

Piney Orchard Elementary School Safe Routes to School Accessibility Study: **Existing Conditions and Recommendations**

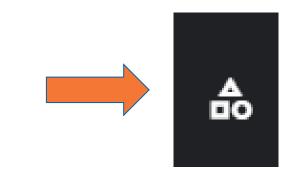
October 25, 2023

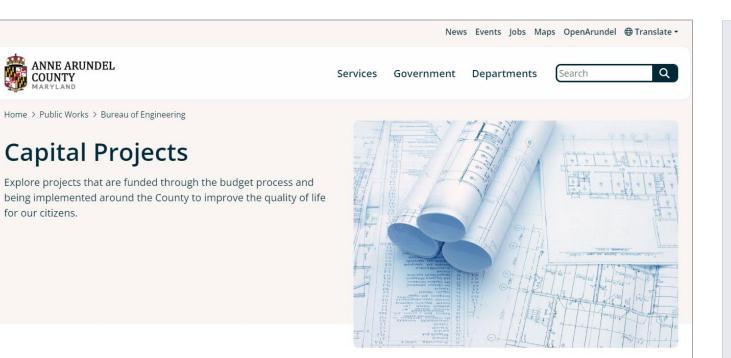
PUBLIC SCHOOLS

Introductions

To view full report and provide input, please visit https://tinyurl.com/srtsaacounty

Adam Greenstein pwgree08@aacounty.org 410-222-7543





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Safe Routes to Schools

PROJECT NUMBER: H539616

Project Class

Roads & Bridges (H1)

Project Phase

Planning

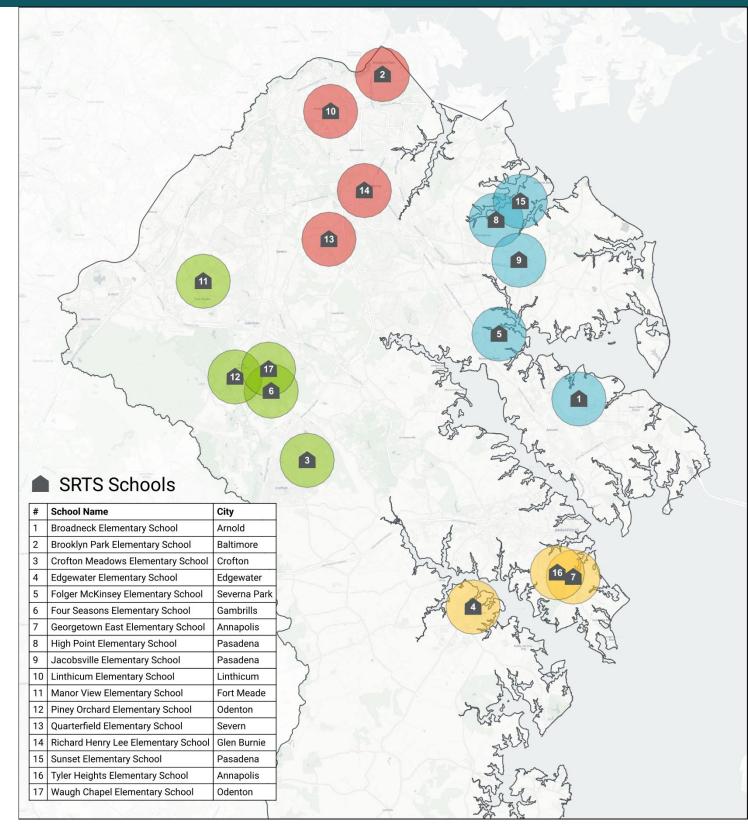
Project Description

This contract will study existing conditions and i prioritizing infrastructure improvements and eq meetings will occur for each of the 17 schools. 510-957-3045?, PIN ?291 676 738#????? Brookly McKinsey ES: 10/4/23, 6:00-7:00pm -- meet.god meet.google.com/ghr-gcsa-yfd; dial-in -- 563-4

Project Documents / Videos	
50m-	
SKIS Virtual Public Montin	
SRTS Virtual Public Meetings - Schedule and Links.pdf Accessibility Study Reason	
s - study Report - Current	
Accessibility Study Report - Richard Henry Lee ES.pdf	
V - rady Report - Directory	
y study Report - Linet	
y study Report - Inert	
Study Report - History	
Study Report Ca	
Accessibility Study Report - Edgewater ES.pdf	
ccessibility Study Report	
ccessibility Study Report - Crofton Meadows ES.pdf	
cessibility Study Report - Broadneck ES.pdf	

Anne Arundel Safe Routes to School Accessibility Study

- Partnership between County and AACPS
- 17 schools, per Move Anne Arundel! County Transportation Functional Master Plan.
- Oversight by County, State, and AACPS representatives.
- Focus: infrastructure within school walk zone, also assessed opportunities to expand active transportation to school
- Goal: improve safety and transportation choices for all school families



Anne Arundel County SRTS Schools

1-mile Buffer Zones

East North South West



Piney Orchard Elementary Accessibility Study

Report findings are derived from:

School site visits	 Observed school arrival and dismissal – October 26 Assessed pedestrian and bicycle infrastructure within and roads immediately adjacent (as connectivity allow 2022)
Parent Survey	 January 26 - February 19, 2023 Available online: English, Spanish, Chinese, and Ko Survey link was provided via email



6, 2022 in school walk zone ows) – October 26,

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Report Content

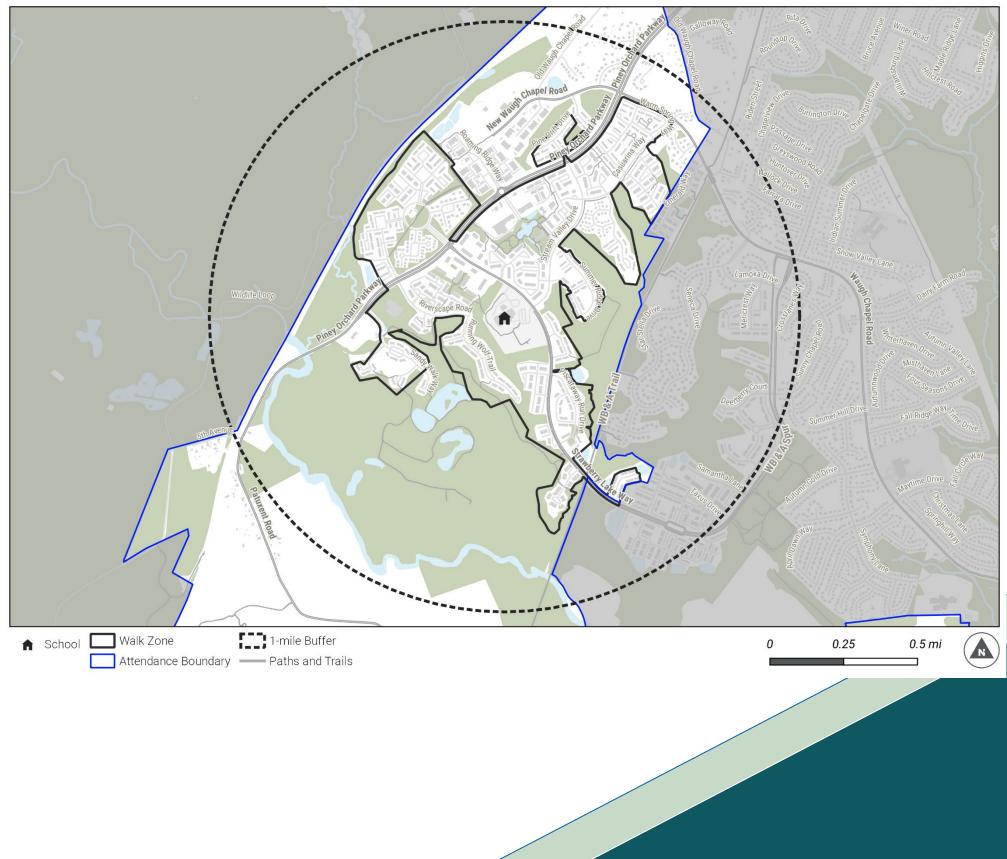
- 1. School overview
- 2. Parent-reported student travel modes and barriers
- 3. Arrival and dismissal observations
- 4. Existing infrastructure conditions
- 5. Crash data
- 6. Infrastructure recommendations
- 7. Programmatic recommendations
- 8. Appendix: Infrastructure recommendation photos

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School Overview Section

- Study area
- School attendance and enrollment
- School location and layout
- School access



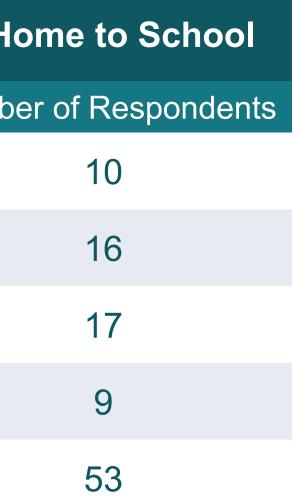


Parent-Reported Student Travel Modes and Barriers Section

- Distance from home to school
- School bus eligibility and use
- Most common travel mode to school
- Ideal travel mode to school
- Barriers to walking or biking to school
- Streets used to walk or bike to school

Reported Distance	from H
Distance	Numb
< ¼ mile	
1/4 mile – 1/2 mile	
1/2 mile – 1 mile	
1 mile – 1 ½ miles	
>1 ½ miles	

Piney Orchard Elementary - 107 total survey responses received



Arrival and Dismissal Observations Section

- **Overview of operations**
- **General observations**
- Arrival and dismissal observations by travel mode (walk, bike, school bus, parent drop-off)



Adult and student walking along Strawberry Lake Way after exiting a parked car.

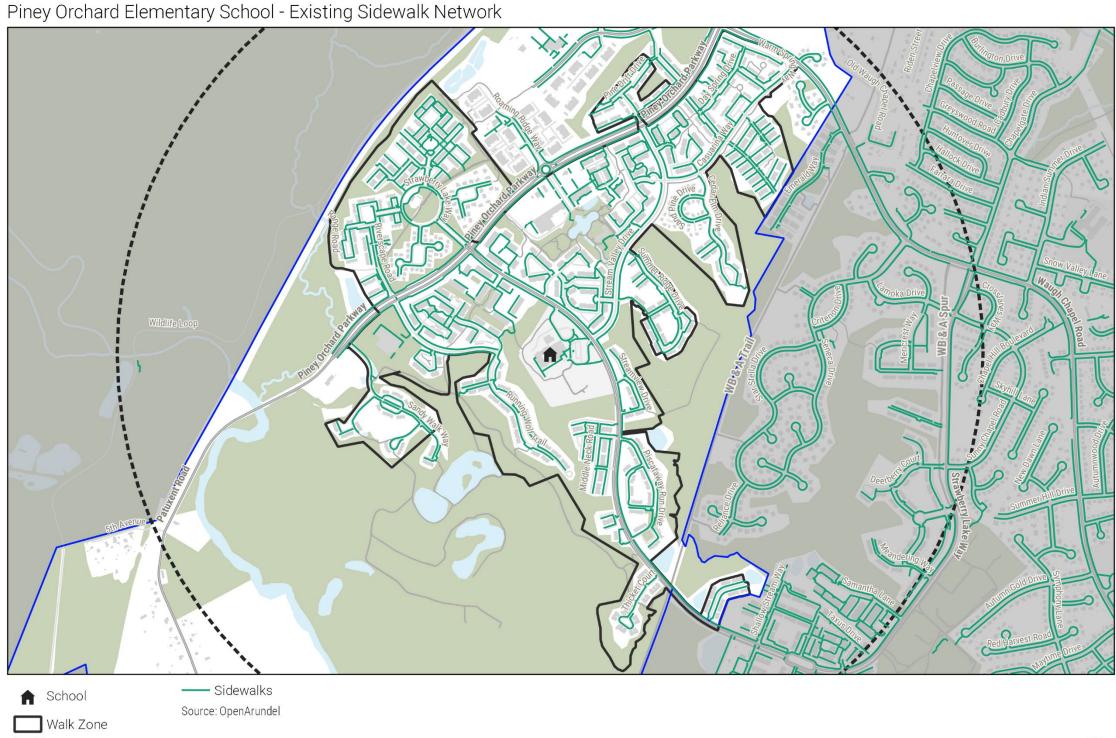
Existing Infrastructure Conditions Section

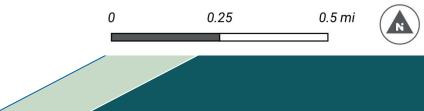
Attendance Boundary

1-mile Buffer

- Sidewalks
- Marked crosswalks
- Curb ramps
- On-road bike facilities*
- Regional trails, park trails, and paths*

*Existing, planned, or programmed





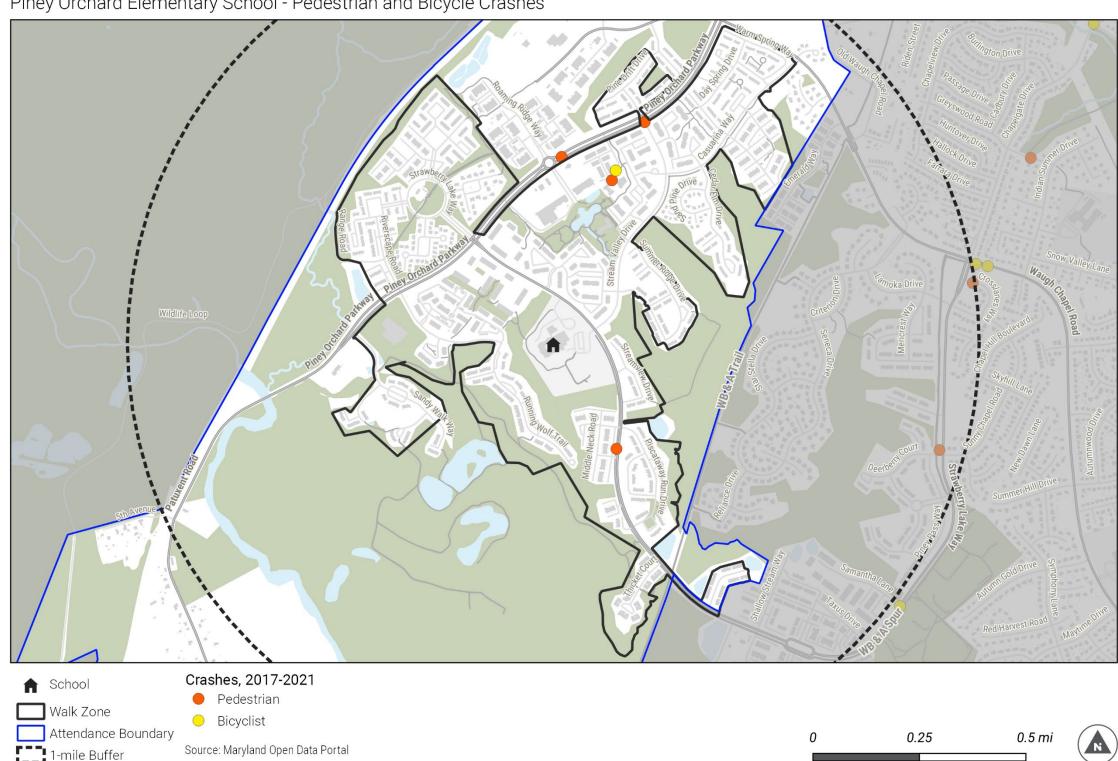
Crash Data (2017 – 2021)

Crashes within 1-mile radius of the school:

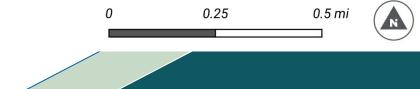
- 172 total crashes (all modes)
- Six pedestrian-involved crashes, five resulting in injury
- Two bicyclist-involved crashes, both resulting in injury

Pedestrian and bicyclist crashes within the walk zone:

Four pedestrian-involved crashes and one bicyclist-involved crash occurred in the walk zone.

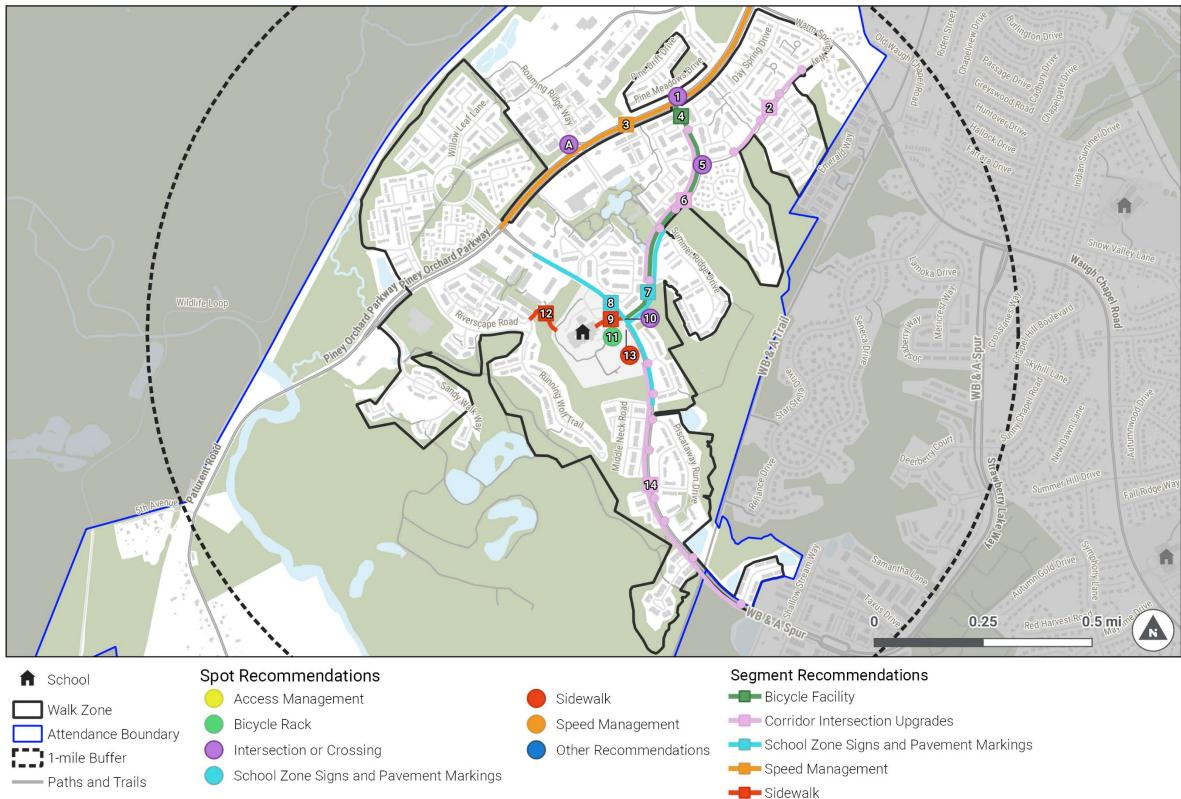


Piney Orchard Elementary School - Pedestrian and Bicycle Crashes



Infrastructure Recommendations Section

Piney Orchard Elementary School - Recommendations



Infrastructure Recommendations within the School Walk Zone

Information contained in this document is for planning purposes and should not be used for final design of any project. All results, recommendations, concept drawings, cost opinions, and commentary contained herein are based on limited data and information and on existing conditions that are subject to change. Further analysis and engineering design are necessary prior to implementing any of the recommendations contained herein.

Map ID	Location	Facility Type	Issue	Recommendation	Potential Cost	Timeframe*
	Piney Orchard Pkwy & Stream Valley Dr / Orchard Knoll Way	1a. Crosswalk	Existing crosswalks on north, west, and south legs are narrow	Remark existing crosswalks to 10ft wide with high-visibility markings.	\$2,400	Short
	(Along key student walking route, Reported school		Crossing of Piney Orchard Pkwy is long	Install median crossing islands	\$3,000	Long
	concern, Inside school zone)		Crossing on east leg is unmarked	Install new high-visibility crosswalk (contingent upon traffic signal)	\$800	Short
			No stop bar on south leg	Mark new stop bar	\$100	Short
		1b. Curb ramp	East and west leg curb ramps missing	Install new ramps	\$8,000	Medium
		Existing curb ramps lack detectable warning surfaces	Reconstruct or repair existing ramps	\$8,000		
		or crossing issues	Neighborhood to the north of Piney Orchard Pkwy is within the school walk zone but busing has been provided due to parent concerns over unsignalized crossing. Stream Valley Dr / Orchard Knoll Way are currently stop controlled.	signal or stop control	N/A	Long



Safe Routes to School (SRTS) Program Recommendations

SRTS education can foster life-long skills for safe walking and bicycling. Education messages directed at the broader school community can help create safety role models and encourage safe driving.

Recommendations

Provide pedestrian and bicycle safety education to students. Conduct age-appropriate education regularly (e.g., annually). Provides opportunities for skills practice. This works best integrated into PE or Health curriculum.

Conduct a bicycle rodeo. Teach children skills related to walking and bicycling safely, which can increase student and parent confidence.

Conduct parent and staff safety education campaign. Distribute information packets to parents and school staff at the beginning of the school year with arrival/dismissal maps, rules and procedures for arrival/dismissal, and general safety info. Emphasize driving safely, being alert for pedestrians and bicyclists, and respecting school crossing guards.

Provide walking and bicycling maps. Show locations of pedestrian/bicycle infrastructure and estimated walk/bike times.

INFRASTRUCTURE RECOMMENDATIONS within the School Walk Zone



Piney Orchard Pkwy & Stream Valley Drive / Orchard Knoll Way, west leg.



The intersections of Casuarina Way with Spring Meadow Drive (left) and Meadow Wood Drive (right) – part of recommendation corridor

Next Steps



- County will finalize prioritized list of recommendations.
- Implementation timeline and funding source will be based on the type of recommendation.
- Schedule yet to be determined.

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QUESTIONS OR COMMENTS? SUBMIT USING

