TRAFFIC SAFETY IMPROVEMENTS AROUND SCHOOL SITES PHASE 1

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Presentation Outline

• Project Goals
• Existing Safety Improvements
• Planned Safety Improvements
• Recommendation Development
• Recommendation Summary
Project Goals

• Evaluation of Safety around schools
• Identify locations for Flashing Stop Signs (FSS)
• Associate FSS with schools, and improve accessibility and safety for peds/bikes near schools
• Review need for other improvements near schools (e.g. signs, crosswalks, RRFB, traffic calming measures etc.)
Existing Safety Improvements

- Rectangular Rapid Flashing Beacons (RRFBs) at 13 locations near schools
- Ped scramble crossing at Concord Blvd & West St (between three schools)
- Flashing stop signs (Pilot)
  - Locations:
    - Pine Hollow Rd & Pennsylvania Blvd
    - Salvio St & Date St
  - Blinks on vehicle approach
  - Speed sensitive blinking
  - Increases visibility of stop control
Planned Safety Improvements

• Rectangular Rapid Flashing Beacons (RRFBs) at 5 new locations near schools

• Project under HSIP to add protected left-turn phasing at Concord Blvd & Mendocino Dr (Feb ’24)

• Completed Pine Hollow Feasibility Study and developed recommendations for future project.
Recommendation Development

• Focus on flashing stop signs, with goal of one installation per school

• Flashing stop signs must meet two criteria:
  ◦ All-way stop controlled intersection
  ◦ Within 600 feet of school main entrance

• Additional criteria were reviewed, including volume, speed, collision history, and observed safety challenges during field visit
Recommendation Summary

• 13 flashing stop sign installations at 11 schools
• 7 schools with no all-way stop controlled intersections within 600 feet of main entrance. Other recommendations include:
  • Stop signs, legends, bars
  • Curb extensions, curb ramps, sidewalks
  • High-visibility crosswalks
  • Communicate with staff, parents, and students
Questions?
Appendix A

LIST OF EXISTING AND PROPOSED RECTANGULAR RAPID FLASHING BEACON LOCATIONS
Appendix A: List of Existing and Proposed Rectangular Rapid Flashing Beacon Locations

<table>
<thead>
<tr>
<th>Existing Locations</th>
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<tbody>
<tr>
<td>1. West St &amp; Forestview Ave</td>
<td>7. Olivera Rd &amp; Thunderbird Dr</td>
</tr>
<tr>
<td>2. Thornwood Dr &amp; Stillwater Ct</td>
<td>8. E Olivera Rd Midblock</td>
</tr>
<tr>
<td>3. Floyd Ln &amp; Cardinal Dr</td>
<td>9. Ronald Wy Midblock</td>
</tr>
<tr>
<td>4. Winton Dr Midblock</td>
<td>10. Ronald Wy &amp; Moretti Dr</td>
</tr>
<tr>
<td>5. Pennsylvania Blvd &amp; Alabama Dr</td>
<td>11. Lacey Ln &amp; Cambridge Elementary Driveway</td>
</tr>
<tr>
<td>6. Myrtle Dr &amp; Oakridge Ct</td>
<td>12. Wren Ave Midblock (two locations)</td>
</tr>
</tbody>
</table>
Appendix A: List of Existing and Proposed Rectangular Rapid Flashing Beacon Locations

Proposed Locations

1. Claycord Ave & Innwood Ct (Dec ‘23)
2. Mendocino Dr & Orangewood Ct (Dec ‘23)
3. Esperanza Dr & Moretti Dr (Dec ‘23)
4. Alberta Wy & Academy Rd (June ‘24)
5. Olivera Rd & Sanford St (Dec ‘23)
Appendix B

PROPOSED FLASHING STOP SIGN LOCATIONS
Appendix B: Proposed Flashing Stop Sign Locations

<table>
<thead>
<tr>
<th>School Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ayers Elementary:</td>
<td>Myrtle Dr &amp; Ayers Rd</td>
</tr>
<tr>
<td>El Monte Elementary:</td>
<td>Pancho Via Wy-Kimball Wy &amp; Barbis Wy</td>
</tr>
<tr>
<td>Holbrook Language Academy:</td>
<td>E Olivera Rd &amp; Esperanza Dr</td>
</tr>
<tr>
<td>Meadow Homes Elementary:</td>
<td>Detroit Ave &amp; Lynn Ave-Sunshine Dr</td>
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<tr>
<td>Meadow Homes Elementary:</td>
<td>Toyon Dr &amp; Oakmead Dr (secondary)</td>
</tr>
<tr>
<td>Monte Gardens Elementary:</td>
<td>Ashdale Dr-Larkspur Dr &amp; Carlotta Dr</td>
</tr>
<tr>
<td>Monte Gardens Elementary:</td>
<td>Landana Dr &amp; Larkspur Dr (secondary)</td>
</tr>
</tbody>
</table>
Appendix B: Proposed Flashing Stop Sign Locations

<table>
<thead>
<tr>
<th>School</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mountain View Elementary</td>
<td>Thornwood Dr &amp; Greenbush Dr</td>
</tr>
<tr>
<td>Silverwood Elementary</td>
<td>Claycord Ave &amp; Olive Dr</td>
</tr>
<tr>
<td>Sun Terrace Elementary</td>
<td>Floyd Ln &amp; Sanford St</td>
</tr>
<tr>
<td>Woodside Elementary</td>
<td>San Simeon Dr &amp; McKean Dr</td>
</tr>
<tr>
<td>Ygnacio Valley Elementary</td>
<td>Chalomar Rd &amp; Notre Dame Ave</td>
</tr>
<tr>
<td>Mount Diablo High</td>
<td>Grant St &amp; Almond Ave</td>
</tr>
</tbody>
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Appendix C

OTHER RECOMMENDATIONS FOR SCHOOLS WITH NO FLASHING STOP SIGN CANDIDATE LOCATIONS
Appendix C: Other Recommendations for Schools with No Flashing Stop Sign Candidate Locations

Cambridge Elementary School
• Short-Term
  • Stop sign, stop legend, and advance stop bar on Lacey Ct approach to Lacey Ln including red curb between the stop bar and crosswalk
  • Stop legend and advance stop bar on the Frisbie Ct approach to Lacey Ln including red curb between the stop bar and crosswalk
  • Advise that parent volunteers activate RRFBs on Lacey Ln
• Long-Term
  • Advance stop bars and high-visibility crosswalk markings on all legs of Tilson Dr & Nicholas Dr (repave before restriping)

Westwood Elementary School
• Short-Term
  • Advance stop bar and high-visibility crosswalk on east (Roland Dr) leg of West St & Roland Dr
  • Trim vegetation on western sidewalk of West St north of the RRFBs in front of Westwood Elementary School
• Long-Term
  • Curb extensions at West St & Roland Dr crosswalk (long-term CIP project)
Appendix C: Other Recommendations for Schools with No Flashing Stop Sign Candidate Locations

Wren Elementary School
• Short-Term
  • Paint the curbs red between the yield lines and crosswalks on the south side of Wren Avenue at the two crosswalks in front of Wren Avenue Elementary School
• Long-Term
  • Convert two existing crosswalks in front of Wren Avenue Elementary School to raised crosswalks

El Dorado Middle School
• Short-Term
  • Suggest to El Dorado Middle School that trained staff/volunteer parents assist at West St & Forestview Ave, and students be informed of the uses and benefits of the RRFBs on West St
  • Signage on east side of West St at Forestview Ave reminding students to use RRFB push button
  • Advance stop bar and high-visibility crosswalk on west (Forestview Ave) leg of West St & Forestview Ave
  • Trim vegetation on western sidewalk of West St north of Forestview Ave
• Long-Term
  • Modify signal at Concord Blvd & West St to extend walk and all-red clearance time during school peaks, add countdown pedestrian signal heads, add diagonal-facing pedestrian signals, and replace PPBs with APSs (HSIP project)
Appendix C: Other Recommendations for Schools with No Flashing Stop Sign Candidate Locations

Oak Grove Middle School
• Long-Term
  • Crosswalk with RRFBs across Weaver Ln midway between Minert Rd and Breton Pl incl. vertical delineators to narrow roadway (work with Walnut Creek)
  • High-visibility crosswalk on south leg of Minert Rd & Weaver Ln (work with Walnut Creek)
  • Curb extensions and curb ramps on south leg of Minert Rd & Weaver Ln (work with Walnut Creek)
  • Curb ramps at Minert Rd & Brittany Ln
  • Install sidewalk on east side of Weaver Ln between Oak Grove Middle School and Smith Ln

Concord High School
• Short-Term
  • Communicate with Concord High School about formalizing path between school and West S & Concord Blvd
  • High-visibility crosswalks on all legs at Concord Blvd & Mendocino Dr-School Dw
• Long-Term
  • Modify signal at Concord Blvd & Mendocino Dr-School Dw to extend walk and all-red clearance time during school peaks, add countdown pedestrian signal heads, and replace PPBs with APSs (part of Capital Improvement Project PJ2575)

Ygnacio Valley High School
• Short-Term
  • Communicate with YVHS about formalizing the path between school and Oak Grove Rd along the north side of the pick-up/drop-off loop