



DPW & YOU

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Richard Henry Lee Elementary School Safe Routes to School Accessibility Study: Existing Conditions and Recommendations

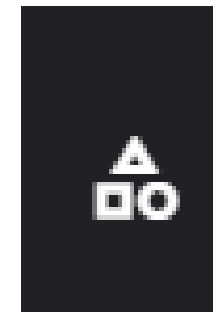
October 10, 2023

Introductions

The screenshot shows the Anne Arundel County website. At the top, there is a navigation bar with links for News, Events, Jobs, Maps, OpenArundel, and Translate. Below this is the county logo and a search bar. The main content area is titled 'Capital Projects' and includes a sub-header 'Safe Routes to Schools'. A 'Project Documents / Videos' section is highlighted, listing various accessibility study reports for different schools, such as 'Waugh Chapel ES.pdf', 'Tyler Heights ES.pdf', and 'Sunset ES.pdf'. A 'Project Description' section is also visible, mentioning a contract to study existing conditions and prioritize infrastructure improvements.

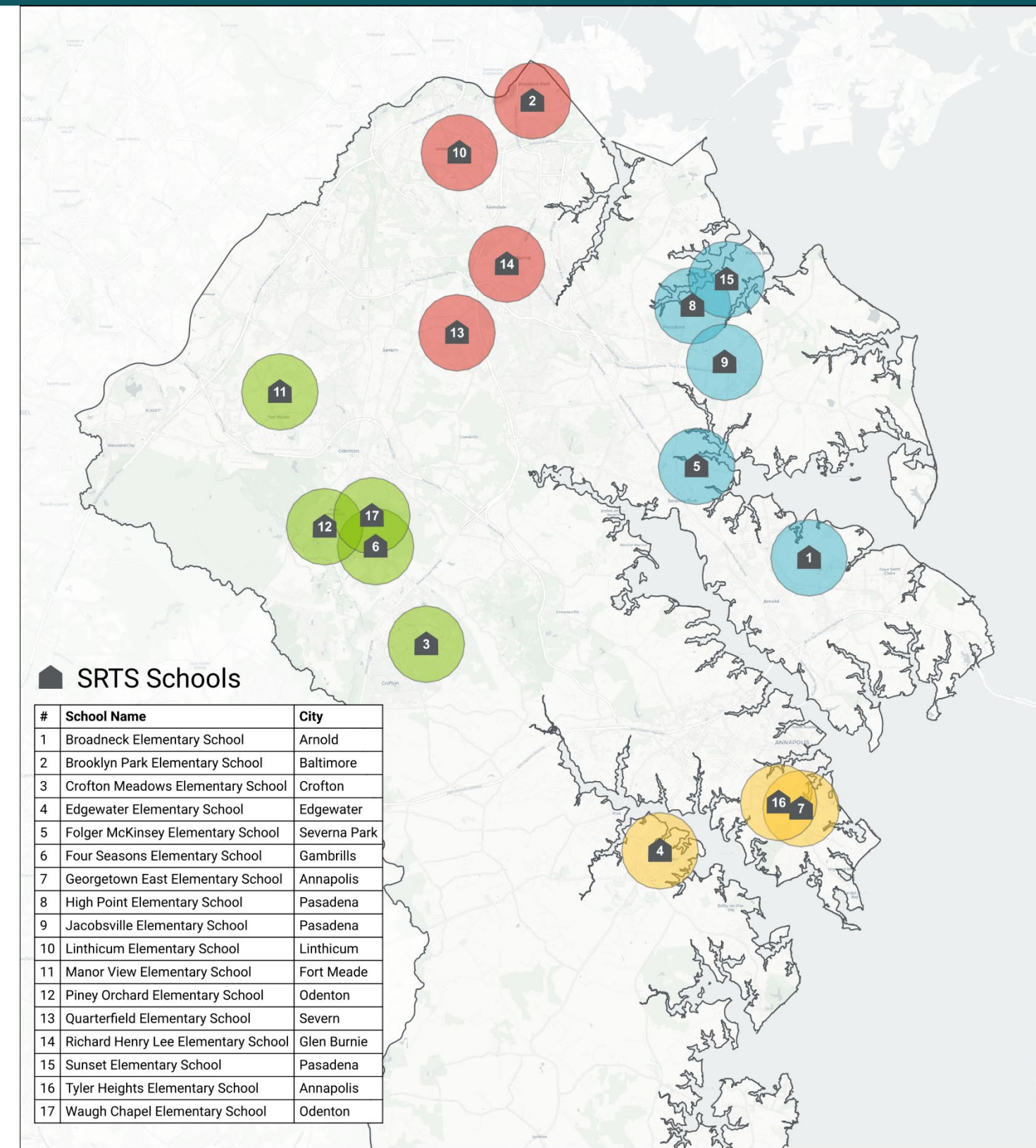
To view full report and provide input,
please visit
<https://tinyurl.com/srtsaacounty>

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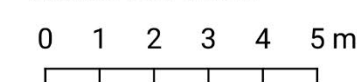
Anne Arundel Safe Routes to School Accessibility Study

- 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 1-mile Buffer Zones

SRTS Schools



- East
- North
- South
- West

Richard Henry Lee Elementary Accessibility Study

Report findings are derived from:

School site visits	<ul style="list-style-type: none">• Observed school arrival and dismissal – December 5, 2022• Assessed pedestrian and bicycle infrastructure within school walk zone and roads immediately adjacent (as connectivity allows) – December 5, 2022
Parent Survey	<ul style="list-style-type: none">• January 26 - February 19, 2023• Available online: English, Spanish, Chinese, and Korean• Survey link was provided via email

Report Content

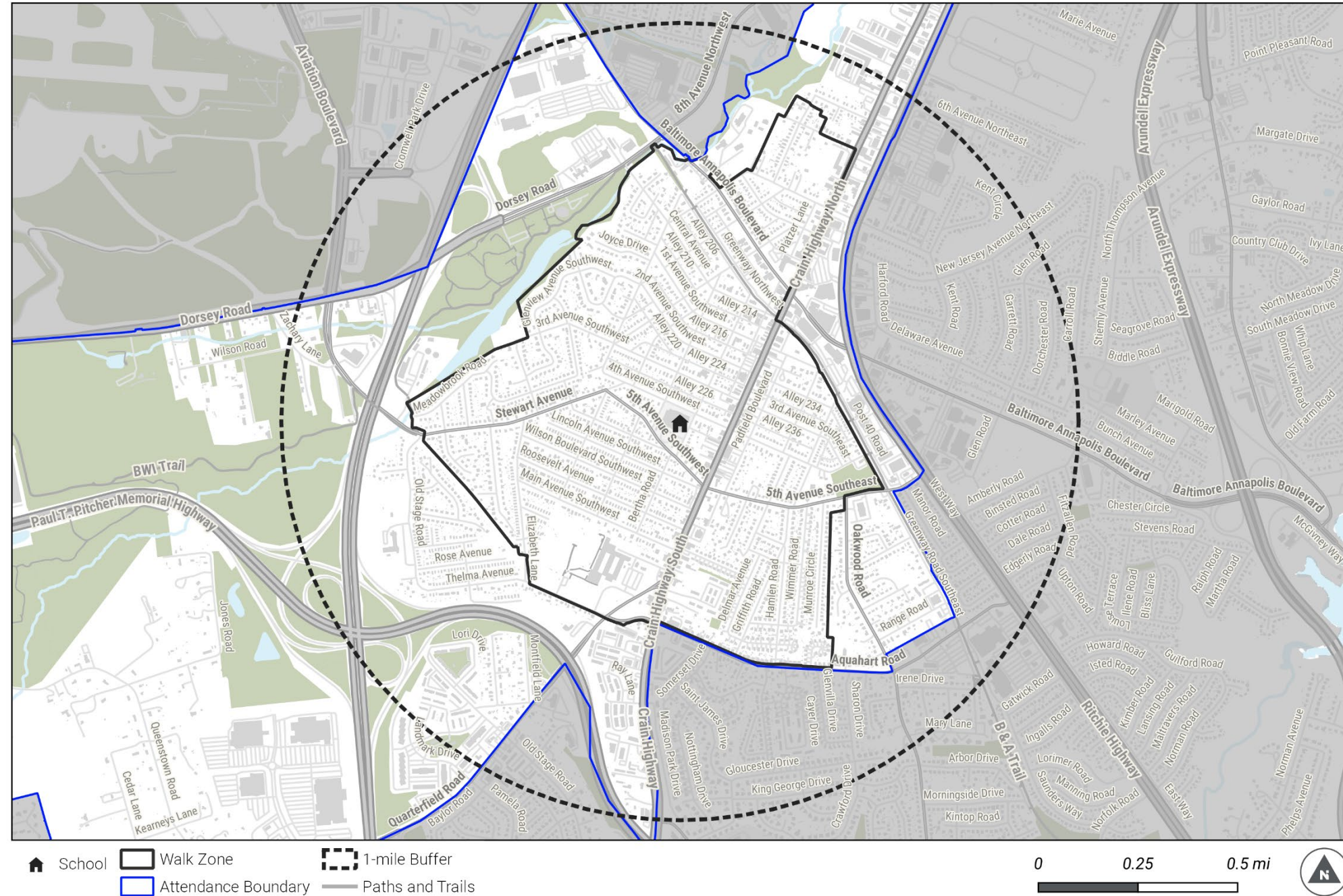
1. School overview
2. Parent-reported student travel modes and barriers
3. Arrival and dismissal observations
4. Existing infrastructure conditions
5. Crash data
6. Infrastructure recommendations
7. Programmatic recommendations
8. Appendix: Infrastructure recommendation photos

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School Overview Section

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

Richard Henry Lee Elementary School - 1-mile Radius



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 Home to School	
Distance	Number of Respondents
< ¼ mile	1
¼ mile – ½ mile	2
½ mile – 1 mile	5
1 mile – 1 ½ miles	3
>1 ½ miles	3

Richard Henry Lee Elementary - 15 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)



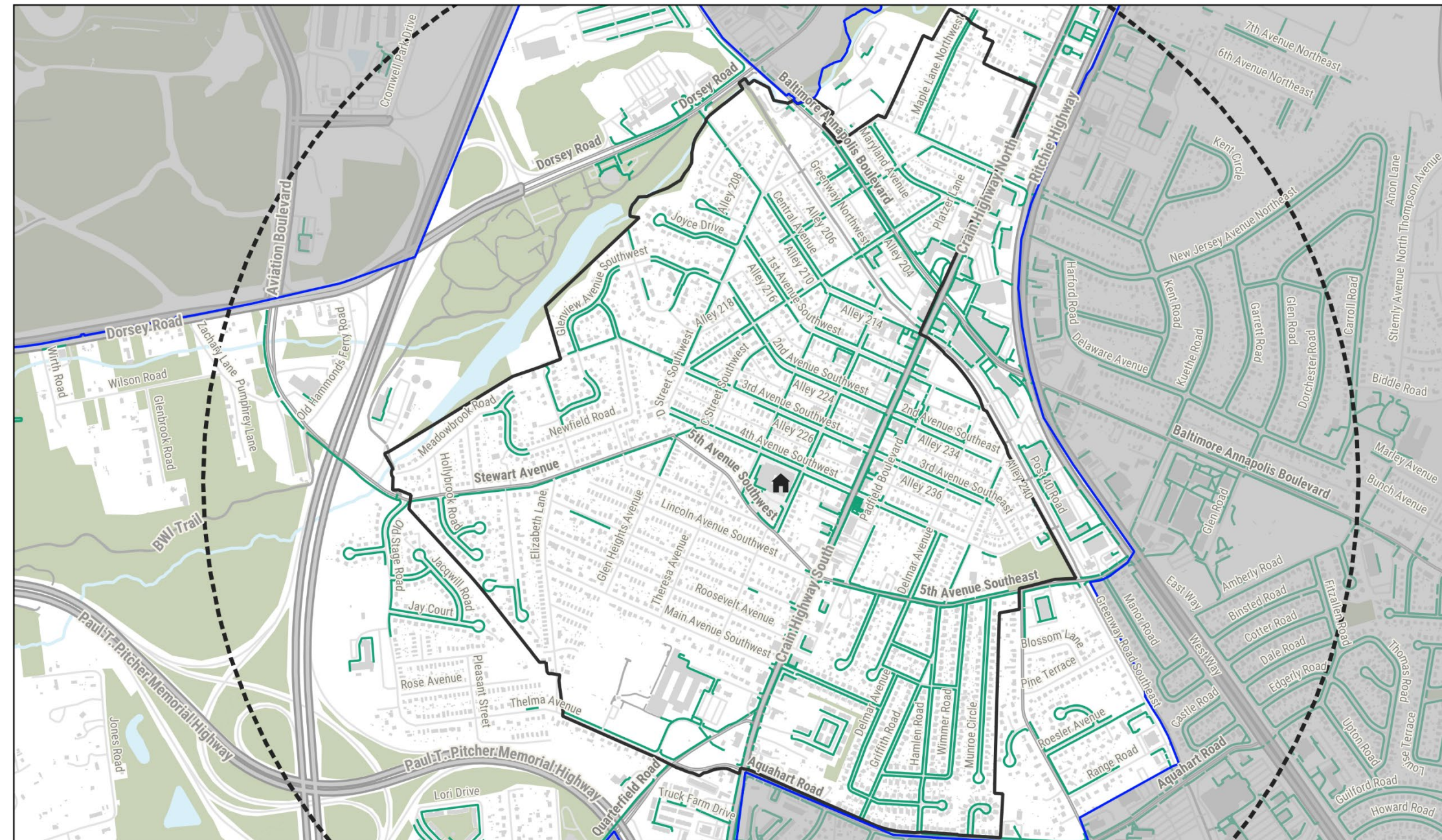
The crossing guard at 4th Ave SW & A Street SW during arrival

Existing Infrastructure Conditions Section

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

*Existing, planned, or programmed

Richard Henry Lee Elementary School - Existing Sidewalk Network



- 🏠 School
 - 📏 Walk Zone
 - 📐 Attendance Boundary
 - 📏 1-mile Buffer
 - 🟢 Sidewalks
- Source: OpenArundel

0 0.25 0.5 mi



Crash Data (2017 – 2021)

Crashes within 1-mile radius of the school*:

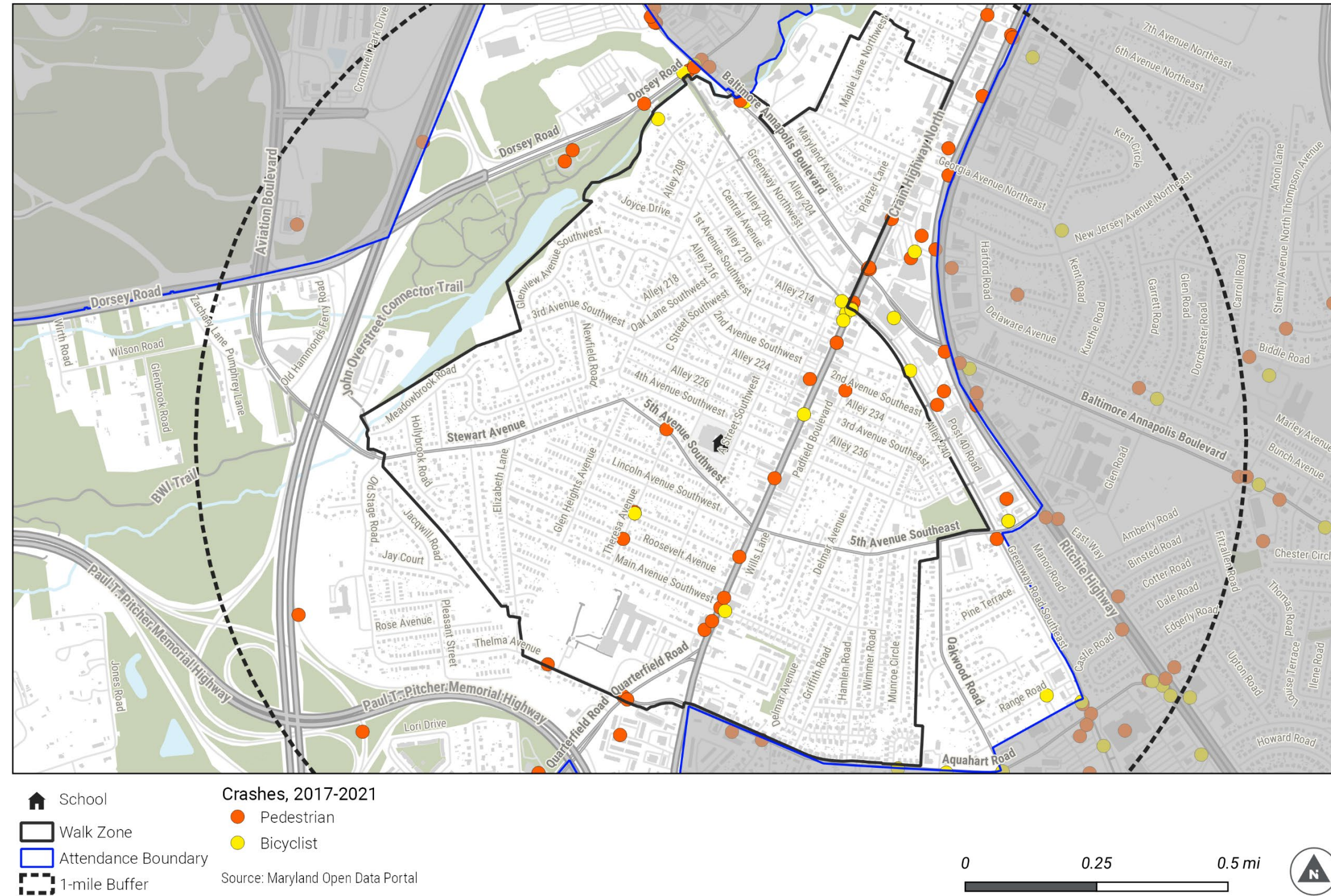
- 2,453 total crashes (all modes), 10 fatal
- 88 pedestrian-involved crashes, 83 resulting in injury, 3 fatal
- 31 bicyclist-involved crashes, 23 resulting in injury, 0 fatal

*Includes interstate crashes

Pedestrian and bicyclist crashes within the walk zone:

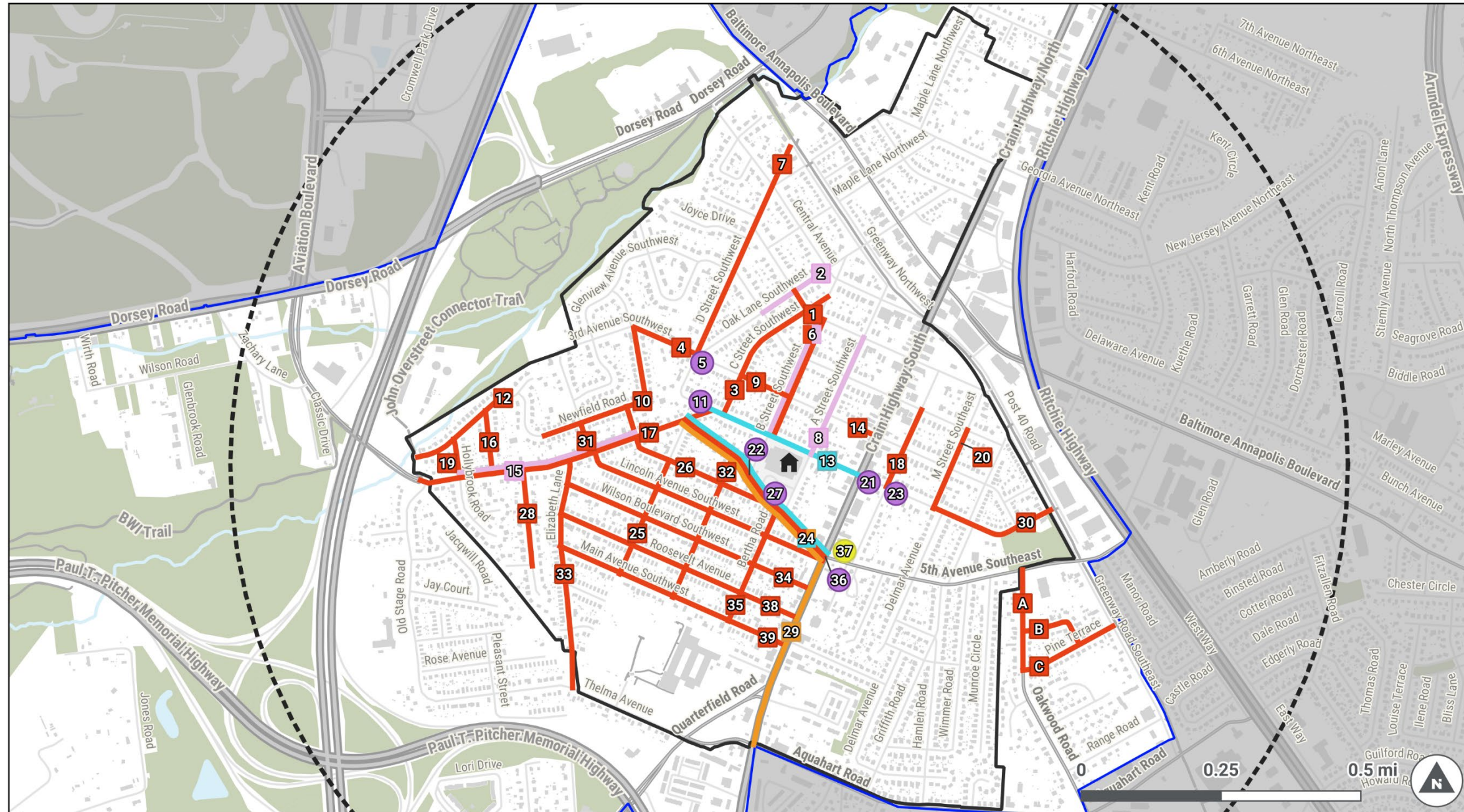
- 16 pedestrian-involved and 9 bicyclist-involved crashes occurred in the walk zone.

Richard Henry Lee Elementary School - Pedestrian and Bicycle Crashes



Infrastructure Recommendations Section

Richard Henry Lee Elementary School - Recommendations



- | | | | |
|---------------------|---|-----------------------|---|
| School | Spot Recommendations | Sidewalk | Segment Recommendations |
| Walk Zone | Access Management | Speed Management | Bicycle Facility |
| Attendance Boundary | Bicycle Rack | Other Recommendations | Corridor Intersection Upgrades |
| 1-mile Buffer | Intersection or Crossing | | School Zone Signs and Pavement Markings |
| Paths and Trails | School Zone Signs and Pavement Markings | | Speed Management |
| | | | Sidewalk |

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*
1	1st Ave SW (B St SW to Oak Ln SW)	Sidewalk	Missing sidewalk (north)	Install new sidewalk**	\$14,238	Long
2	Oak Ln NW (2nd Ave SW to Central Ave)	2a. Crosswalk	Stop-controlled crossings of Oak Ln at 2nd Ave SW, 1st Ave SW, and Central Ave SW are unmarked	Install new standard crosswalks	\$3,000	Short
		2b. Curb Ramp	Missing curb ramps at the crossings of Oak Ln at 2nd Ave SW, 1st Ave SW, and Central Ave SW	Install new ramps	\$48,000	Medium
3	C St SW (Alley 214 to 4th Ave SW)	Sidewalk	Missing sidewalk (both sides)	Install new sidewalk	\$123,205	Long
4	3rd Ave SW (D St SW to Newfield Rd)	Sidewalk	Missing sidewalk (south)	Install new sidewalk	\$25,761	Long

*Short (1 year), medium (2-3 years) or long term (3+ years)

**Note that at locations where installation of new sidewalks is recommended, high-visibility crosswalks, ADA compliant curb ramps, and stop bars should be installed at intersecting streets to facilitate crossings and encourage motor vehicle yielding.

Additional Considerations

Numerous pedestrian and bicycle crashes occurred on Crain Highway between 2017-2021. Crain Highway spans the walk zone for both Richard Henry Lee Elementary School and Corkran Middle School. For long-term planning, the County could explore a road diet on Crain Highway and significant pedestrian and bicycle facility improvements along the corridor, including at key crossing locations. There is a recommendation for a shared use path on 5th Avenue in Walk & Roll Anne Arundel. Construction of this shared use path would improve connectivity for students living east of Crain Highway.



Intersection of Crain Highway and Main Street SW. Multiple pedestrian and bicyclist crashes occurred in this area between 2017-2021.



5th Ave SE

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



4th Ave SW, at the rear entrance of the school building



3rd Ave SW, between Crain Highway S and Platzer Lane SW

Next Steps



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- 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

