



DPW & YOU

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Waugh Chapel Elementary School Safe Routes to School Accessibility Study: Existing Conditions and Recommendations

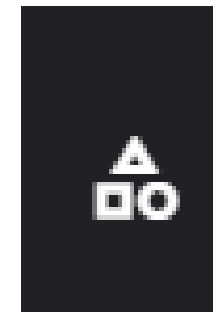
October 26, 2023

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 Anne Arundel 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.

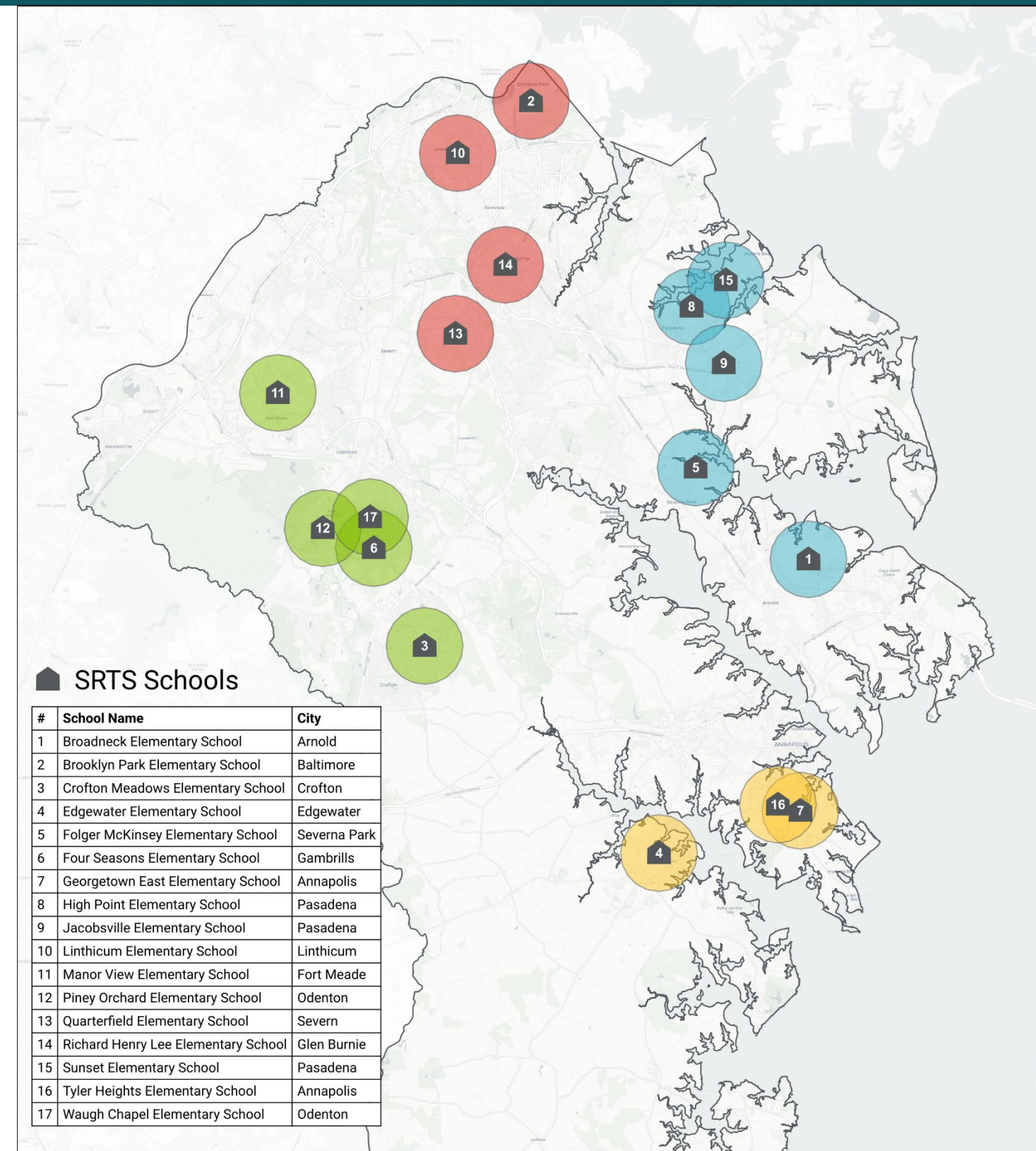
To view full report and provide input,
please visit
<https://tinyurl.com/srtsaacounty>

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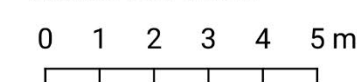
Anne Arundel Safe Routes to School Accessibility Study

- 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

Waugh Chapel Elementary Accessibility Study

Report findings are derived from:

School site visits	<ul style="list-style-type: none">• Observed school arrival and dismissal – October 27, 2022• Assessed pedestrian and bicycle infrastructure within school walk zone and roads immediately adjacent (as connectivity allows) – October 27, 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

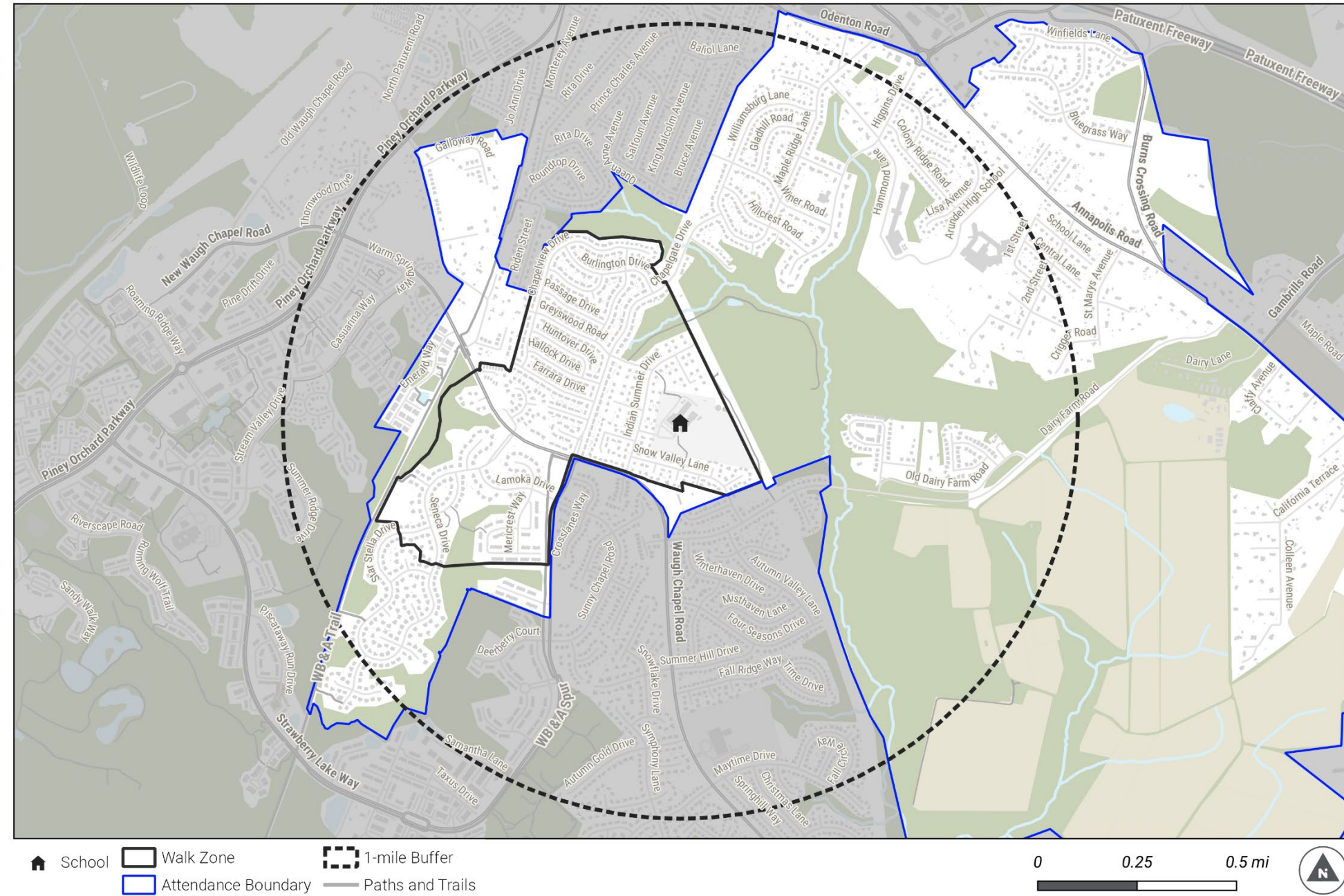
1. School overview
2. Parent-reported student travel modes and barriers
3. Arrival and dismissal observations
4. Existing infrastructure conditions
5. Crash data
6. Infrastructure recommendations
7. Programmatic recommendations
8. Appendix: Infrastructure recommendation photos

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School Overview Section

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

Waugh Chapel 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	10
¼ mile – ½ mile	12
½ mile – 1 mile	11
1 mile – 1 ½ miles	16
>1 ½ miles	19

Waugh Chapel Elementary - 68 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)



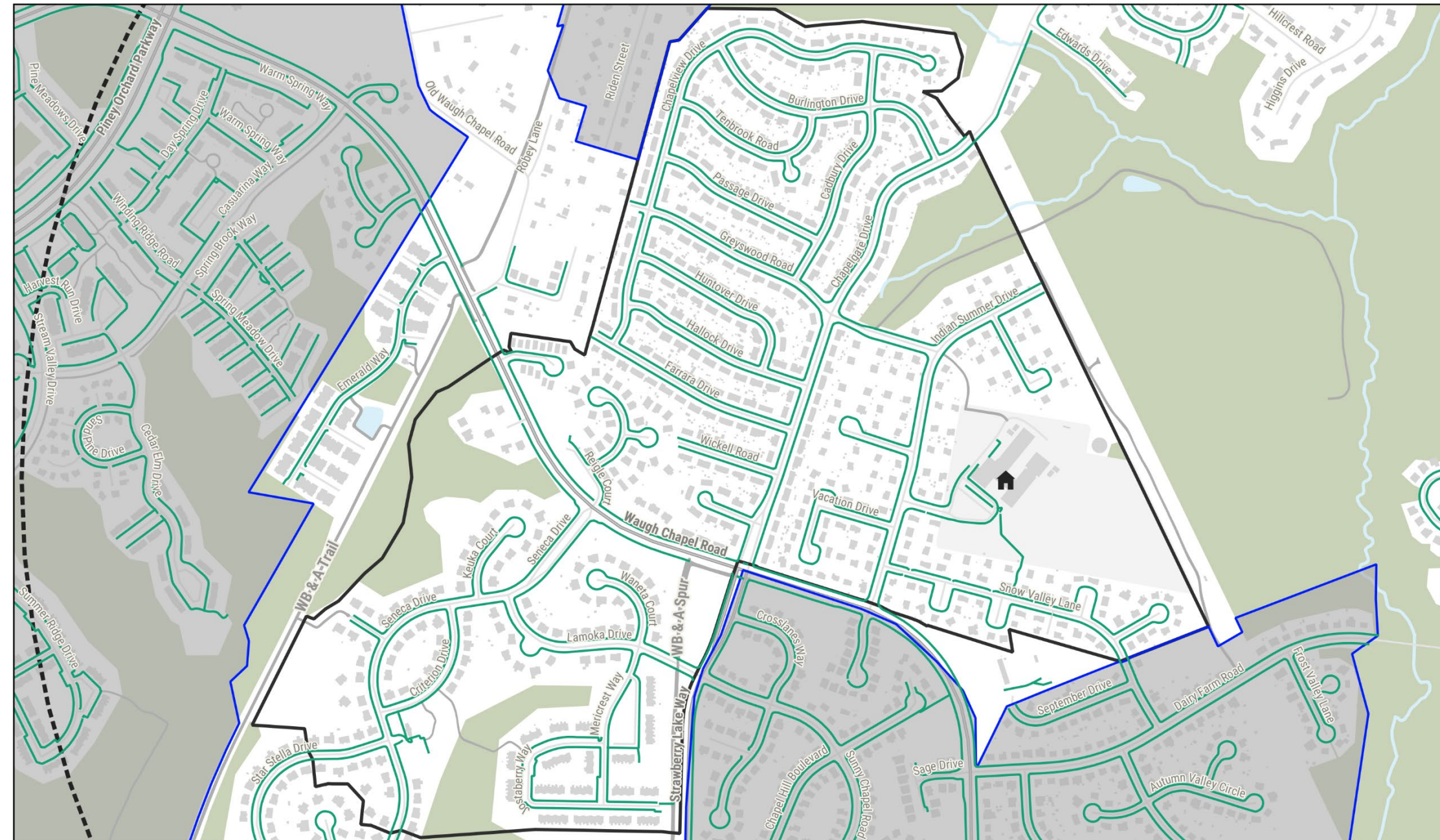
Walkers are seen coming from the sidewalk and the informal paths.

Existing Infrastructure Conditions Section

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

**Existing, planned, or programmed*

Waugh Chapel Elementary School - Existing Sidewalk Network



- 🏠 School
 - ▭ Walk Zone
 - ▭ Attendance Boundary
 - ⋯ 1-mile Buffer
 - Sidewalks
- Source: OpenArundel

Crash Data (2017 – 2021)

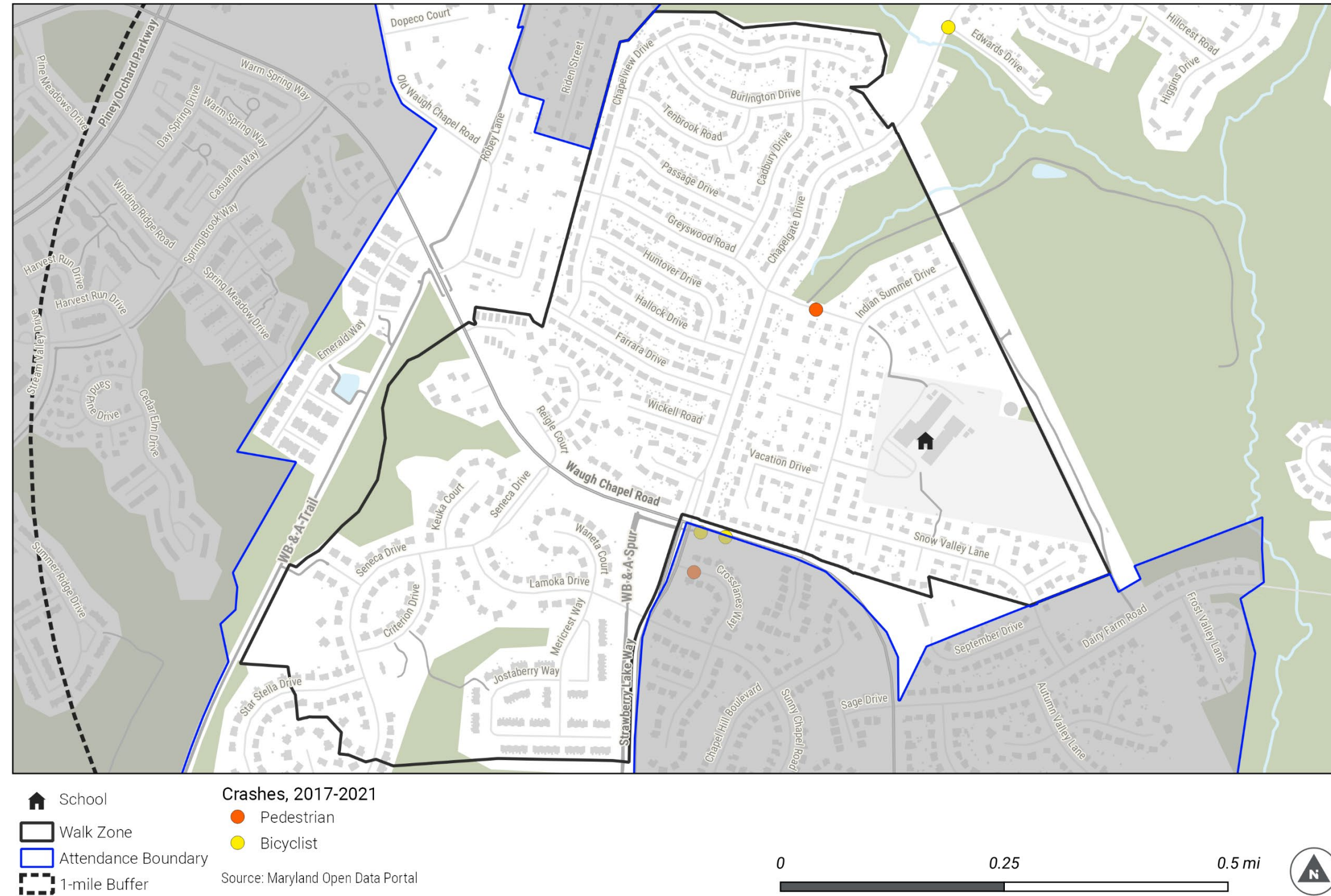
Crashes within 1-mile radius of the school:

- 251 total crashes (all modes)
- Five pedestrian-involved crashes, four resulting in injury
- Six bicyclist-involved crashes, all resulting in injury

Pedestrian and bicyclist crashes within the walk zone:

- One pedestrian-involved crash occurred in the walk zone on Greyswood Drive just west of Indian Summer Drive.

Waugh Chapel Elementary School - Pedestrian and Bicycle Crashes



Infrastructure Recommendations Section

Waugh Chapel 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 | Speed Management |
| Paths and Trails | School Zone Signs and Pavement Markings | 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	Indian Summer Dr & Greyswood Rd (Along key student walking route, Inside the school zone)	1a. Curb ramp	All curb ramps lack detectable warning surface.	Reconstruct or repair existing ramps.	\$12,000	Medium
		1b. Crosswalk	Crossing of Greyswood Rd is unmarked, No stop bar	Mark new stop bar and install new standard crosswalk on Greyswood Rd.	\$500	Short
			Existing crosswalk across Indian Summer Dr is narrow.	Remark existing crosswalk to 10ft wide with high-visibility markings.	\$800	
		1c. Other intersection or crossing issues	Concern about motor vehicle turning speeds (turning onto Greyswood Rd).	Install curb extensions or curb radius reduction.	\$8,000	Long
	School crossing signs exist but are bent and/or hidden and not aligned with crossing.			Relocate/reinstall school crossing signs.	\$500	Short
2	Trail from school property to Knob Ct (Along key student walking route)	Sidewalk	90-degree corner raised above surrounding ground; exposed edge presents a tripping hazard.	Fill in curve or raise surrounding ground.	\$23,470	Long

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

Additional Considerations

While Chapelgate Drive north of Burlington Drive contains a sidewalk on the east side, the walking distance to Waugh Chapel Elementary from houses along Edwards Drive are approaching one mile. This distance may be bikeable, but vehicles speeds and lack of separated bicycle facilities may present a barrier to active travel to school. For long-term planning, the County could explore separated bike lanes or a shared use path on Chapelgate Drive north of Burlington Drive. Additionally, there is a shared use path recommended for Waugh Chapel Road in Walk and Roll Anne Arundel. Construction of this shared use path could increase bicycle connectivity to the school for students living off Waugh Chapel Road.



View of Chapelgate Drive north of Burlington Drive
via Google Maps

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



Indian Summer Drive, looking North. Greyswood Rd to the left.



The paved formal path on the north end of the school campus, connecting to Indian Summer Drive.

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.

To view full report and provide input,
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QUESTIONS OR COMMENTS?

SUBMIT USING

