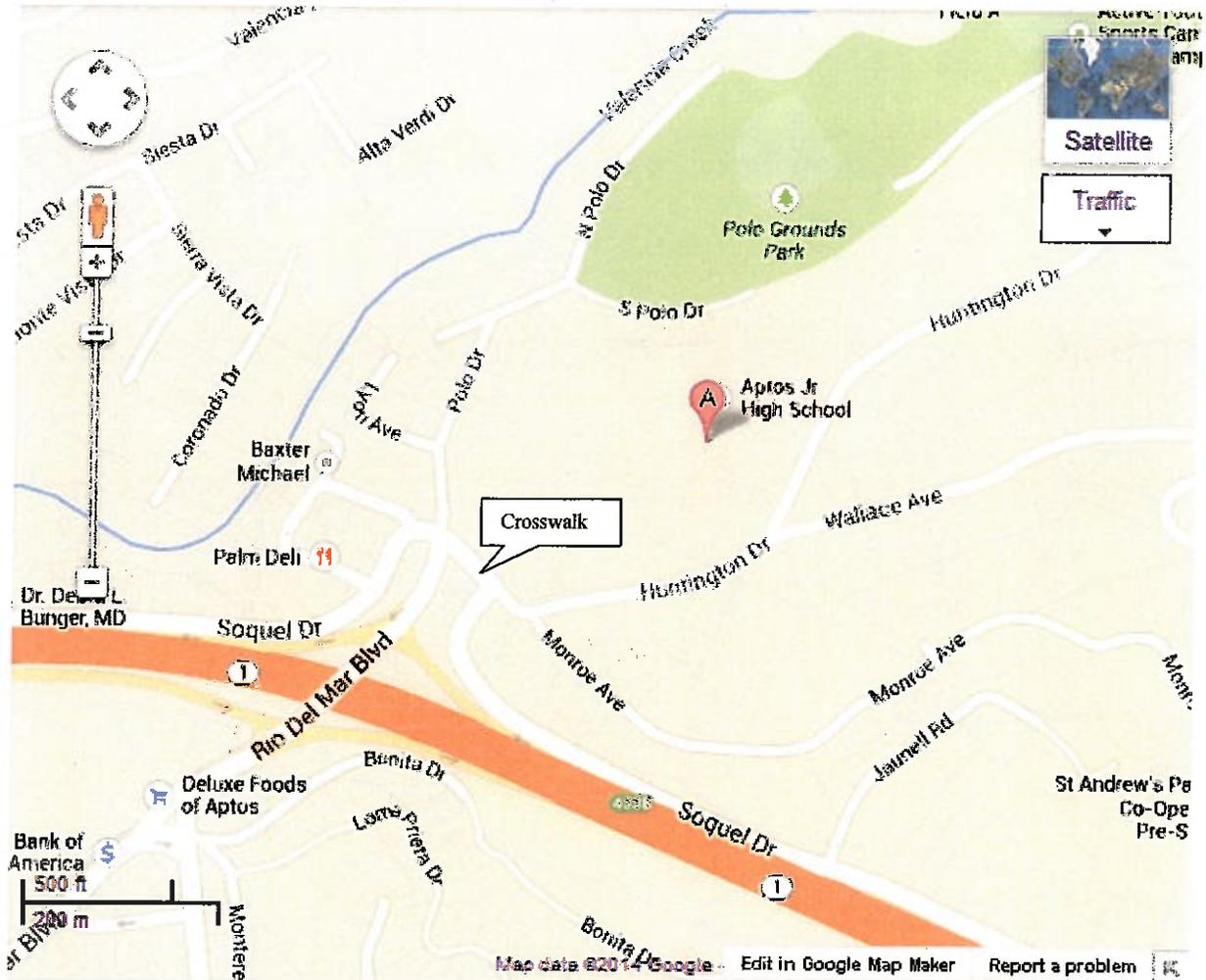


FREEDOM BOULEVARD NORTHBOUND
Radar Speed Feedback Sign Location



FREEDOM BOULEVARD SOUTHBOUND
Radar Speed Feedback Sign Location

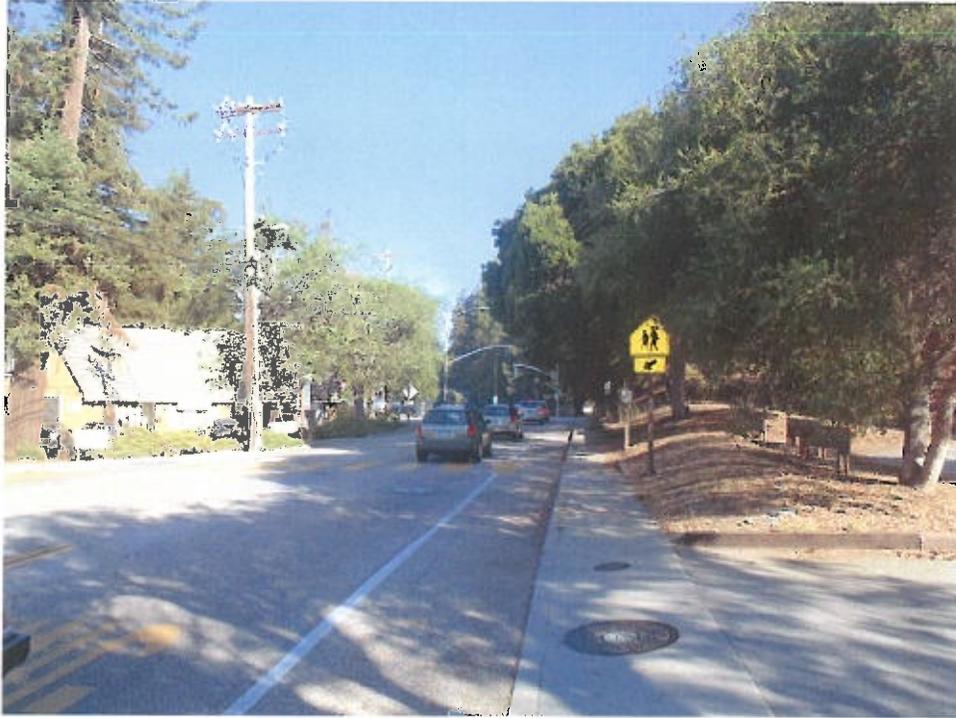
4. Aptos Junior High School



Name of School	Aptos Junior High
Posted Speed Limit	35 MPH
Location of Rapid Flashing Beacon System	Soquel Drive near Huntington Drive
Rapid Flashing Beacon System	1

The Rapid Flashing Beacon system shall be placed at the crosswalk shown on the above map. As part of the beacon system, new Type 1A poles shall be placed on either side of the crosswalk.

4. Aptos Junior High School

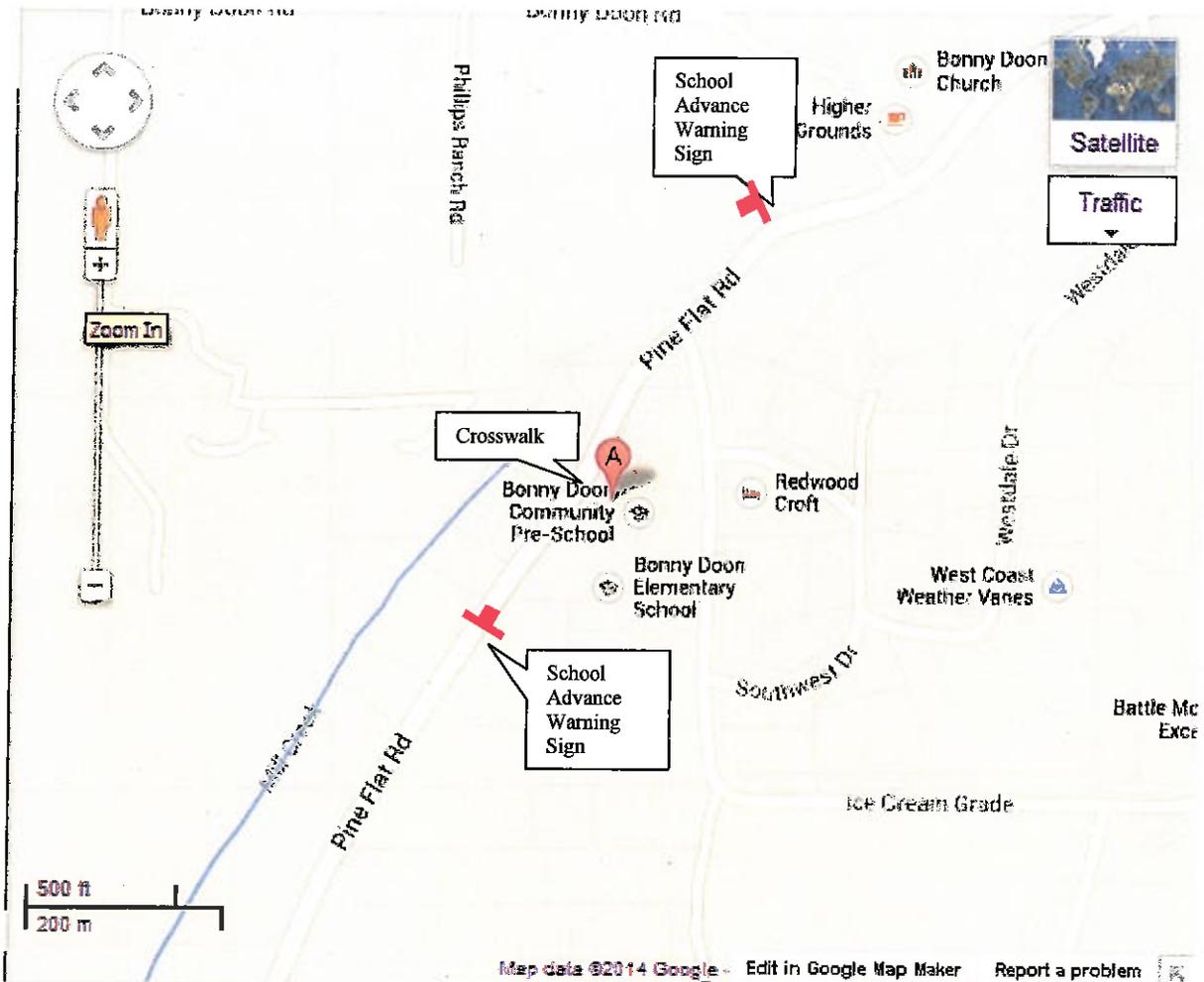


**SOQUEL DRIVE PEDESTRIAN CROSSING @ HUNTINGTON DRIVE WESTBOUND
Rectangular Rapid Flashing Beacon System Location**



**SOQUEL DRIVE PEDESTRIAN CROSSING @ HUNTINGTON DRIVE EASTBOUND
Rectangular Rapid Flashing Beacon System Location
(same location as above, different view)**

5. Bonny Doon Elementary School



Name of School	Bonny Doon Elementary
Posted Speed Limit	None
Location of Radar Speed Feedback Signs	Pine Flat Road
Radar Speed Feedback Signs	2
Location of Rapid Flashing Beacon System	Pine Flat Road
Rapid Flashing Beacon System	1

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole. The Rapid Flashing Beacon system shall be placed at the crosswalk shown on the above map. As part of the beacon system, new Type 1A poles shall be placed on either side of the crosswalk.

5. Bonny Doon Elementary School



PINE FLAT ROAD NORTHBOUND
Radar Speed Feedback Sign Location



PINE FLAT ROAD SOUTHBOUND
Radar Speed Feedback Sign Location

5. Bonny Doon Elementary School



PINE FLAT ROAD PEDESTRIAN CROSSING NORTHBOUND
Rectangular Rapid Flashing Beacon System Location



PINE FLAT ROAD PEDESTRIAN CROSSING SOUTHBOUND
Rectangular Rapid Flashing Beacon System Location
(same location as above, different view)

6. Bradley Elementary School



Name of School	Bradley Elementary
Posted Speed Limit	35 MPH
Location of Radar Speed Feedback Signs	Corralitos Road
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

6. Bradley Elementary School

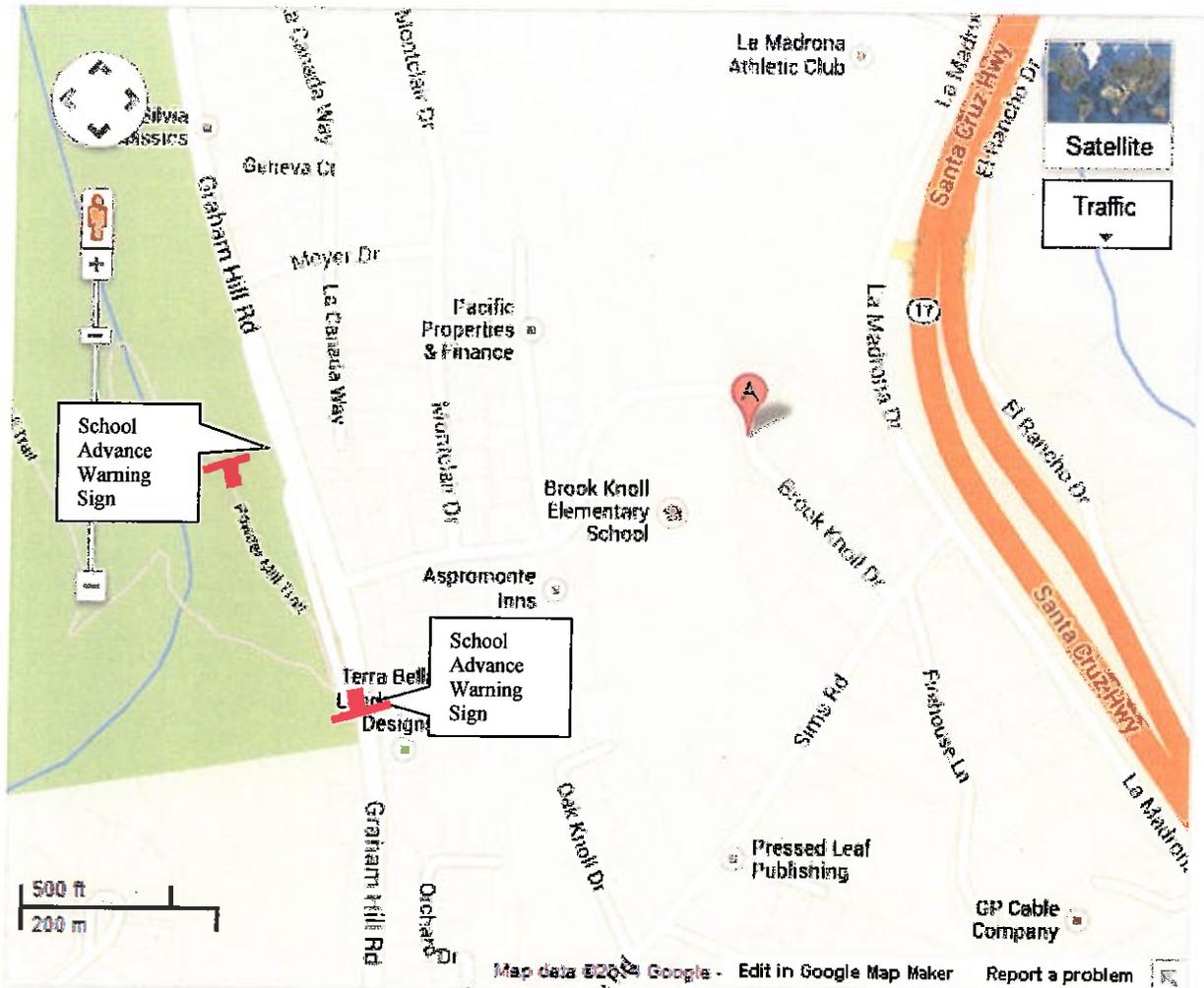


**CORRALITOS ROAD NORTHBOUND
Radar Speed Feedback Sign Location**



**CORRALITOS ROAD SOUTHBOUND
Radar Speed Feedback Sign Location**

7. Brook Knoll Elementary School



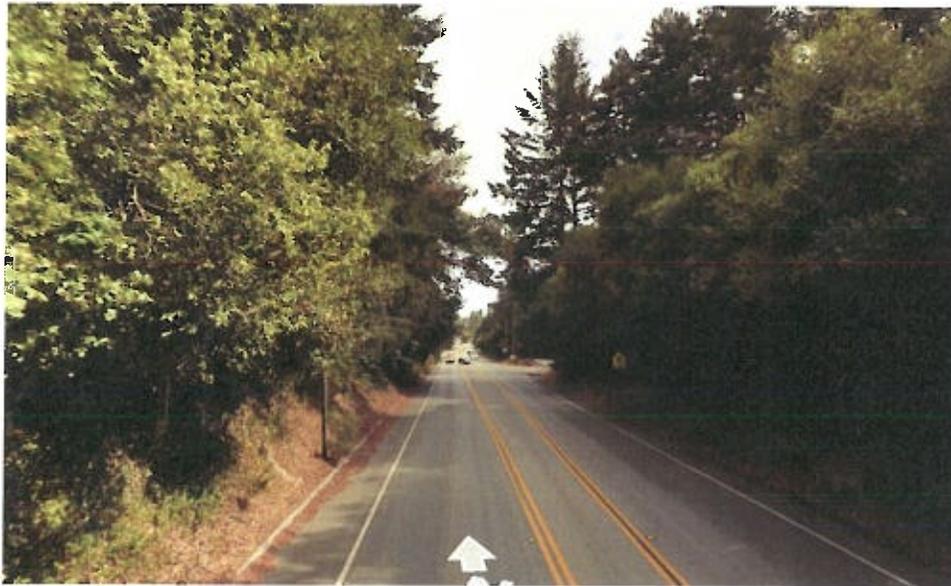
Name of School	Brook Knoll Elem
Posted Speed Limit	45/35 MPH SB/NB
Location of Radar Speed Feedback Signs	Graham Hill Road
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

7. Brook Knoll Elementary School

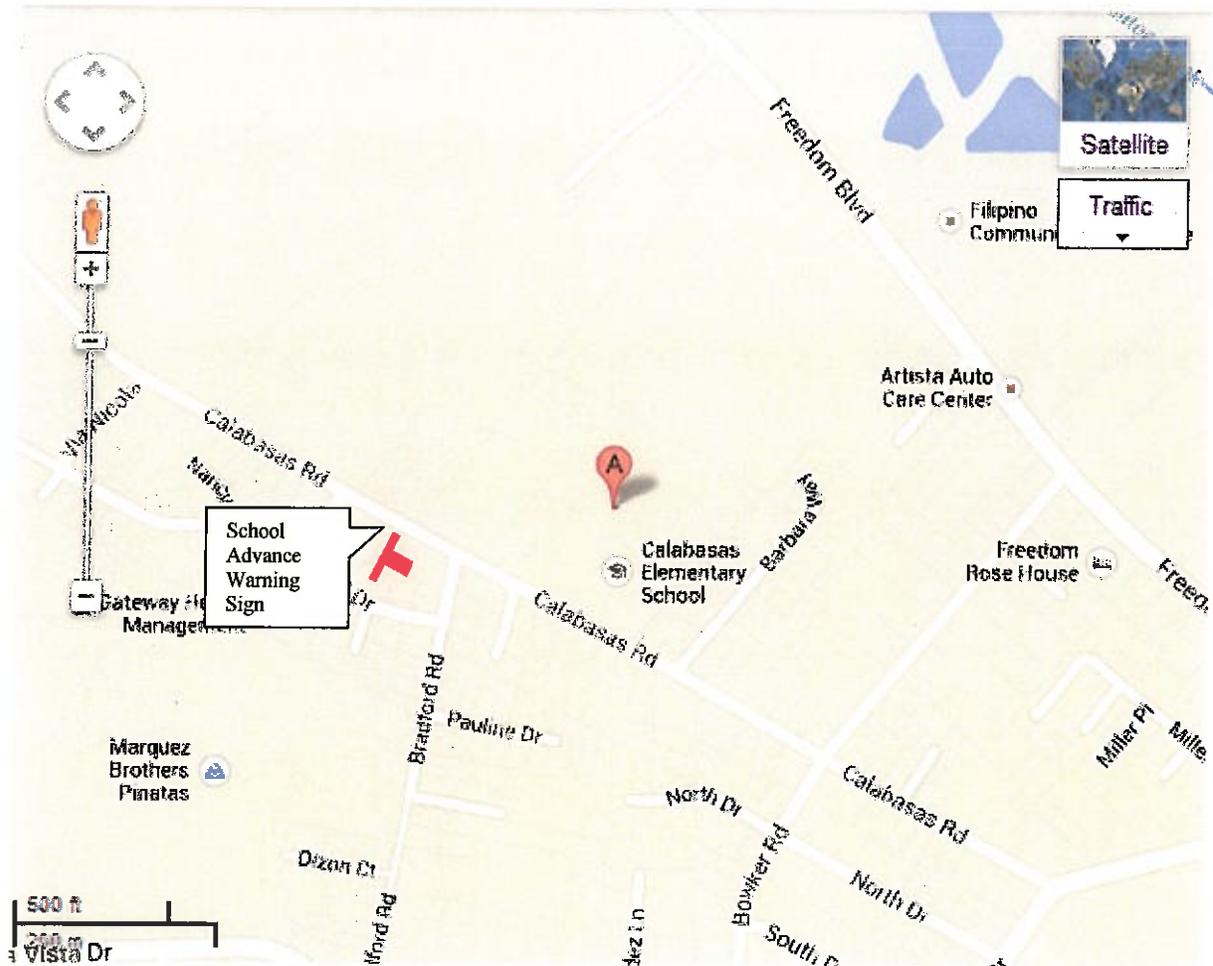


GRAHAM HILL ROAD NORTHBOUND
Radar Speed Feedback Sign Location



GRAHAM HILL ROAD SOUTHBOUND
Radar Speed Feedback Sign Location

8. Calabasas Elementary School



Name of School	Calabasas Elementary
Posted Speed Limit	40 MPH
Location of Radar Speed Feedback Signs	Calabasas Road
Radar Speed Feedback Signs	1

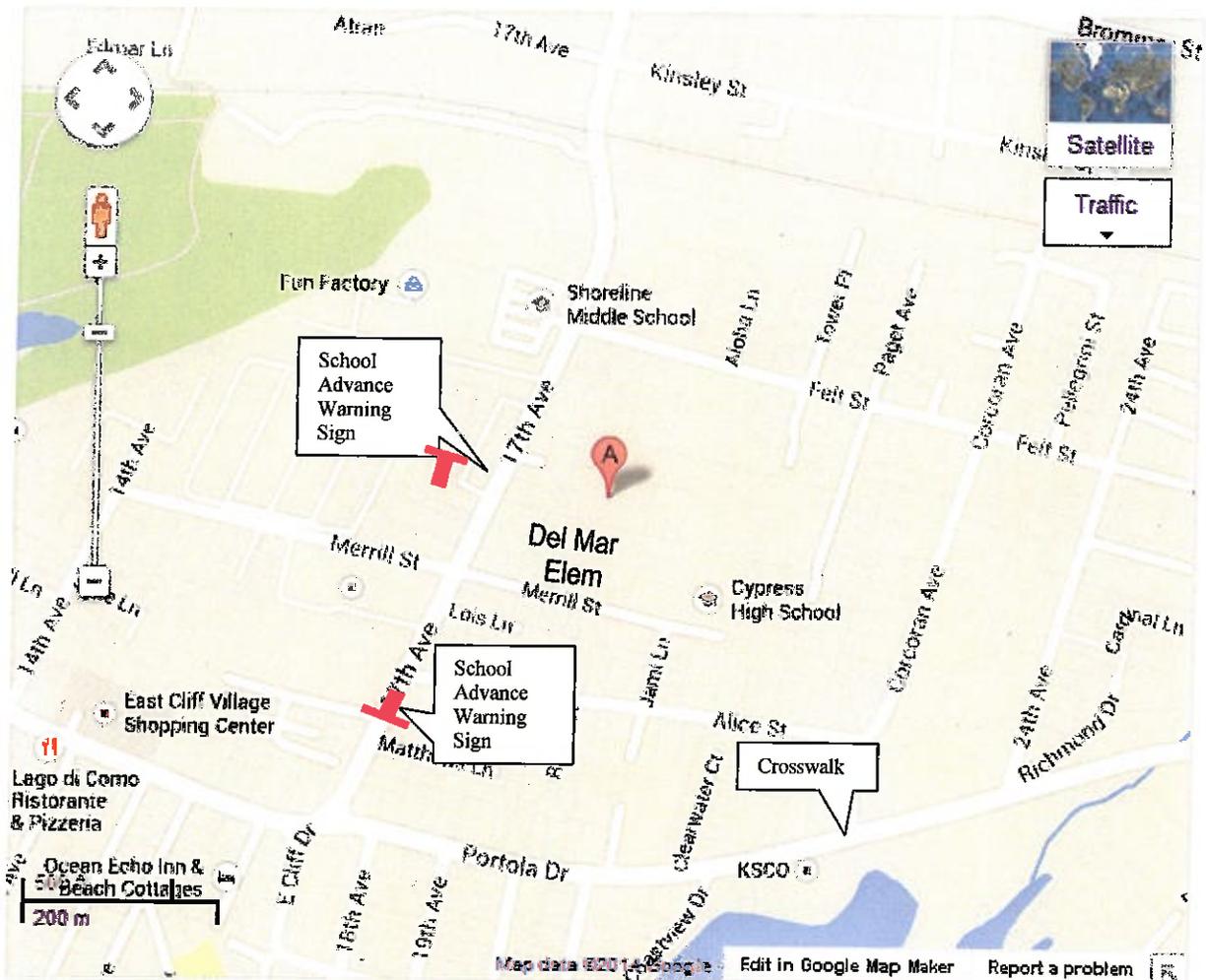
The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

8. Calabasas Elementary School



CALABASAS SOUTHBOUND
Radar Speed Feedback Sign Location

9. Del Mar Elementary School



Name of School	Del Mar Elementary
Posted Speed Limit	30 MPH
Location of Radar Speed Feedback Signs	17 th Avenue
Radar Speed Feedback Signs	2
Location of Rapid Flashing Beacon System	Portola Drive at Corcoran Avenue
Rapid Flashing Beacon System	1

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole. The Rapid Flashing Beacon system shall be placed at the crosswalk shown on the above map. As part of the beacon system, new Type 1A poles shall be placed on either side of the crosswalk.

9. Del Mar Elementary



17TH AVENUE SOUTHBOUND



17TH AVENUE NORTHBOUND
Radar Speed Feedback Sign Location

9. Del Mar Elementary



PORTOLA DRIVE @ CORCORAN AVENUE ROAD PEDESTRIAN CROSSING
EASTBOUND
Rectangular Rapid Flashing Beacon System Location



PORTOLA DRIVE @ CORCORAN AVENUE ROAD PEDESTRIAN CROSSING
WESTBOUND
Rectangular Rapid Flashing Beacon System Location
(same location as above, different view)

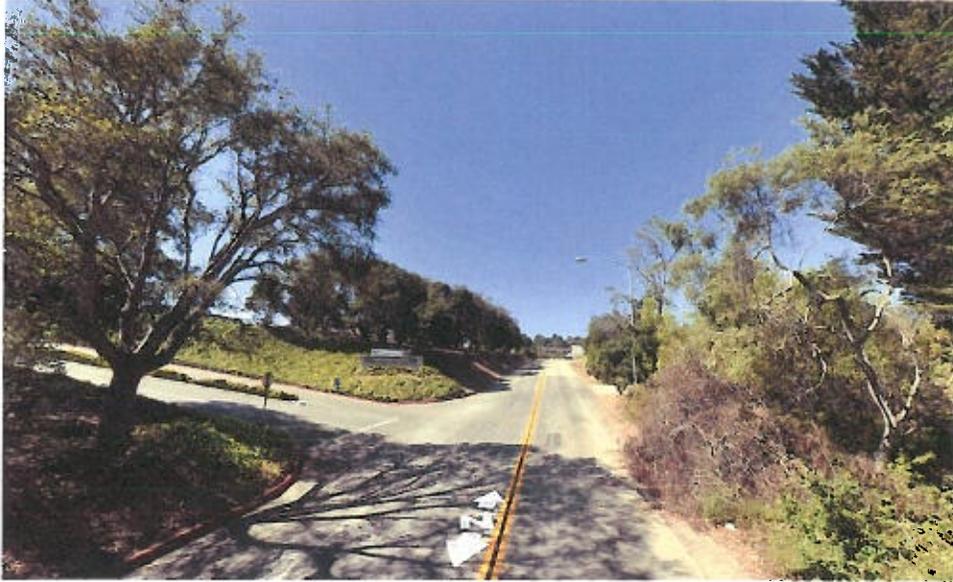
10. Delta Charter



Name of School	Delta Charter High School
Posted Speed Limit	35 MPH
Location of Radar Speed Feedback Signs	Cabrillo College Drive
Radar Speed Feedback Signs	1

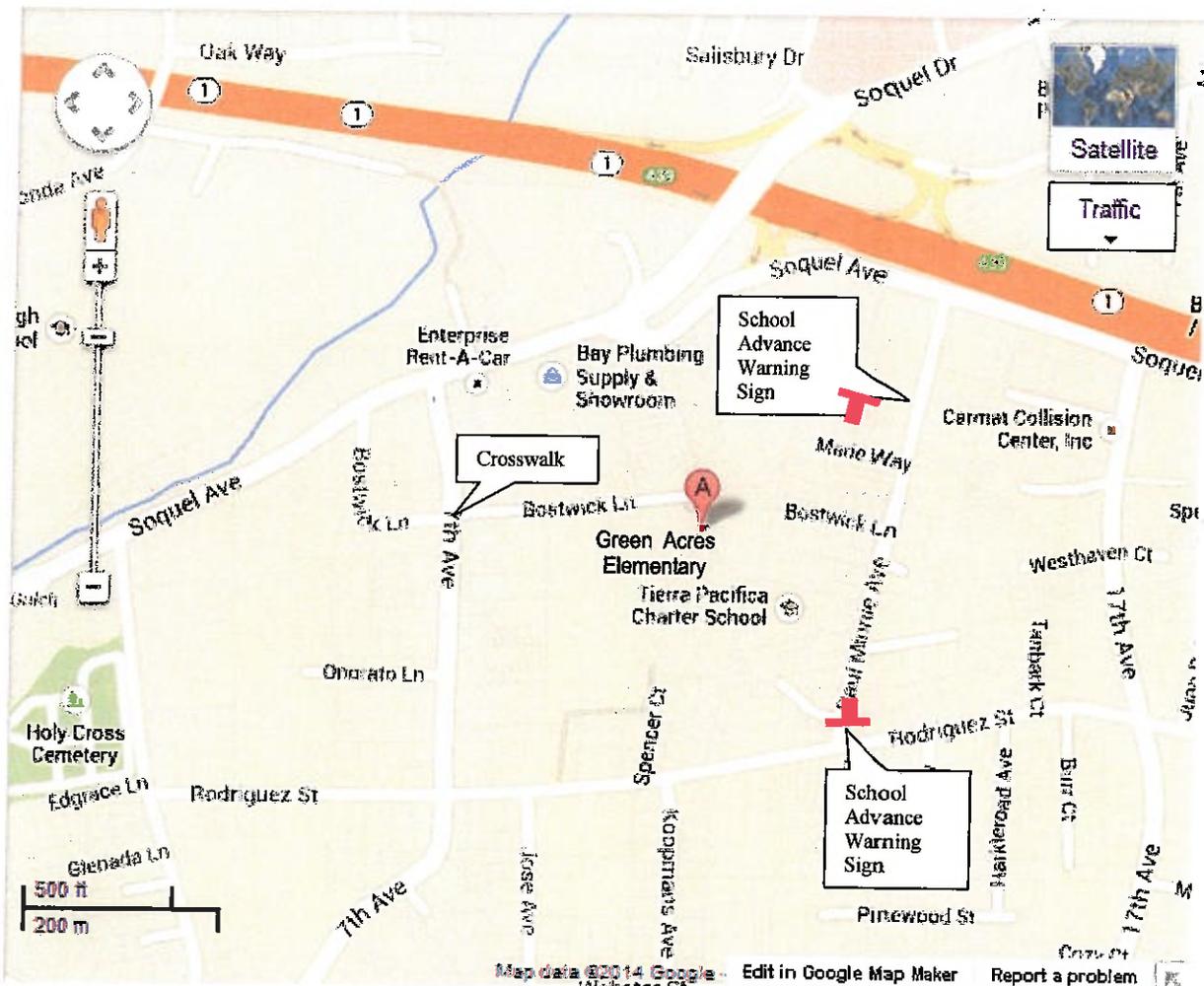
The Radar Speed Feedback Sign shall be placed at the same location of the School Advance Warning Sign shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

10. Delta Charter



CABRILLO COLLEGE DRIVE NORTHBOUND
Radar Speed Feedback Sign Location

11. Green Acres Elementary School



Name of School	Green Acres Elementary
Posted Speed Limit	25 MPH
Location of Radar Speed Feedback Signs	Paul Minnie Ave
Radar Speed Feedback Signs	2
Location of Rapid Flashing Beacon System	7 th Avenue @ Bostwick Lane
Rapid Flashing Beacon System	1

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole. The Rapid Flashing Beacon system shall be placed at the crosswalk shown on the above map. As part of the beacon system, new Type 1A poles shall be placed on either side of the crosswalk.

11. Green Acres Elementary School



PAUL MINNIE NORTHBOUND
Radar Speed Feedback Sign Location



PAUL MINNIE AVENUE SOUTHBOUND
Radar Speed Feedback Sign Location

11. Green Acres Elementary School

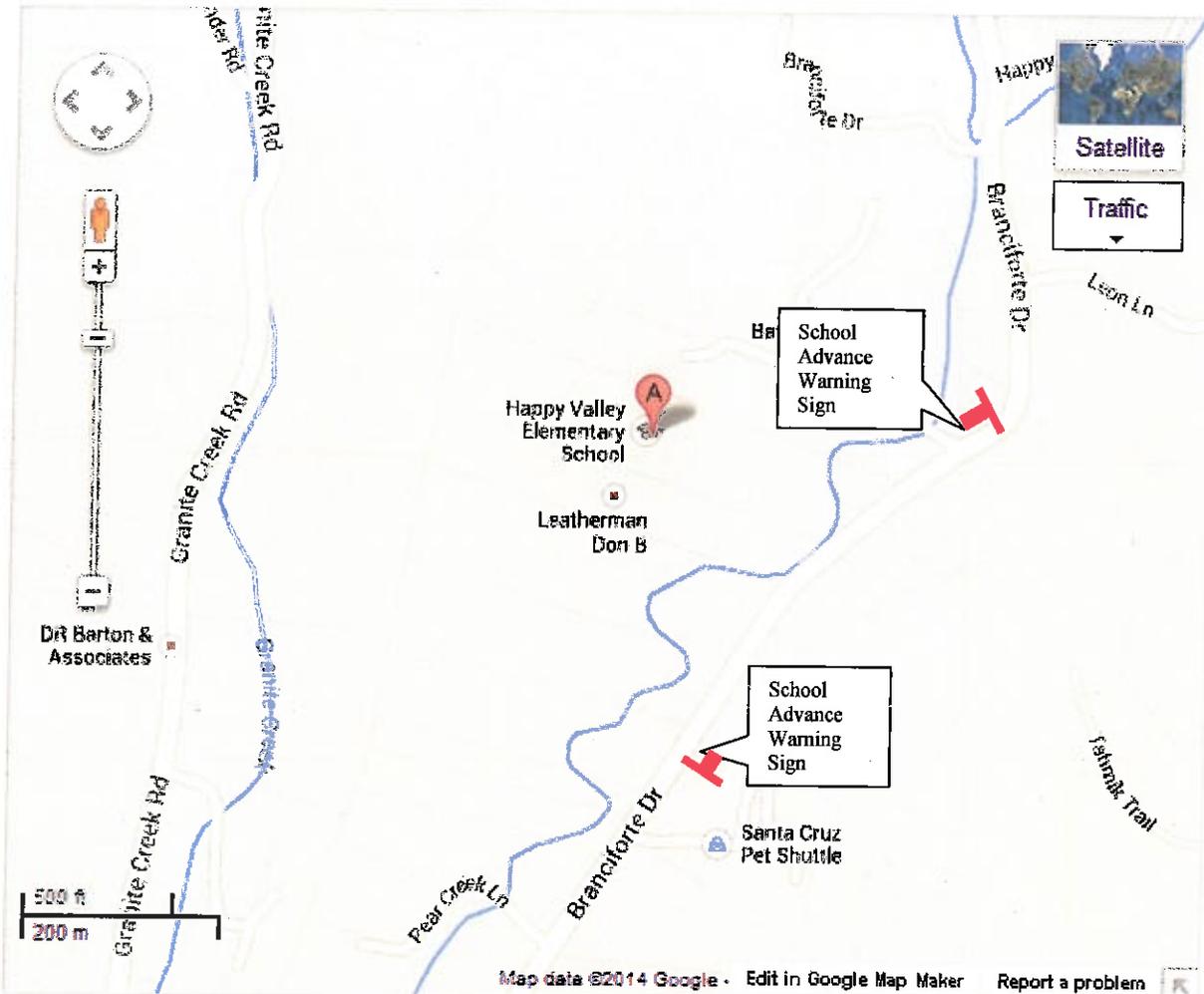


7TH AVENUE PEDESTRIAN CROSSING @ BOSTWICK LANE SOUTHBOUND
Rectangular Rapid Flashing Beacon System Location



7TH AVENUE PEDESTRIAN CROSSING @ BOSTWICK LANE NORTHBOUND
Rectangular Rapid Flashing Beacon System Location
(same location as above, different view)

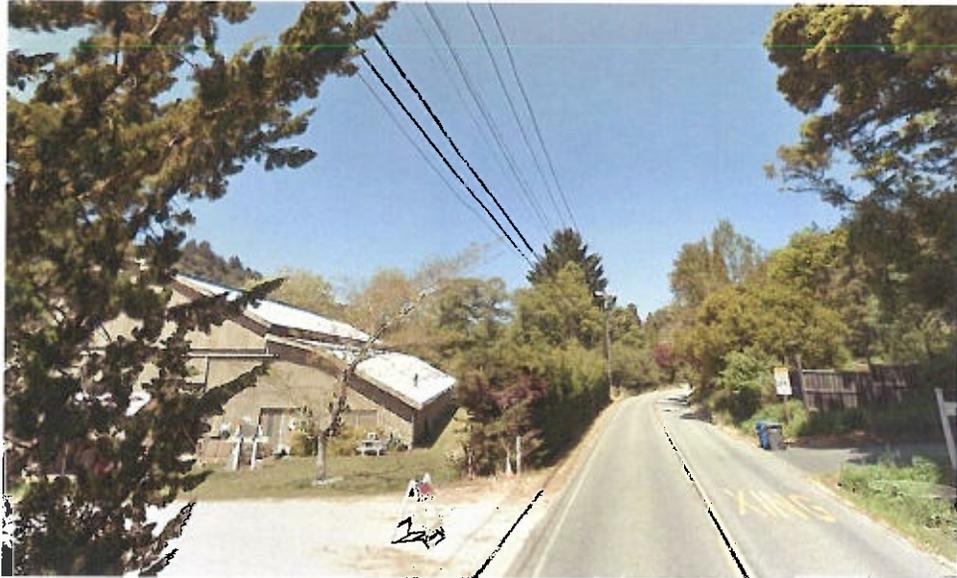
12. Happy Valley Elementary School



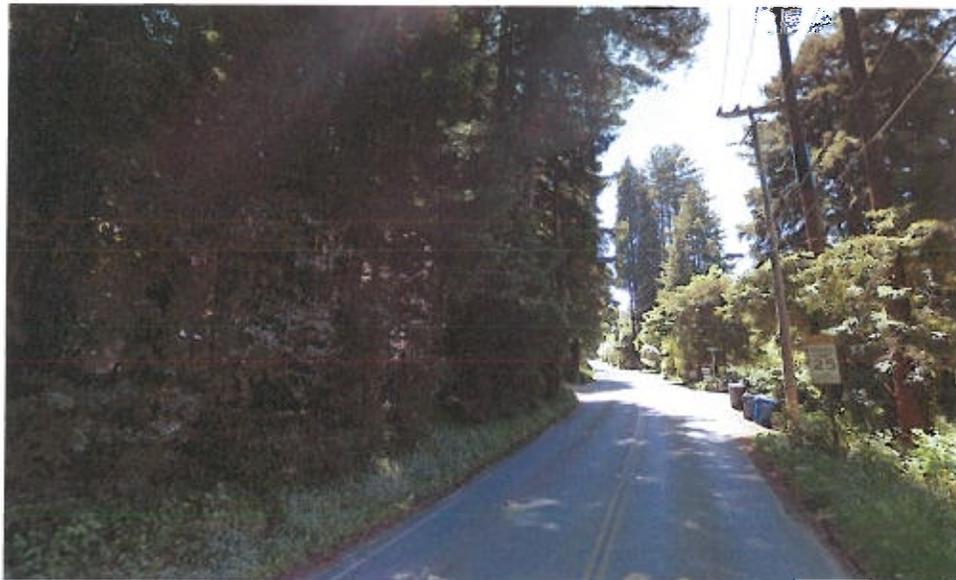
Name of School	Happy Valley Elementary
Posted Speed Limit	35 MPH
Location of Radar Speed Feedback Signs	Branciforte Drive
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

12. Happy Valley Elementary

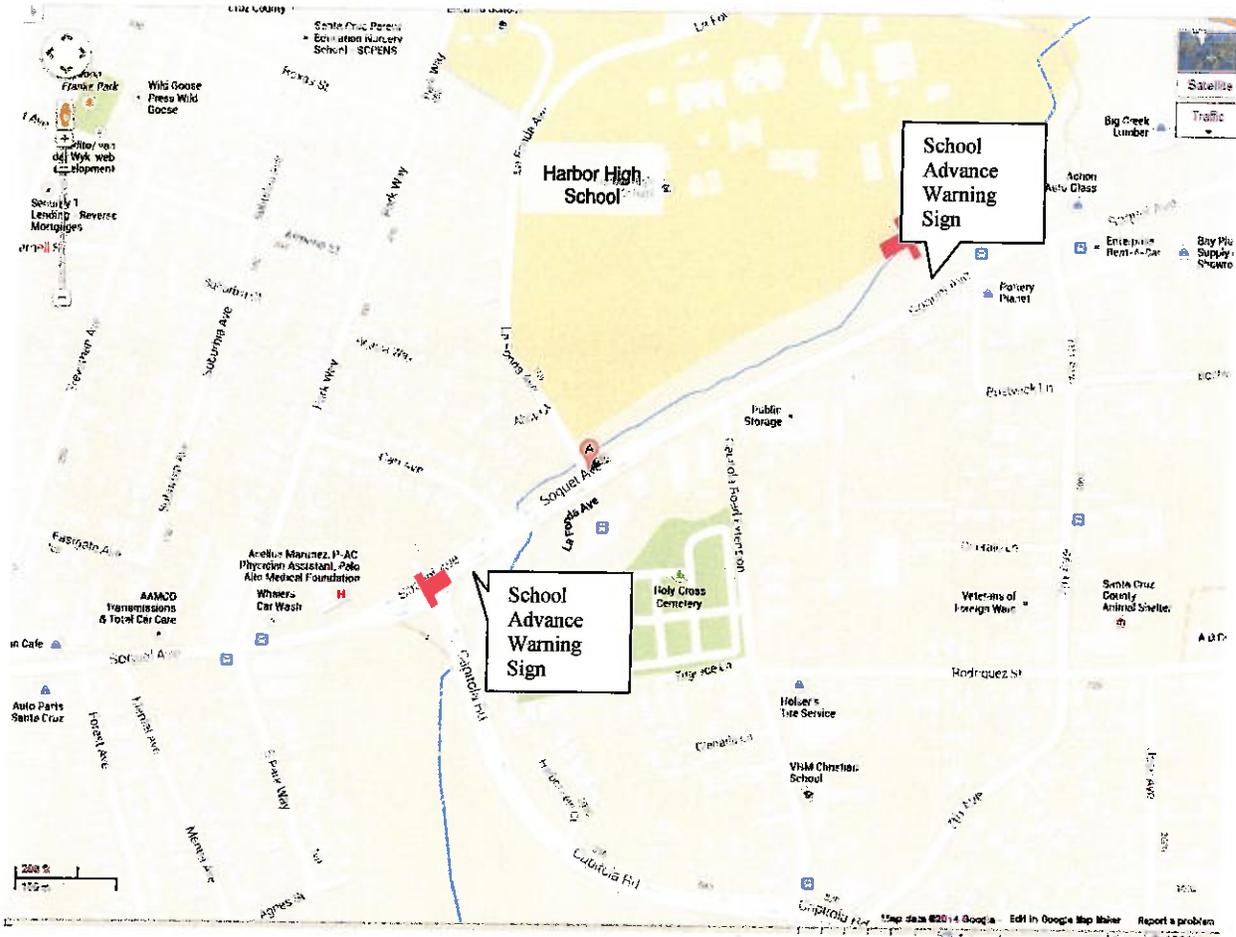


BRANCIFORTE DRIVE NORTHBOUND
Radar Speed Feedback Sign Location



BRANCIFORTE DRIVE SOUTHBOUND
Radar Speed Feedback Sign Location

13. Harbor High School



Name of School	Harbor High
Posted Speed Limit	25/35 MPH EB/WB
Location of Radar Speed Feedback Signs	Soquel Avenue
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

13. Harbor High School

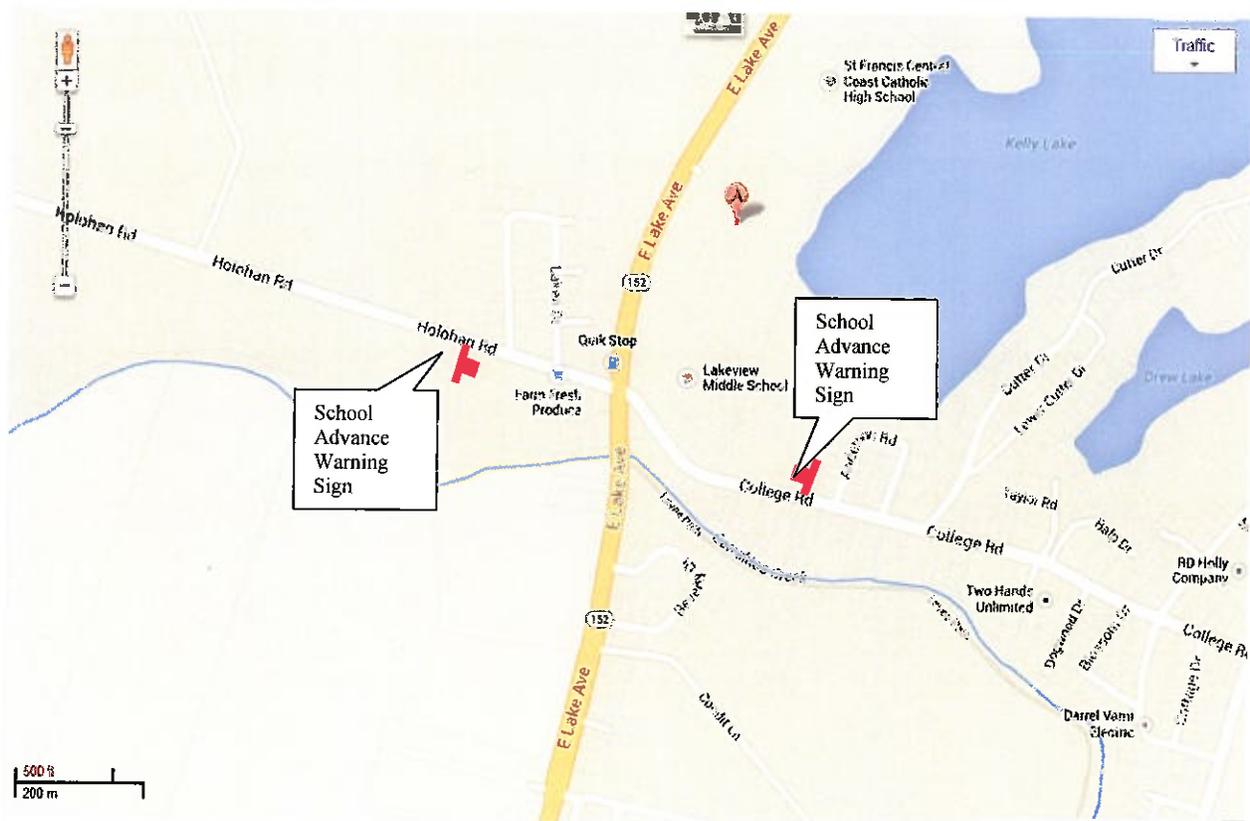


**SOQUEL AVENUE EASTBOUND
Radar Speed Feedback Sign Location**



**SOQUEL AVENUE WESTBOUND
Radar Speed Feedback Sign Location**

14. Lakeview Middle School



Name of School	Lakeview Middle School
Posted Speed Limit	45/25 MPH EB/WB
Location of Radar Speed Feedback Signs	Holohan Road/College Road
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

14. Lakeview Middle School

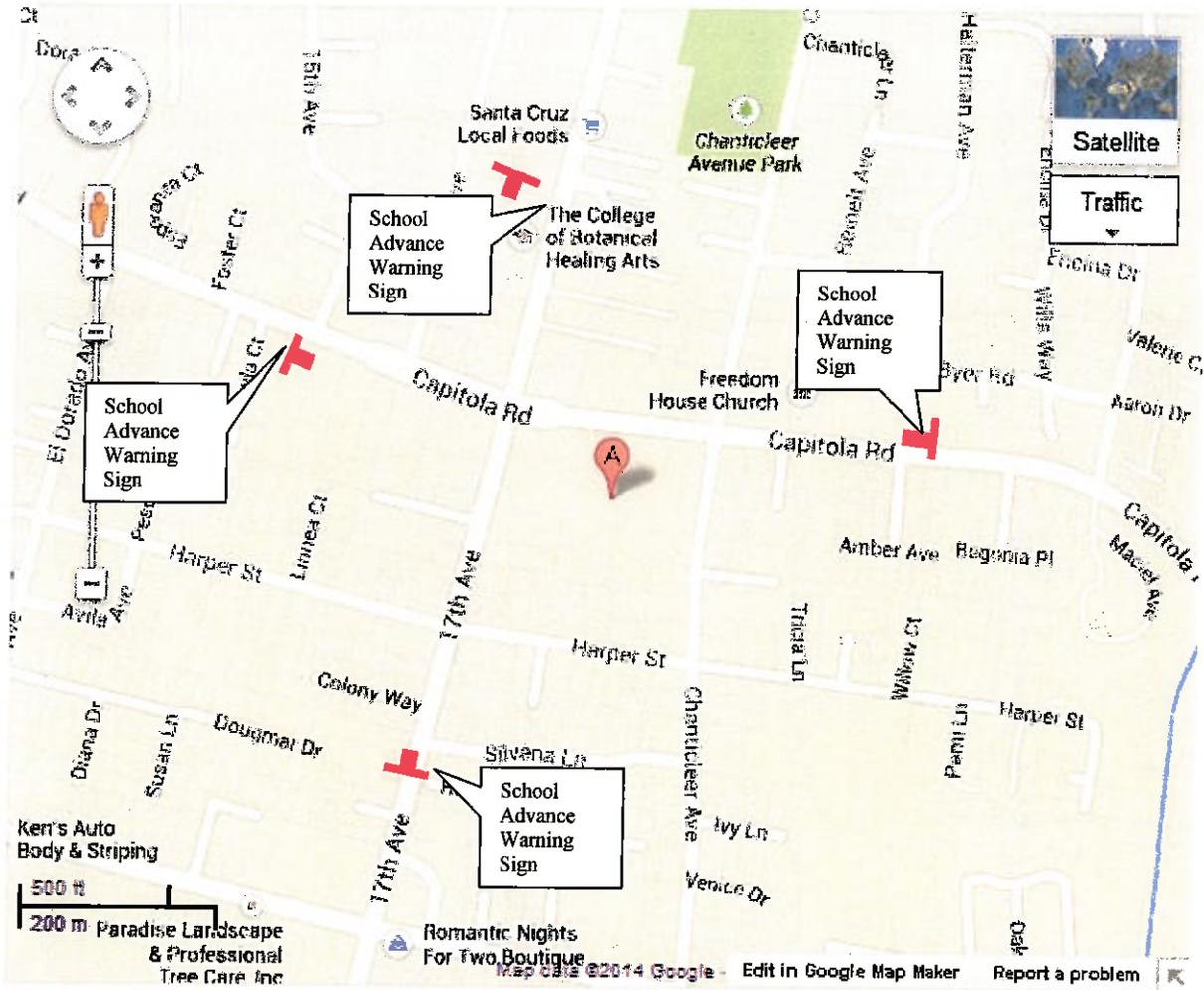


**HOLOHAN ROAD EASTBOUND
Radar Speed Feedback Sign Location**



**COLLEGE ROAD WESTBOUND
Radar Speed Feedback Sign Location**

15. Live Oak Elementary School



Name of School	Live Oak Elementary School
Posted Speed Limit	30 MPH
Location of Radar Speed Feedback Signs	17 th Avenue/Capitola Road
Radar Speed Feedback Signs	4

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

15. Live Oak Elementary School



17TH AVENUE NORTHBOUND
Radar Speed Feedback Sign Location



17TH AVENUE SOUTHBOUND
Radar Speed Feedback Sign Location

15. Live Oak Elementary School

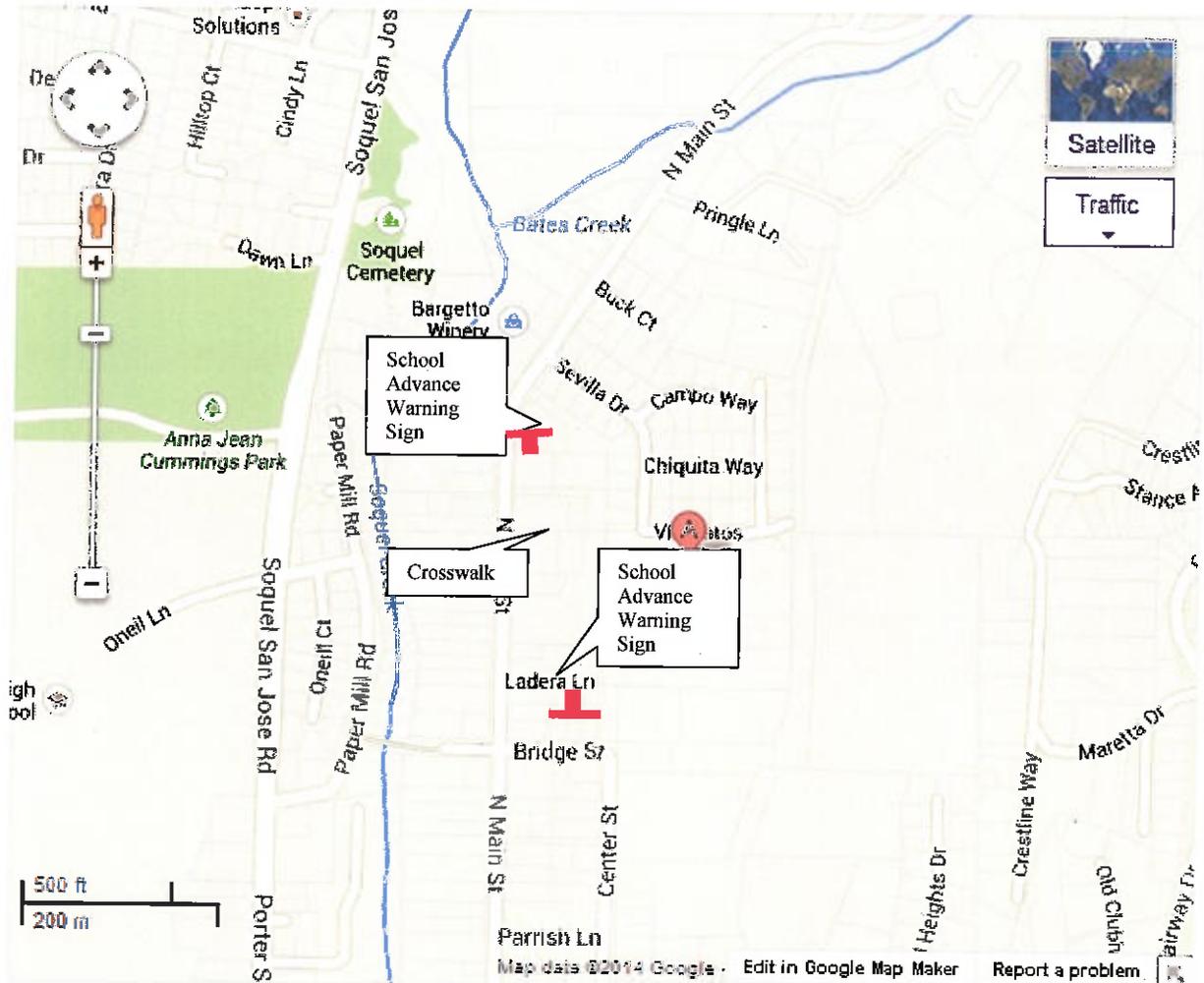


**CAPITOLA ROAD WESTBOUND
Radar Speed Feedback Sign Location**



**CAPITOLA ROAD EASTBOUND
Radar Speed Feedback Sign Location**

16. Main Street Elementary School



Name of School	Main Street School
Posted Speed Limit	25 MPH
Location of Radar Speed Feedback Signs	North Main Street
Radar Speed Feedback Signs	2
Location of Rapid Flashing Beacon System	N Main Street
Rapid Flashing Beacon Systems	1

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole. The Rapid Flashing Beacon system shall be placed at the crosswalk shown on the above map. As part of the beacon system, new Type 1A poles shall be placed on either side of the crosswalk.

16. Main Street Elementary



NORTH MAIN STREET NORTHBOUND
Radar Speed Feedback Location



NORTH MAIN STREET SOUTHBOUND
Radar Speed Feedback Location

16. Main Street Elementary

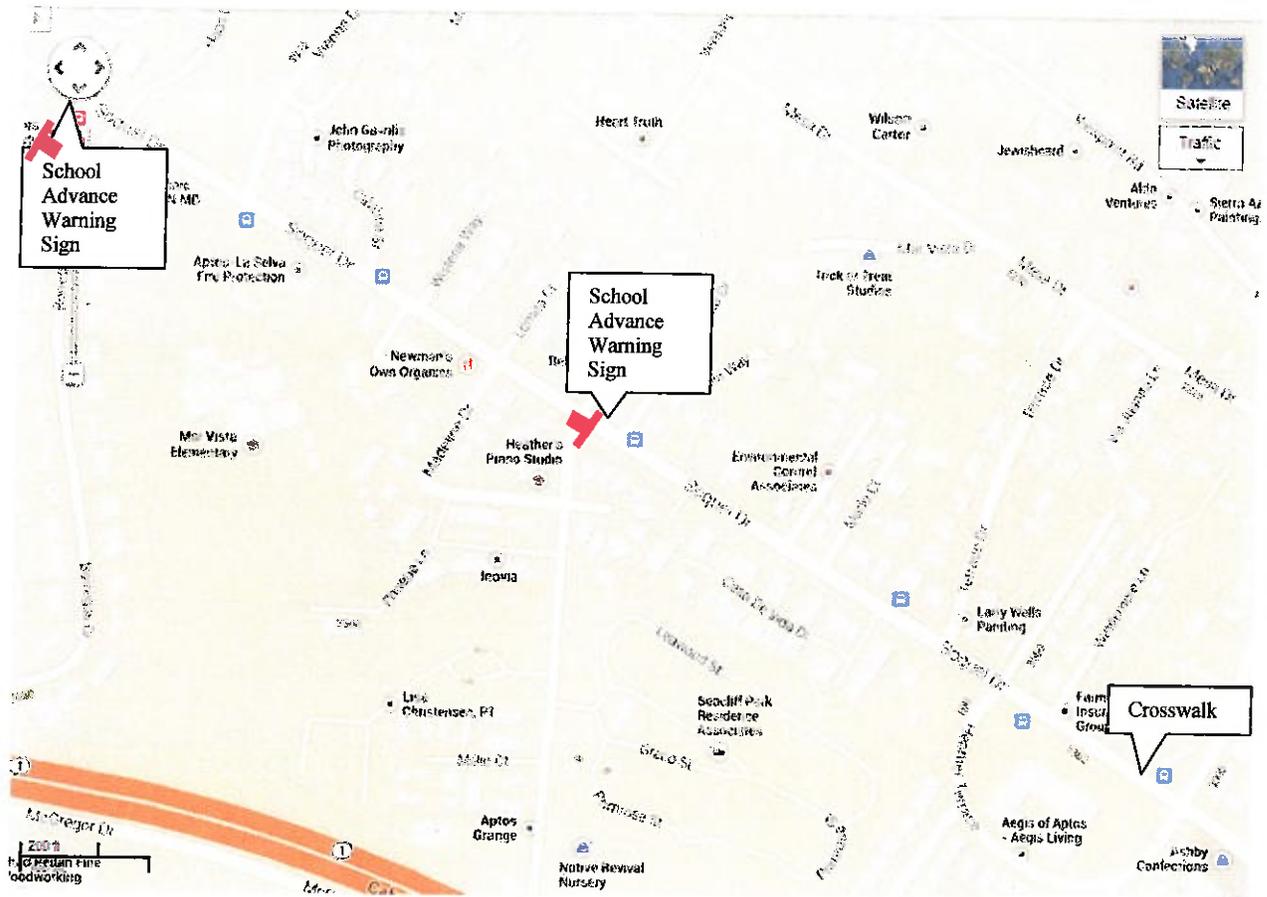


NORTH MAIN STREET FUTURE PEDESTRIAN CROSSING NORTHBOUND
Rectangular Rapid Flashing Beacon System Location



NORTH MAIN STREET FUTURE PEDESTRIAN CROSSING SOUTHBOUND
Rectangular Rapid Flashing Beacon System Location
(same location as above, different view)

17. Mar Vista Elementary School



Name of School	Mar Vista Elementary
Posted Speed Limit	35 MPH
Location of Radar Speed Feedback Signs	Soquel Drive
Radar Speed Feedback Signs	2
Location of Rapid Flashing Beacon System	Soquel Drive at Heather Terrace
Rapid Flashing Beacon Systems	1

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole. The Rapid Flashing Beacon system shall be placed at the crosswalk shown on the above map.

17. Mar Vista Elementary



SOQUEL DRIVE WESTBOUND
Radar Speed Feedback Sign Location



SOQUEL DRIVE EASTBOUND
Radar Speed Feedback Sign Location

17. Mar Vista Elementary



SOQUEL DRIVE @ HEATHER TERRACE PEDESTRIAN CROSSING WESTBOUND
Rectangular Rapid Flashing Beacon System Location plus overhead flashing beacon



SOQUEL DRIVE @ HEATHER TERRACE PEDESTRIAN CROSSING EASTBOUND
Rectangular Rapid Flashing Beacon System Location plus overhead flashing beacon
(same location as above, different view)

18. Shoreline Middle School



Name of School	Shoreline Middle School
Posted Speed Limit	30 MPH
Location of Radar Speed Feedback Signs	17 th Avenue
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

18. Shoreline Middle

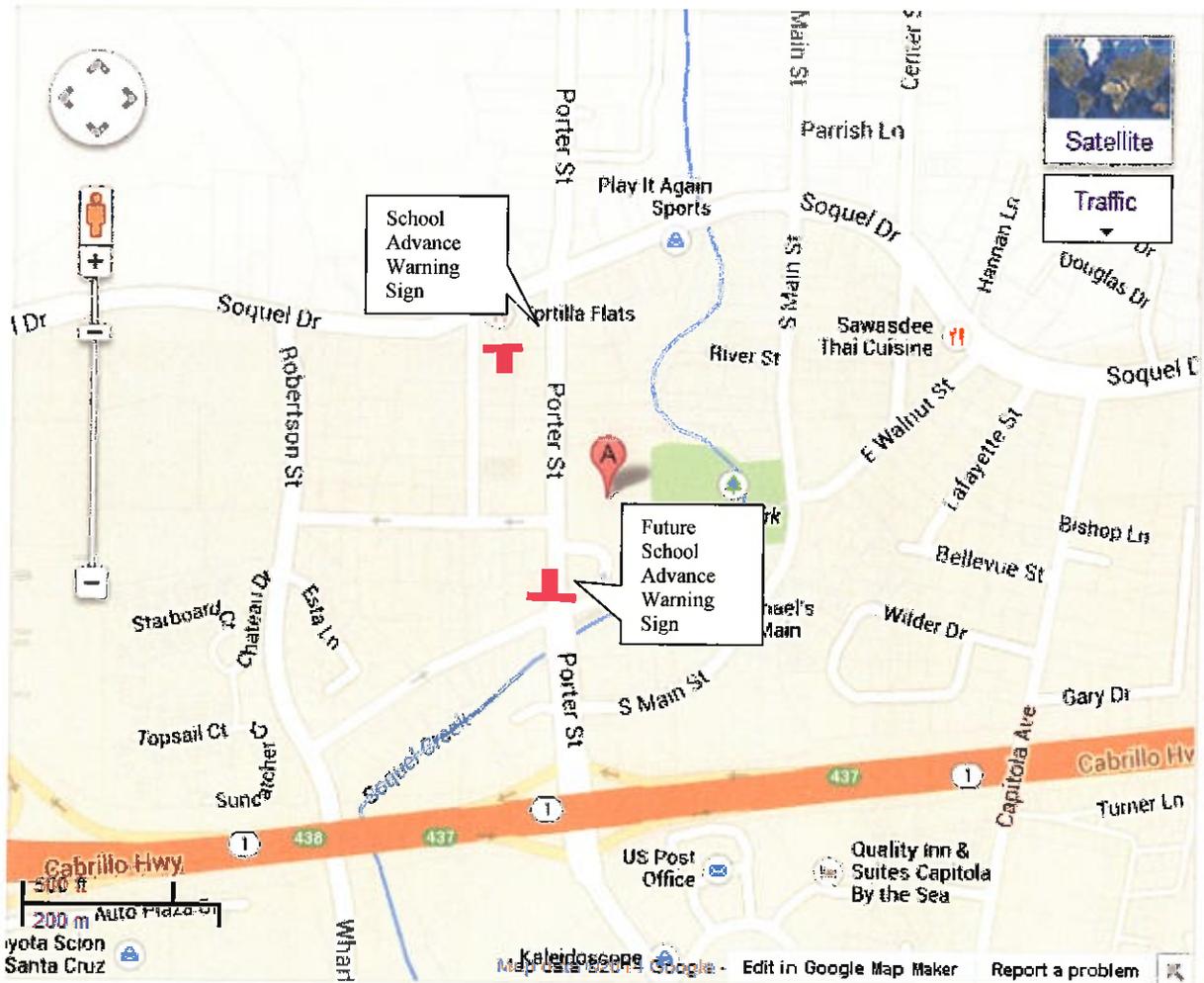


17TH AVENUE NORTHBOUND
Radar Speed Feedback Sign Location



17TH AVENUE SOUTHBOUND
Radar Speed Feedback Sign Location

19. Soquel Elementary School



Name of School	Soquel Elementary School
Posted Speed Limit	25 MPH
Location of Radar Speed Feedback Signs	Porter Street
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

19. Soquel Elementary

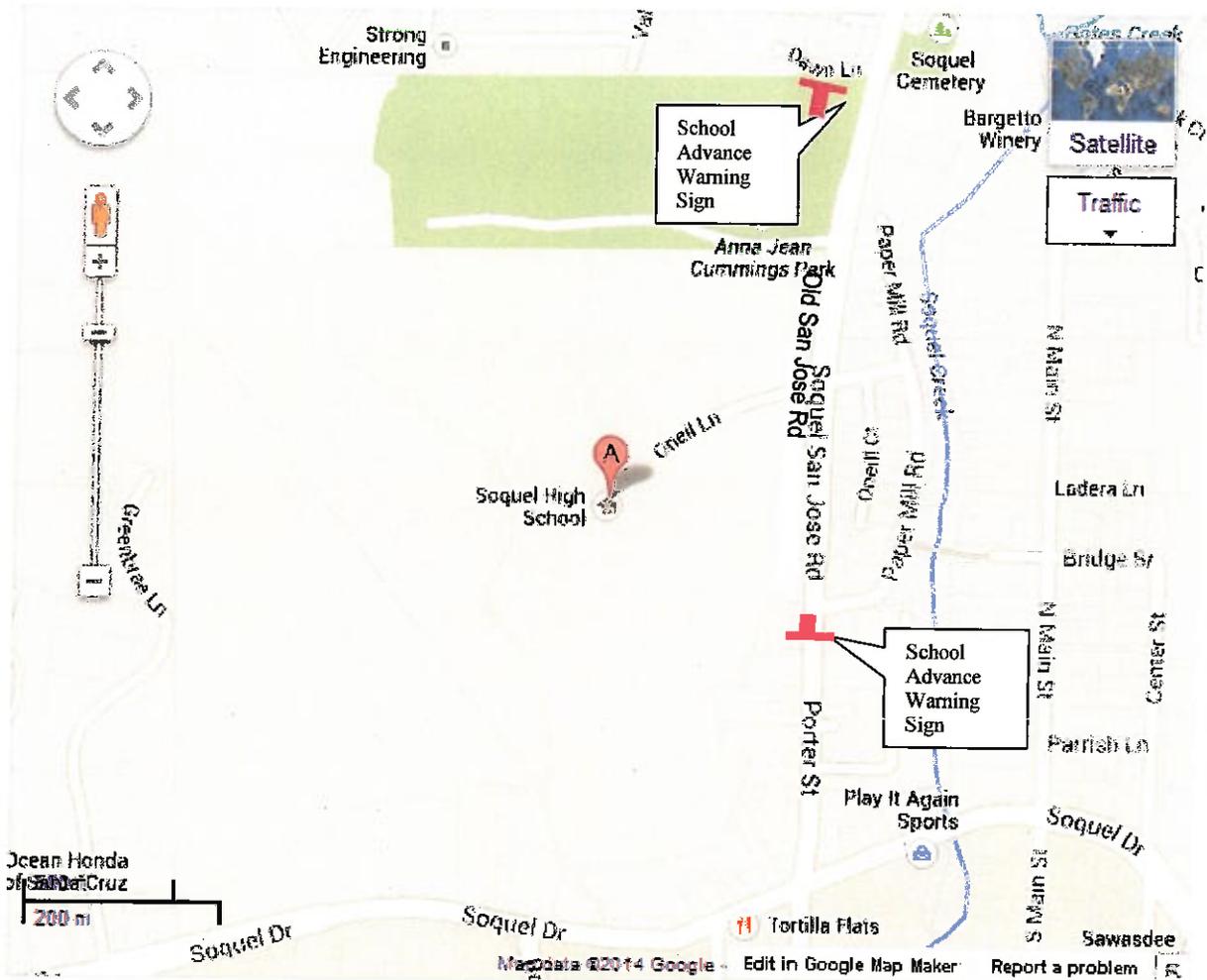


**PORTER STREET NORTHBOUND
Radar Speed Feedback Sign Location**



**PORTER STREET SOUTHBOUND
Radar Speed Feedback Sign Location**

20. Soquel High School



Name of School	Soquel High School
Posted Speed Limit	35/25 MPH
Location of Radar Speed Feedback Signs	Old San Jose Road/Porter Street
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

20. Soquel High School

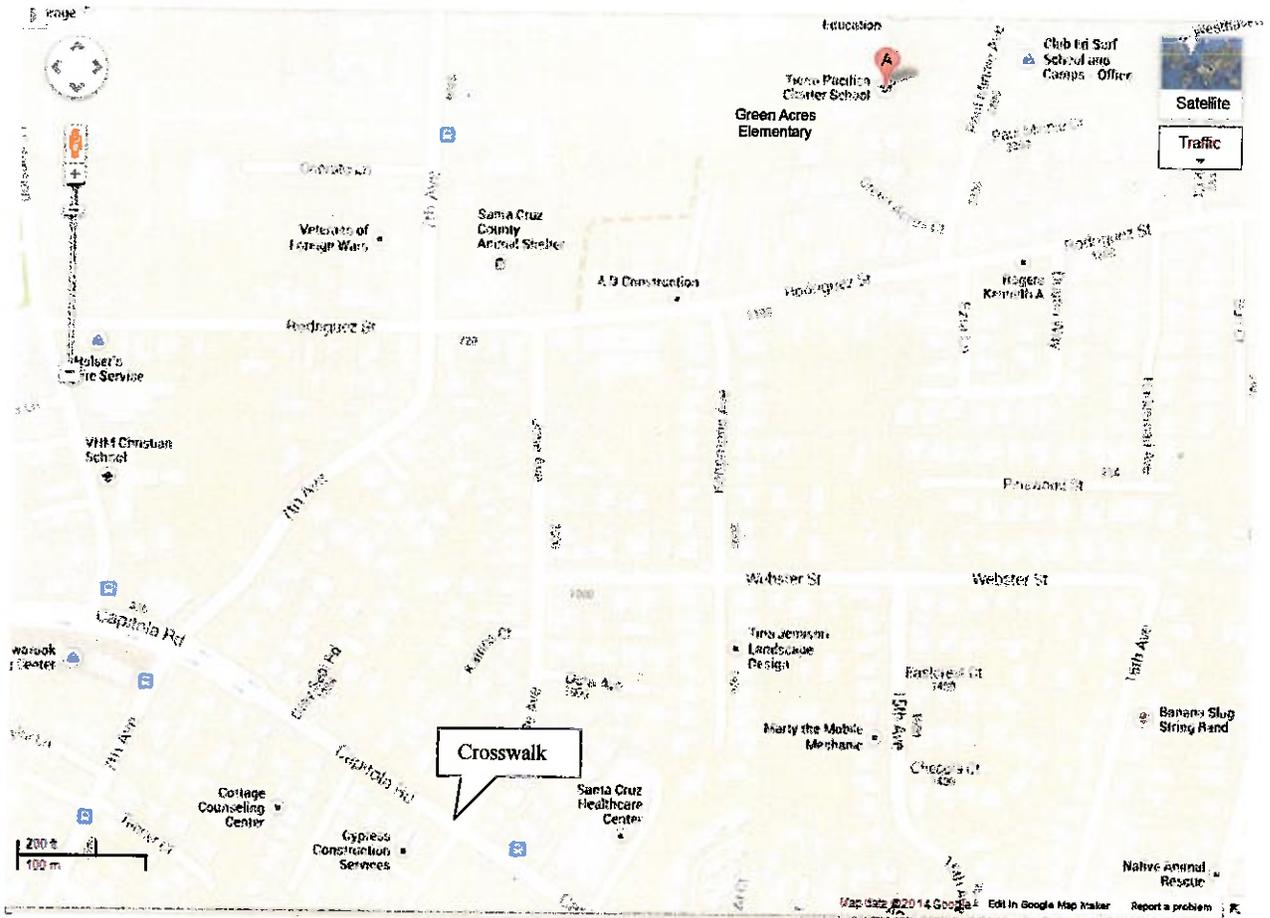


**PORTER STREET NORTHBOUND
Radar Speed Feedback Sign Location**



**OLD SAN JOSE ROAD SOUTHBOUND
Radar Speed Feedback Sign Location**

21. Tierra Pacifica Charter School



Name of School	Tierra Pacifica Charter School
Posted Speed Limit	30 MPH
Location of Rapid Flashing Beacon System	Capitola Road @ Jose Avenue
Rapid Flashing Beacon Systems	1

The Rapid Flashing Beacon system shall be placed at the crosswalk shown on the above map. As part of the beacon system, new Type 1A poles shall be placed on either side of the crosswalk.

21. Tierra Pacifica Charter

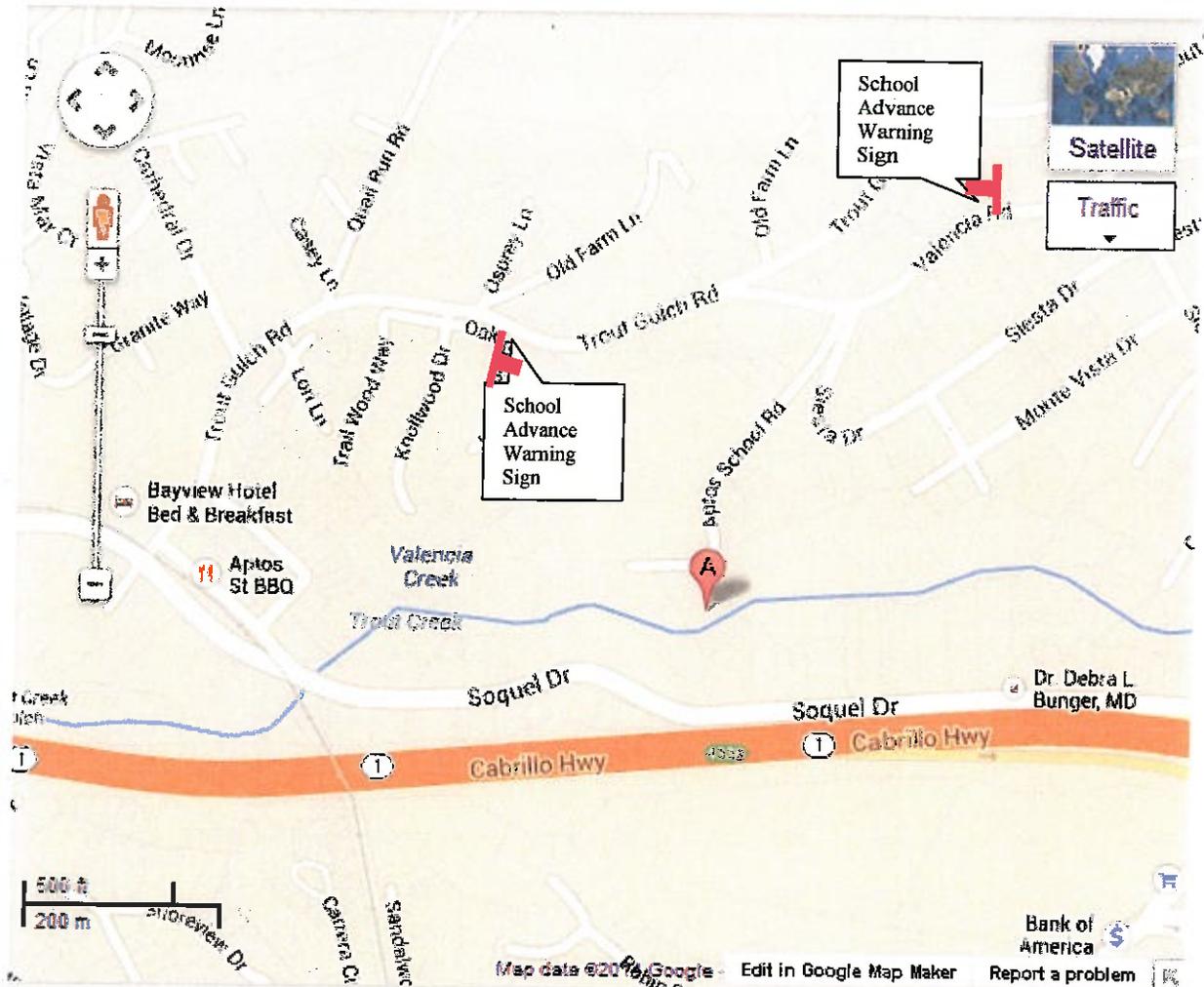


CAPITOLA ROAD @ JOSE AVENUE PEDESTRIAN CROSSING EASTBOUND
Rectangular Rapid Flashing Beacon System Location



CAPITOLA ROAD @ JOSE AVENUE PEDESTRIAN CROSSING WESTBOUND
Rectangular Rapid Flashing Beacon System Location
(same location as above, different view)

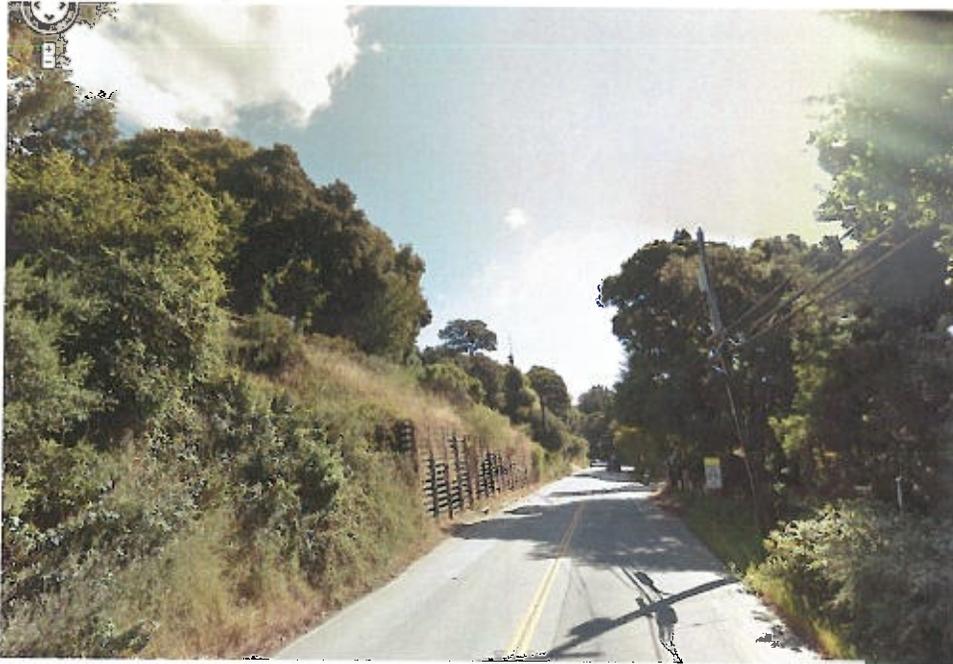
22. Valencia Elementary School



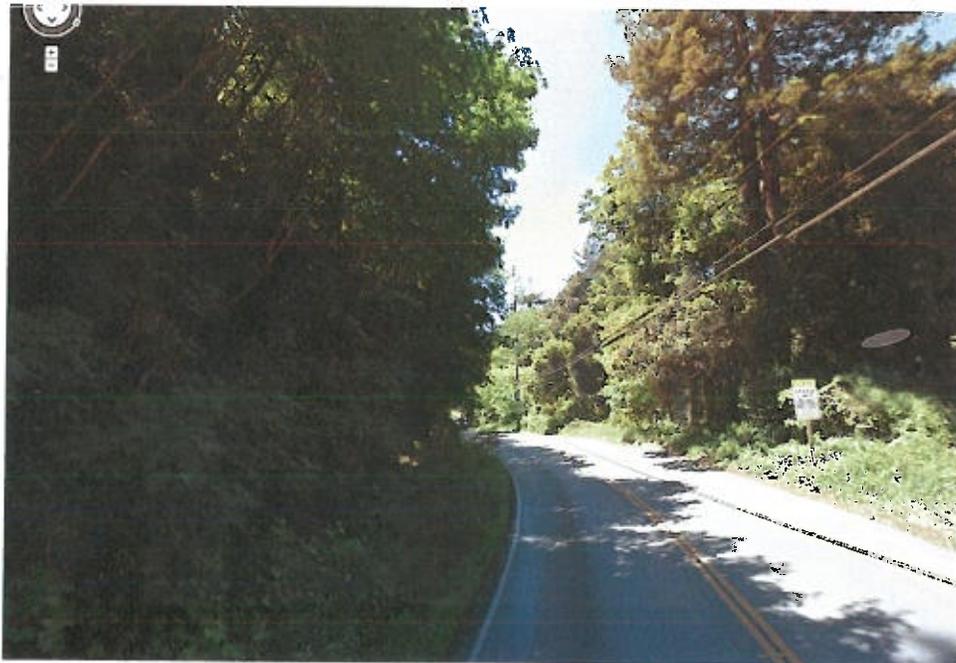
Name of School	Valencia Elementary
Posted Speed Limit	30/25 MPH
Location of Radar Speed Feedback Signs	Trout Gulch Road/Valencia Road
Radar Speed Feedback Signs	2

The Radar Speed Feedback Signs shall be placed at the same location of the School Advance Warning Signs shown on the above map. The standard sign post shall be replaced with a Type 1A pole.

22. Valencia Elementary School



TROUT GULCH ROAD NORTHBOUND
Radar Speed Feedback Sign Location



VALENCIA ROAD SOUTHBOUND
Radar Speed Feedback Sign Location

		COUNTY OF SANTA CRUZ DEPARTMENT OF PUBLIC WORKS PRELIMINARY ESTIMATE OF COST FOR THE CONSTRUCTION OF		Sheet 1 of 1	
PROJECT: LOCATION: DESCRIPTION:		RADAR SPEED FEEDBACK SIGN PROJECT		INITIAL DATE	
				Made by GJM 3/27/2014	
				rev 04/28/14	
ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOBILIZATION/TRAFFIC CONTROL	LS	1	\$50,000.00	\$50,000.00
2	INSTALL RADAR SPEED FEED BACK SIGN (SOLAR)	EA	30	\$13,000.00	\$390,000.00
3	INSTALL RADAR SPEED FEED BACK SIGN (NEW SERVICE)	EA	7	\$15,000.00	\$105,000.00
4	INSTALL RADAR SPEED FEED BACK SIGN (EX SERVICE)	EA	2	\$13,000.00	\$26,000.00
5	INSTALL RECTANGULAR RAPID FLASHING BEACONS ON BOTH SIDES OF EXISTING CROSSWALK (SOLAR)	EA	7	\$18,000.00	\$126,000.00
6	INSTALL OVERHEAD FLASHING BEACON (SOLAR)	EA	1	\$40,000.00	\$40,000.00
	Items 2,3,4, 5 are on Type 1B pole.				
				CONTRACT TOTAL:	\$737,000
				PE: ENVIRONMENTAL	\$12,000
				PE: PRELIMINARY ENGINEERING	\$60,000
				ROW: Right of Way Engineering	\$0
				ROW: Appraisals, Acquisitions & Utilities	\$0
				CON: CONSTRUCTION ENGINEERING	\$20,000
				CON: CONSTRUCTION	\$737,000
				PROJECT TOTAL:	\$829,000

Benefit / Cost Calculation Result

1. Project Information

Application ID ATP: Cycle 1

Version 1

2. Countermeasures and Crash Data

Crash Data Time Period 1/1/2003 to 12/31/2010 Years 8

- Install dynamic / variable speed warning signs

CM Number	Project Type	Crash Type	CRF	Life
R30	Operation / Warning	All	30	10

Crash Type	Fatality (Death)	Severe Injury	Injury - Other Visible	Injury - Complaint of Pain	Property Damage Only	Total
All	0	8	18	8	6	40

Annual Benefit	\$ 133,260	Cost	\$ 829,000
Life Benefit	\$ 1,332,600	B/C Ratio	1.61

3. Benefit Cost Result

Total Benefit	\$ 1,332,600
Total Cost	\$ 829,000
B/C Ratio	1.61

Signature:

By signing this B/C Calculation Result, you are attesting to your authority / responsibility at your local agency for this work and you are attesting to the accuracy of the values on this page and that they have been entered into the HSIP Application Form correctly, DO NOT SIGN if any of this is not the case.

BICYCLE AND PEDESTRIAN COLLISIONS ON THE ROADS AND IN THE VICINITY OF THE IMPROVEMENTS PROPOSED 7/1/2013 - 12/31/2010 (8 YEARS)

Accident #	Accident N	Location	Dist	Direction	Date	Time	Coll Type	Involved	Extent	Severe	Pa D	PCF	DOT1	Lighting	DOT2	MPC1
3	8986104073450	Freedom Bl at Valencia Rd	0	Not Stated	8/8/2004	10:40 AM	Other	Bicycle	Other Visible Injury	1	1	1	Auto R/W Violation	Daylight	West	Making Left Turn
3	9211135013294	Freedom Bl at Valencia Rd	0	Not Stated	3/21/2005	01:50 PM	Broadside	Bicycle	Complaint of Pain	1	1	1	Auto R/W Violation	Daylight	North	Making Left Turn
3	10235140516000	Freedom Bl at Shadowmere Wy	0	Not Stated	1/9/2008	02:05 PM	Broadside	Bicycle	Other Visible Injury	1	1	1	Auto R/W Violation	Daylight	East	Entering Traffic
3	10337135718800	Freedom Bl at Valencia Rd	0	Not Stated	5/30/2008	01:57 PM	Broadside	Bicycle	Severe Injury	1	1	1	Improper Turning	Daylight	East	Making Left Turn
3	10486173016200	Freedom Bl at Mariner Wy	528	East	9/16/2008	05:30 PM	Other	Bicycle	Other Visible Injury	1	1	1	Improper Turning	Daylight	West	Other Unsafe Turning
7	8692011017392	Graham Hill Rd at Meyer Dr	100	North	10/19/2003	01:10 AM	Vehicle - Pedestrian	Pedestrian	Other Visible Injury	1	1	1	Driving Under Influence	Dark - No Street Lights	North	Other Unsafe Turning
8	8954140014288	Caiaabaras Rd at Bowker Rd	0	Not Stated	3/29/2004	02:00 PM	Other	Bicycle	Severe Injury	1	1	1	Traffic Signals and Signs	Daylight	South	Proceeding Straight
9	8778163515313	17th Av at Merrill St	20	North	1/13/2004	06:35 PM	Sideswipe	Bicycle	Complaint of Pain	1	1	1	Improper Turning	Dark - Street Lights	North	Proceeding Straight
9	8812120310253	17th Av at Merrill St	150	South	2/16/2004	12:03 PM	Other	Bicycle	Other Visible Injury	1	1	1	Wrong Side of Road	Daylight	East	Traveling Wrong Way
9	9570085510253	17th Av at Felt St	0	Not Stated	3/15/2006	08:55 AM	Vehicle - Pedestrian	Pedestrian	Complaint of Pain	1	1	1	Ped R/W Violation	Daylight	South	Making Right Turn
9	10114144517100	17th Av at Felt St	100	North	9/10/2007	02:45 PM	Vehicle - Pedestrian	Pedestrian	Other Visible Injury	1	1	1	Pedestrian Violation	Daylight	East	Proceeding Straight
9	10150193016200	17th Av at Felt St	0	Not Stated	10/16/2007	07:30 PM	Broadside	Bicycle	Complaint of Pain	1	1	1	Traffic Signals and Signs	Dark - Street Lights	North	Proceeding Straight
9	10864145019700	17th Av at Alice St	0	Not Stated	9/29/2009	02:50 PM	Other	Bicycle	Other Visible Injury	1	1	1	Auto R/W Violation	Daylight	West	Traveling Wrong Way
10	8934085210253	Soquel Dr at Cabrillo College Dr	5	East	6/17/2004	08:52 AM	Vehicle - Pedestrian	Pedestrian	Other Visible Injury	1	1	1	Pedestrian Violation	Daylight	North	Proceeding Straight
10	9704150616089	Soquel Dr at Cabrillo College Dr	40	West	7/27/2006	03:08 PM	Other	Bicycle	Severe Injury	1	1	1	Pedestrian Violation	Daylight	West	Proceeding Straight
10	10492096318100	Soquel Dr at Cabrillo College Dr	47	East	9/22/2008	09:53 AM	Other	Bicycle	Other Visible Injury	1	1	1	Other Than Driver or Ped	Daylight	West	Proceeding Straight
10	11214164118600	Cabrillo College Dr at Soquel Dr	18	South	9/14/2010	04:41 PM	Broadside	Pedestrian	Complaint of Pain	1	1	1	Pedestrian Violation	Daylight	West	Stopped in Road
10	11236093015300	Soquel Dr at Porter Gulch Rd	200	South	10/6/2010	09:30 AM	Other	Bicycle	Complaint of Pain	1	1	1	Auto R/W Violation	Daylight	South	Proceeding Straight
11	10748170818700	7th Av at Freeman Ct	0	Not Stated	6/5/2009	05:03 PM	Other	Bicycle	Complaint of Pain	1	1	1	Auto R/W Violation	Daylight	West	Making Left Turn
11	1078000918100	7th Av at Rodriguez St	25	North	7/5/2009	12:09 AM	Sideswipe	Bicycle	Other Visible Injury	1	1	1	Improper Turning	Dark - Street Lights	North	Traveling Wrong Way
14	9638184616089	Holohan Rd at State Hwy 152	1056	North	5/22/2006	06:46 PM	Vehicle - Pedestrian	Pedestrian	Severe Injury	1	1	1	Pedestrian Violation	Daylight	North	Making Right Turn
14	10335124416800	East Lake Av at Bridge St	150	East	4/16/2008	12:44 PM	Vehicle - Pedestrian	Pedestrian	Severe Injury	1	1	1	Improper Turning	Daylight	North	Not Stated
14	10981163516800	College Rd at State Hwy 152	438	East	1/24/2010	06:35 PM	Vehicle - Pedestrian	Pedestrian	Severe Injury	1	1	1	Pedestrian Violation	Dark - No Street Lights	East	Ran Off Road
14	11219020519700	State Hwy 152 at Holohan Rd	1320	East	9/19/2010	02:05 AM	Vehicle - Pedestrian	Pedestrian	Other Visible Injury	1	1	1	Pedestrian Violation	Dark - No Street Lights	East	Other
15	8712115017484	17th Av at Capitola Rd	100	North	11/8/2003	11:50 AM	Other	Bicycle	Property Damage Only	1	1	1	Auto R/W Violation	Daylight	South	Proceeding Straight
15	9521151014653	Harper St at 17th Av	5	West	1/25/2006	03:10 PM	Broadside	Bicycle	Property Damage Only	1	1	1	Auto R/W Violation	Daylight	West	Entering Traffic
15	9704082910253	17th Av at Harper St	0	Not Stated	7/27/2005	08:29 AM	Broadside	Bicycle	Property Damage Only	1	1	1	Wrong Side of Road	Daylight	East	Traveling Wrong Way
15	9783210018071	17th Av at Harper St	100	North	10/14/2006	09:00 PM	Head-On	Bicycle	Other Visible Injury	1	1	1	Driving Under Influence	Dark - Street Lights	North	Entering Traffic
15	9850180114320	Capitola Rd at Chanticleer Av	203	West	12/20/2006	07:01 PM	Vehicle - Pedestrian	Pedestrian	Severe Injury	1	1	1	Pedestrian Violation	Dark - Street Lights	East	Not Stated
15	9998211318081	Capitola Rd at 15th Av	189	East	5/17/2007	09:13 PM	Vehicle - Pedestrian	Pedestrian	Other Visible Injury	1	1	1	Pedestrian Violation	Dark - Street Lights	East	Not Stated
15	10663194518700	Capitola Rd at 16th Av	17	East	3/12/2009	07:45 PM	Other	Bicycle	Other Visible Injury	1	1	1	Driving Under Influence	Dark - Street Lights	East	Proceeding Straight
15	11125103619600	17th Av at Capitola Rd	75	North	6/17/2010	10:36 AM	Other	Bicycle	Other Visible Injury	1	1	1	Wrong Side of Road	Daylight	South	Entering Traffic
17	10648161318100	Soquel Dr at Vienna Dr	0	Not Stated	2/25/2009	06:13 PM	Other	Bicycle	Other Visible Injury	1	1	1	Auto R/W Violation	Dusk - Dawn	South	Proceeding Straight
18	91501433516034	17th Av at Kinsey St	120	North	1/19/2005	02:35 PM	Broadside	Bicycle	Property Damage Only	1	1	1	Wrong Side of Road	Daylight	East	Traveling Wrong Way
19	921802514289	Soquel Wharf Rd at Porter St	5	West	3/28/2005	08:25 AM	Broadside	Bicycle	Other Visible Injury	1	1	1	Wrong Side of Road	Daylight	East	Traveling Wrong Way
19	9407153017657	Porter St at West Walnut St	0	Not Stated	10/3/2005	03:30 PM	Broadside	Bicycle	Complaint of Pain	1	1	1	Improper Turning	Daylight	North	Traveling Wrong Way
20	10069170017600	Soquel San Jose Rd at O'Neill Ln	528	North	7/27/2007	05:00 PM	Other	Bicycle	Other Visible Injury	1	1	1	Improper Turning	Daylight	South	Making Right Turn
20	10105081014300	Soquel San Jose Rd at O'Neill Ln	5	South	9/4/2007	08:10 AM	Not Stated	Bicycle	Property Damage Only	1	1	1	Auto R/W Violation	Daylight	South	Proceeding Straight
20	10210174018400	Soquel San Jose Rd at Paper Mill F	0	Not Stated	12/15/2007	05:40 PM	Head-On	Pedestrian	Severe Injury	1	1	1	Pedestrian Violation	Dark - Street Lights	South	Not Stated
20	11076164519600	Soquel San Jose Rd at O'Neill Ln	0	Not Stated	5/1/2010	04:45 PM	Sideswipe	Bicycle	Property Damage Only	1	1	1	Improper Turning	Daylight	South	Making Left Turn

8 18 8 6

Online link to planning documents

County General Plan

<http://www.sccoplanning.com/PlanningHome/Long-RangePlanning/GeneralPlan.aspx>

County Regional Transportation Plan

<http://www.sccrtc.org/funding-planning/long-range-plans/rtp/>

Goal 2: Reduce transportation related fatalities and injuries for all transportation modes. Safety is a desired outcome of many transportation investments and operations. Invest in projects/programs that will help to reduce pedestrian, bicyclist and motor vehicle fatalities and injuries.

TARGET 2A: Reduce injury and fatal collisions by mode by 20 percent by 2020 and by 50 percent by 2035

County Bicycle Plan

<http://www.dpw.co.santa-cruz.ca.us/pdf/BicyclePlan.pdf>

Documentation of Public Participation

The County has accumulated a vast amount of institutional knowledge through interactions with the public in a variety of means. The County Public Works Department regularly receives inquiries, recommendations, and complaints from the public regarding the construction of improvements in the vicinity of schools within the County. Similarly, the Board of Supervisors regularly receives information from the public regarding the transportation system as it relates to Safe Routes to School. The County has engaged with numerous schools directly on specific issues related to safe routes to school. The schools often share feedback they have received from the public regarding specific issues relating to schools. In essence, there are a multitude of feedback mechanisms, both informal and formal, by which the County accumulates knowledge regarding the transportation system as it relates to Safe Routes to School. The final opportunity provided to the public is at the time that projects such as these go before the Board of Supervisors. Any member of the public may comment at that time.

Escuela Convenio • Alianza • Charter School

115 Casserly Road • Watsonville • CA • 95076
V:(831)728-6333 • F:(831)728-6947 • www.alianza.pvusd.net • michael_jones@pvusd.net
Michael G. Jones, principal

Attn: Greg Martin
County of Santa Cruz
Department of Public Works
701 Ocean St, Rm 410
Santa Cruz, CA 95060



To Whom it May Concern:

I'm giving my full support to the County of Santa Cruz Department of Public Works project to install school safety related improvements of radar speed feedback signs and rectangular rapid flashing beacons near our schools. It is our understanding that there are grant monies available through Caltrans that can provide the necessary funds to build this project. If Caltrans provides the grant funding needed to begin this project, it would be a tremendous benefit to the school children, their parents, and the community. I urge you to fund these critical traffic calming improvements to help keep the school children safe. Thank you!

Sincerely,

A handwritten signature in black ink, appearing to read "Michael G. Jones".

Michael G. Jones



Thursday, May 15, 2014 • Page #1



Bonny Doon Union Elementary School District

Engaging the mind, the heart, and the spirit

1492 PINE FLAT ROAD * SANTA CRUZ, CALIFORNIA 95060
Phone (831) 427-2300 * Fax (831) 427-2800
School Website: www.bonnydoon.santacruz.k12.ca.us

Superintendent/Principal: Stephanie Siddens * ssiddens@santacruz.k12.ca.us
Assistant to the Superintendent: Cyndy Coté * ccote@santacruz.k12.ca.us

Attn: Greg Martin
County of Santa Cruz
Department of Public Works
701 Ocean St, Rm 410
Santa Cruz, CA 95060



May 12th, 2104

To Whom it May Concern,

Bonny Doon School is currently not a safe place for students, parents, and visitors when they need to cross the street. Cars, motorcycles, and trucks routinely travel more than twice the posted speed limit, and they do not slow down when passing by the school. Because of this, I'm giving my full support to the County of Santa Cruz Department of Public Works project to install school safety related improvements of radar speed feedback signs and rectangular rapid flashing beacons near our school. It is our understanding that there are grant monies available through Caltrans that can provide the necessary funds to build this project. If Caltrans provides the grant funding needed to begin this project, it would be a tremendous benefit to the school children, their parents, and the community by remedying the dangerous situation that currently exists. I urge you to fund these critical traffic-calming improvements to help keep the school children safe.

Sincerely,

Stephanie Siddens
Superintendent/Principal
Bonny Doon School



Delta School at Cabrillo College

6500 Soquel Dr., Building 1190
Aptos, CA 95003
Ph 831-477-5212
Fax 831-479-6173

*A Partnership Between
Business Leaders
Santa Cruz City Schools
County Health & Human Resource Agencies
and Cabrillo College*

Attn: Greg Martin

County of Santa Cruz

Department of Public Works

701 Ocean St. Rm 410

Santa Cruz, CA 95060

May 15, 2014

To Whom it May Concern:

I'm giving my full support to the County of Santa Cruz Department of Public Works project to install school safety related improvements of radar speed feedback signs and rectangular rapid flashing beacons near our schools. It is our understanding that there are grant monies available through Caltrans that can provide the necessary funds to build this project. If Caltrans provides the grant funding needed to begin this project, it would be a tremendous benefit to the school children, their parents, and the community. I urge you to fund these critical traffic calming improvements to help keep the school children safe.

Respectfully

Mary Gaukel Forster
Principal, Delta School



Happy Valley School

3125 Branciforte Drive • Santa Cruz • CA • 95065

TEL (831) 429-1456 • FAX (831) 429-6205

www.happyvalley.santacruz.k12.ca.us

Superintendent/Principal
Michelle McKinny
mmckinny@santacruz.k12.ca.us

Administrative Assistant
Paige Lynd
plynd@santacruz.k12.ca.us

Attn: Greg Martin
County of Santa Cruz
Department of Public Works
701 Ocean St, Rm 410
Santa Cruz, CA 95060

To Whom it May Concern:

I'm giving my full support to the County of Santa Cruz Department of Public Works project to install school safety related improvements of radar speed feedback signs and rectangular rapid flashing beacons near our schools. It is our understanding that there are grant monies available through Caltrans that can provide the necessary funds to build this project. If Caltrans provides the grant funding needed to begin this project, it would be a tremendous benefit to the school children, their parents, and the community. I urge you to fund these critical traffic calming improvements to help keep the school children safe.

Sincerely,

Michelle McKinny
Superintendent/Principal



Live Oak School District

Our mission is to prepare students to make meaningful contributions in a rapidly changing world.

Tamra Taylor, Ed. D.
Superintendent

April 29, 2014

Attn: Greg Martin
County of Santa Cruz County
Department of Public Works
701 Ocean St, Rm 410
Santa Cruz, CA 95060

To Whom It May Concern:

On behalf of Live Oak School District, I wish to extend our full support for the Caltrans Active Transportation Program grant. As the Superintendent of the Live Oak School District I am giving my full support to the County of Santa Cruz Department of Public Works project to install radar speed feedback signs and rectangular rapid flashing beacons near our schools to provide a safe route to school for the school children. It is our understanding that there are funds available through Caltrans that can help provide the majority of the funds needed to build this project. If Caltrans could provide the grant funding they need to begin this project, it would be a tremendous benefit to the school children, their parents, and the community. I urge you to consider funding these critically needed traffic calming improvements to help keep the school children safe.

Your serious and favorable consideration of the Active Transportation Program grant would be greatly appreciated by the Live Oak community and the County of Santa Cruz.

Sincerely,

Tamra Taylor, Ed.D.
Superintendent

DISTRICT OFFICE 984-1 BOSTWICK LANE SANTA CRUZ, CA 95062-1798 (831) 475-6333 FAX (831) 475-2638
Del Mar School 1959 Merrill Street 477-2063 Green Acres School 906 Bostwick Lane 475-0111
Live Oak School 1916 Capitola Road 475-2000 Shoreline Middle School 855 17th Avenue 475-6565
Ocean Alternative School 984-1 Bostwick Lane 475-6507 Cypress Charter High School 2039 Merrill Street 477-0302



Gary Bloom
Superintendent of
Schools

Karen Hendricks
Assistant Superintendent
Human Resources

Robert Shemwell
Assistant Superintendent
Business Services

Kris Munro
Assistant Superintendent
Educational Services

May 8, 2014

County of Santa Cruz
Department of Public Works
701 Ocean Street, Room 410
Santa Cruz, CA 95060

Attn: Greg Martin,

To Whom it May Concern:

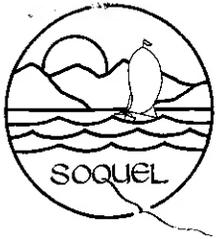
I am writing to give my full support to the County of Santa Cruz Department of Public Works project to install school safety related improvements of radar speed feedback signs and rectangular rapid flashing beacons near our schools. It is our understanding that there are grant monies available through Caltrans that can provide the necessary funds to build this project. If Caltrans provides the grant funding needed to begin this project, it would be a tremendous benefit to the school children, their parents, and the community. I urge you to fund these critical traffic calming improvements to help keep the school children safe.

Sincerely,

A handwritten signature in blue ink, appearing to read "Robert Shemwell", is written over the word "Sincerely,".

Robert Shemwell
Assistant Superintendent
Business Services

RS/cmj



SOQUEL UNION ELEMENTARY SCHOOL DISTRICT



May 15, 2014

District Administration
620 Monterey Avenue
Capitola, CA 95010

Henry Castaniada
Superintendent
HCastaniada@suesd.org
(831) 464-5630
(831) 475-5196 FAX

Harley Robertson
Assistant Superintendent Business Services
HRobertson@suesd.org
(831) 464-5632
(831) 479-7182 FAX

Randall Simms
Director of Student Services
RSimms@suesd.org
(831) 464-5631
(831) 475-9087 FAX

Board of Trustees
Tory Del Favero
Judy McGooden
Phil Rodriguez
Sandra Wallace

Attn: Greg Martin
County of Santa Cruz
Department of Public Works
701 Ocean St, Rm 410
Santa Cruz, CA 95060

To Whom it May Concern:

I'm giving my full support to the County of Santa Cruz Department of Public Works project to install school safety related improvements of radar speed feedback signs and rectangular rapid flashing beacons near our schools. It is our understanding that there are grant monies available through Caltrans that can provide the necessary funds to build this project. If Caltrans provides the grant funding needed to begin this project, it would be a tremendous benefit to the school children, their parents, and the community. I urge you to fund these critical traffic calming improvements to help keep the school children safe.

Sincerely,

Harley Robertson
Assistant Superintendent, Business Services



Attn: Greg Martin
County of Santa Cruz
Department of Public Works
701 Ocean St, Rm 410
Santa Cruz, CA 95060



To Whom it May Concern:

I'm giving my full support to the County of Santa Cruz Department of Public Works project to install school safety related improvements of radar speed feedback signs and rectangular rapid flashing beacons near our schools. It is our understanding that there are grant monies available through Caltrans that can provide the necessary funds to build this project. If Caltrans provides the grant funding needed to begin this project, it would be a tremendous benefit to the school children, their parents, and the community. I urge you to fund these critical traffic calming improvements to help keep the school children safe.

Sincerely,

Linda Lambdin
Principal

Greg Martin

From: Cynthia Vitale [Cynthia@csgcalifornia.com]
Sent: Thursday, May 08, 2014 7:34 AM
To: Greg Martin
Cc: Cynthia Vitale; Virginia Clark (Virginia.clark@ccc.ca.gov); calocalcorps@gmail.com
Subject: RE: Santa Cruz County Public Works ATP Cycle 1 Grant Application

Good morning Greg,

Thank you for contacting CALCC. Unfortunately, no local corps will be able to participate due to the geographic location of this project. This email should serve as confirmation that you have contacted the local corps and that they have declined to participate. Feel free to attach this to your final application.

Thanks,
Cynthia

----- Forwarded message -----

From: **Greg Martin** <Greg.Martin@santacruzcounty.us>
Date: Mon, May 5, 2014 at 10:55 AM
Subject: Santa Cruz County Public Works ATP Cycle 1 Grant Application
To: "calocalcorps@gmail.com" <calocalcorps@gmail.com>, "virginia.clark@ccc.ca.gov" <virginia.clark@ccc.ca.gov>

Hi Cynthia and Virginia,

We shall be submitting an application for an ATP Cycle 1 Grant. As requested, the required information is attached as a .pdf.

The project consists of the installation of 37 radar speed feedback signs, 7 rectangular rapid flashing beacons, and one overhead flashing beacon on various County roads adjacent to twenty one different schools. The 37 radar speed feedback signs and 7 rectangular rapid flashing beacon systems shall be installed on Type 1B poles as specified in the Caltrans Standard Plans. All electrical work for the radar speed feedback signs and flashing beacons shall be performed by a licensed electrician.

Please let us know as soon as possible. Thanks ☺

Greg Martin, RCE 52556
Department of Public Works
County of Santa Cruz
701 Ocean Street, Room 410
Santa Cruz, CA 95060
(831) 454-2811

Greg Martin

From: Clark, Virginia@CCC [Virginia.Clark@CCC.CA.GOV]
Sent: Tuesday, May 13, 2014 1:45 PM
To: Greg Martin
Cc: Wohlgemuth, Janet@CCC; Burks-Herrmann, Brenda@CCC; calocalcorps@gmail.com
Subject: FW: Santa Cruz County Public Works ATP Cycle 1 Grant Application
Greg

The CCC will not be participating in your ATP project.

Virginia Clark
Region Deputy, Region 1



California Conservation Corps
(916) 341-3147
fx(877) 834-4177
virginia.clark@ccc.ca.gov

 PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL
Visit our web site at www.ccc.ca.gov for more information about the California Conservation Corps
Visit our web site at www.WatershedStewards.com for more information about the Watershed Stewards Program

From: Clark, Virginia@CCC
Sent: Monday, May 12, 2014 5:29 PM
To: 'Greg Martin'; calocalcorps@gmail.com
Cc: Wohlgemuth, Janet@CCC; Burks-Herrmann, Brenda@CCC
Subject: RE: Santa Cruz County Public Works ATP Cycle 1 Grant Application

Virginia Clark
Region Deputy, Region 1



California Conservation Corps
(916) 341-3147
fx(877) 834-4177
virginia.clark@ccc.ca.gov

 PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL
Visit our web site at www.ccc.ca.gov for more information about the California Conservation Corps