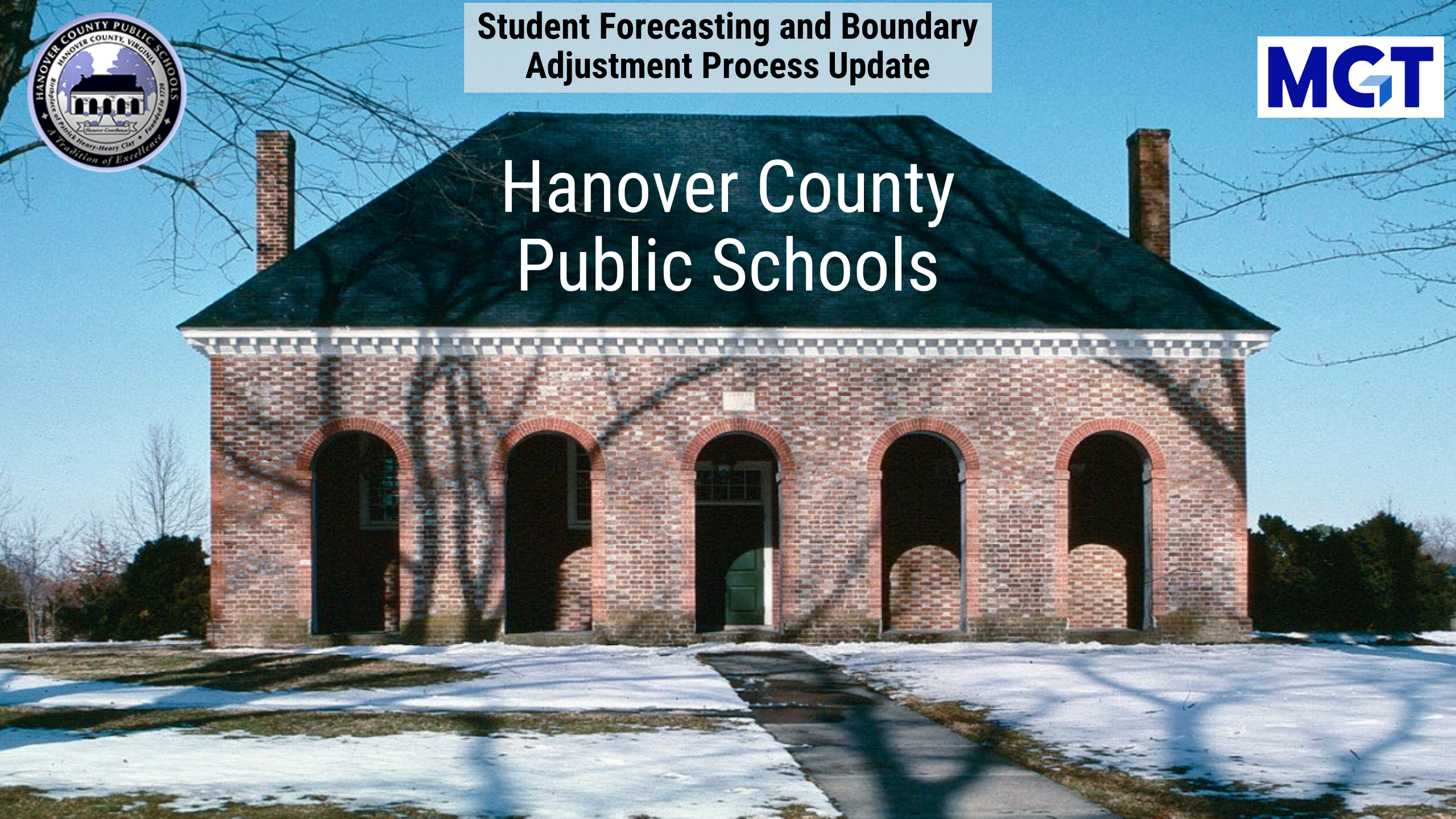




Student Forecasting and Boundary Adjustment Process Update



Hanover County Public Schools





Agenda

- **Demographic and Economic Review**
- **Forecasting Methodology**
- **Residence vs. Enrollment**
- **Capacity and Utilization**
- **Student Forecasts**
- **Guiding Principles**
- **Attendance Areas and Feeder Patterns**



Boundary Review Framework and Timeline

Initiation

Data gathering
Capacity Analysis
Enrollment patterns
Board kick-off

August – September
2024

Preparation

Student forecasts
Understand the issues
Define guiding principles
Preliminary boundary
options

October - December
2024

Boundary Options

Iterative scenarios
Community forum
Community feedback
Refine boundary
options

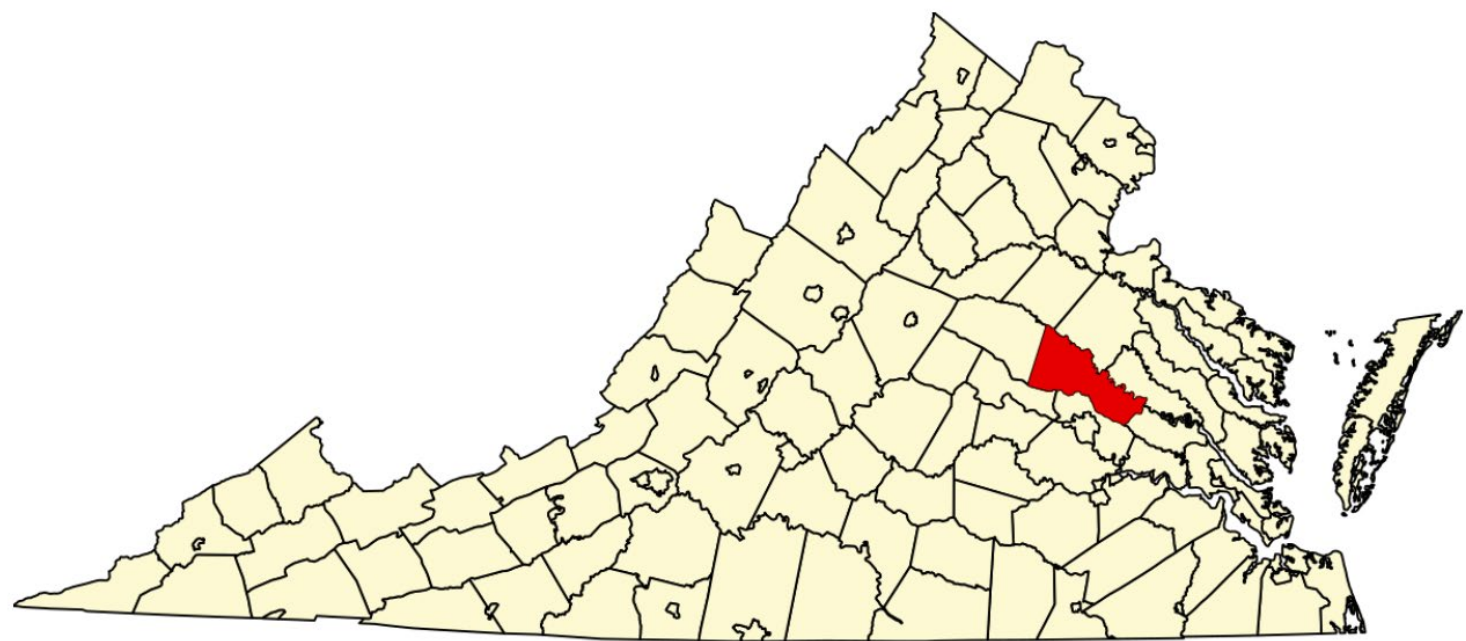
January - February
2025

Final Boundary Option

Final recommendation
Maps and reports
Board engagement and
vote

March - April
2025

Demographic Overview



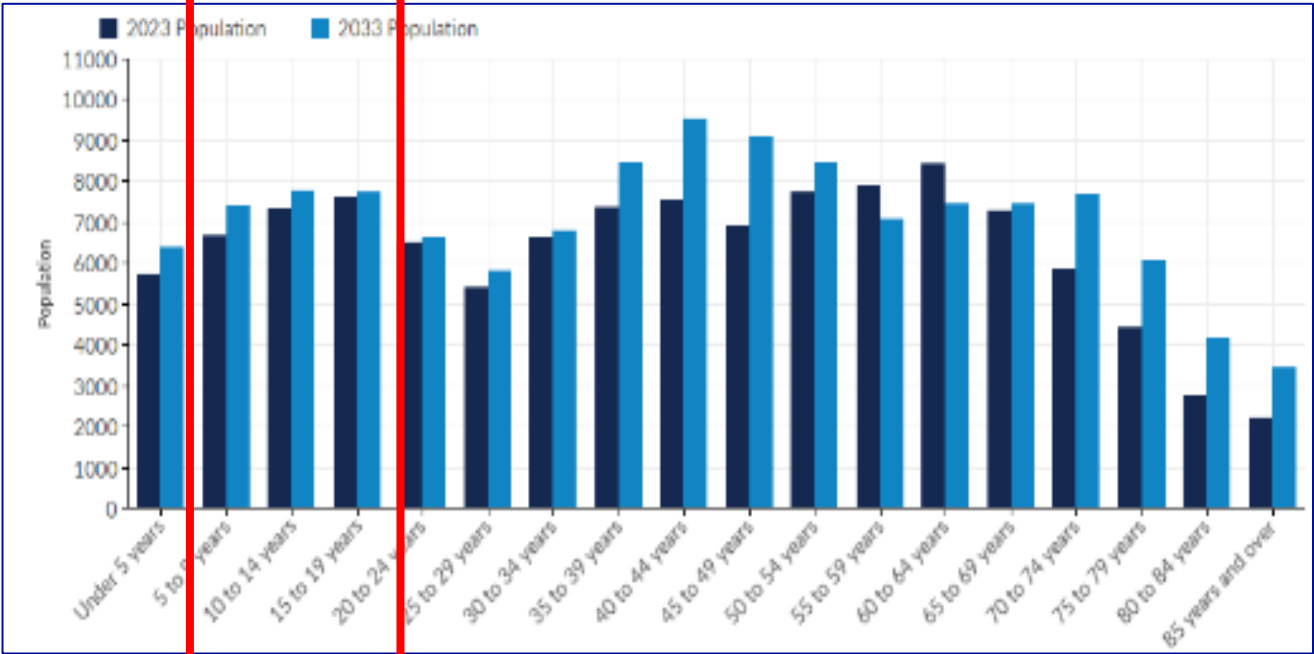
Map of Hanover County, Virginia

Area	2023 Population	2033 Population	Change	% Change
Hanover County	114,148	127,289	13,141	12%
State	8,715,698	9,084,797	369,099	4%
Nation	334,914,895	349,780,076	14,865,181	4%

Source: LIGHTCAST, 2024 Data Set.

Population by Age Hanover County

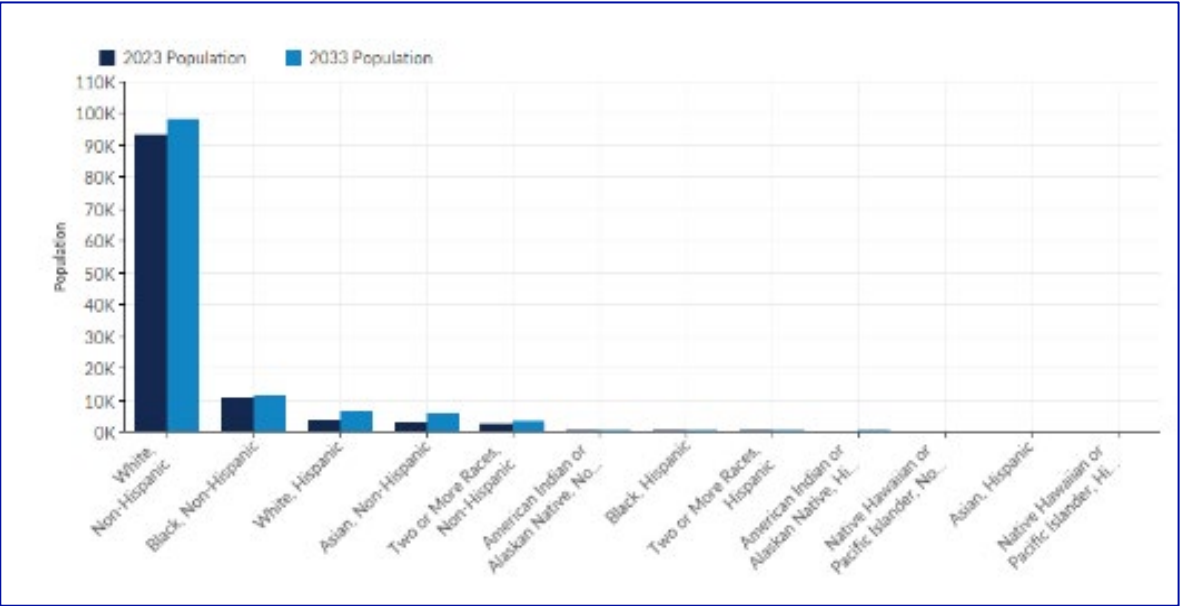
Age Cohort	2023 Population	2033 Population	Change	% Change	2033 % of Cohort
Under 5 years	5,733	6,366	633	11%	5%
5 to 9 years	6,657	7,383	726	11%	6%
10 to 14 years	7,300	7,776	476	7%	6%
15 to 19 years	7,597	7,711	114	1%	6%
20 to 24 years	6,483	6,623	140	2%	5%
25 to 29 years	5,381	5,797	416	8%	5%
30 to 34 years	6,622	6,808	186	3%	5%
35 to 39 years	7,374	8,462	1,088	15%	7%
40 to 44 years	7,506	9,530	2,024	27%	7%
45 to 49 years	6,924	9,073	2,149	31%	7%
50 to 54 years	7,742	8,476	734	9%	7%
55 to 59 years	7,906	7,064	(842)	(11%)	6%
60 to 64 years	8,409	7,427	(982)	(12%)	6%
65 to 69 years	7,276	7,443	167	2%	6%
70 to 74 years	5,855	7,693	1,838	31%	6%
75 to 79 years	4,428	6,060	1,632	37%	5%
80 to 84 years	2,749	4,168	1,419	52%	3%
85 years and over	2,206	3,429	1,223	55%	3%
Total	114,148	127,289	13,141	12%	100%



Source: LIGHTCAST, Q1 2024 Data Set.

Population by Race/Ethnicity Hanover County

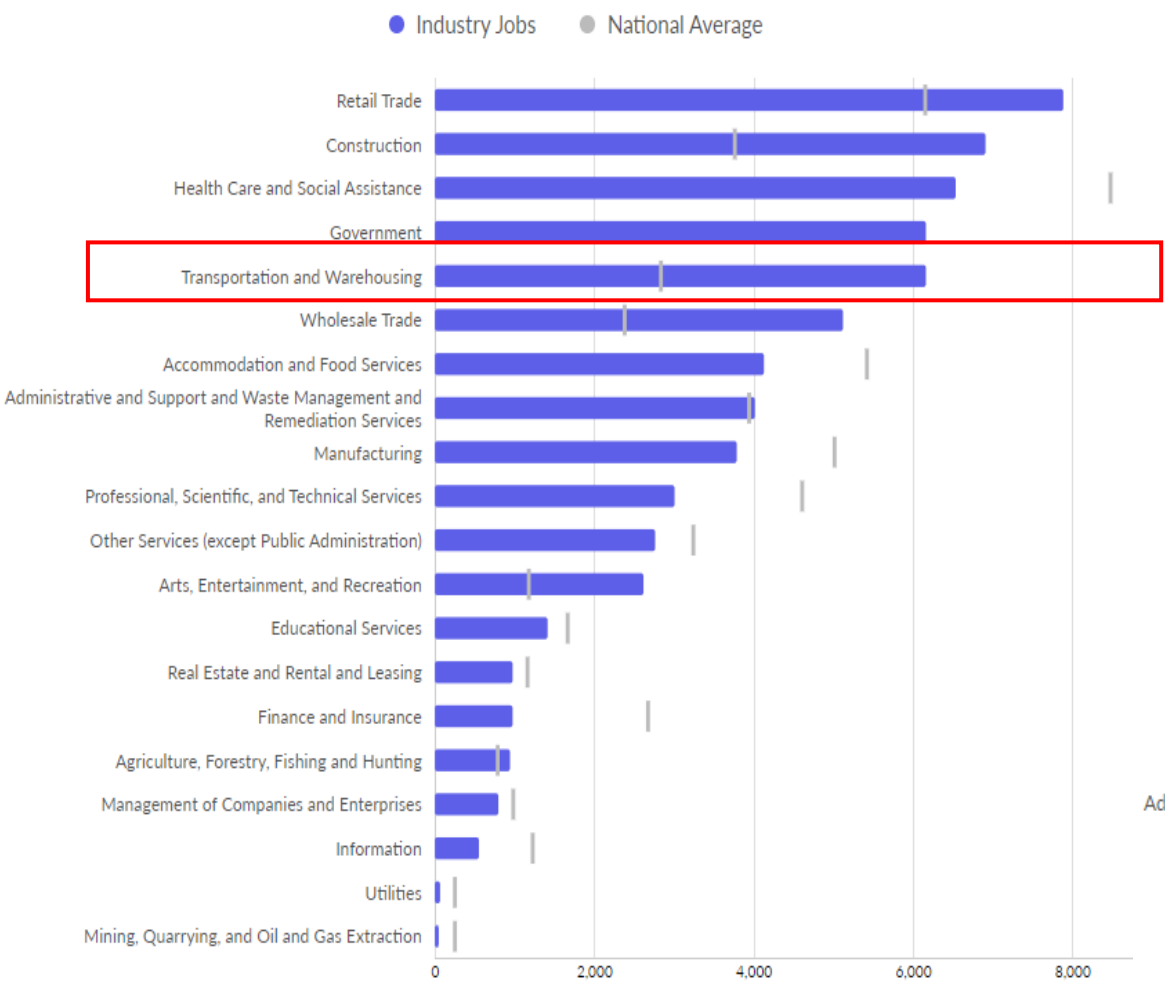
Race/Ethnicity	2024 Population	2033 Population	Change	% Change	2033 % of Cohort
White, Non-Hispanic	93,142	98,136	4,994	5%	77%
Black, Non-Hispanic	10,487	11,296	809	8%	9%
White, Hispanic	3,802	6,642	2,840	75%	5%
Asian, Non-Hispanic	2,969	5,767	2,798	94%	5%
Two or More Races, Non-Hispanic	2,355	3,408	1,053	45%	3%
American Indian or Alaskan Native, Non-Hispanic	401	436	35	9%	0.3%
Black, Hispanic	376	577	201	53%	0.5%
Two or More Races, Hispanic	231	391	160	69%	0.3%
American Indian or Alaskan Native, Hispanic	185	273	88	47%	0.2%
Native Hawaiian or Pacific Islander, Non-Hispanic	83	152	69	84%	0.1%
Asian, Hispanic	71	122	51	72%	0.1%
Native Hawaiian or Pacific Islander, Hispanic	46	89	43	93%	0.1%
Total	114,148	127,289	13,141	12%	100%



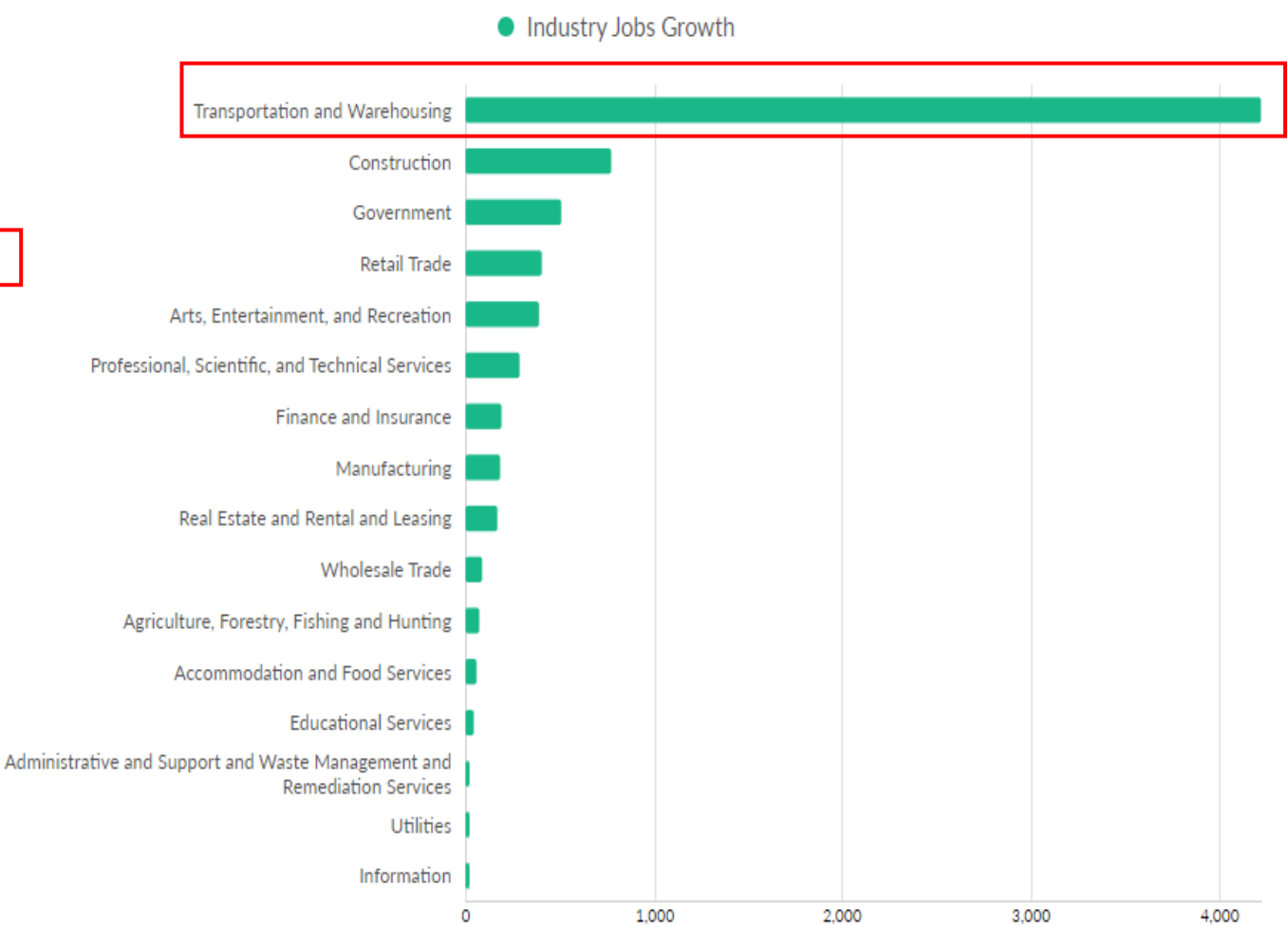
Source: LIGHTCAST, Q1 2024 Data Set.

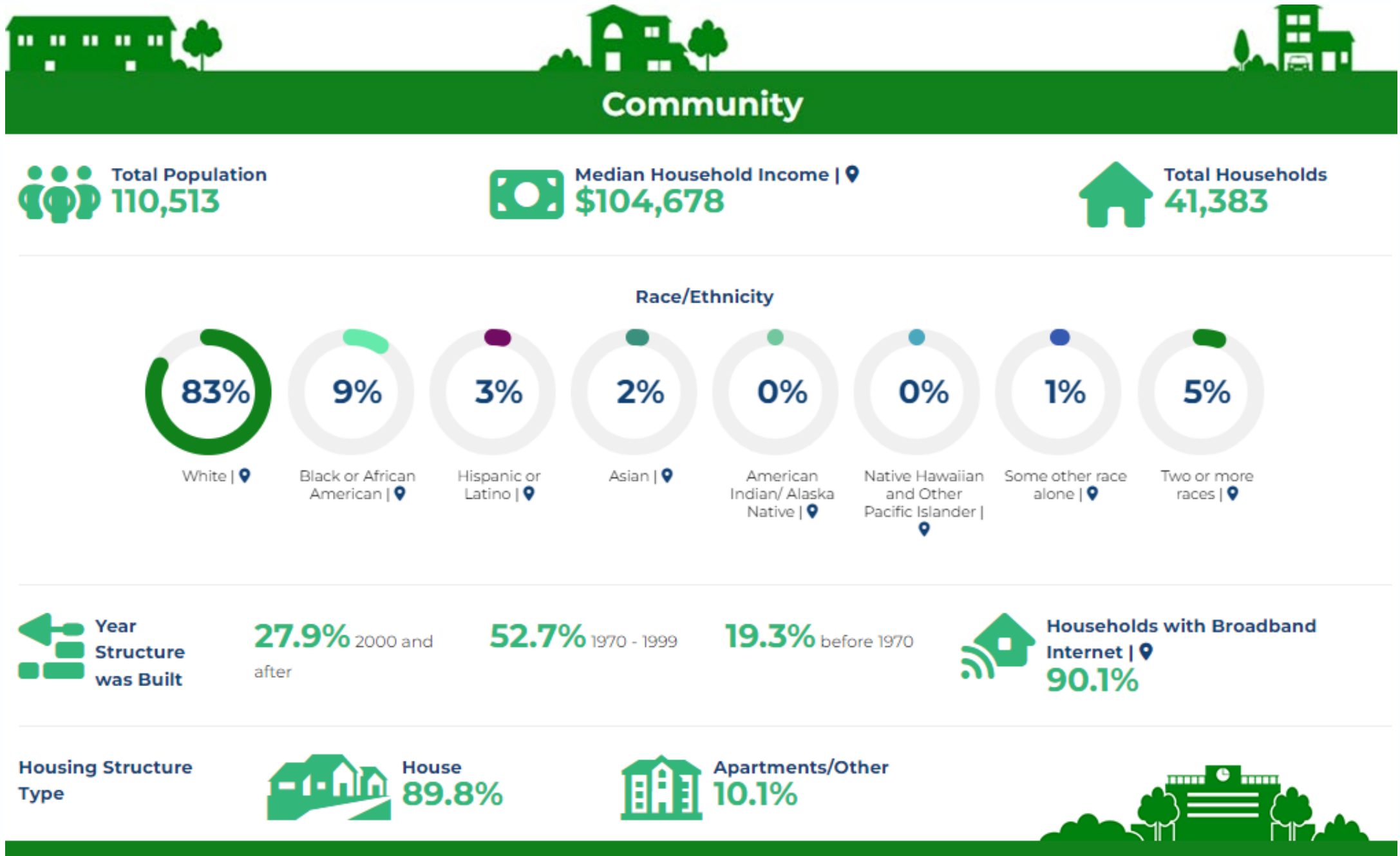
Top Hanover Co. Industries

Top Largest Industries Hanover Co.



Top Growth Industries Hanover Co.





Parents (of children in public school)



Median Income of Households | 📍

\$136,324

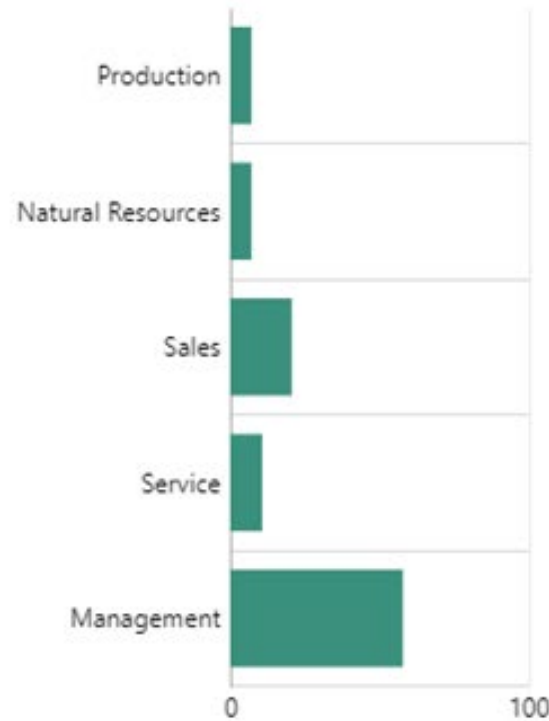


Housing Status of Families

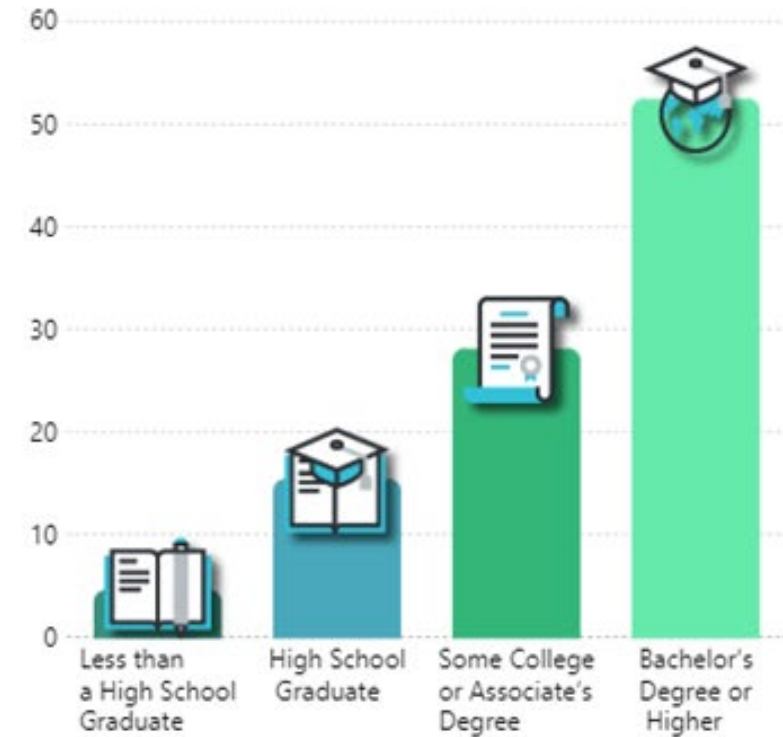
16.7% renter - occupied | 📍

83.3% owner-occupied | 📍

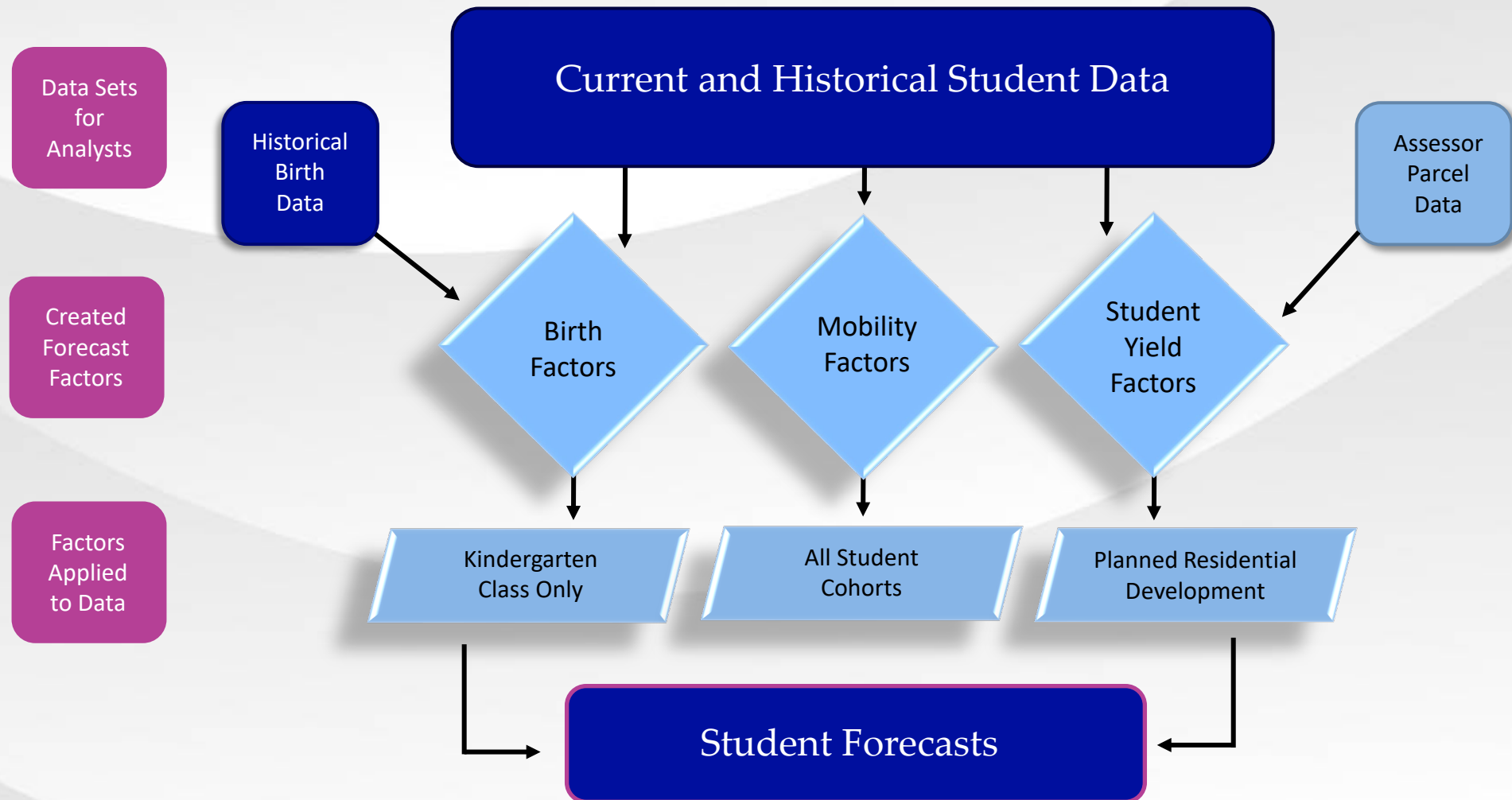
Labor Force Status



Educational Attainment



Student Projections Flowchart



Thinking Spatially – “Communities of Mutual Interest”

1. Verification

Data Verification

Student Data - SY 2024-2025

File Name: DD Davis Data SIS and School

Total Student Records: 16903

Valid Lat/Long Field: 16383

*Invalid, Empty Lat/Long: 520

Data Fields Provided In File

The following fields were included in the file you provided. If additional fields are necessary to correctly identify students in various categories or programs for boundary planning or other types of analysis deemed important by the District, immediately notify Davis Demographics and send a new complete student data file with the added fields.

School ID
Home Address Street
Home Address City
Home Address Zip
Long

Lat
SPED
FIR Lunch
Race + Ethnicity
ELL

Mokimney-Vento

Attribute Details

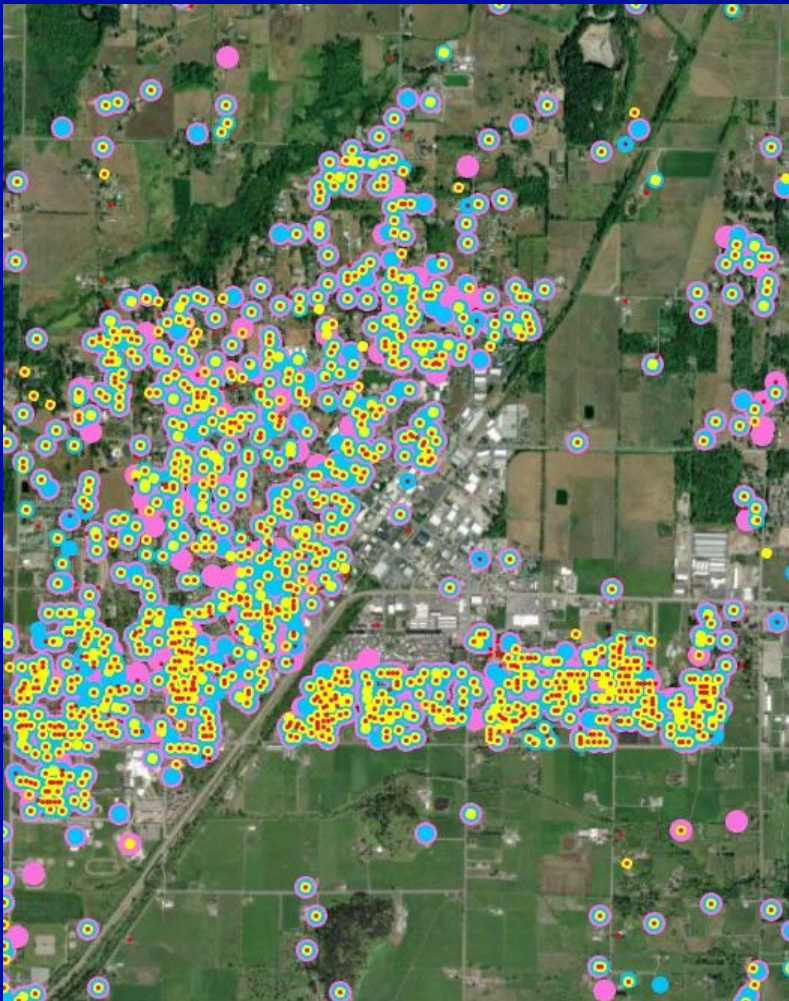
School Name	Student Count by Grade and Enrollment																Total Enrl
	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	
Ashland ES	1	14	31	99	116	96	106	110	96								669
Ashe HS													357	363	388	349	1,457
Bullwaded Park ES			14	18	60	56	67	58	72	62							407
Beaverdam ES	5		18	55	59	36	87	48	66								342
Bel Creek MS										255	328	313					896
Chickahominy MS										406	374	415					1,195
Cold Harbor ES	2	10	8	78	77	81	89	69	84								498
Cool Spring ES	11	3	11	149	140	125	145	156	137								877
Elmont ES		15	23	53	55	44	64	56	68								378
Harrover HS													345	360	306	333	1,344
Kersey Creek ES			5	6	109	96	103	107	127	131							683
Laural Meadow ES	1	11	19	76	94	86	116	91	98								582
Liberty MS										301	314	290					905
Mechanicsville ES	2	16	35	87	89	88	105	69	94								595
Mechanicsville HS													283	296	323	328	1,232
Oak Knoll MS										293	279	290					862
Patrick Henry HS													327	309	323	336	1,295
Pearsons Corner ES		7	21	81	71	87	90	102	109								568
Pole Green ES	5	4	1	80	63	95	90	87	92								537
Private Placement Elementary						2	2	1	6								11
Private Placement Secondary										5	4	11	6	9	2	16	53
Rural Point ES	2	1	5	102	118	107	99	100	104								638
South Anna ES		2	2	61	61	70	75	82	75								448
The Georgetown School											3	4	7	8	4	14	40
Transition School			2	1													3
Washington Henry ES		4	23	57	59	42	78	61	64								388
Total	29	108	222	1,167	1,173	1,129	1,281	1,229	1,286	1,260	1,302	1,323	1,325	1,347	1,344	1,376	16,903

 **DAVIS**
DEMOCRAPHICS

 **MGT**

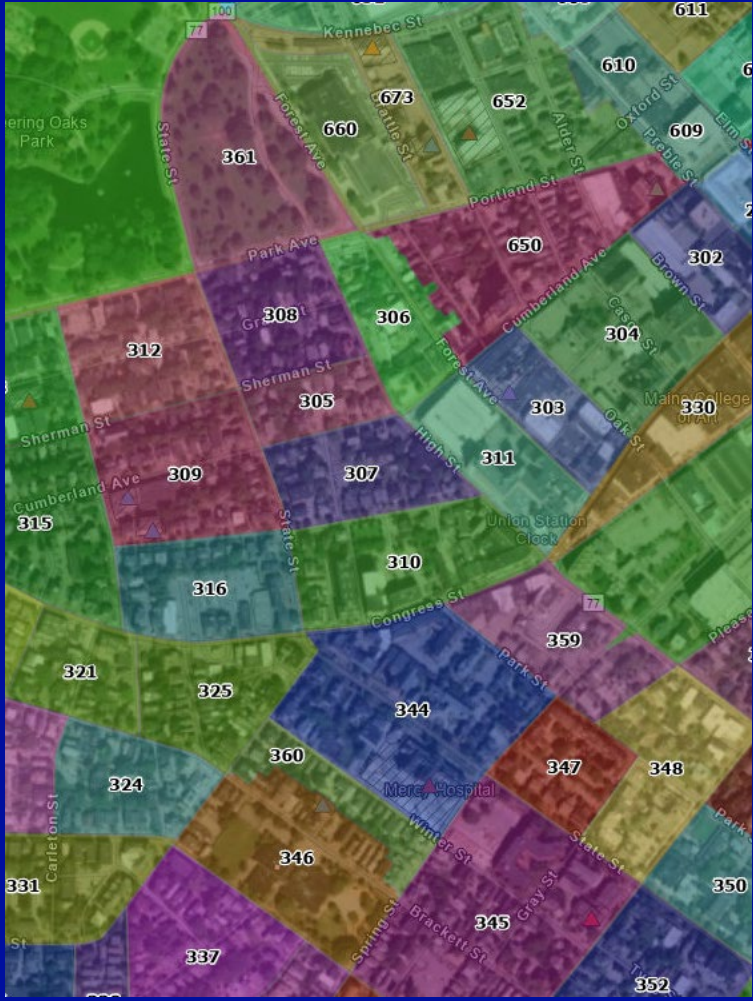
2

2. Place Students



Each Point is a Student

3. Analysis

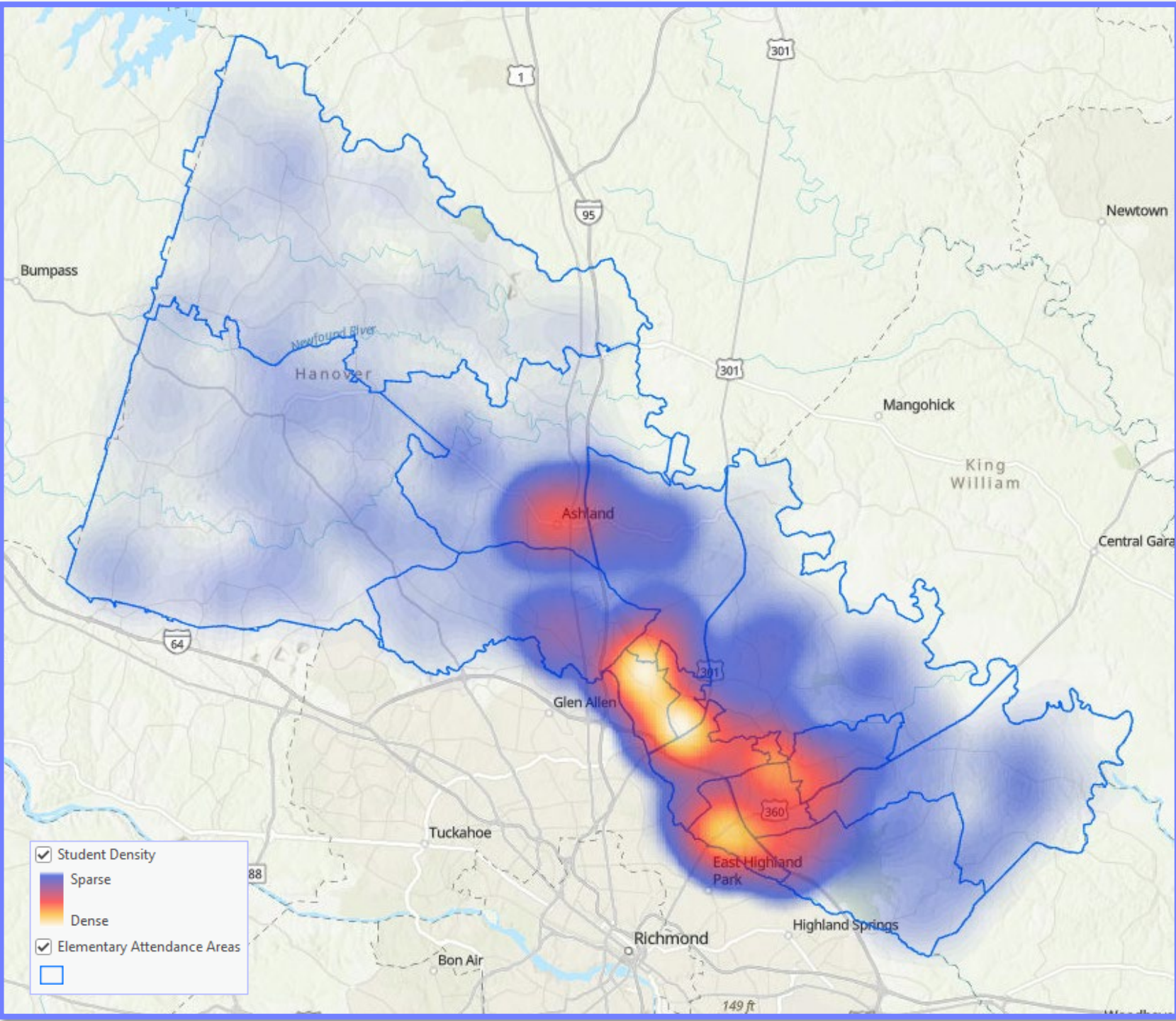


Division cut into 448 Study Areas

Data is Verified by HCPS

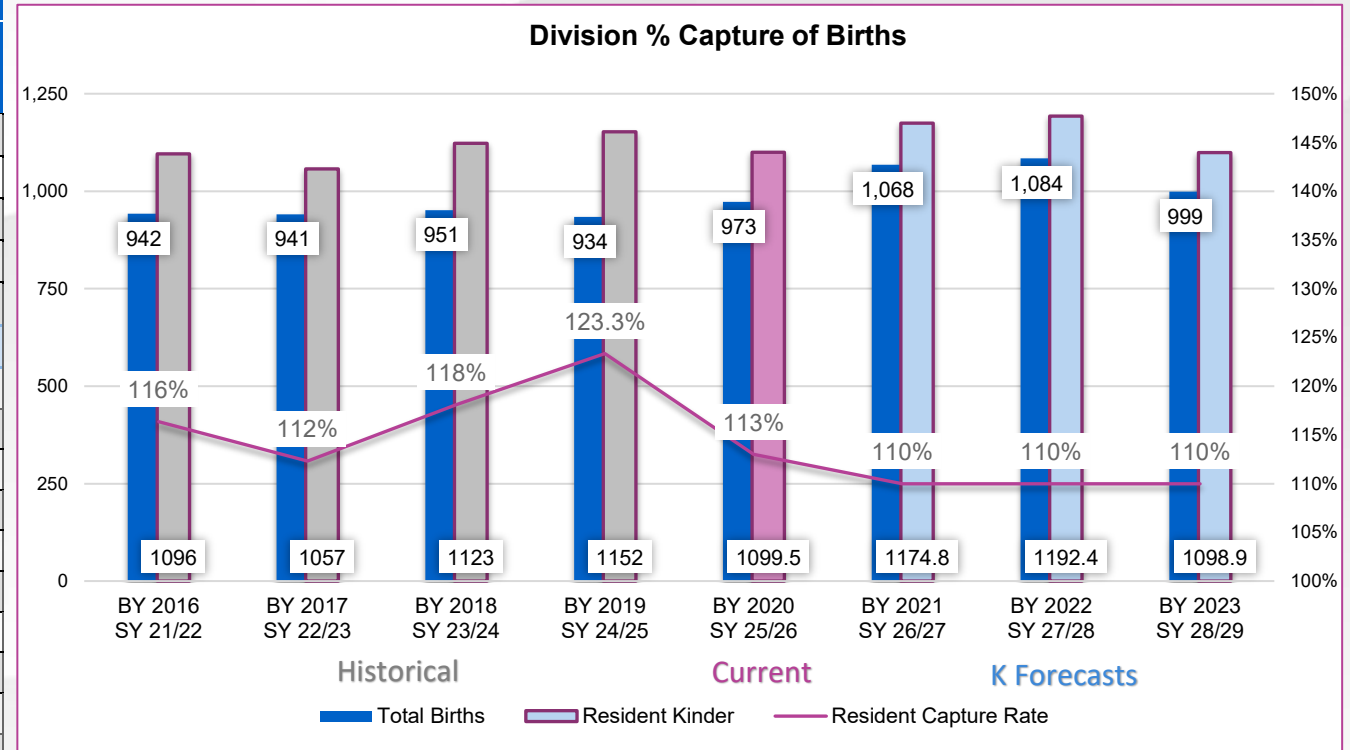
Student Density Fall 2024

White areas show concentration of student population, while areas shaded blue have fewer students.



Historic & Live Births Factors

Births by County			Birth Rate					
Birth Year	Kinder Year	Births	Kinder	Kinder Capture Rate	Rate	Rates used in forecast	School Year	
2014	2019	936	NA	NA	NA		2019/20	
2015	2020	966	NA	NA	NA		2020/21	
2016	2021	942	1096	116%	0.951		2021/22	
2017	2022	941	1057	112%	0.918		2022/23	
2018	2023	951	1123	118%	0.975		2023/24	
2019	2024	934	1152	123.3%	1.000	Base Year	2024/25	
2020	2025	973	1099.5	113%	0.954	0.954	2025/26	
2021	2026	1,068	1174.8	110%	1.020	1.020	2026/27	
2022	2027	1,084	1192.4	110%	1.035	1.035	2027/28	
2023	2028	999	1098.9	110%	0.954	0.954	2028/29	
2024	2029	Birth data was not available at time of study.	1155.4		1.003	1.003	2029/30	
2025	2030		1148.9		0.997	0.997	2030/31	
2026	2031		1134.4		0.985	0.985	2031/32	
2027	2032		1146.2		0.995	0.995	2032/33	
2028	2033		1143.2		0.992	0.992	2033/34	
2029	2034		1141.3		0.991	0.991	2034/35	



*Increasing birth rates are an anomaly compared to many other school divisions.

*High capture rates (over 100%) of births to kindergarten imply inward mobility of families into the county between time of birth and kindergarten entry.

Mobility Factors

SY 2021 - 2024

How is Mobility Applied?

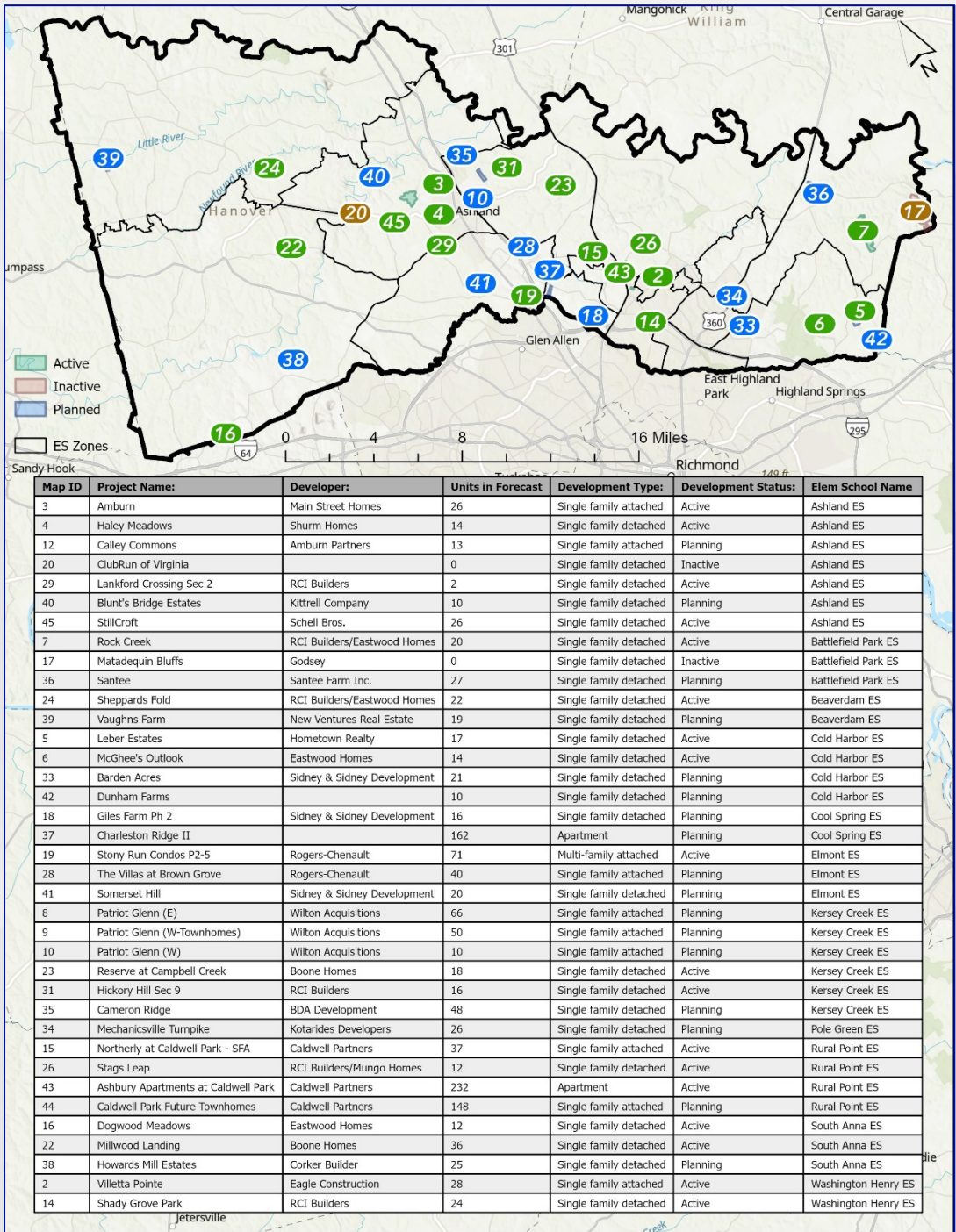
100 Kindergarten students in SY2023-24

X 1.06 (Ashland ES 1st grade mobility)

= 106 1st grade students in SY2024-25

- ❖ Determined from 4 years of historical mapped student data.
- ❖ Tracks the percentage gain or loss for each grade level as students progress through the grades.
- ❖ Addresses move-ins/outs, charter & private school movement, shifts in existing housing patterns, attrition at upper grades

Attendance Area	K to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12
Ashland ES	1.06	1.08	0.96	1.02	0.98	1.02	1.01	1.06	1.13	0.98	0.92	0.99
Battlefield Park ES	1.03	1.01	1.04	1.02	1.05	0.96	1.00	1.00	1.01	0.95	0.99	1.02
Beaverdam ES	0.99	1.05	1.02	1.03	1.05	0.99	1.01	1.00	1.04	0.90	1.01	1.01
Cold Harbor ES	1.09	1.02	1.06	1.03	0.98	1.02	0.99	1.01	1.03	0.98	0.98	1.00
Cool Spring ES	1.07	1.03	1.06	1.02	1.07	1.04	1.05	1.04	1.03	1.01	0.98	1.00
Elmont ES	1.06	1.04	1.03	1.03	0.99	1.01	1.05	1.00	1.10	0.97	0.99	0.96
Kersey Creek ES	1.00	1.04	1.02	1.03	1.01	1.01	0.99	1.01	1.05	0.97	0.97	0.97
Laurel Meadow ES	1.07	1.04	1.07	1.05	1.05	1.03	1.02	1.00	1.04	0.94	0.97	1.00
Mechanicsville ES	1.03	1.04	1.04	1.04	1.05	0.98	1.07	1.00	1.08	0.93	0.97	1.03
Pearson's Corner ES	1.01	1.05	1.02	1.03	1.03	1.00	1.02	1.02	0.95	0.99	0.96	1.00
Pole Green ES	1.04	0.99	1.04	1.01	1.03	0.99	0.97	1.01	1.04	0.99	0.94	1.02
Rural Point ES	1.08	1.02	0.98	1.05	1.01	0.99	1.01	0.99	0.98	1.02	0.96	1.02
South Anna ES	1.04	1.06	1.04	1.05	1.04	0.99	1.00	0.99	1.03	0.93	1.01	0.99
Washington-Henry ES	1.07	1.03	1.07	1.04	1.01	1.10	1.04	1.03	1.05	0.97	0.97	1.01



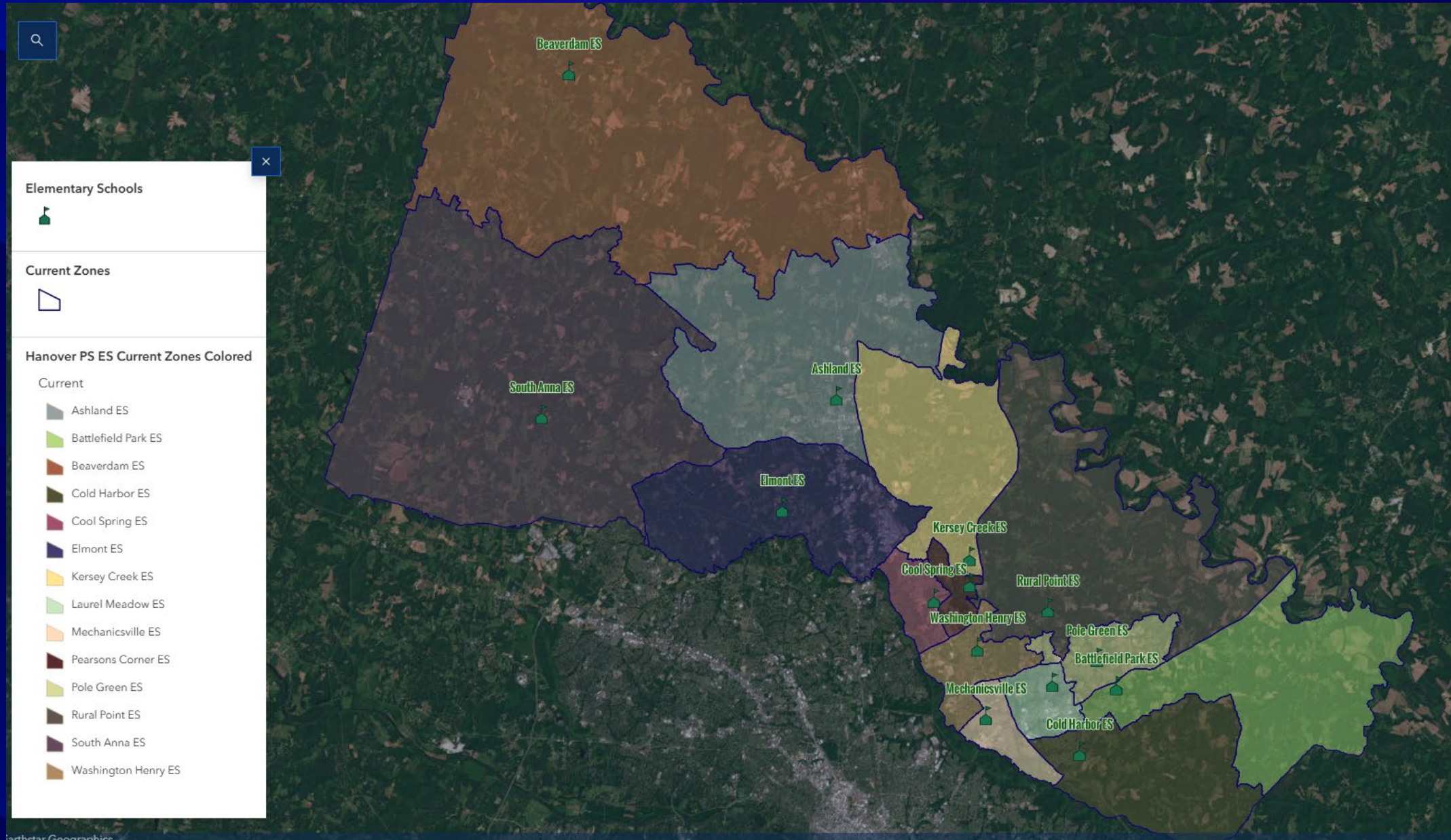
Development and Student Yield Factors

- Meet with planners and developers
- Boots on the ground
- High resolution aerial imagery
- Develop student yield factors

Student Yields from Current Housing			
Grade	APT*	MFA*	SFD*
K-5	0.082	0.095	0.292
6-8	0.040	0.039	0.111
9-12	0.042	0.075	0.109
Total	0.164	0.209	0.512

*APT = Apartment, MFA = multi-family attached and single-family attached, SFD = single-family detached.

Elementary Attendance Areas



Develop and Validate Building Capacity



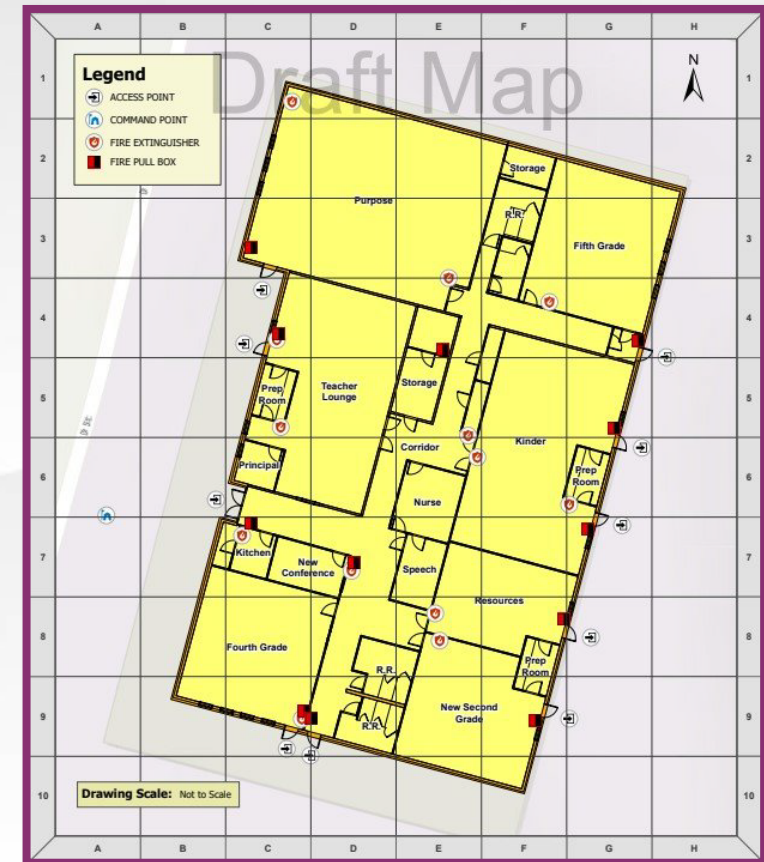
MGT reviewed HCPS's current capacities, facility maps, and program requirements in partnership with division leadership and building staff to produce a list of functional capacities used in the forecast analysis and boundary adjustment process.

Functional Capacity is a choice:

- Facility's age and condition,
- Space functionality
- Program priorities
- Student needs (STEM, dual language, special education, art and physical education, and career and technical spaces)

Functional Capacity is developed using:

- Staffing worksheets
- Building plans and layouts
- Loading standards
- Current enrollment
- Intensive support rooms
- PreK classrooms
- Special programs
- Portables



Elementary Attendance Matrix

Date of Student Data: 9/9/2024				School of Enrollment														*Non-Boundary	
	Attendance Area	Grade Range	Count of Students Living within Boundary	Ashland ES	Battlefield Park ES	Beaverdam ES	Cold Harbor ES	Cool Spring ES	Elmont ES	Kersey Creek ES	Laurel Meadow ES	Mechanicsville ES	Pearson's Corner ES	Pole Green ES	Rural Point ES	South Anna ES	Washington-Henry ES	Private Placement Elementary School	Transition School
School of Residence	Ashland ES	K-5	619	588	0	5	0	0	6	11	0	2	0	0	0	6	0	1	0
	Battlefield Park ES	K-5	373	0	361	0	2	0	0	1	4	1	0	1	2	0	0	1	0
	Beaverdam ES	K-5	307	6	0	294	0	2	1	0	1	0	0	0	0	3	0	0	0
	Cold Harbor ES	K-5	476	2	1	0	459	0	0	2	3	3	2	1	0	0	2	1	0
	Cool Spring ES	K-5	834	3	1	3	1	813	2	0	0	1	5	0	3	0	1	1	0
	Elmont ES	K-5	338	1	0	1	0	0	323	3	0	1	0	3	0	3	1	2	0
	Kersey Creek ES	K-5	651	4	0	0	0	4	0	634	0	2	2	4	1	0	0	0	0
	Laurel Meadow ES	K-5	560	0	2	0	3	1	0	4	542	0	0	4	1	0	2	1	0
	Mechanicsville ES	K-5	536	0	4	0	6	4	0	2	2	512	1	4	0	0	0	1	0
	Pearson's Corner ES	K-5	540	2	0	0	0	7	0	2	0	0	523	0	5	0	1	0	0
	Pole Green ES	K-5	512	0	0	0	0	2	0	5	1	2	0	497	4	0	1	0	0
	Rural Point ES	K-5	632	0	1	0	0	3	1	2	2	2	1	7	612	0	0	1	0
	South Anna ES	K-5	452	5	0	9	0	0	4	2	0	1	0	0	0	430	0	1	0
	Washington-Henry ES	K-5	372	0	1	0	1	8	2	1	2	2	5	1	1	0	347	1	0
	Total		7,202	611	371	312	472	844	339	669	557	529	539	522	629	442	355	11	0
	Inter-Division Transfers		63	12	4	7	6	8	1	3	4	3	1	5	1	2	6	0	0
	Pre-K		359	46	32	23	20	25	38	11	31	53	28	10	8	4	27	0	3
	Total Enrollment		7,624	669	407	342	498	877	378	683	592	585	568	537	638	448	388	11	3

Elementary School Utilization SY2024-25

Attendance Area	Grade Range	School Capacity	Residence		Enrollment		Resident Student Transfers			Inter-Division Transfers	Total Open Enrollment Rate
			Students	Utilization	Students	Utilization	In	Out	Out Rate	In	
Ashland ES	K-5	738	619	84%	623	84%	23	31	5.0%	12	5.6%
Battlefield Park ES	K-5	481	373	78%	375	78%	10	12	3.2%	4	3.7%
Beaverdam ES	K-5	394	307	78%	319	81%	18	13	4.2%	7	7.8%
Cold Harbor ES	K-5	677	476	70%	478	71%	13	17	3.6%	6	4.0%
Cool Spring ES	K-5	760	834	110%	852	112%	31	21	2.5%	8	4.6%
Elmont ES	K-5	443	338	76%	340	77%	16	15	4.4%	1	5.0%
Kersey Creek ES	K-5	743	651	88%	672	90%	35	17	2.6%	3	5.7%
Laurel Meadow ES	K-5	722	560	78%	561	78%	15	18	3.2%	4	3.4%
Mechanicsville ES	K-5	691	536	78%	532	77%	17	24	4.5%	3	3.8%
Pearson's Corner ES	K-5	695	540	78%	540	78%	16	17	3.1%	1	3.1%
Pole Green ES	K-5	772	512	66%	527	68%	25	15	2.9%	5	5.7%
Rural Point ES	K-5	707	632	89%	630	89%	17	20	3.2%	1	2.9%
South Anna ES	K-5	715	452	63%	444	62%	12	22	4.9%	2	3.2%
Washington-Henry ES*	K-5	378	372	98%	361	96%	8	25	6.7%	6	3.9%

*WHES capacity is set to increase in the future up to 495.

Middle School Matrix and Utilization

Date of Student Data: 9/9/2024				School of Enrollment				*Non-Boundary	
	Attendance Area	Grade Range	Count of Students Living within Boundary	Bell Creek MS	Chickahominy MS	Liberty MS	Oak Knoll MS	Private Placement Secondary	The Georgetown School
School of Residence	Bell Creek MS	6-8	890	871	5	0	4	7	3
	Chickahominy MS	6-8	1,199	9	1,173	2	8	5	2
	Liberty MS	6-8	918	6	7	892	6	5	2
	Oak Knoll MS	6-8	848	4	2	3	836	3	0
	Total		3,855	890	1,187	897	854	20	7
	Inter-Division Transfers		30	6	8	8	8	0	0
	Total Enrollment		3,885	896	1,195	905	862	20	7

Attendance Area	Grade Range	School Capacity	Residence		Enrollment		Resident Student Transfers			Inter-Division Transfers	Total Open Enrollment Rate
			Students	Utilization	Students	Utilization	In	Out	Out Rate		
Bell Creek MS	6-8	1,156	890	77%	896	78%	19	19	2.1%	6	2.8%
Chickahominy MS	6-8	1,256	1,199	95%	1,195	95%	14	26	2.2%	8	1.8%
Liberty MS	6-8	1,156	918	79%	905	78%	5	26	2.8%	8	1.4%
Oak Knoll MS	6-8	1,336	848	63%	862	65%	18	12	1.4%	8	3.0%

High School Matrix and Utilization

Date of Student Data: 9/9/2024				School of Enrollment				*Non-Boundary	
	Attendance Area	Grade Range	Count of Students Living within Boundary	Atlee HS	Hanover HS	Mechanicsville HS	Patrick Henry HS	Private Placement Secondary	The Georgetown School
School of Residence	Atlee HS	9-12	1,514	1,423	66	8	1	8	8
	Hanover HS	9-12	1,190	10	1,159	10	3	4	4
	Mechanicsville HS	9-12	1,296	8	60	1,205	3	9	11
	Patrick Henry HS	9-12	1,356	5	48	3	1,279	11	10
	Total		5,356	1,446	1,333	1,226	1,286	32	33
	Inter-Division Transfers		38	11	11	6	9	1	0
	Total Enrollment		5,394	1,457	1,344	1,232	1,295	33	33

Attendance Area	Grade Range	School Capacity	Residence		Enrollment		Resident Student Transfers			Inter-Division Transfers	Total Open Enrollment Rate
			Students	Utilization	Students	Utilization	In	Out	Out Rate		
Atlee HS	9-12	1,620	1,514	93%	1,457	90%	23	91	6.0%	11	2.3%
Hanover HS	9-12	1,792	1,190	66%	1,344	75%	174	31	2.6%	11	13.8%
Mechanicsville HS	9-12	1,700	1,296	76%	1,232	72%	21	91	7.0%	6	2.2%
Patrick Henry HS	9-12	1,540	1,356	88%	1,295	84%	7	77	5.7%	9	1.2%

Student Forecasts – Ensure We Consider the Future

Resident Students														
Grade	Historic			Current	Forecasted									
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
K	1,096	1,057	1,123	1,152	1,100.5	1,161.4	1,179.8	1,086.4	1,145.1	1,140.5	1,128.8	1,142.6	1,141.6	1,141.3
1	1,129	1,184	1,082	1,161	1,204.0	1,156.8	1,218.7	1,237.6	1,140.0	1,201.8	1,197.4	1,185.5	1,200.0	1,196.4
2	1,142	1,184	1,228	1,118	1,202.0	1,250.6	1,200.8	1,264.3	1,283.8	1,183.4	1,247.7	1,243.4	1,231.2	1,244.2
3	1,186	1,219	1,187	1,271	1,150.9	1,242.5	1,290.3	1,237.9	1,303.2	1,324.0	1,221.3	1,287.9	1,283.6	1,269.1
4	1,172	1,256	1,251	1,224	1,311.4	1,192.7	1,285.3	1,332.6	1,279.3	1,347.5	1,369.5	1,264.0	1,332.7	1,326.3
5	1,242	1,247	1,258	1,276	1,256.1	1,348.8	1,225.9	1,320.3	1,368.4	1,313.8	1,384.1	1,407.0	1,298.8	1,367.5
6	1,233	1,282	1,257	1,250	1,288.2	1,273.7	1,367.6	1,238.5	1,336.1	1,385.2	1,330.2	1,401.4	1,424.5	1,313.6
7	1,320	1,252	1,299	1,289	1,270.3	1,313.5	1,296.7	1,393.2	1,259.6	1,362.0	1,411.7	1,355.5	1,428.0	1,449.9
8	1,349	1,346	1,269	1,316	1,305.6	1,292.4	1,333.0	1,317.7	1,414.8	1,279.2	1,383.6	1,434.2	1,377.3	1,448.6
9	1,430	1,435	1,385	1,316	1,362.6	1,361.3	1,346.2	1,386.1	1,368.1	1,473.4	1,329.2	1,441.8	1,492.7	1,432.7
10	1,410	1,396	1,393	1,334	1,276.1	1,327.6	1,321.6	1,309.5	1,346.8	1,332.2	1,432.1	1,294.7	1,403.3	1,452.3
11	1,371	1,381	1,351	1,340	1,293.0	1,242.7	1,291.1	1,284.1	1,271.7	1,309.4	1,295.4	1,392.6	1,258.1	1,362.1
12	1,431	1,376	1,364	1,366	1,340.8	1,296.8	1,245.4	1,293.4	1,286.5	1,275.2	1,312.5	1,298.5	1,396.8	1,261.4
Resident K-12 Student Totals by Grade Configuration														
K-5	6,967	7,147	7,129	7,202	7,224.9	7,352.8	7,400.8	7,479.1	7,519.8	7,511.0	7,548.8	7,530.4	7,487.9	7,544.8
6-8	3,902	3,880	3,825	3,855	3,864.1	3,879.6	3,997.3	3,949.4	4,010.5	4,026.4	4,125.5	4,191.1	4,229.8	4,212.1
9-12	5,642	5,588	5,493	5,356	5,272.5	5,228.4	5,204.3	5,273.1	5,273.1	5,390.2	5,369.2	5,427.6	5,550.9	5,508.5
K-12	16,511	16,615	16,447	16,413	16,361.5	16,460.8	16,602.4	16,701.6	16,803.4	16,927.6	17,043.5	17,149.1	17,268.6	17,265.4

Student Forecasts – Ensure We Consider the Future

Grade	Resident Students													
	Historic			Current	Forecasted									
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Resident K-12 Student Totals by Grade Configuration														
K-5	6,967	7,147	7,129	7,202	7,224.9	7,352.8	7,400.8	7,479.1	7,519.8	7,511.0	7,548.8	7,530.4	7,487.9	7,544.8
6-8	3,902	3,880	3,825	3,855	3,864.1	3,879.6	3,997.3	3,949.4	4,010.5	4,026.4	4,125.5	4,191.1	4,229.8	4,212.1
9-12	5,642	5,588	5,493	5,356	5,272.5	5,228.4	5,204.3	5,273.1	5,273.1	5,390.2	5,369.2	5,427.6	5,550.9	5,508.5
K-12	16,511	16,615	16,447	16,413	16,361.5	16,460.8	16,602.4	16,701.6	16,803.4	16,927.6	17,043.5	17,149.1	17,268.6	17,265.4
Non-resident Students K-12														
K-5	64	66	58	63	63.2	64.3	64.7	65.4	65.8	65.7	66.0	65.9	65.5	66.0
6-8	29	37	30	30	30.1	30.2	31.1	30.7	31.2	31.3	32.1	32.6	32.9	32.8
9-12	58	44	40	38	37.4	37.1	36.9	37.4	37.4	38.2	38.1	38.5	39.4	39.1
K-12	151	147	128	131	130.7	131.6	132.8	133.6	134.4	135.3	136.2	137.0	137.8	137.9
Total Students K-12														
K-5	7,031	7,213	7,187	7,265	7,288.1	7,417.1	7,465.5	7,544.5	7,585.6	7,576.7	7,614.8	7,596.3	7,553.4	7,610.8
6-8	3,931	3,917	3,855	3,885	3,894.2	3,909.8	4,028.4	3,980.1	4,041.7	4,057.7	4,157.6	4,223.7	4,262.7	4,244.9
9-12	5,700	5,632	5,533	5,394	5,309.9	5,265.5	5,241.2	5,310.5	5,310.5	5,428.4	5,407.3	5,466.1	5,590.3	5,547.6
K-12	16,662	16,762	16,575	16,544	16,492.2	16,592.4	16,735.2	16,835.2	16,937.8	17,062.9	17,179.7	17,286.1	17,406.4	17,403.3
Year-to-Year Net Change														
K-5	182	-26	78	23.1	129.0	48.4	79.0	41.1	-8.9	38.1	-18.6	-42.9	57.4	
6-8	-14	-62	30	9.2	15.6	118.6	-48.3	61.6	16.0	99.9	66.1	39.0	-17.8	
9-12	-68	-99	-139	-84.1	-44.4	-24.3	69.3	0.0	117.9	-21.1	58.8	124.2	-42.7	
K-12	100	-187	-31	-51.8	100.2	142.8	100.0	102.6	125.1	116.9	106.4	120.3	-3.1	

Resident Students

Out of Division
Students

Total Students

Year-to-year Net
Change

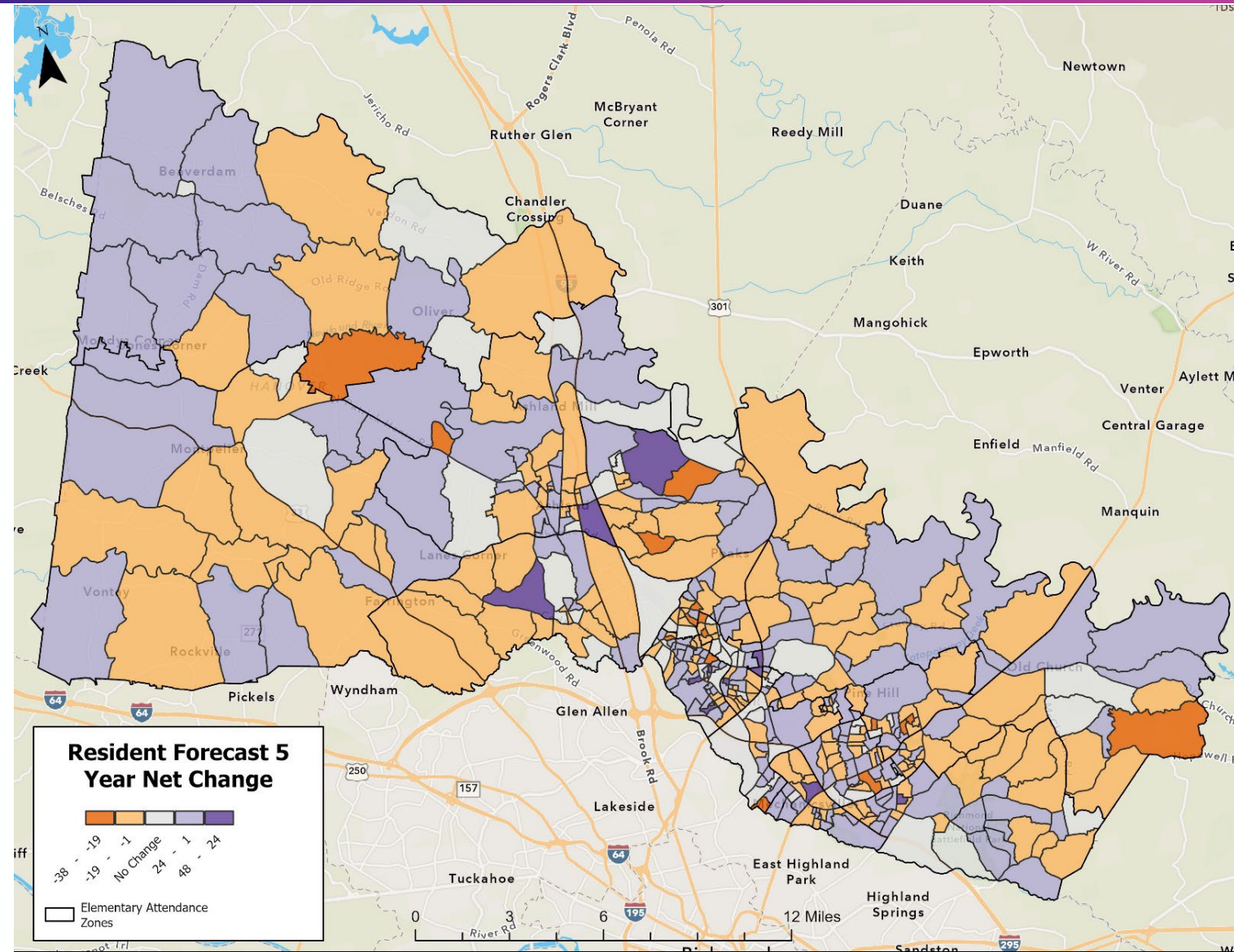
Grades	Grade Trend 2021 to 2029	1-Year	1-Yr %	5-Year	5-Yr %	10-Year	10-Yr %	Grades
K-5		22.9	0.3%	317.8	4.4%	342.8	4.8%	K-5
6-8		9.1	0.2%	155.5	4.0%	357.1	9.3%	6-8
9-12		-83.5	-1.6%	-82.9	-1.5%	152.5	2.8%	9-12
K-12		-51.5	-0.3%	390.4	2.4%	852.4	5.2%	K-12

Resident Change
by Grade Group

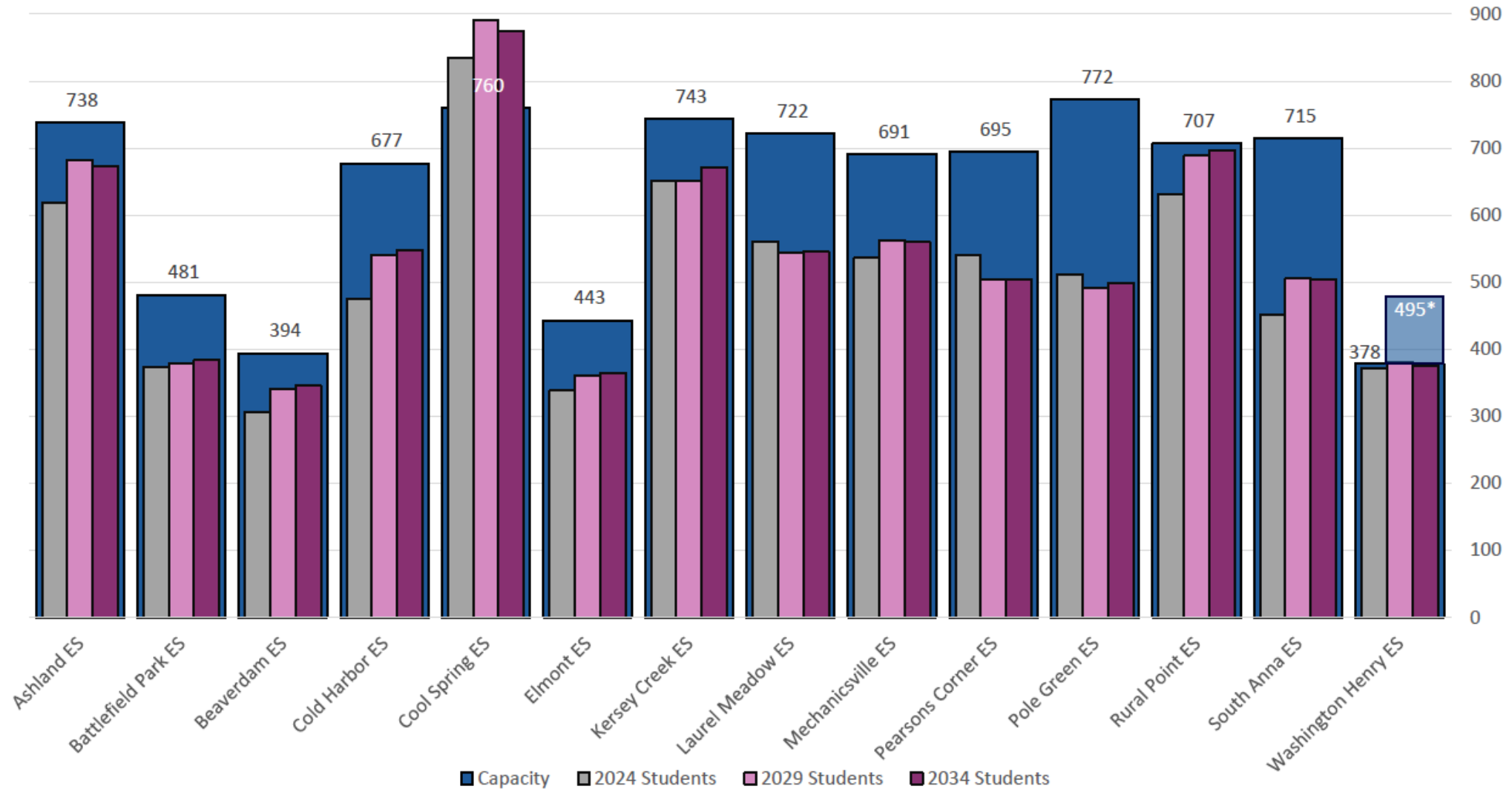
Student Forecasts – Ensure We Consider the Future

Key Points:

- Study area have 50-75 students in each
- Growth throughout the Division is uneven

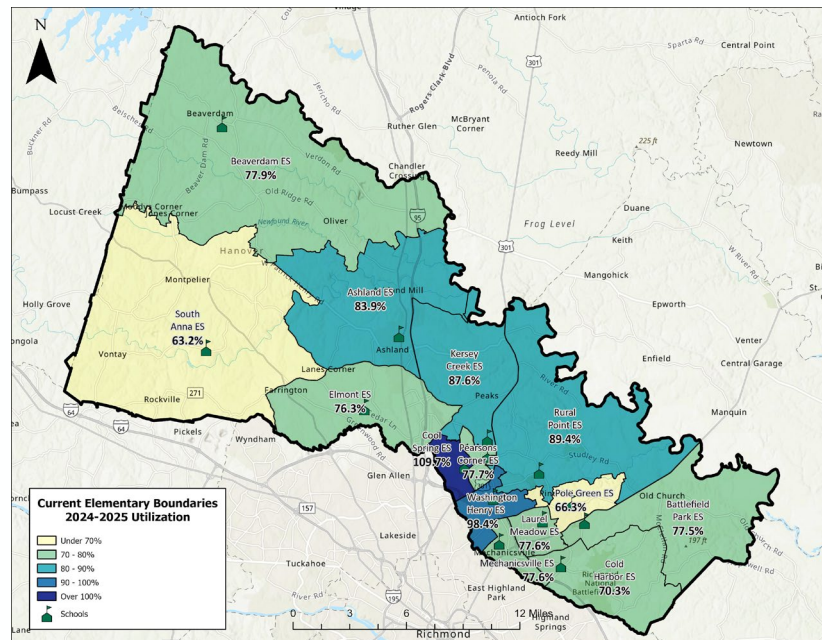


Student Forecasts – ES Utilization Graph

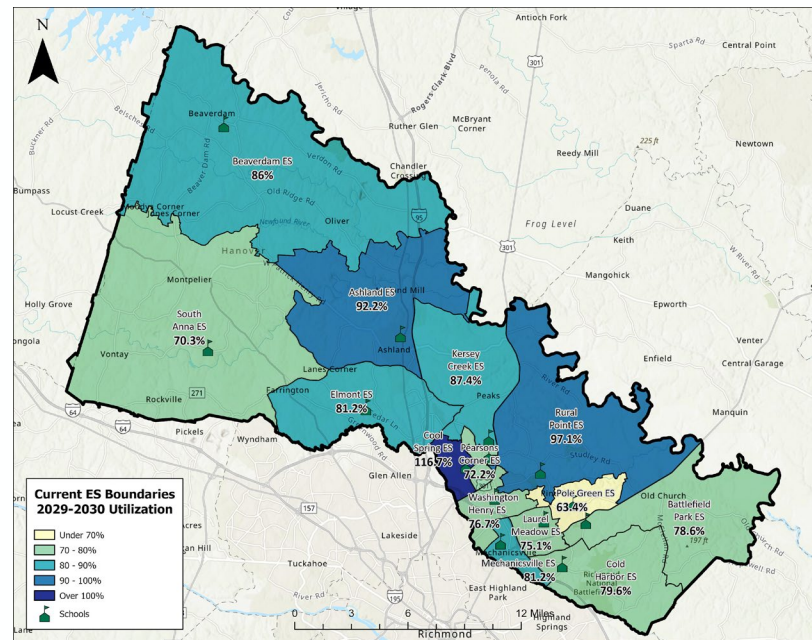


*Washington-Henry ES functional capacity will expand to 495 in 2027.

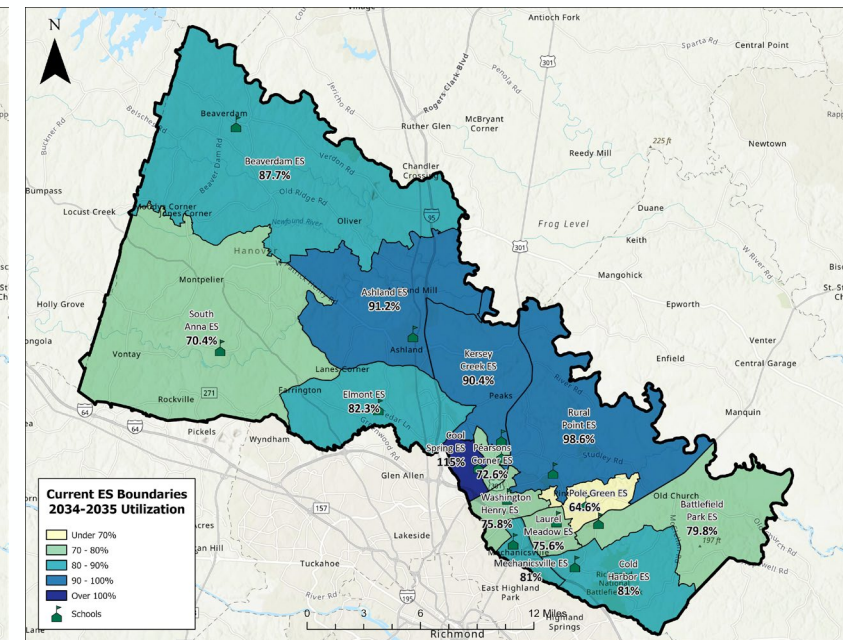
Student Forecasts – ES Utilization Maps



Current



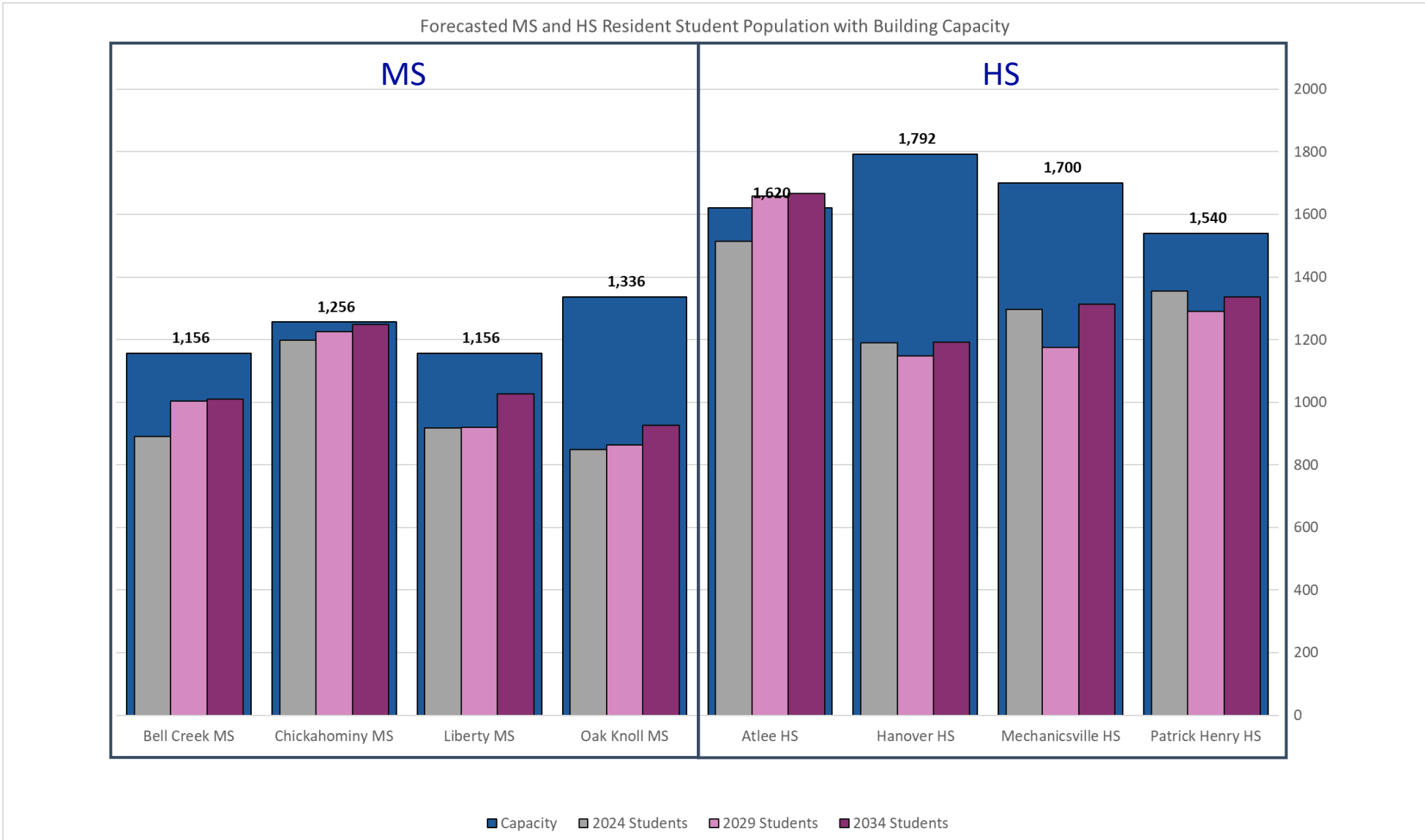
5-year



10-year

<https://storymaps.arcgis.com/stories/da3f1f3ac63143ee8a69619147e8e803>

Student Forecasts – MS/HS Utilization Graph



Feeders

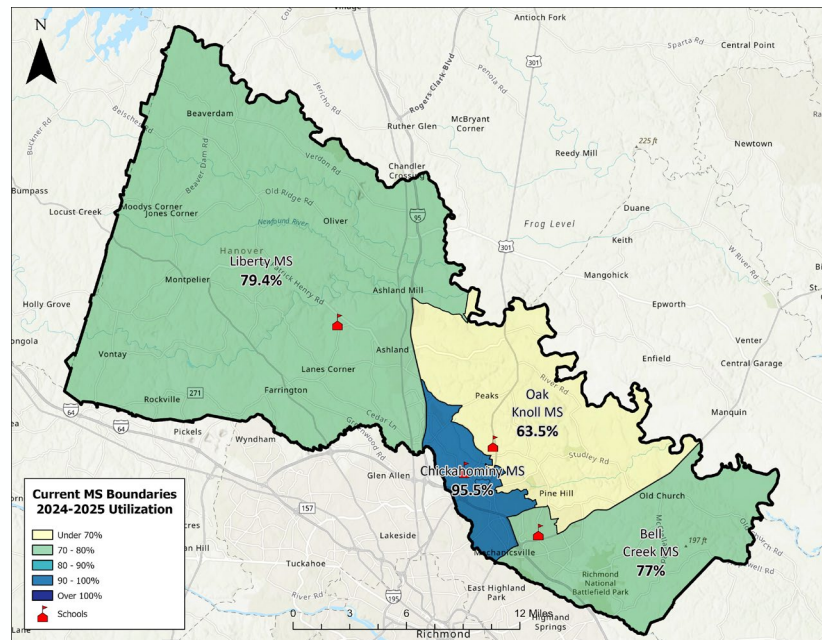
Bell Creek MS
Mechanicsville HS

Chickahominy MS
Atlee HS

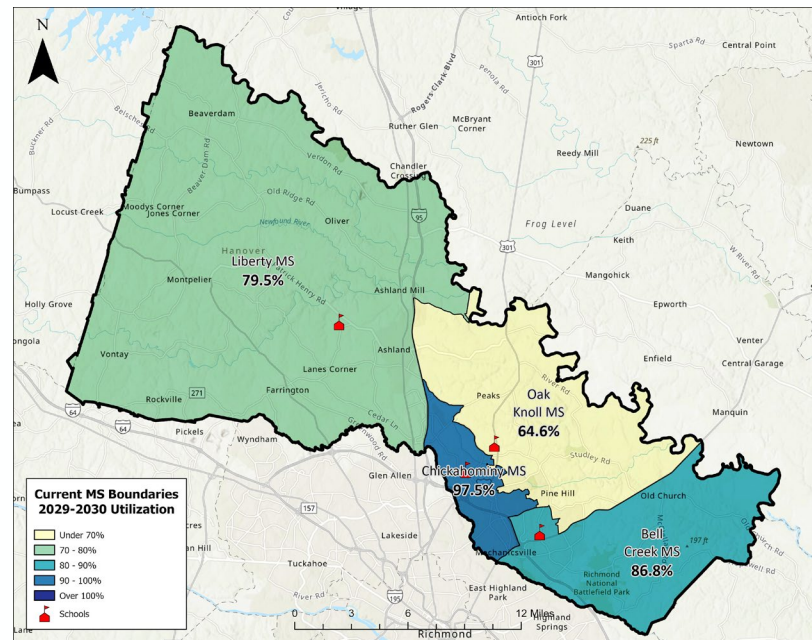
Liberty MS
Patrick Henry HS

Oak Knoll MS
Hanover HS

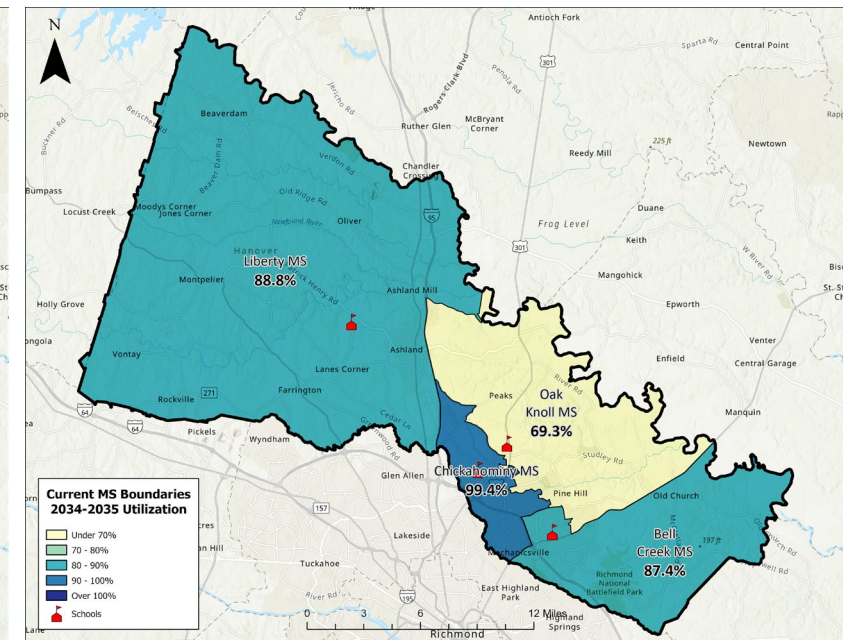
Student Forecasts – MS Utilization Maps



Current



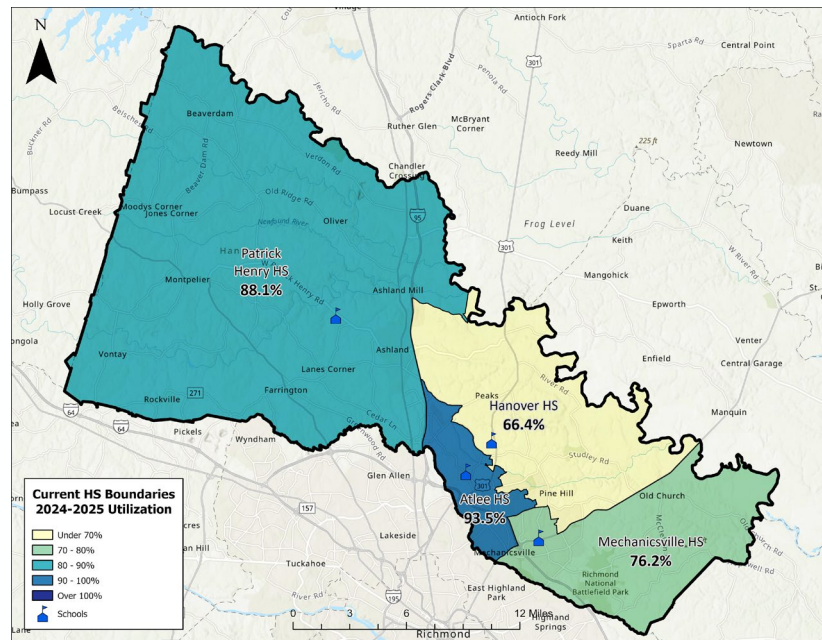
5-year



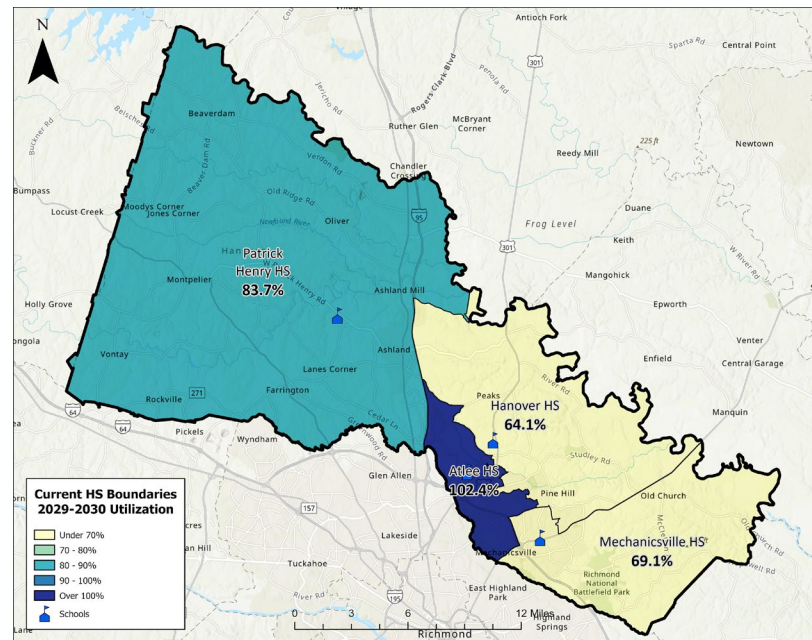
10-year

<https://storymaps.arcgis.com/stories/da3f1f3ac63143ee8a69619147e8e803>

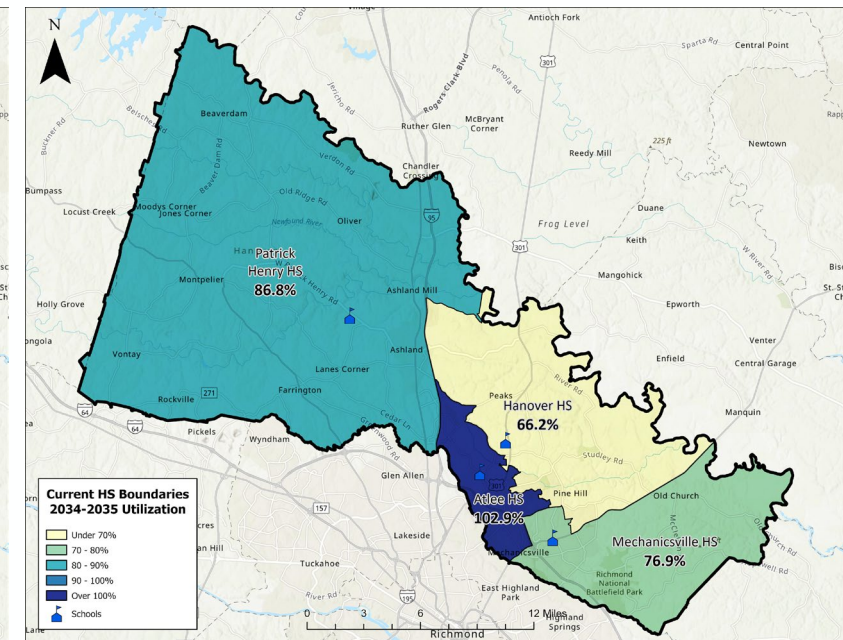
Student Forecasts – HS Utilization Maps



Current



5-year



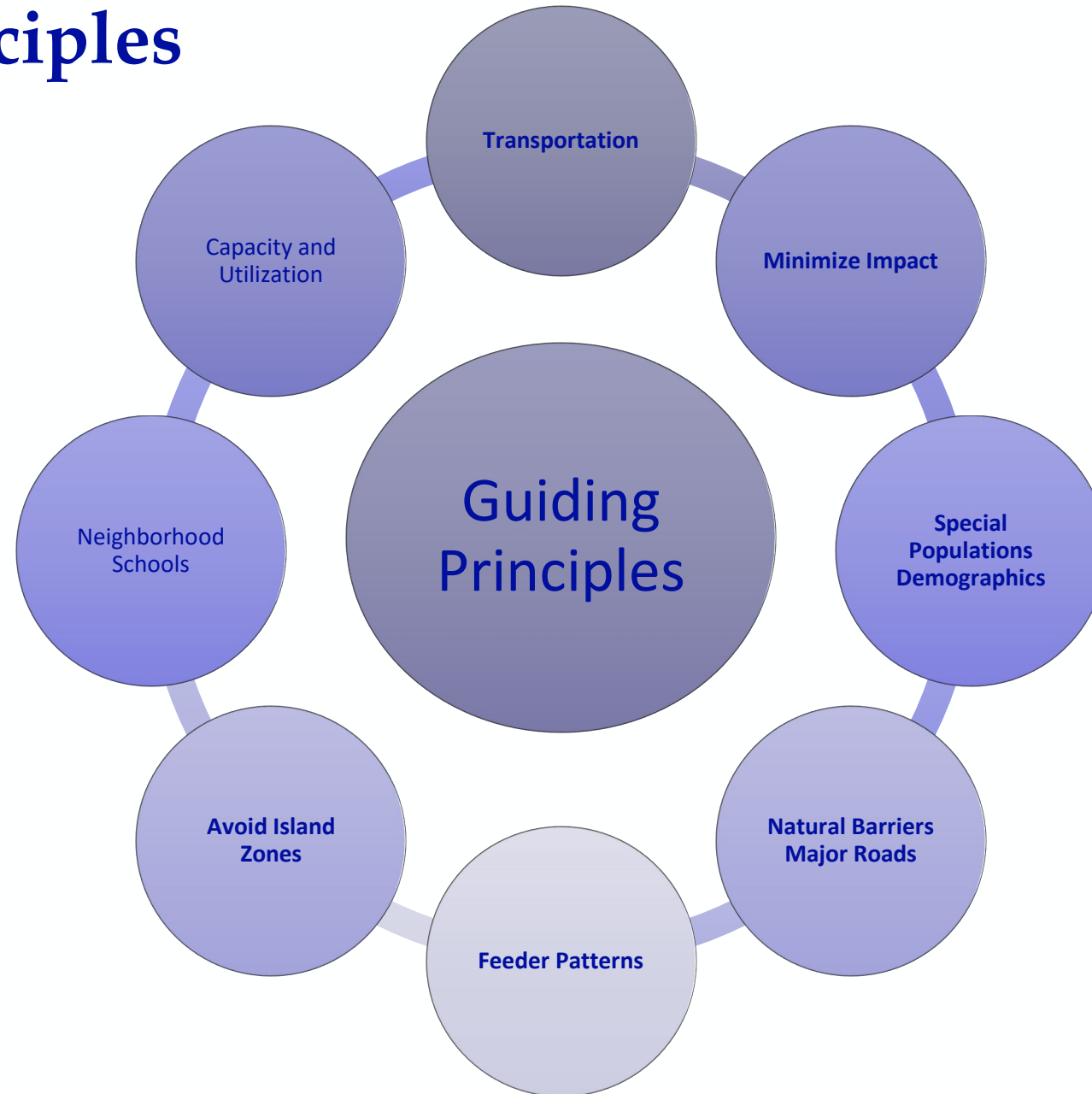
10-year

<https://storymaps.arcgis.com/stories/da3f1f3ac63143ee8a69619147e8e803>

Guiding Principles Examples



- Criteria may conflict with one another.
- Criteria drive Board and Leadership considerations.



- Criteria should be balanced to meet Division needs.
- Criteria can be used to identify unintended consequences.

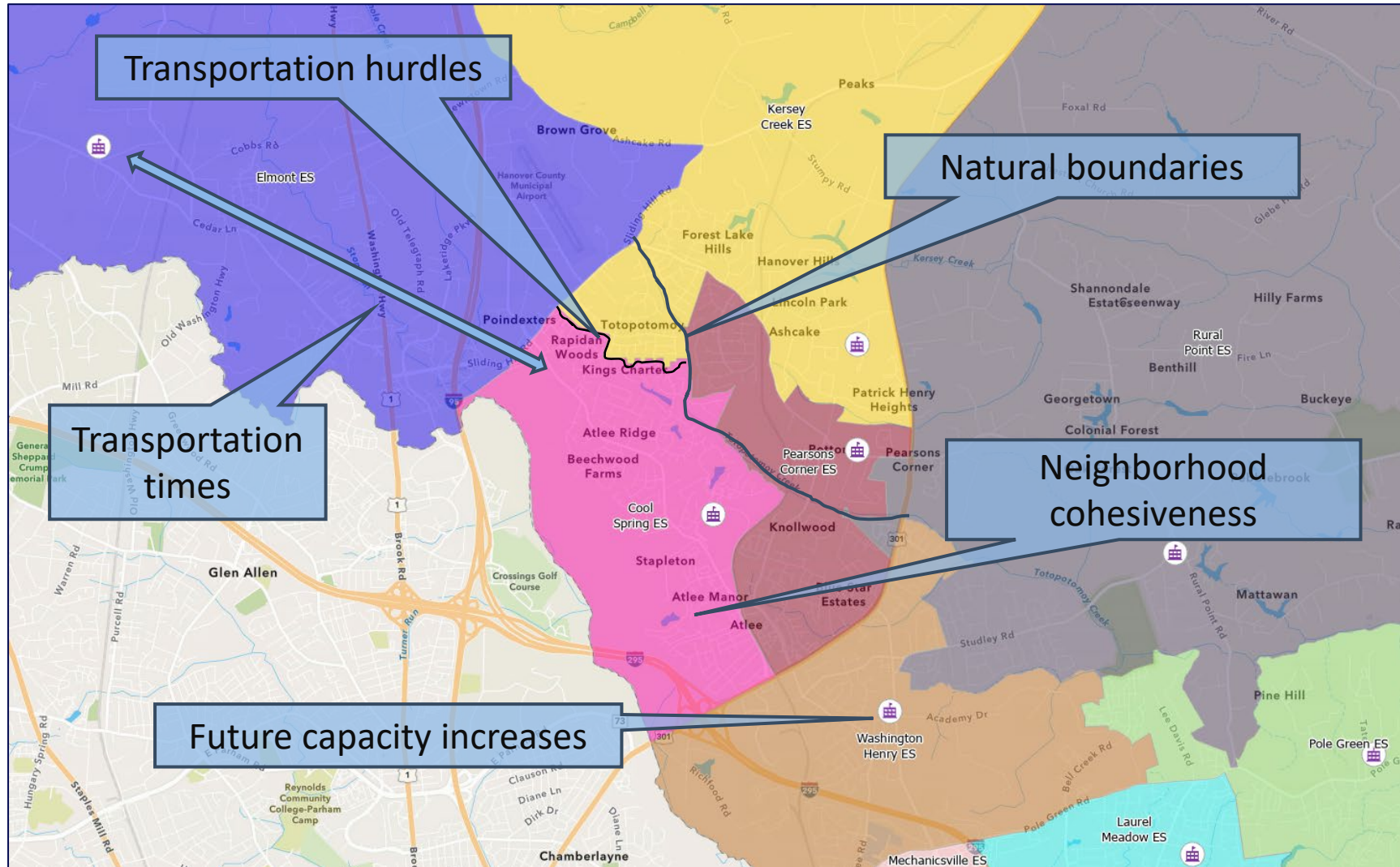


Hanover County Public Schools

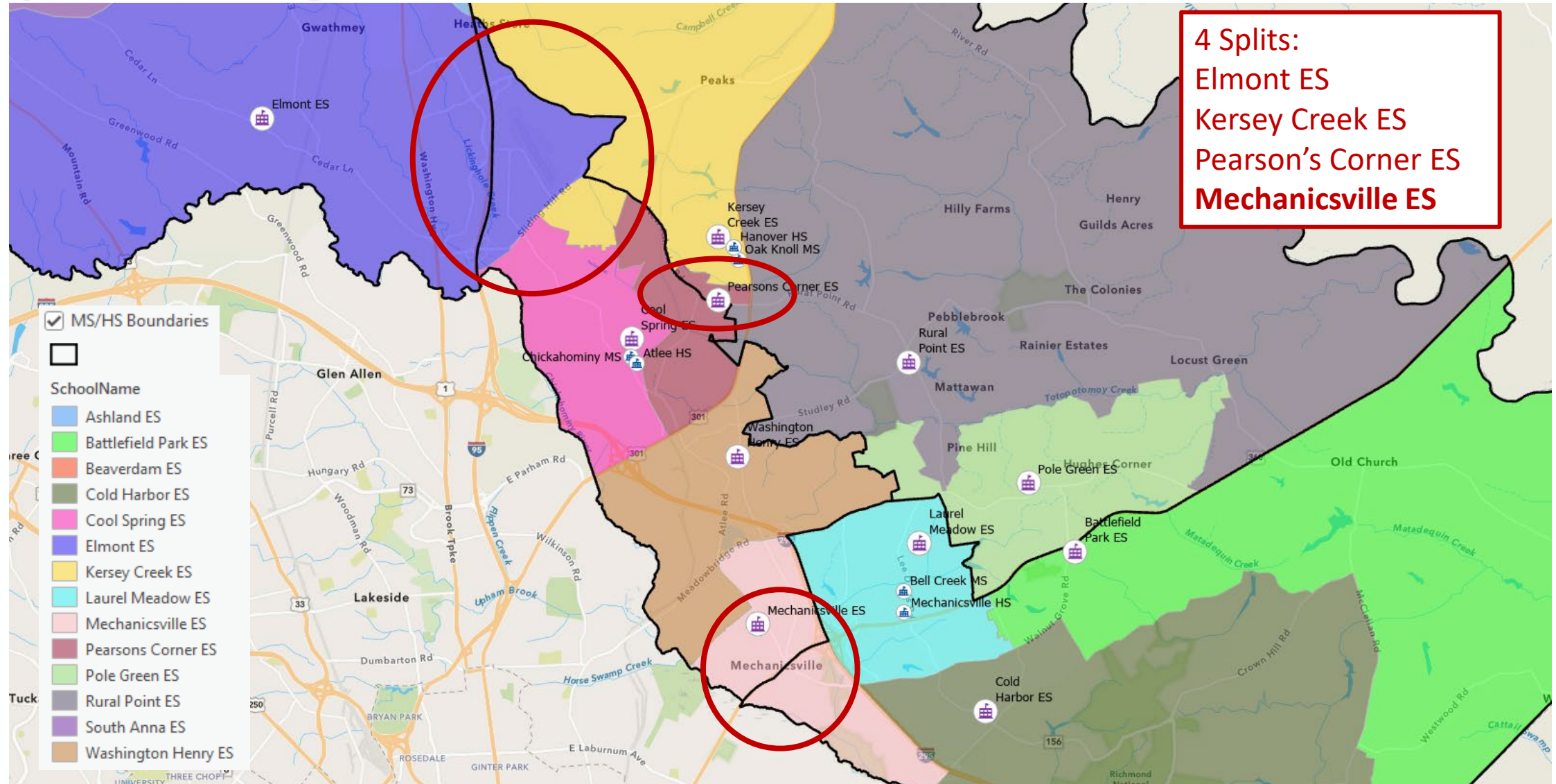
Guiding Principles

- Balance utilization at the current, 5-year, and 10-year forecasted trends.
- Minimize the number of students impacted by boundary adjustments.
- Work to maintain neighborhood schools and avoid "island zones" where small sections are detached from their surrounding areas.
- Consider transportation impacts, and work towards limiting the amount of time required on a bus.
- Minimize disruption and impacts to special programs or special populations (e.g., free-and-reduced lunch programs, economically disadvantaged, special education).

Hanover County Public Schools Cool Spring ES and Adjacent Areas Considerations



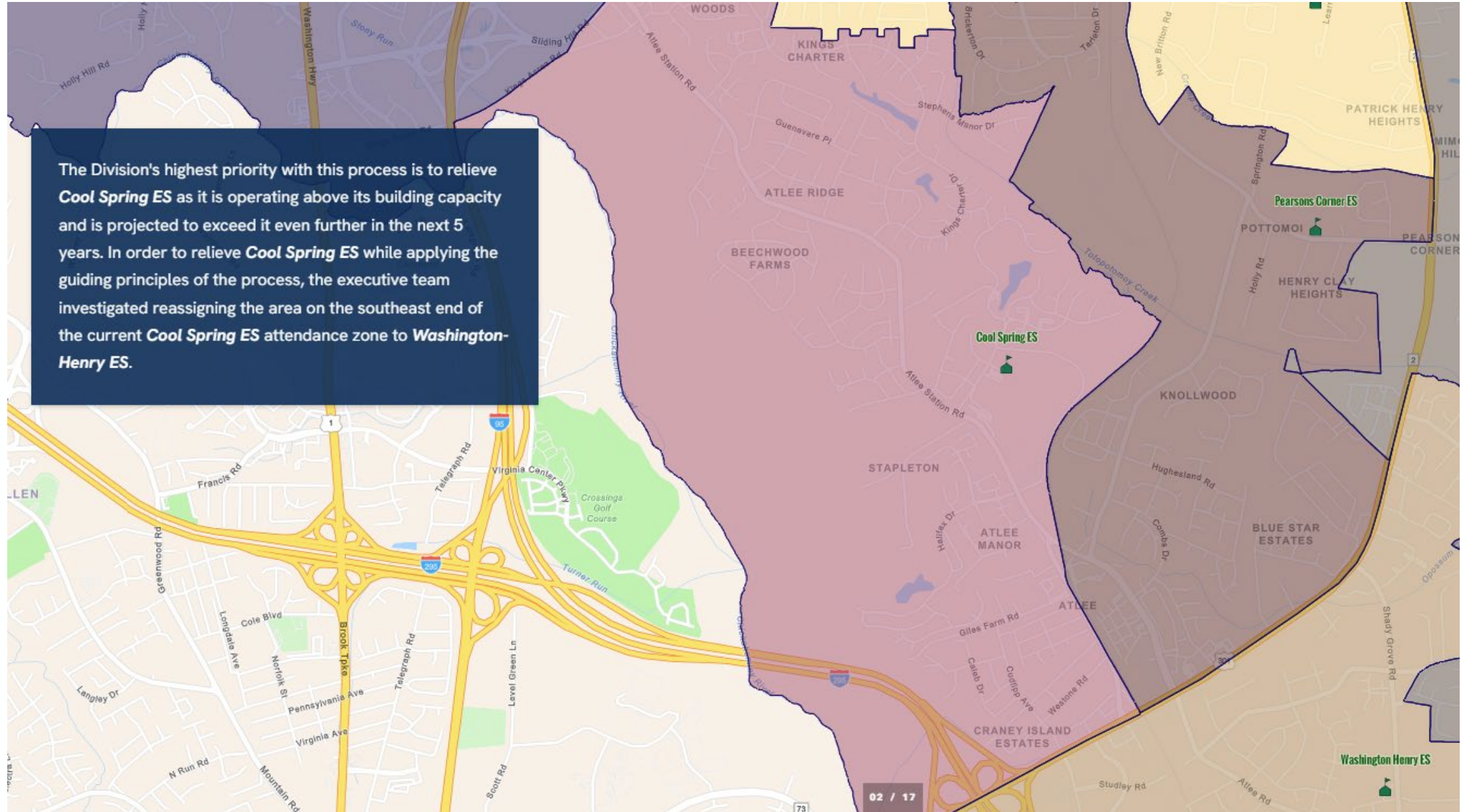
Hanover County Public Schools Feeder System – ES Splits Feeding into MS/HS



Elementary School Scenarios – Cool Spring ES



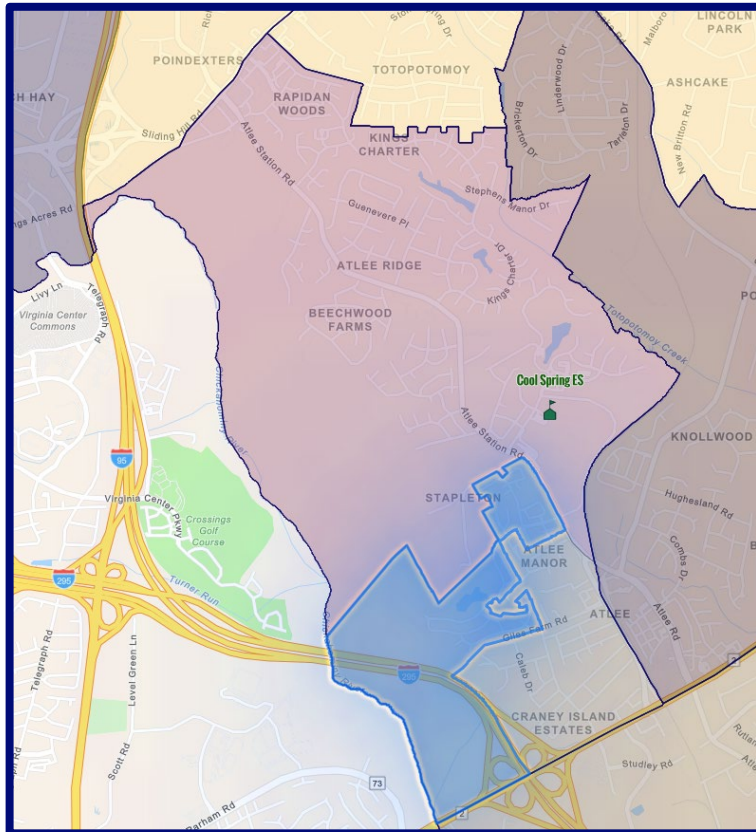
The Division's highest priority with this process is to relieve **Cool Spring ES** as it is operating above its building capacity and is projected to exceed it even further in the next 5 years. In order to relieve **Cool Spring ES** while applying the guiding principles of the process, the executive team investigated reassigning the area on the southeast end of the current **Cool Spring ES** attendance zone to **Washington-Henry ES**.



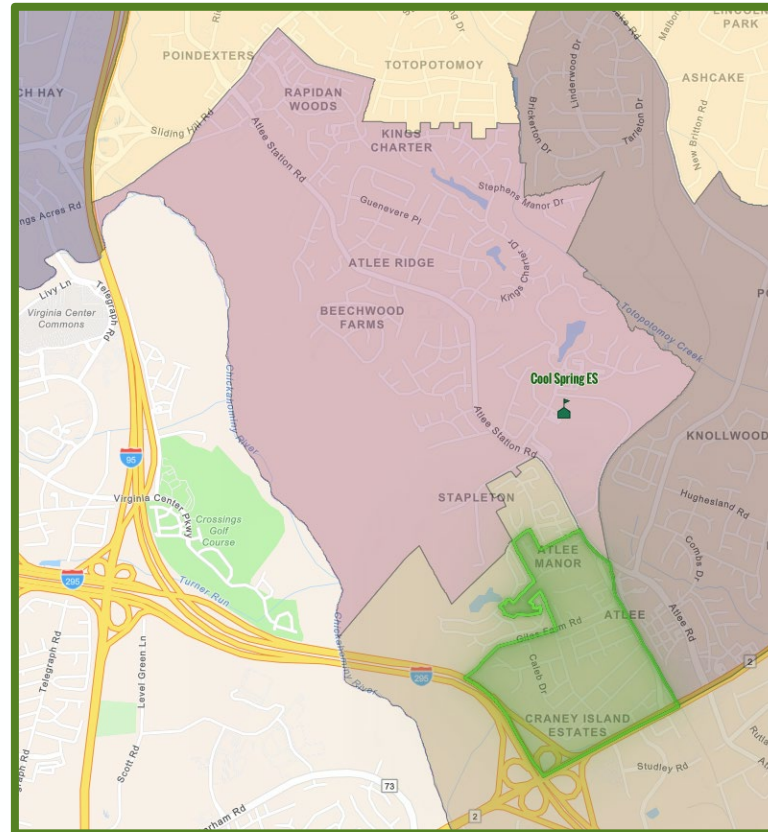
Elementary School Scenarios



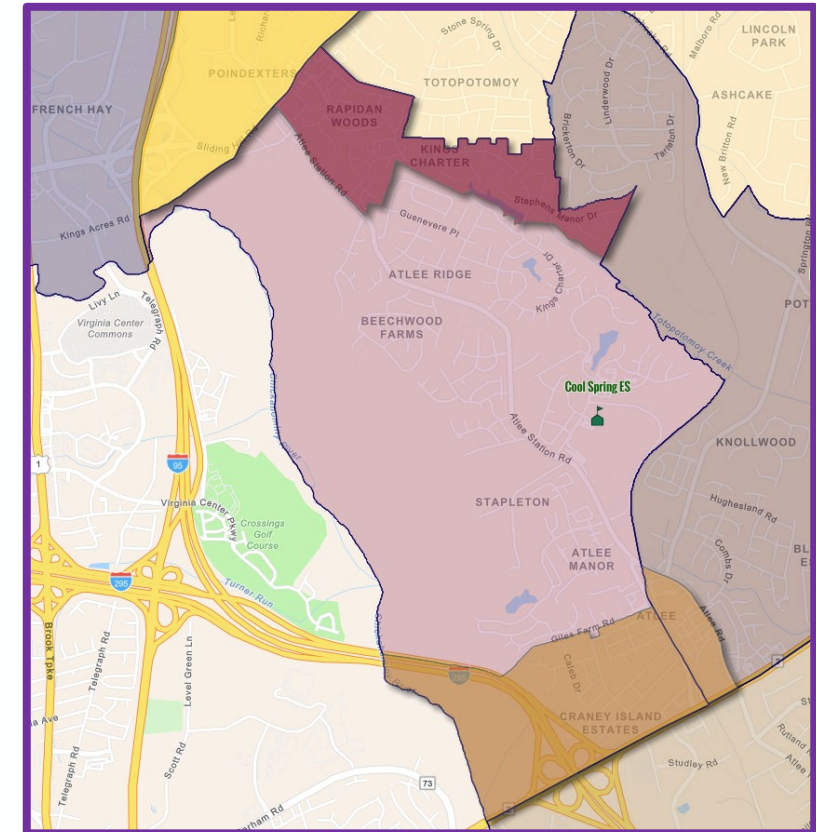
Blue Scenario



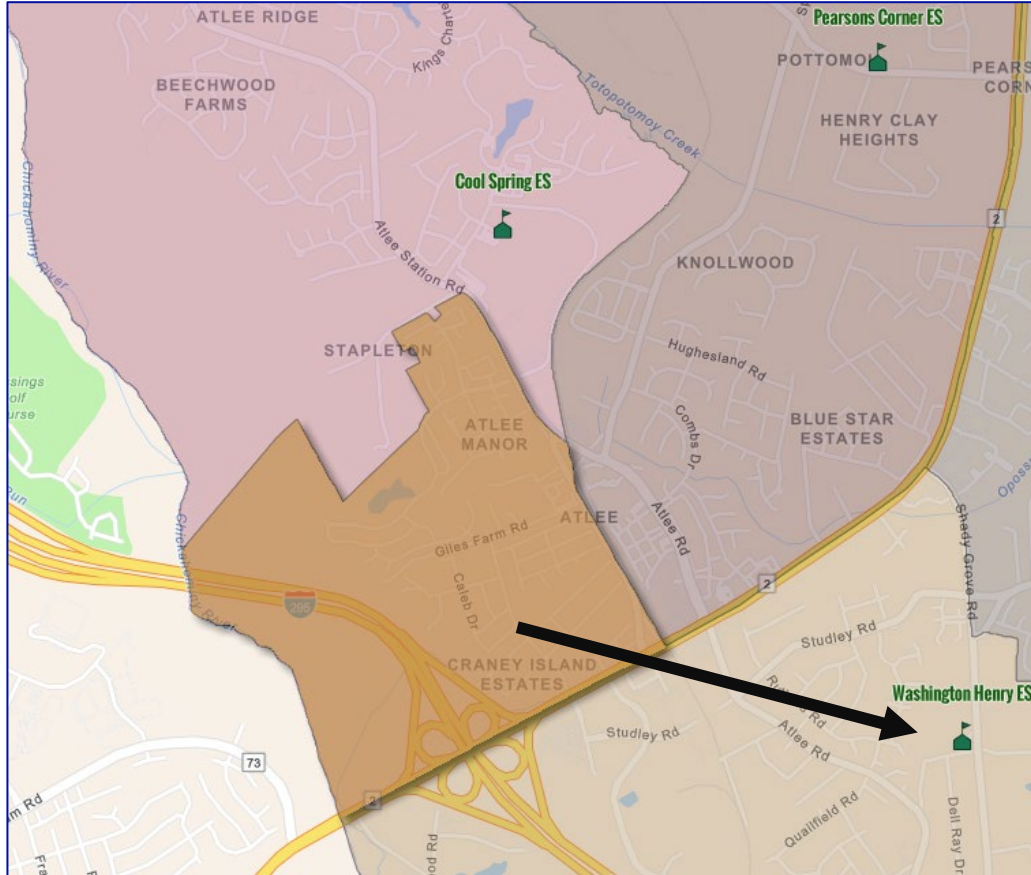
Green Scenario



Purple Scenario



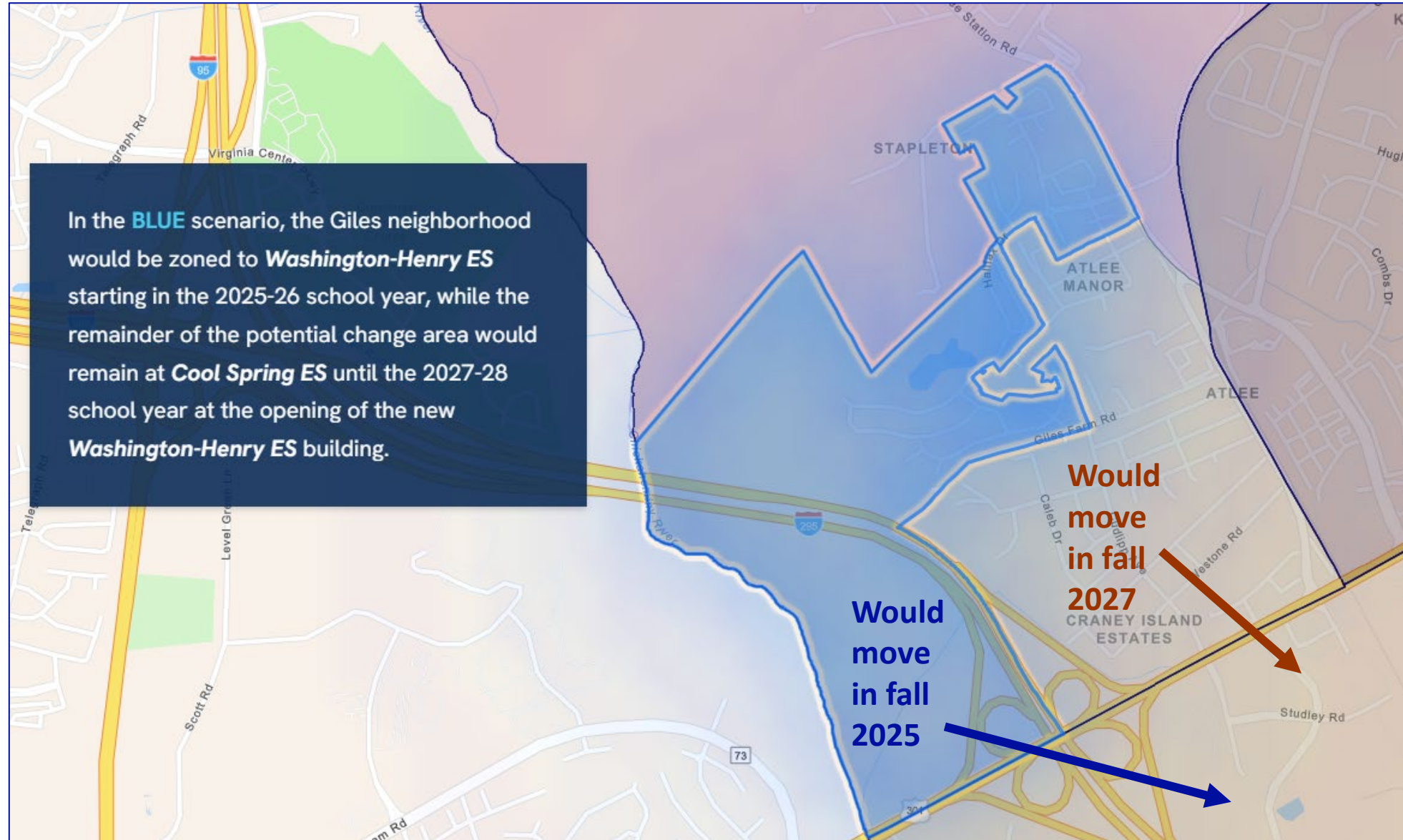
Elementary School Scenarios – Blue and Green



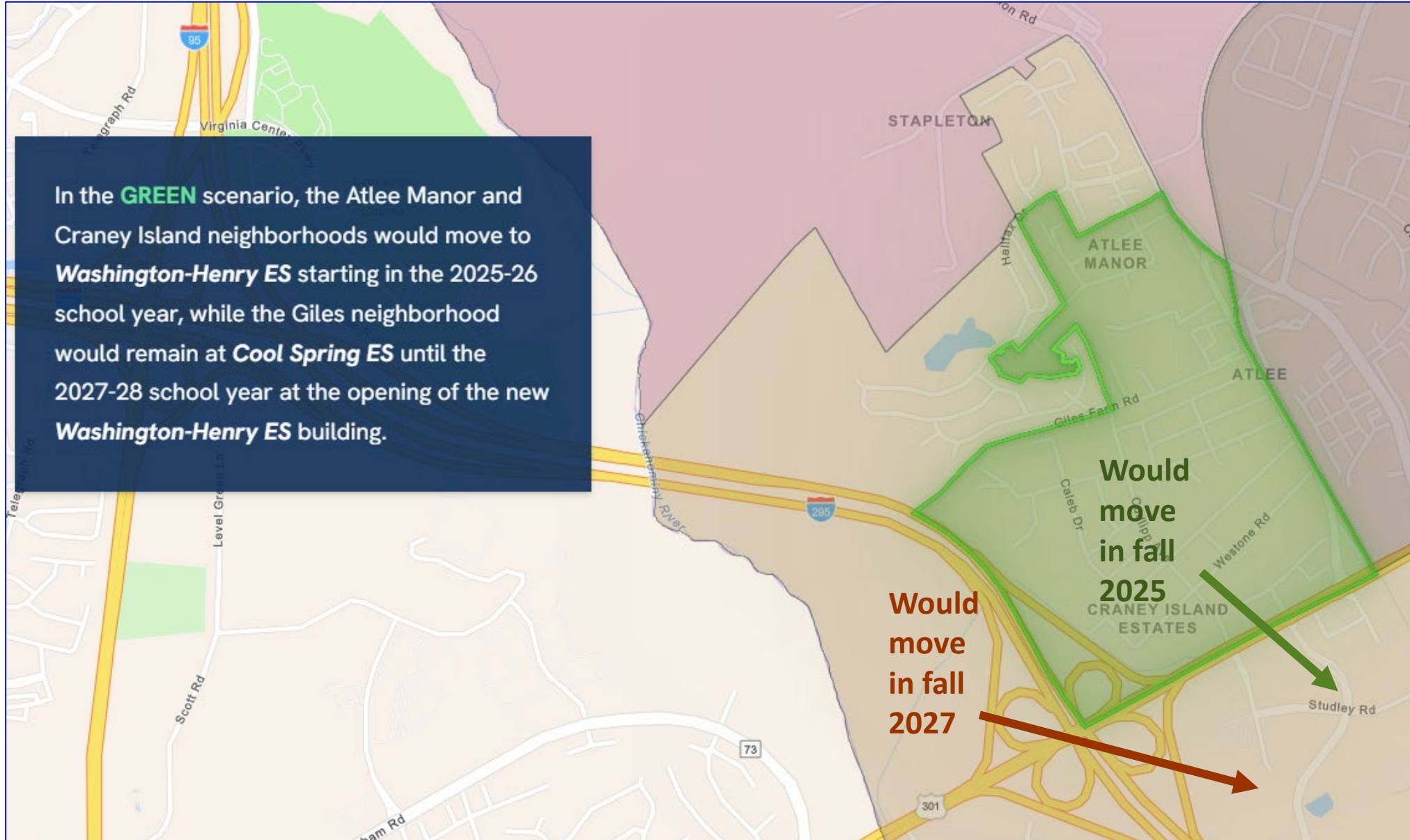
Giles, Atlee Manor, Craney Island Farms and Craney Island Estates neighborhoods move to Washington-Henry ES.

- **Washington-Henry ES** will not have the capacity to handle all the new resident students until the new school building opens for the 2027-28 school year.
- As a result, the executive team prepared two different possible implementation scenarios:
 - **Blue Scenario**
 - **Green Scenario**

Elementary School Scenarios – Blue Scenario



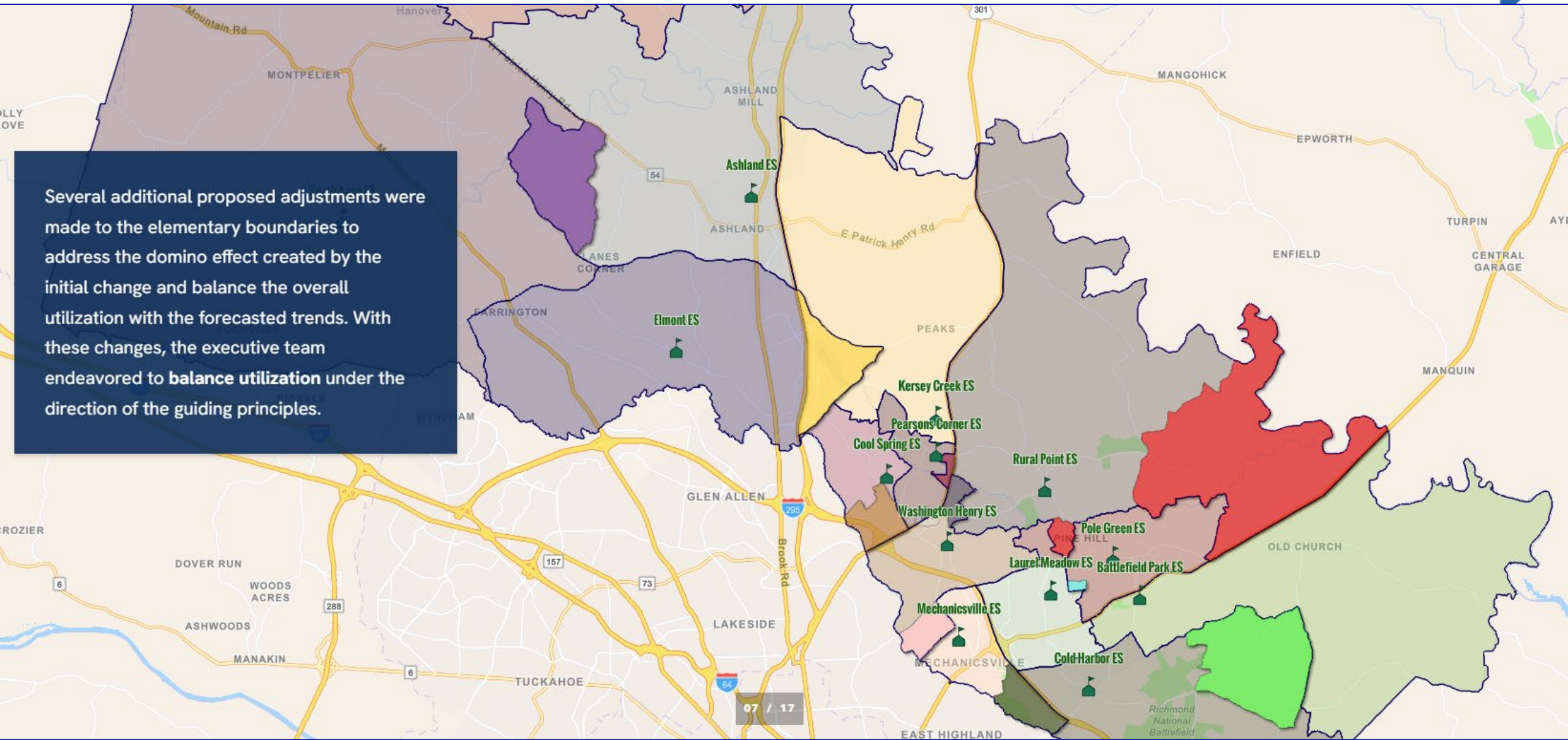
Elementary School Scenarios – Green Scenario



Elementary School Scenarios – Blue and Green



Several additional proposed adjustments were made to the elementary boundaries to address the domino effect created by the initial change and balance the overall utilization with the forecasted trends. With these changes, the executive team endeavored to **balance utilization** under the direction of the guiding principles.

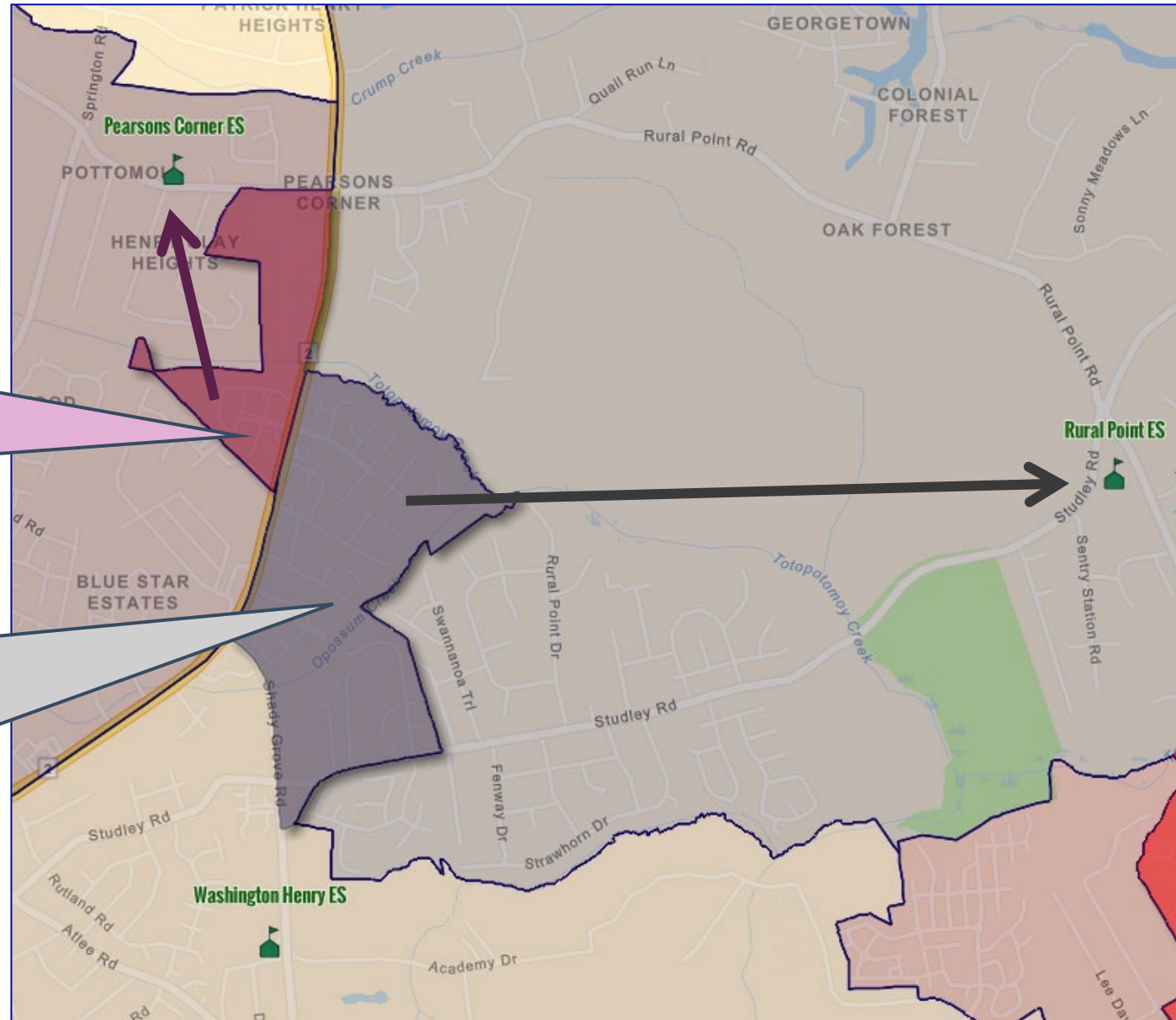


Elementary School Scenarios – Blue and Green



This area would move from **Rural Point ES** to **Pearson's Corner ES** due to its proximity and potential for future growth.

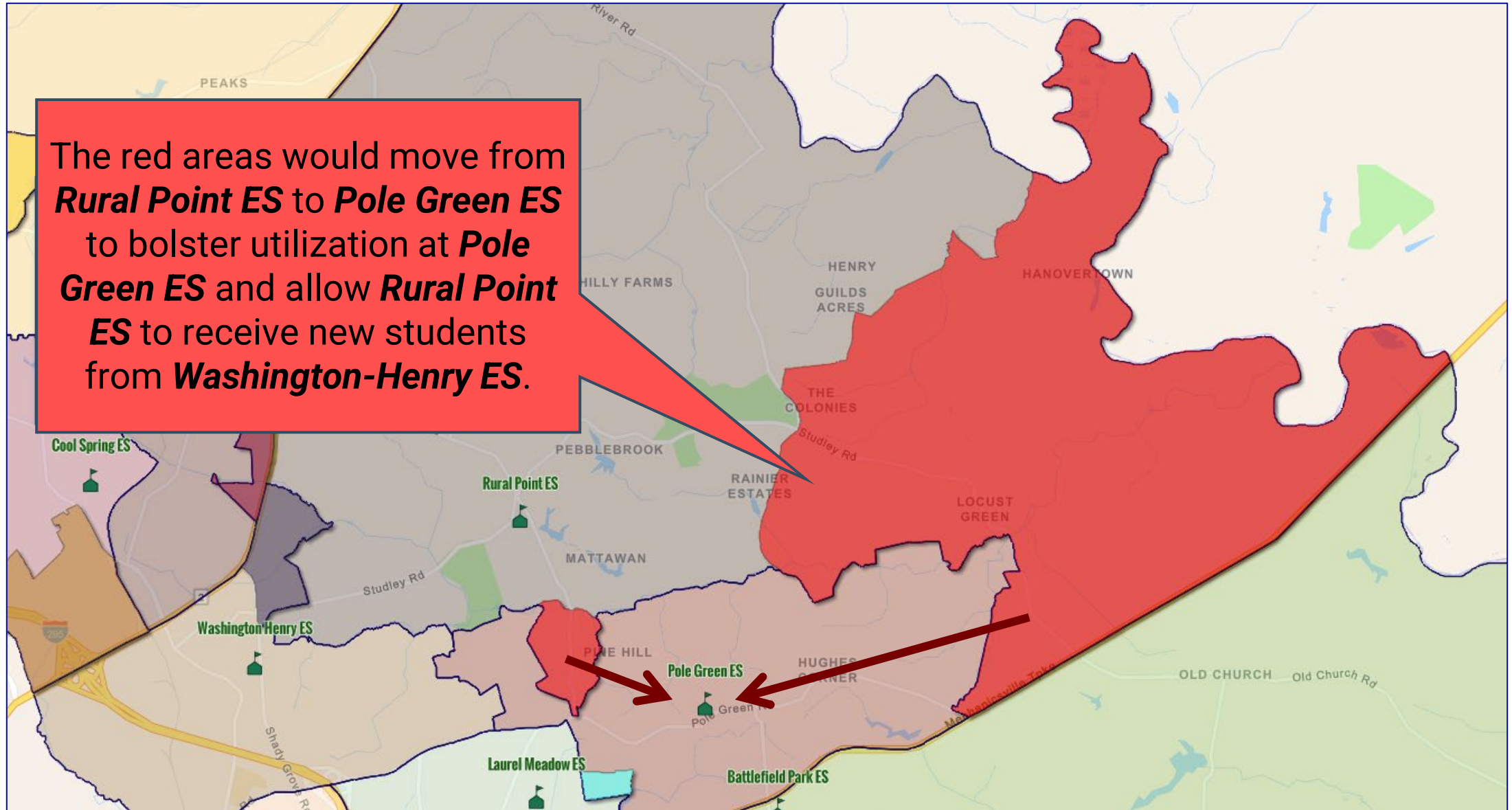
This area would move from **Washington-Henry ES** to **Rural Point ES**. This would help alleviate Washington-Henry ES due to the potential movement of students from **Cool Spring ES** to **Washington-Henry ES**.



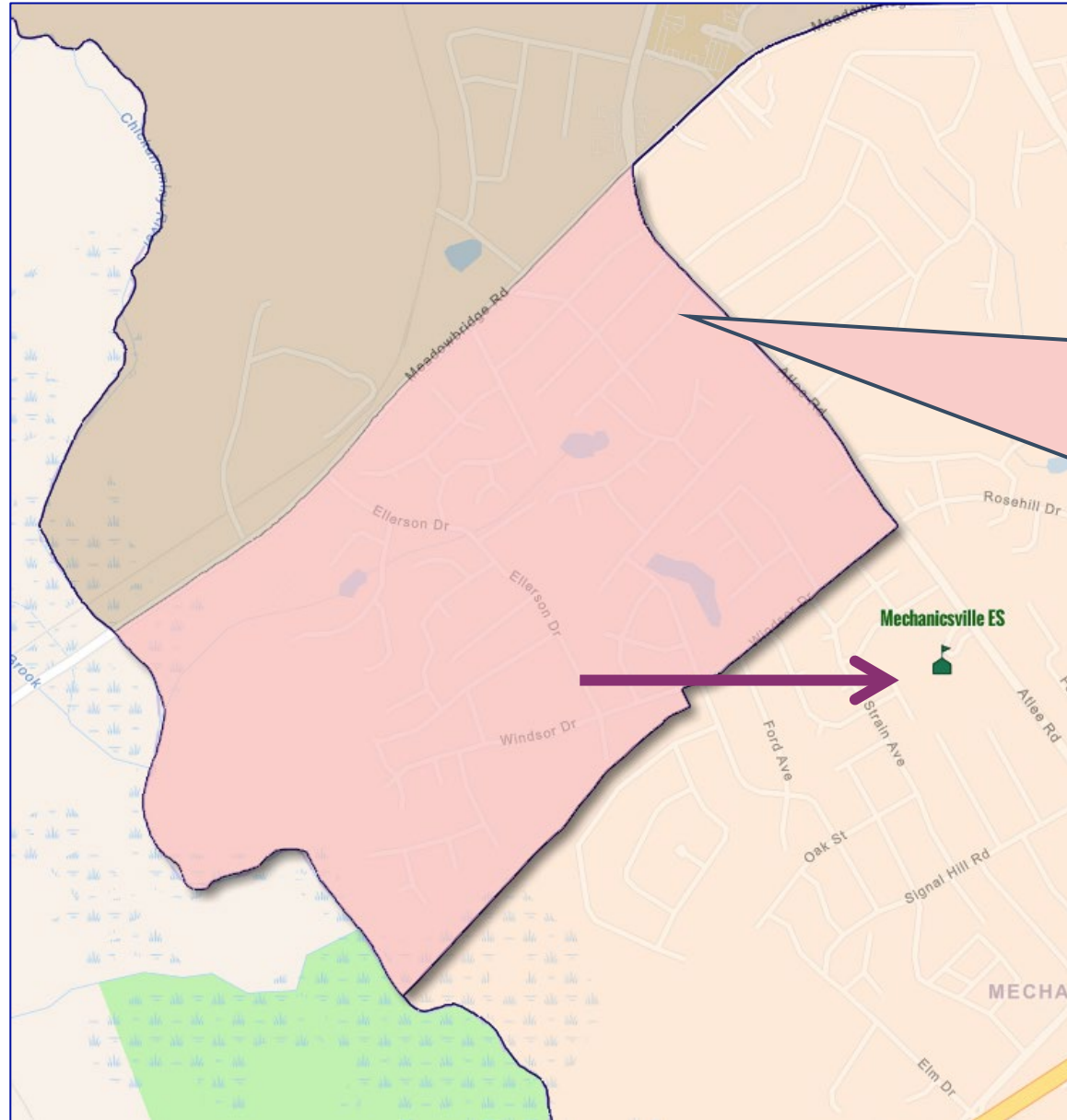
Elementary School Scenarios – Blue and Green



The red areas would move from ***Rural Point ES*** to ***Pole Green ES*** to bolster utilization at ***Pole Green ES*** and allow ***Rural Point ES*** to receive new students from ***Washington-Henry ES***.

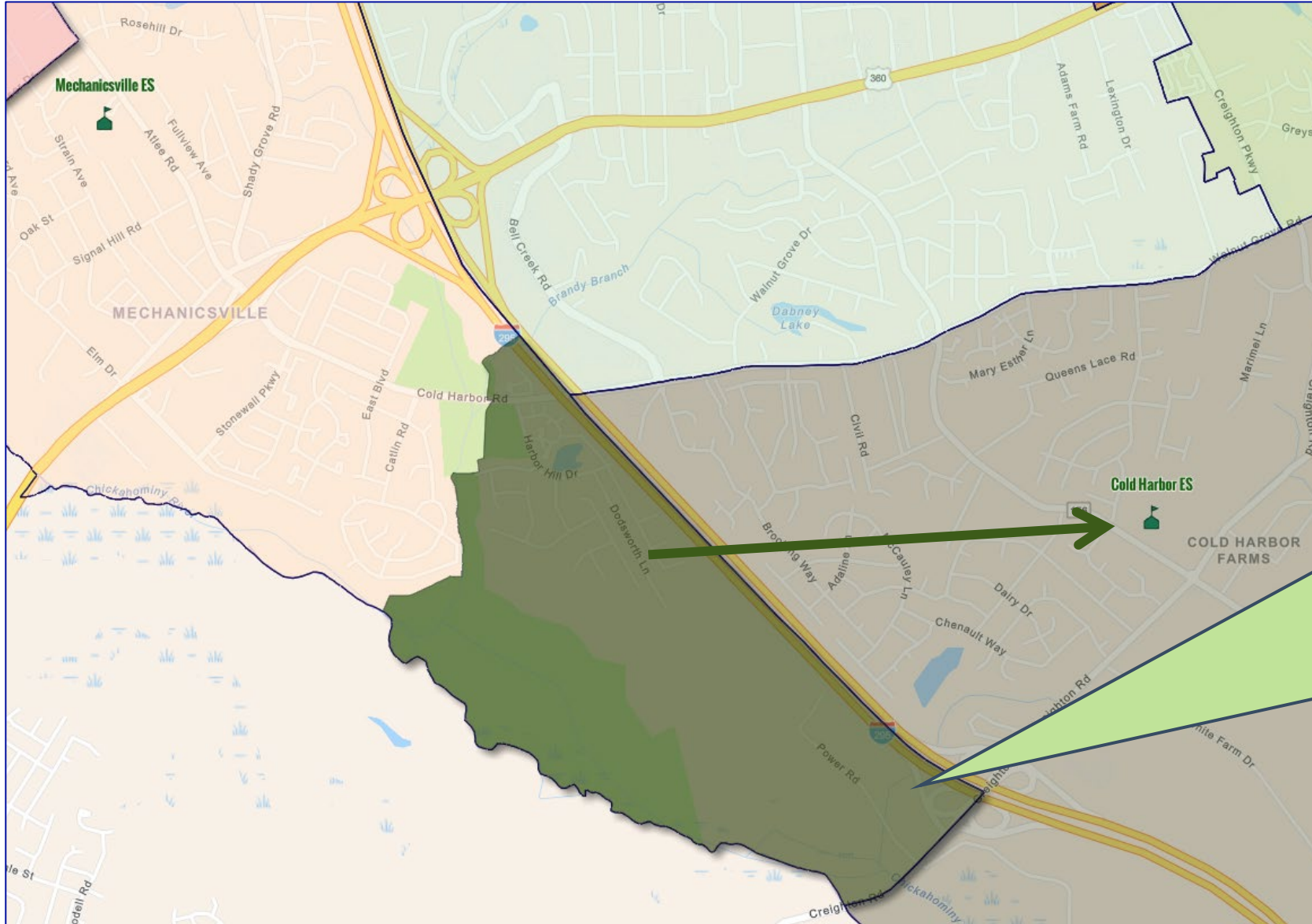


Elementary School Scenarios – Blue and Green



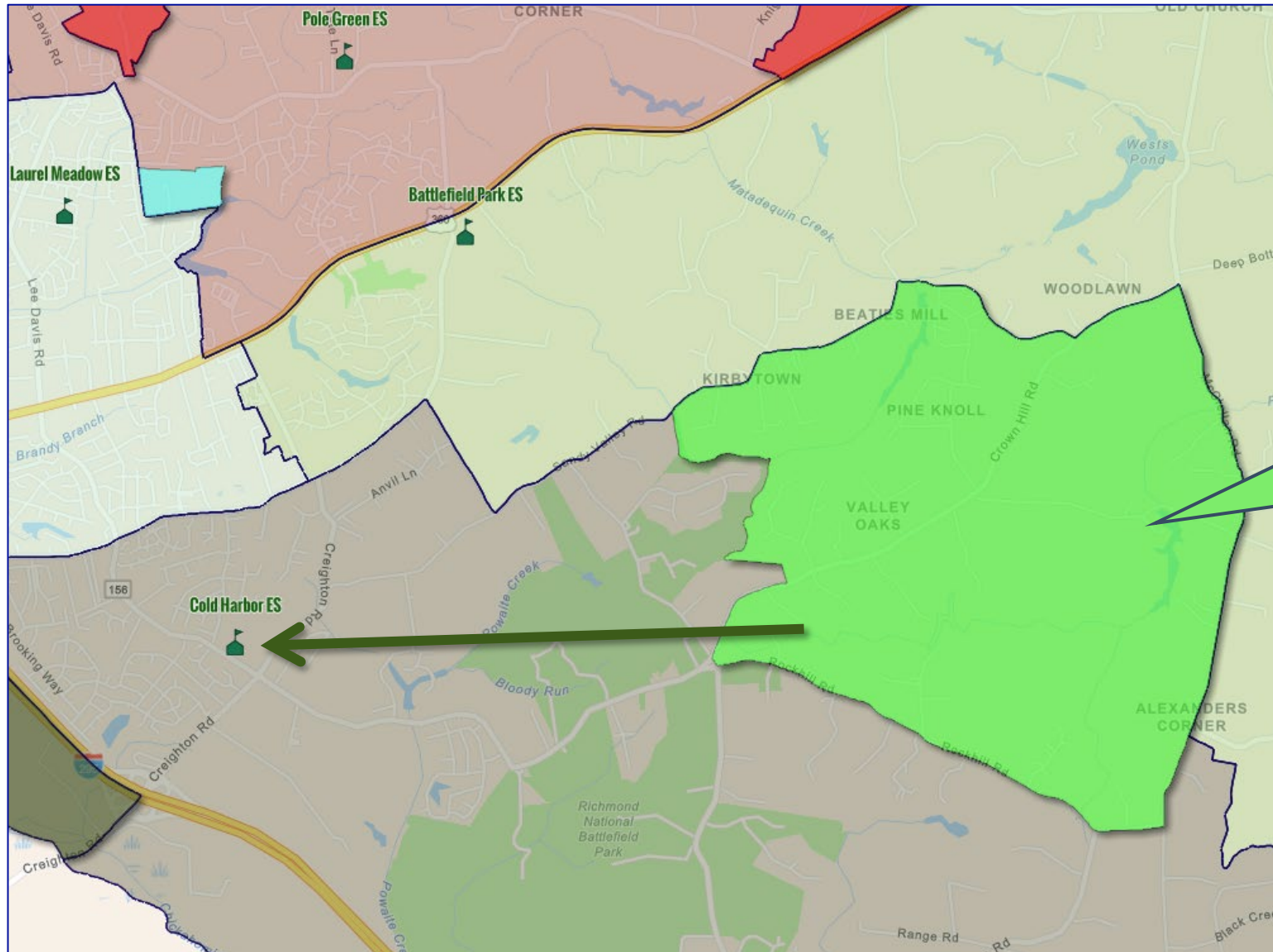
This area would move from **Washington-Henry ES** to **Mechanicsville ES**. This would help alleviate **Washington-Henry ES** due to the potential movement of students from **Cool Spring ES** to **Washington-Henry ES**. This area is south of **Meadowbridge Rd.**, a large thoroughfare along a large portion of **Washington-Henry ES**'s southern boundary.

Elementary School Scenarios – Blue and Green



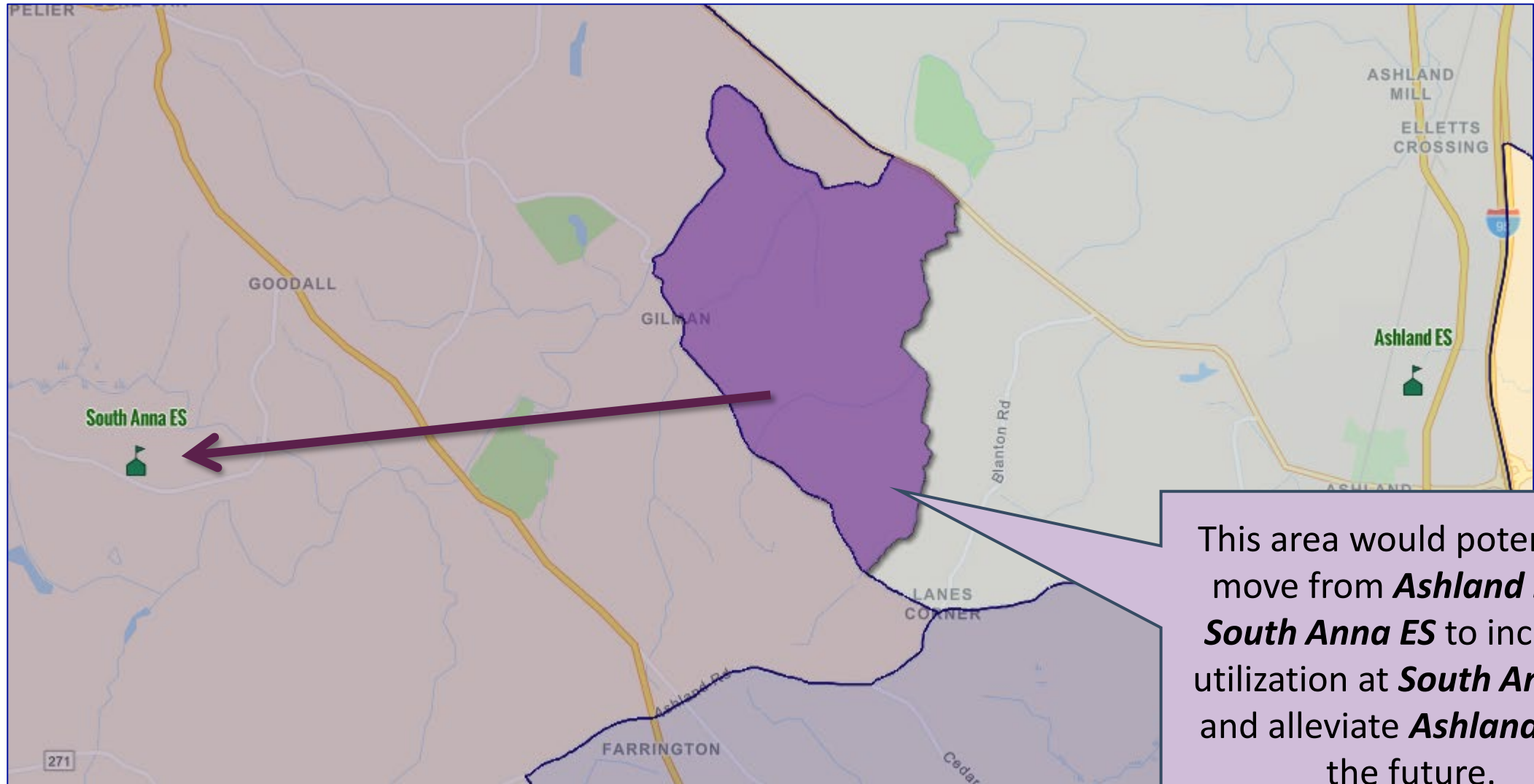
This area would move from ***Mechanicsville ES*** to ***Cold Harbor ES*** to increase utilization at ***Cold Harbor ES*** and allow ***Mechanicsville ES*** to take on potential new students from Washington-Henry ES.

Elementary School Scenarios – Blue and Green



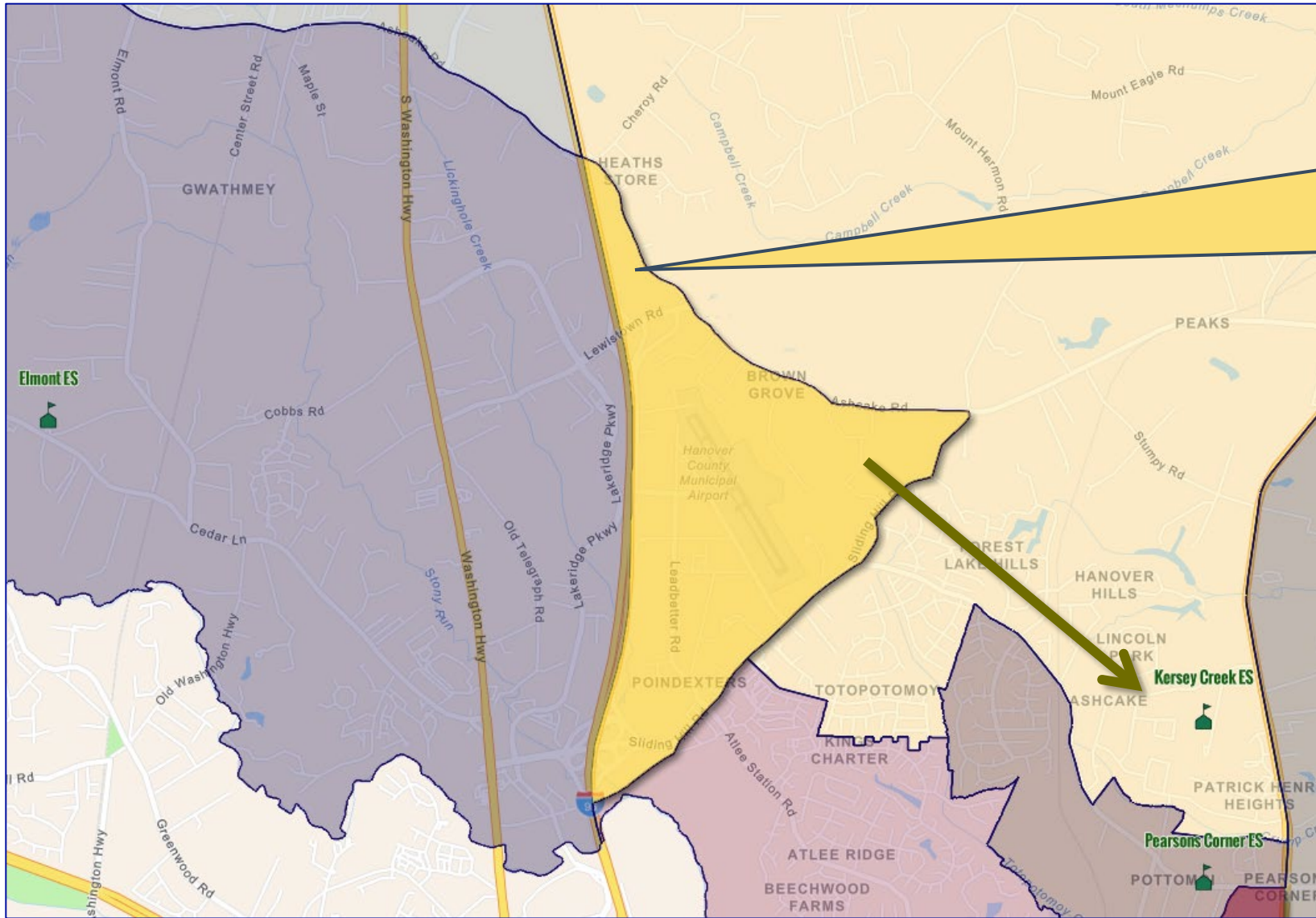
This area would potentially move from ***Cold Harbor ES*** to ***Battlefield Park ES*** to balance utilization between the two schools.

Elementary School Scenarios – Blue and Green



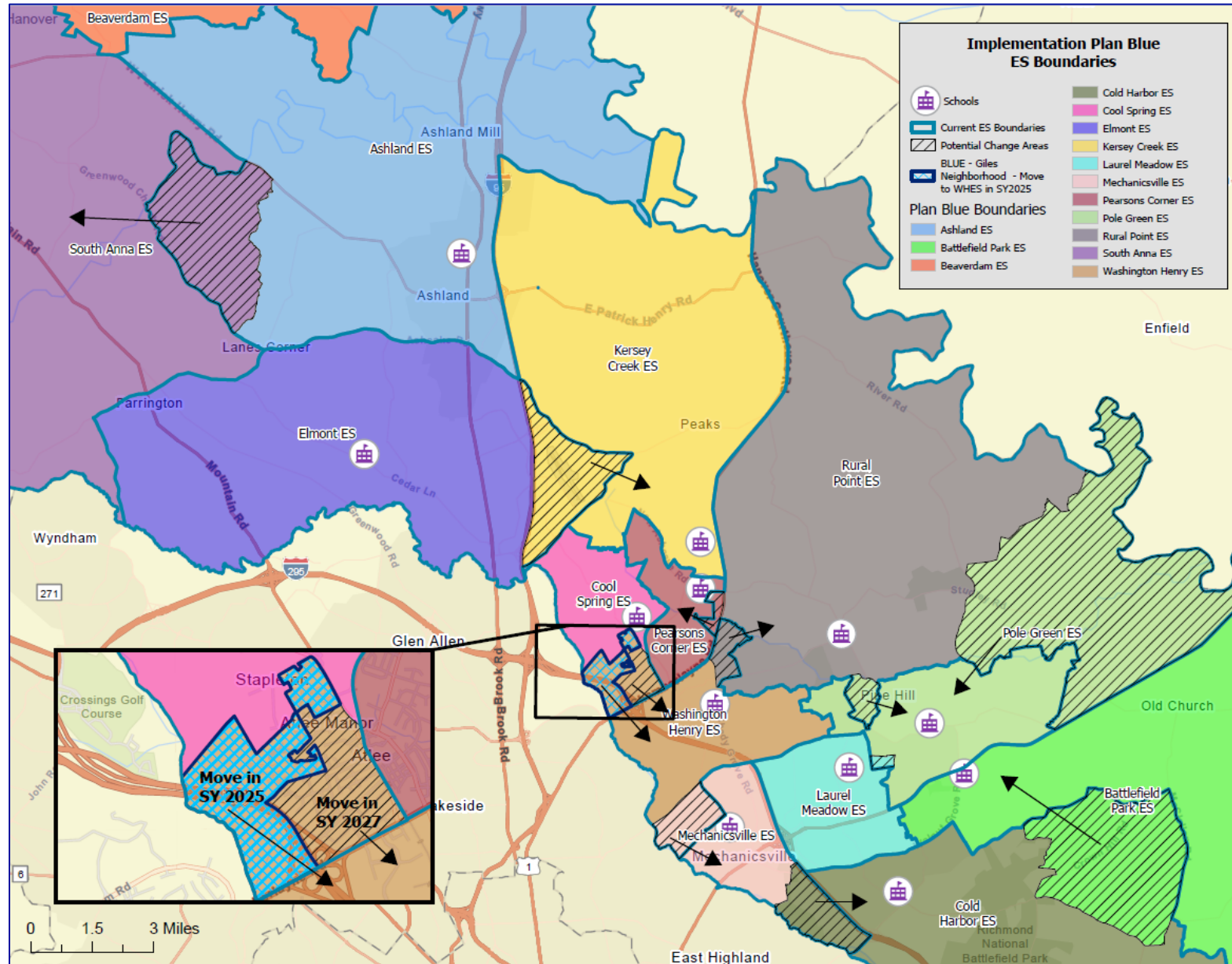
This area would potentially move from **Ashland ES** to **South Anna ES** to increase utilization at **South Anna ES** and alleviate **Ashland ES** in the future.

Elementary School Scenarios – Blue and Green

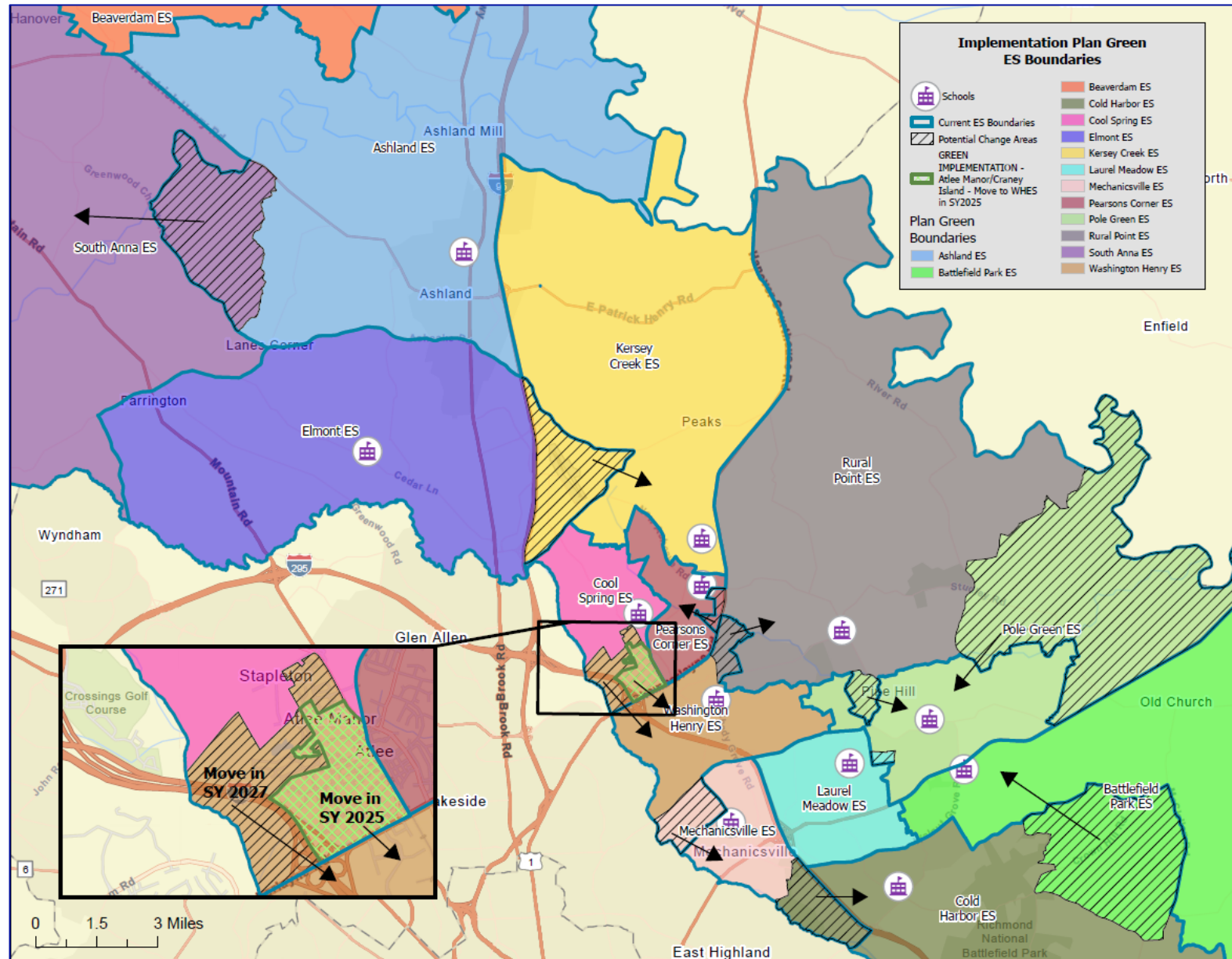


This area would potentially move from ***Elmont ES*** to ***Kersey Creek ES*** to better align the elementary zones to the middle and high school zones.

Elementary School Scenarios – Blue Scenario



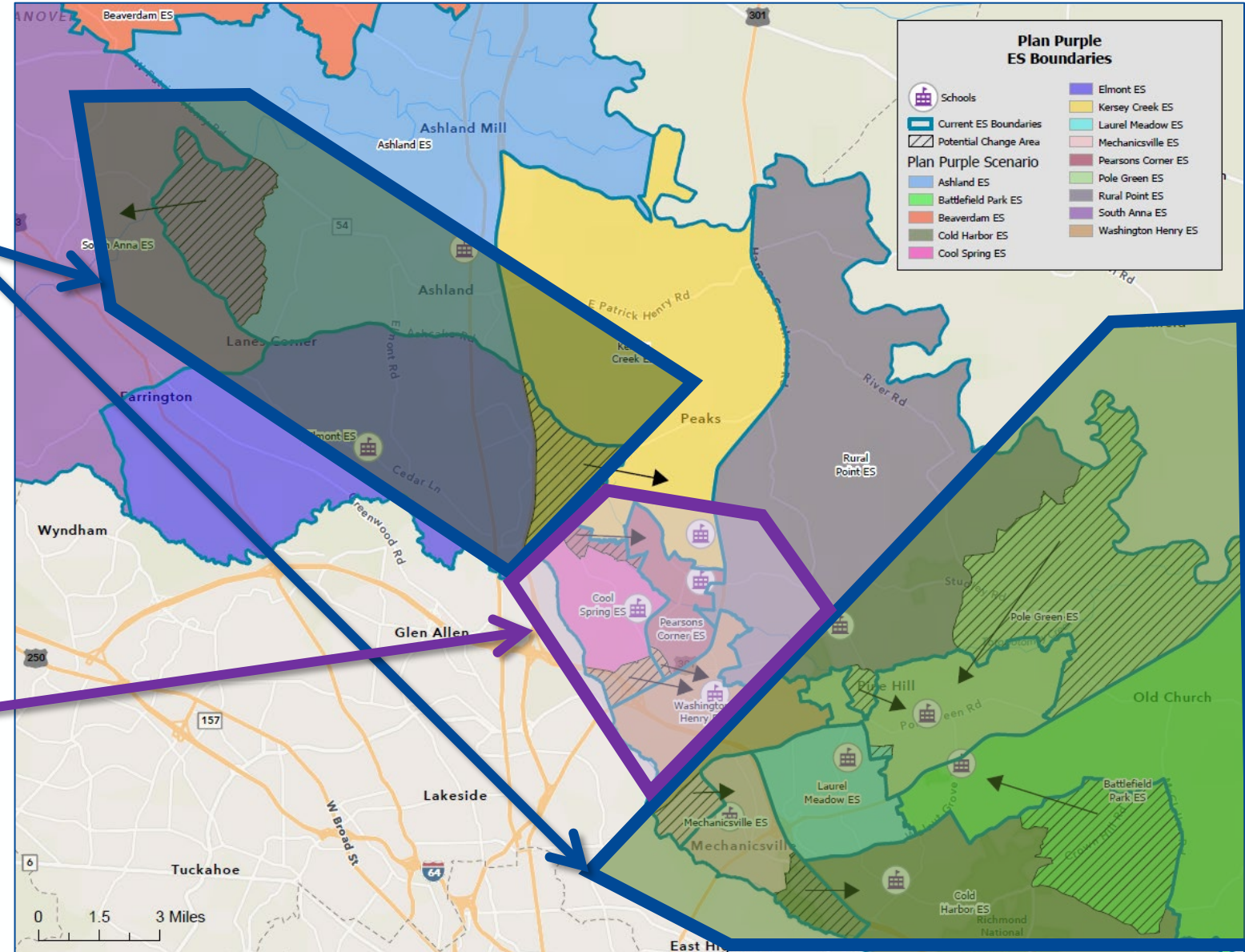
Elementary School Scenarios – Green Scenario



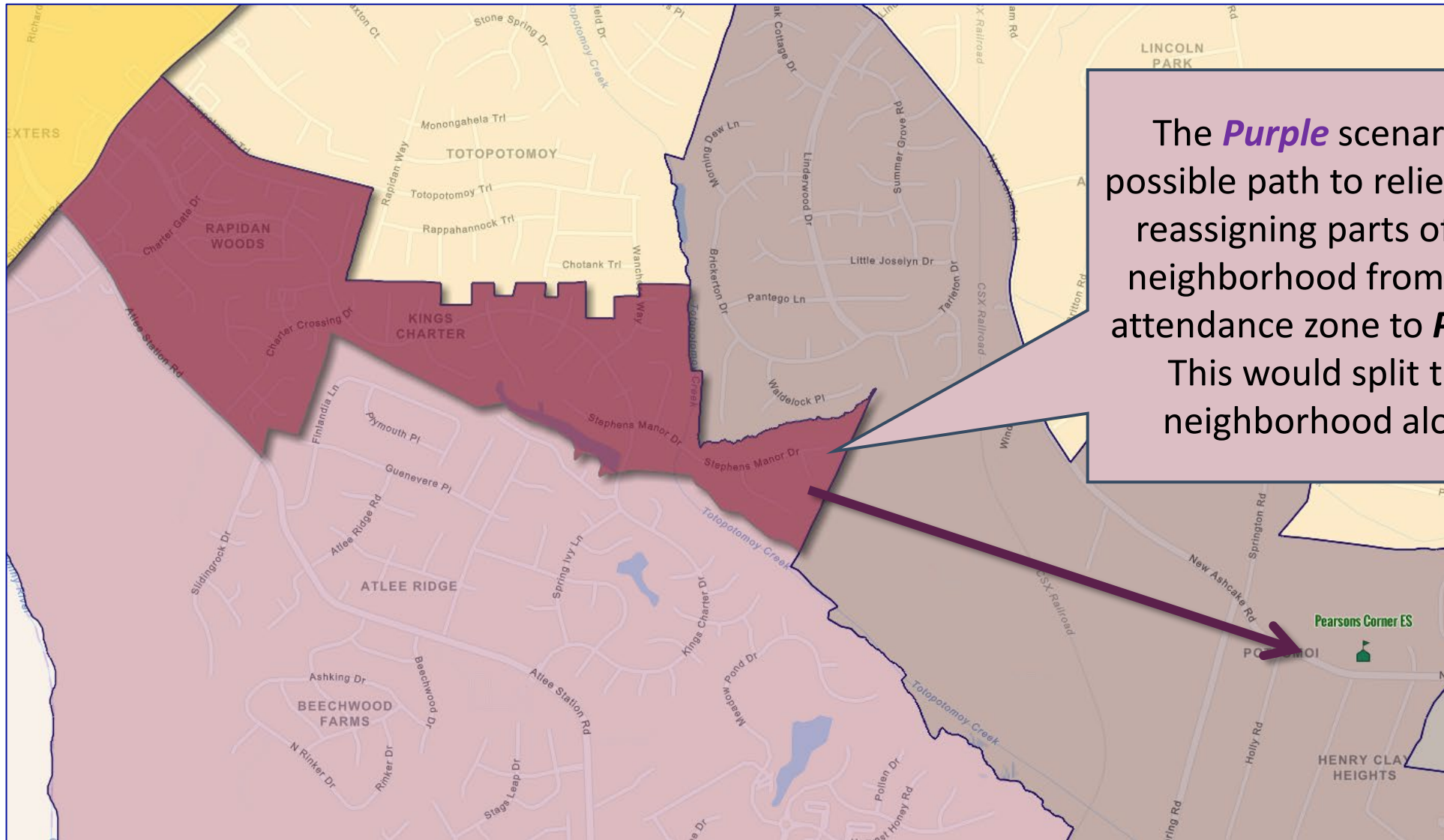
Elementary School Scenarios – Purple Scenario

These potential change areas are **THE SAME** as they are presented in the **Green** and **Blue** scenarios.

These potential change areas are **DIFFERENT** from the **Green** and **Blue** scenarios.

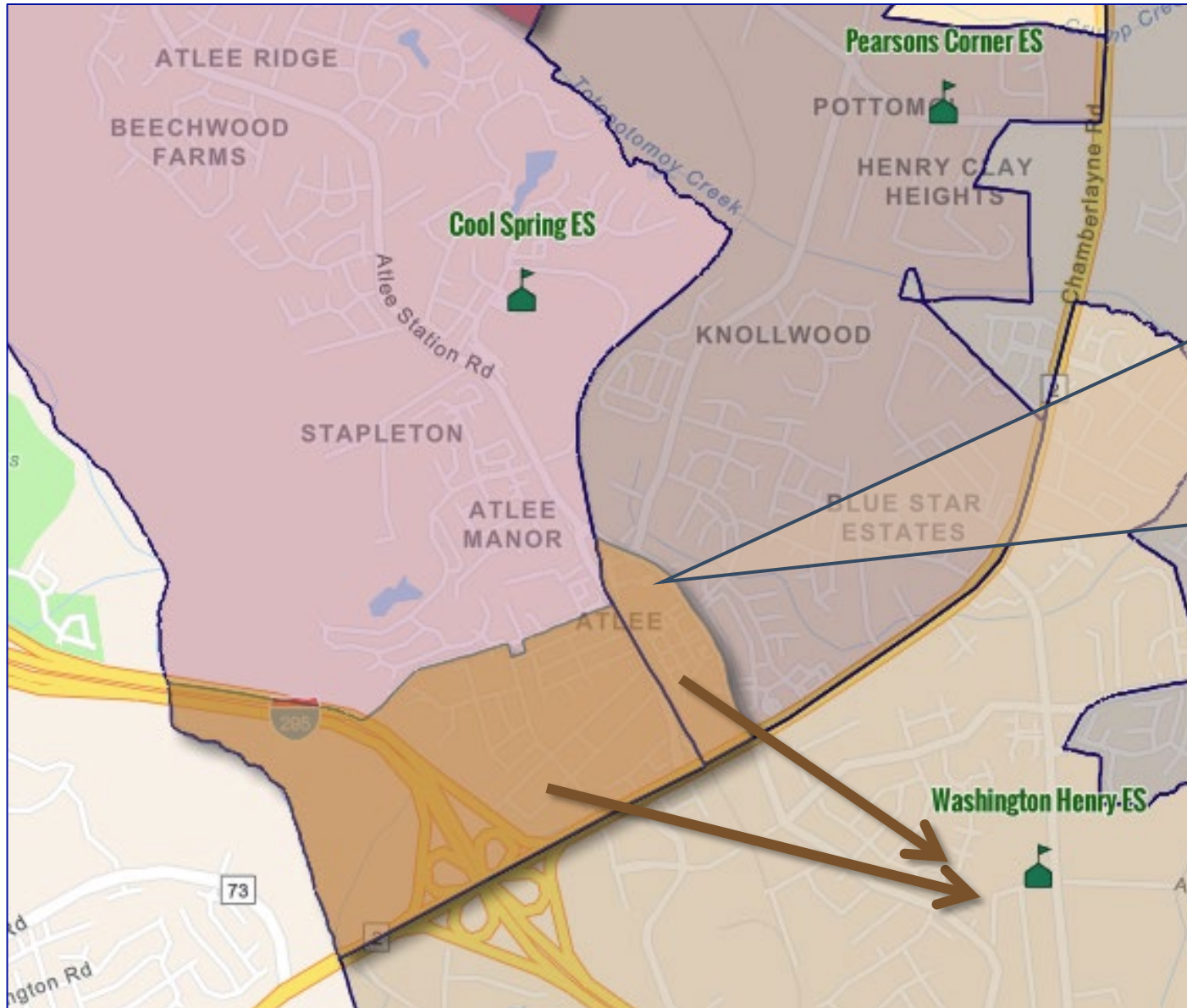


Elementary School Scenarios – Purple Scenario



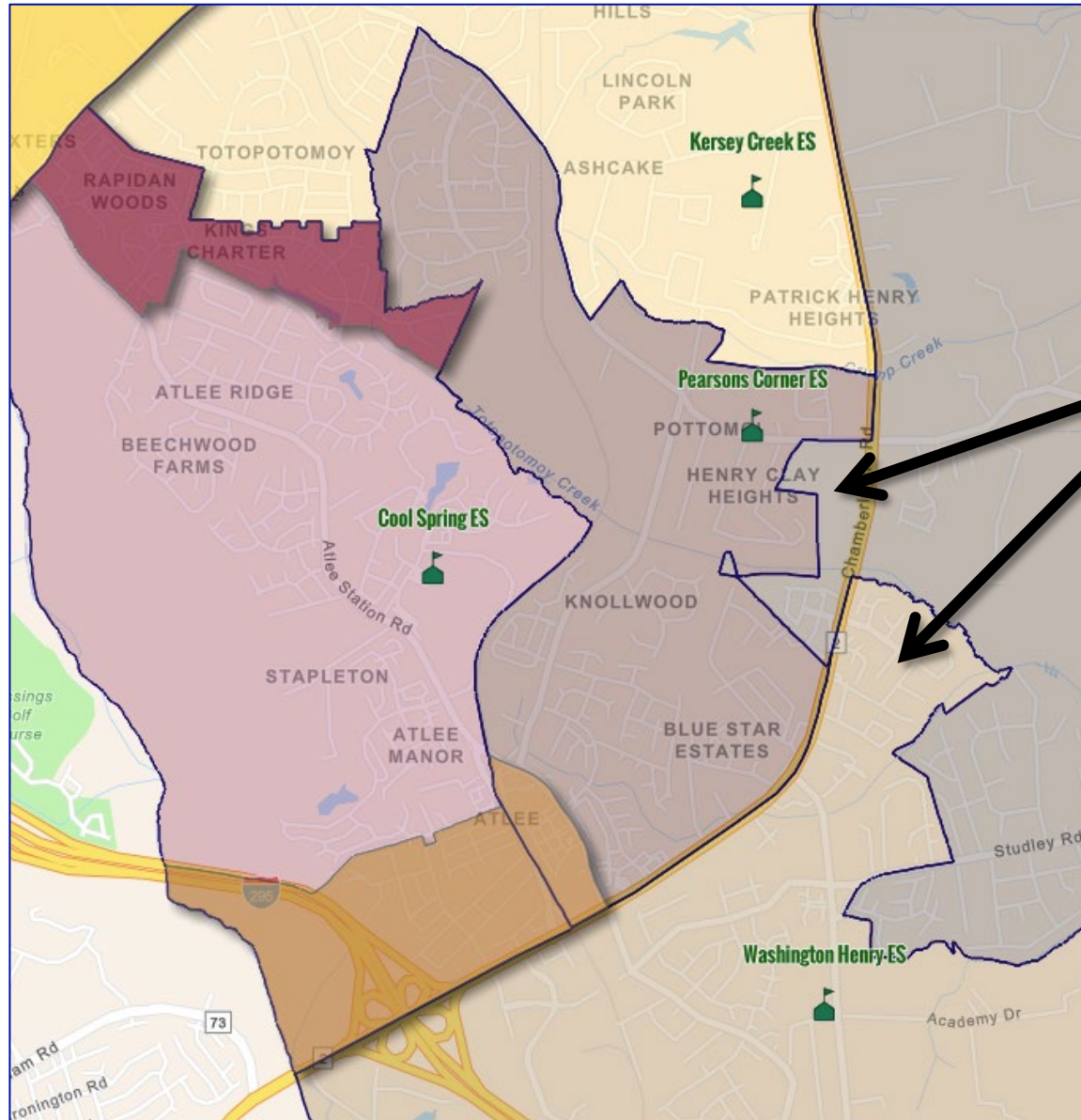
The **Purple** scenario shows another possible path to relieve **Cool Spring ES** by reassigning parts of the Kings Charter neighborhood from the **Cool Spring ES** attendance zone to **Pearson's Corner ES**. This would split the Kings Charter neighborhood along Charter Lake.

Elementary School Scenarios – Purple Scenario



The Craney Island Estates and Craney Island Farms neighborhoods would potentially change from the **Cool Spring ES** attendance zone to **Washington-Henry ES**. Additionally, the Rutland Village townhomes west of Atlee Road would move from **Pearson's Corner ES** to **Washington-Henry ES** under the **Purple** scenario. (This would help alleviate Pearson's Corner ES from the additional students coming from the Kings Charter neighborhood.)

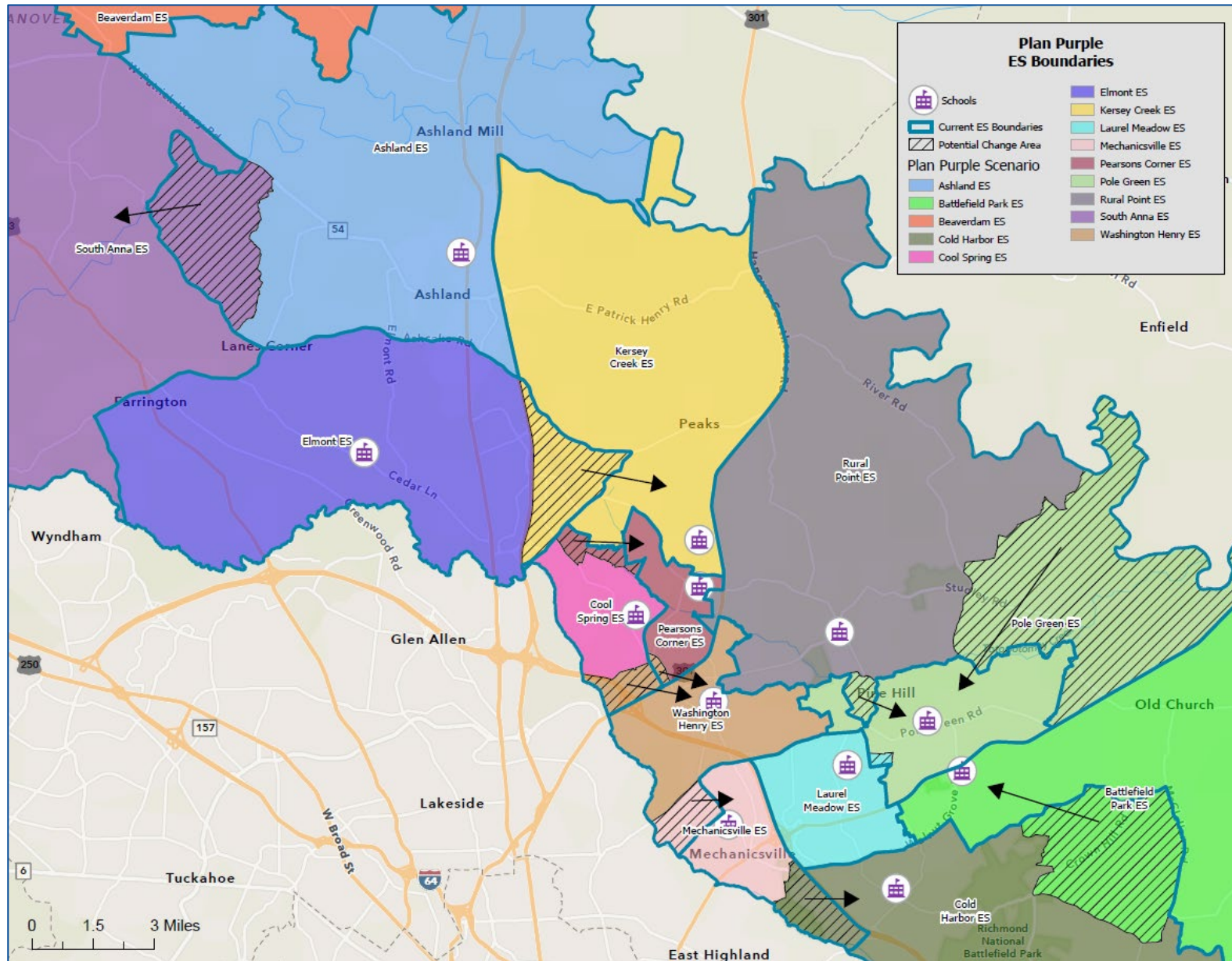
Elementary School Scenarios – Purple Scenario



The Purple scenario rolls back potential change areas (from the Blue/Green ES scenarios) east of Shady Grove Rd and west of Highway 301 south of Pearson's Corner ES.

No changes in these areas under the Purple scenario.

Elementary School Scenarios – Purple Scenario



Elementary School Scenarios



Existing Boundaries

	SY2024 Utilization	SY2029 Utilization	SY2034 Utilization
Ashland ES	84%	92%	91%
Battlefield Park ES	78%	79%	80%
Beaverdam ES	78%	86%	88%
Cold Harbor ES	70%	80%	81%
Cool Spring ES	110%	117%	115%
Elmont ES	76%	82%	82%
Kersey Creek ES	88%	88%	90%
Laurel Meadow ES	78%	75%	76%
Mechanicsville ES	78%	81%	81%
Pearsons Corner ES	78%	72%	73%
Pole Green ES	66%	64%	65%
Rural Point ES	89%	97%	99%
South Anna ES	63%	71%	70%
Washington Henry ES*	98%	77%	76%

Blue Scenario

	SY2024 Utilization	SY2029 Utilization	SY2034 Utilization
Ashland ES	80%	89%	88%
Battlefield Park ES	90%	88%	88%
Beaverdam ES	78%	86%	88%
Cold Harbor ES	74%	87%	88%
Cool Spring ES	90%	85%	84%
Elmont ES	74%	79%	80%
Kersey Creek ES	89%	89%	92%
Laurel Meadow ES	78%	75%	76%
Mechanicsville ES	83%	85%	84%
Pearsons Corner ES	86%	84%	86%
Pole Green ES	82%	78%	78%
Rural Point ES	77%	85%	84%
South Anna ES	67%	74%	74%
Washington Henry ES*	83%	84%	82%

Green Scenario

	SY2024 Utilization	SY2029 Utilization	SY2034 Utilization
Ashland ES	80%	89%	88%
Battlefield Park ES	90%	88%	88%
Beaverdam ES	78%	86%	88%
Cold Harbor ES	74%	87%	88%
Cool Spring ES	99%	85%	84%
Elmont ES	74%	79%	80%
Kersey Creek ES	89%	89%	92%
Laurel Meadow ES	78%	75%	76%
Mechanicsville ES	83%	85%	84%
Pearsons Corner ES	86%	84%	86%
Pole Green ES	82%	78%	78%
Rural Point ES	77%	85%	84%
South Anna ES	67%	74%	74%
Washington Henry ES*	64%	84%	82%

Purple Scenario

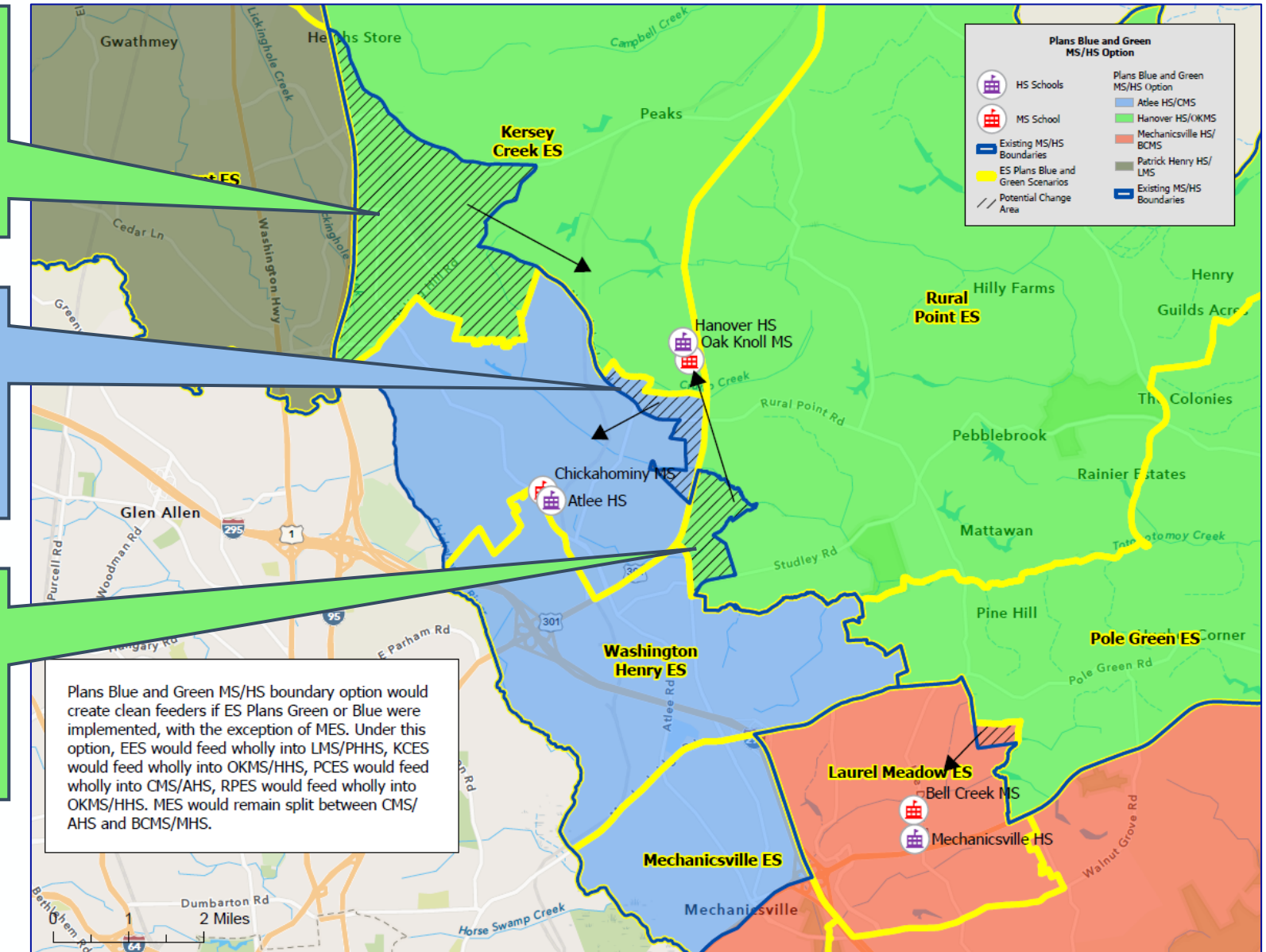
	SY2024 Utilization	SY2029 Utilization	SY2034 Utilization
Ashland ES	80%	89%	88%
Battlefield Park ES	90%	88%	88%
Beaverdam ES	78%	86%	88%
Cold Harbor ES	74%	87%	88%
Cool Spring ES	81%	91%	89%
Elmont ES	74%	79%	80%
Kersey Creek ES	89%	89%	92%
Laurel Meadow ES	78%	75%	76%
Mechanicsville ES	83%	85%	84%
Pearsons Corner ES	96%	92%	92%
Pole Green ES	82%	78%	78%
Rural Point ES	73%	82%	83%
South Anna ES	67%	74%	74%
Washington Henry ES*	90%	67%	66%

Middle School Scenarios – Options for ES Blue/Green

This area would move from **Chickahominy MS** and **Atlee HS** to **Oak Knoll MS** and **Hanover HS**. This would align with the **Kersey Creek ES** attendance zone under elementary plans "Blue" and "Green".

This area would move from **Oak Knoll MS** and **Hanover HS** to **Chickahominy MS** and **Atlee HS**. This would align with the **Pearson's Corner ES** attendance zone under the elementary "Blue" and "Green" plans.

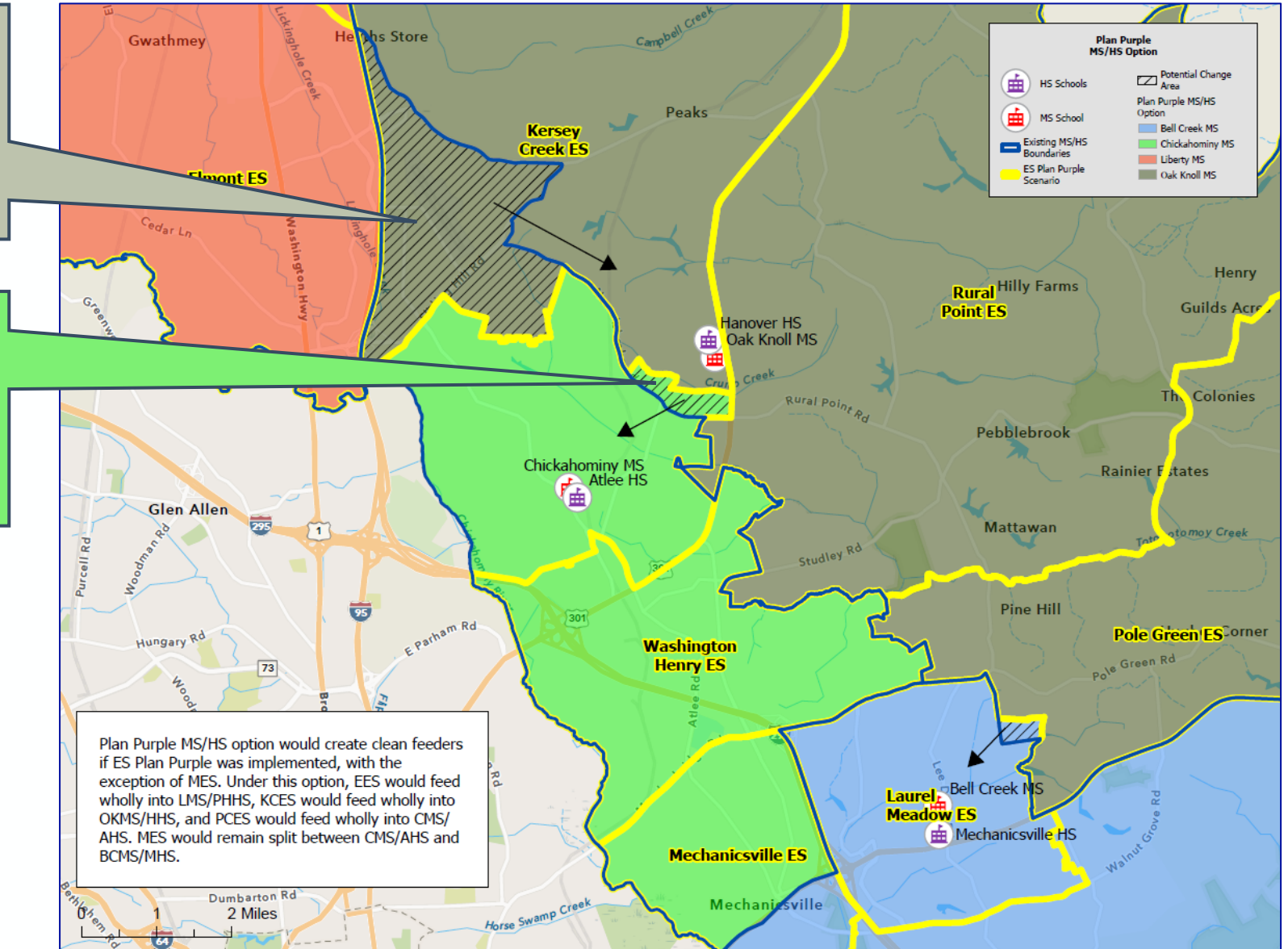
This area would move from **Chickahominy MS** and **Atlee HS** to **Oak Knoll MS** and **Hanover HS**. This would align with the proposed **Rural Point ES** attendance zone under the elementary "Blue" and "Green" plans.



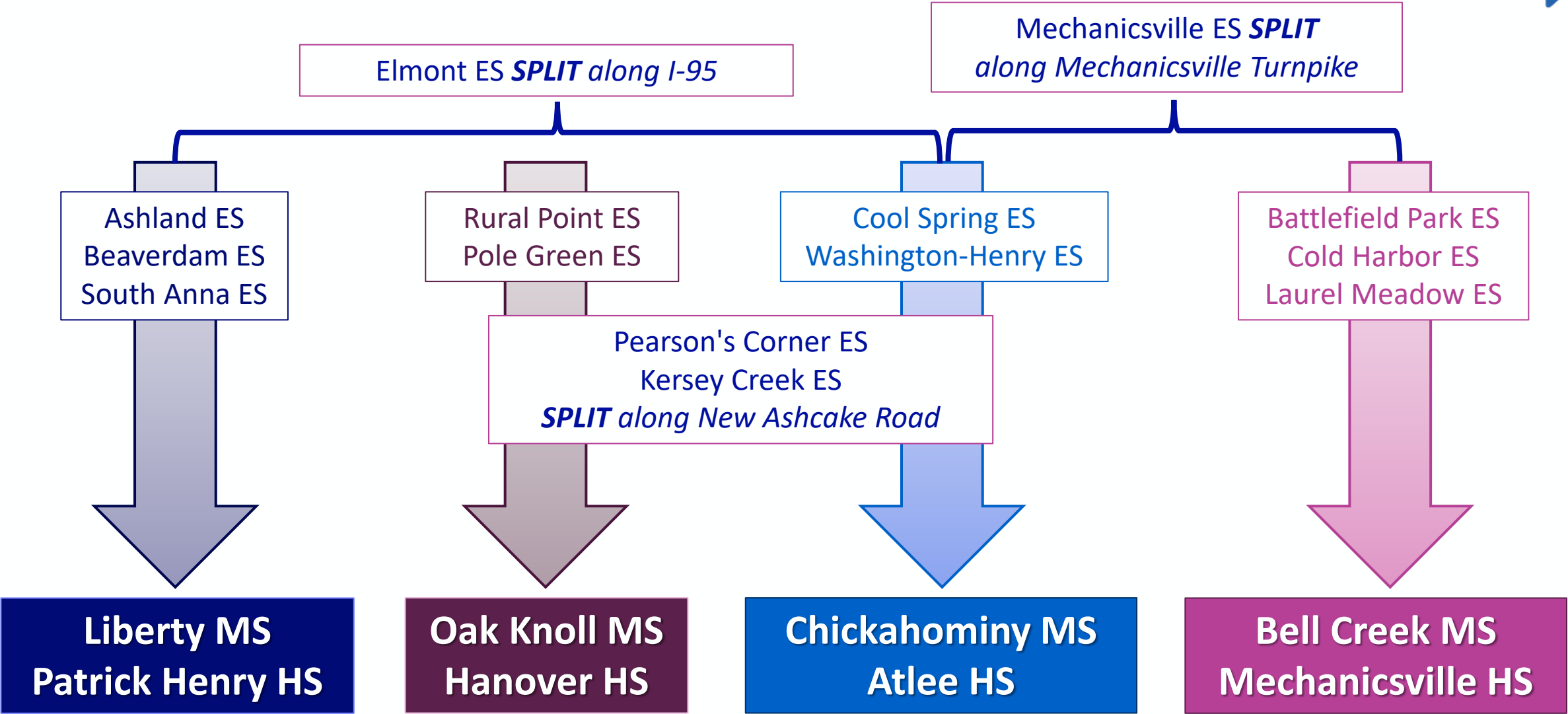
Middle School Scenarios – Options for ES Purple

This area would move from **Chickahominy MS** and **Atlee HS** to **Oak Knoll MS** and **Hanover HS**. This would align with the **Kersey Creek ES** attendance zone under elementary plan "Purple".

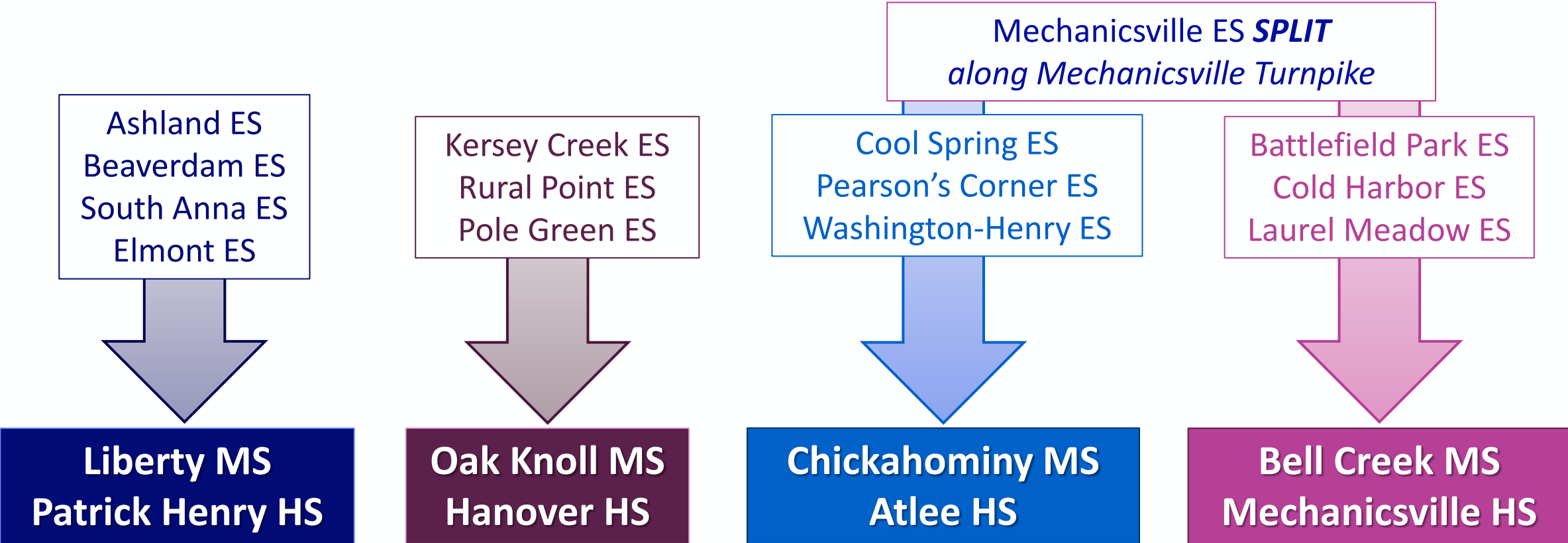
This area would move from **Oak Knoll MS** and **Hanover HS** to **Chickahominy MS** and **Atlee HS**. This would align with the **Pearson's Corner ES** attendance zone under the elementary "Purple" plan.



Current Feeder Patterns



New Feeder Patterns for Blue/Green/Purple Scenarios*



*If the MS/HS boundaries were to remain the same, the total number of split feeder would **increase** under all three ES scenarios.

Middle School Scenarios – Boundary Options



Existing Boundaries

	SY2024 Utilization	SY2029 Utilization	SY2034 Utilization
Chickahominy MS	95%	98%	99%
Oak Knoll MS	63%	65%	69%
Bell Creek MS	77%	87%	87%
Liberty MS	79%	80%	89%
Atlee HS	93%	102%	103%
Hanover HS	66%	64%	66%
Mechanicsville HS	76%	69%	77%
Patrick Henry HS	88%	84%	87%

Blue/Green Boundary Option

SY2024 Utilization	SY2029 Utilization	SY2034 Utilization
85%	91%	93%
73%	71%	75%
77%	87%	87%
79%	80%	89%
82%	92%	96%
77%	73%	73%
76%	69%	77%
88%	84%	87%

Purple Boundary Option

SY2024 Utilization	SY2029 Utilization	SY2034 Utilization
88%	92%	94%
70%	70%	74%
77%	87%	87%
79%	80%	89%
86%	95%	97%
73%	71%	72%
76%	69%	77%
88%	84%	87%

Resident Students Living in Potential Change Areas



Scenario Blue for ES/MS/HS

		New School of Residence (K-5)											
		Battlefield Park ES	Cold Harbor ES	Kersey Creek ES	Laurel Meadow ES	Mechanicsville ES	Pearson's Corner ES	Pole Green ES	Rural Point ES	South Anna ES	Washington-Henry ES (2025)	Washington-Henry ES (2027)	Grand Total
Current School of Residence (K-5)	Ashland ES									30			30
	Cold Harbor ES	61											61
	Cool Spring ES										154	83	237
	Elmont ES			10									10
	Mechanicsville ES		85										85
	Pole Green ES				0								0
	Rural Point ES						58	119					177
	Washington-Henry ES					124			88				212
Grand Total		61	85	10	0	124	58	119	88	30	154	83	812

		New School of Residence (6-8)			
		Bell Creek MS	Chickahominy MS	Oak Knoll MS	Grand Total
Current School of Residence (6-8)	Chickahominy MS			160	160
	Oak Knoll MS	0	28		28
	Grand Total	0	28	160	188

		New School of Residence (9-12)			
		Atlee HS	Hanover HS	Mechanicsville HS	Grand Total
Current School of Residence (9-12)	Atlee HS		198		198
	Hanover HS	13		0	13
	Grand Total	13	198	0	211

Resident Students Living in Potential Change Areas

Scenario Green for ES/MS/HS

		New School of Residence (K-5)											
		Battlefield Park ES	Cold Harbor ES	Kersey Creek ES	Laurel Meadow ES	Mechanicsville ES	Pearson's Corner ES	Pole Green ES	Rural Point ES	South Anna ES	Washington-Henry ES (2025)	Washington-Henry ES (2027)	Grand Total
Current School of Residence (K-5)	Ashland ES									30			30
	Cold Harbor ES	61											61
	Cool Spring ES										83	154	237
	Elmont ES			10									10
	Mechanicsville ES		85										85
	Pole Green ES				0								0
	Rural Point ES						58	119					177
	Washington-Henry ES					124			88				212
Grand Total		61	85	10	0	124	58	119	88	30	83	154	812

		New School of Residence (6-8)			
		Bell Creek MS	Chickahominy MS	Oak Knoll MS	Grand Total
Current School of Residence (6-8)	Chickahominy MS			160	160
	Oak Knoll MS	0	28		28
	Grand Total	0	28	160	188

		New School of Residence (9-12)			
		Atlee HS	Hanover HS	Mechanicsville HS	Grand Total
Current School of Residence (9-12)	Atlee HS		198		198
	Hanover HS	13		0	13
	Grand Total	13	198	0	211

Resident Students Living in Potential Change Areas

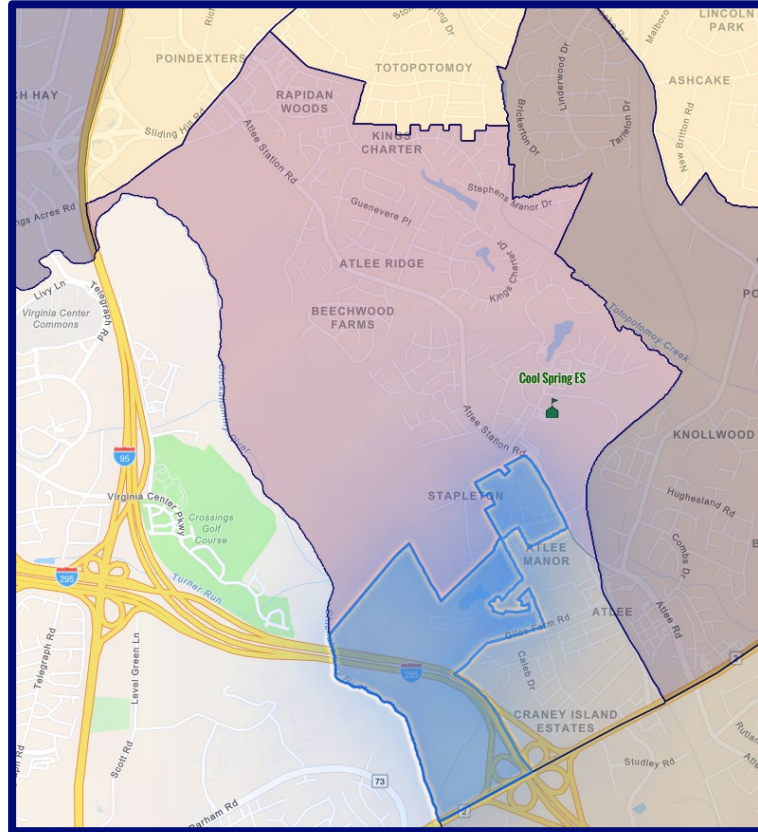


Scenario Purple for ES/MS/HS

New School of Residence (K-5)										
	Battlefield Park ES	Cold Harbor ES	Kersey Creek ES	Laurel Meadow ES	Mechanicsville ES	Pearson's Corner ES	Pole Green ES	South Anna ES	Washington-Henry ES	Grand Total
Current School of Residence (K-5)	Ashland ES							30		30
	Cold Harbor ES	61								61
	Cool Spring ES					149			72	221
	Elmont ES			10						10
	Mechanicsville ES		85							85
	Pearson's Corner ES								20	20
	Pole Green ES			0						0
	Rural Point ES						119			119
	Washington-Henry ES				124					124
Grand Total										
	61	85	10	0	124	149	119	30	92	670

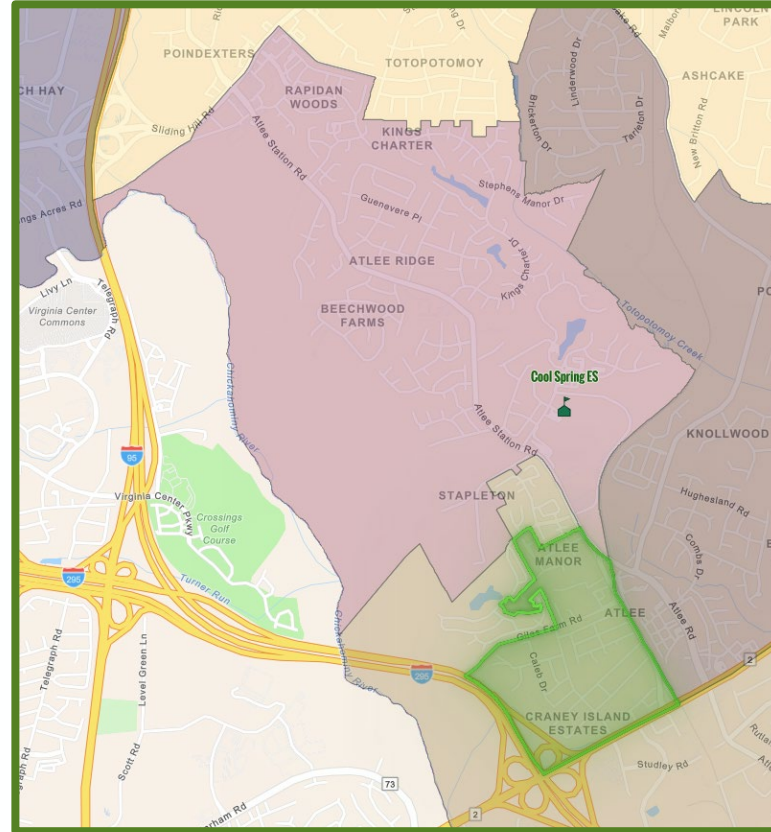
New School of Residence (6-8)					New School of Residence (9-12)				
	Bell Creek MS	Chickahominy MS	Oak Knoll MS	Grand Total		Atlee HS	Hanover HS	Mechanicsville HS	Grand Total
Current School of Residence (6-8)	Chickahominy MS		101	101	Current School of Residence (9-12)	Atlee HS	128		128
	Oak Knoll MS	0	8	8		Hanover HS	7	0	7
	Grand Total	0	8	109		Grand Total	7	128	135

Blue Scenario



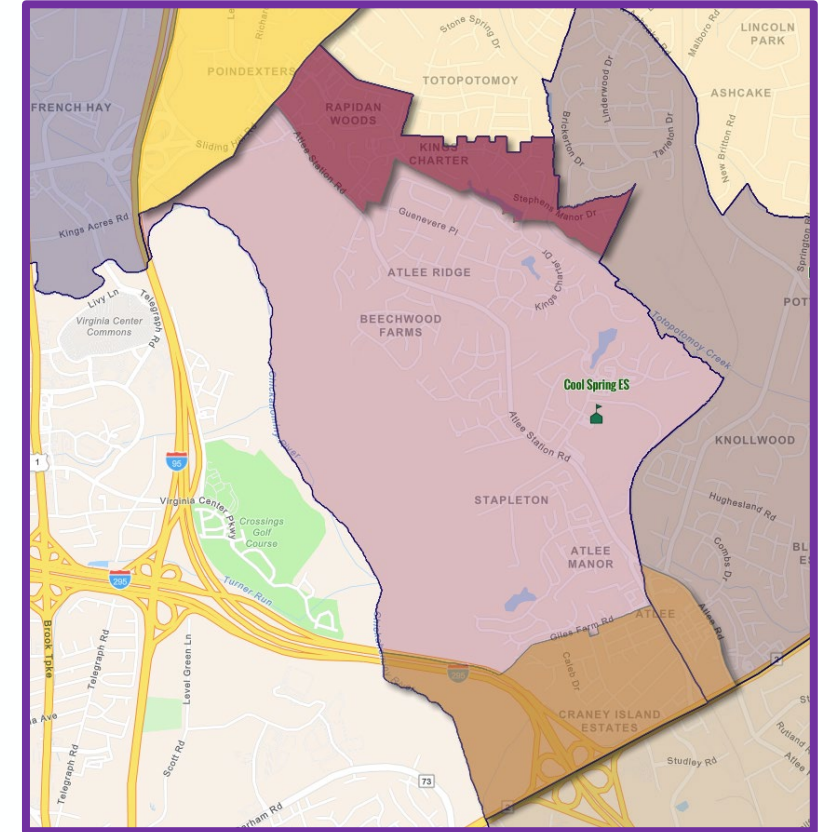
Giles moves to WHES first
(fall 2025)

Green Scenario



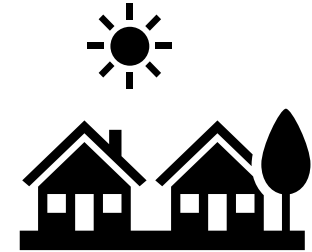
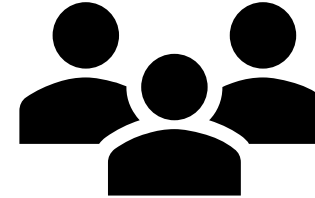
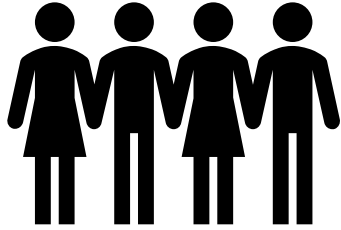
Atlee Manor and Craney Island
move to WHES first (fall 2025)

Purple Scenario



Splits Kings Charter,
no phased implementation

Hanover County Public Schools Community Meetings



MGT will host three in-person community engagement meetings next month to receive input on the draft boundary options.

The three meetings will be held as follows:

- ❑ **Monday, January 27 at 7 p.m. at Atlee High School**
- ❑ **Tuesday, January 28 at 7 p.m. at Patrick Henry High School**
- ❑ **Wednesday, January 29 at 7 p.m. at Mechanicsville High School**

Virtual information will be provided on Thursday, January 30. Feedback is welcome – the survey period will be from 1/30-2/10. Thank you!

MGT

Thank you