

# 2023 ANNUAL GROWTH REPORT



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DEPARTMENT OF PLANNING AND ZONING**

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**"MARYLAND'S NEW CENTER OF OPPORTUNITY"**

# The 2023 Annual Growth Report

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## INTRODUCTION

The Harford County Annual Growth Report, in accordance with State law and the Harford County Zoning Code, provides information on development activity and planning programs to ensure that these activities are being completed in a manner consistent with the State's goals and visions. This report also addresses the implementation status of the County's Master Plan, known as HarfordNEXT.

Harford County, since July 2010, is also required to submit a report to the Maryland Department of Planning (MDP) regarding its Adequate Public Facilities (APF) laws and any development restrictions within Priority Funding Areas (PFAs). Harford County provides this information annually to MDP.

The 2023 Annual Growth Report is an ongoing analysis of growth trends, facility capacity, and service performance. The report provides information on present development activity, as well as past trends and future projections for Harford County and the region. The report contains information on updates to the County's Development Regulations and updates of all planning documents as required by the State. It also addresses State requirements regarding planning consistency and opportunities for improving the planning process.

This report was prepared by the Department of Planning and Zoning in coordination with the Department of Public Works, Harford County Public Schools, Harford County Public Library, Harford County Sheriff's Office, and the Baltimore Metropolitan Council (BMC).

The information in this report will be utilized by public officials, citizens, and private developers to:

- Assess facility adequacy during the development review and approval process.
- Assess facility capacity when considering zoning reclassifications.
- Support the evaluation of priority projects in the annual Capital Budget review.
- Identify critical deficiencies which require prompt attention by the County.

# GROWTH TRENDS

## Regional Data

In accordance with the Harford County Adequate Public Facilities provisions of the Zoning Code, the annual growth report must include data on growth trends for the previous one-year and five-year period, including comparisons with the other jurisdictions in the Baltimore region. Tables 1A – 5A (Appendix A) address the requirements specified in §267-126 A (2) of the Harford County Zoning Code.

### *Baltimore Region Permit Activity*

Harford County's share of the region's residential permits over the past five years represents 13% of the region's total permit activity. Harford County's share of the regional residential building permits activity decreased 0.5% between 2022 and 2023 (Figure 1). See Table 1A in Appendix A for residential permit activity for the Baltimore Region for the 2019 to 2023 period.

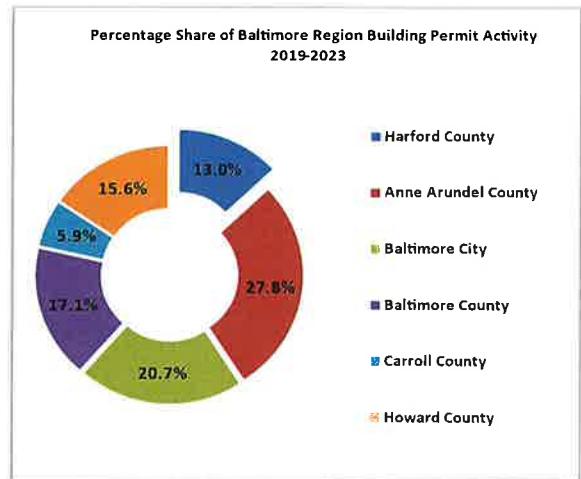
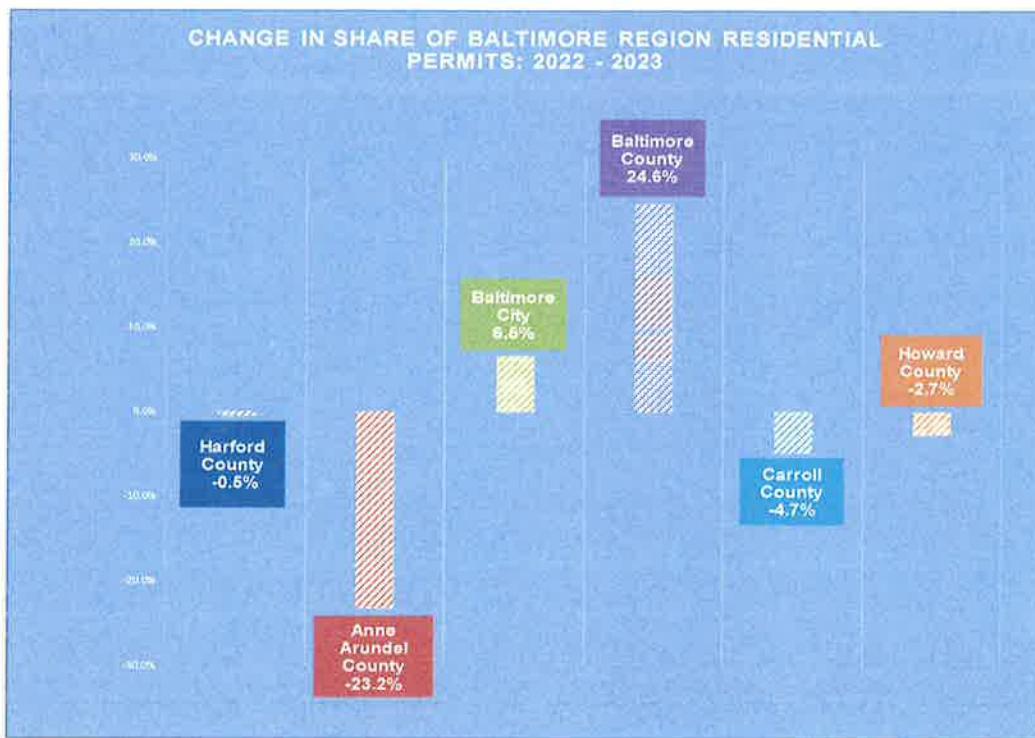
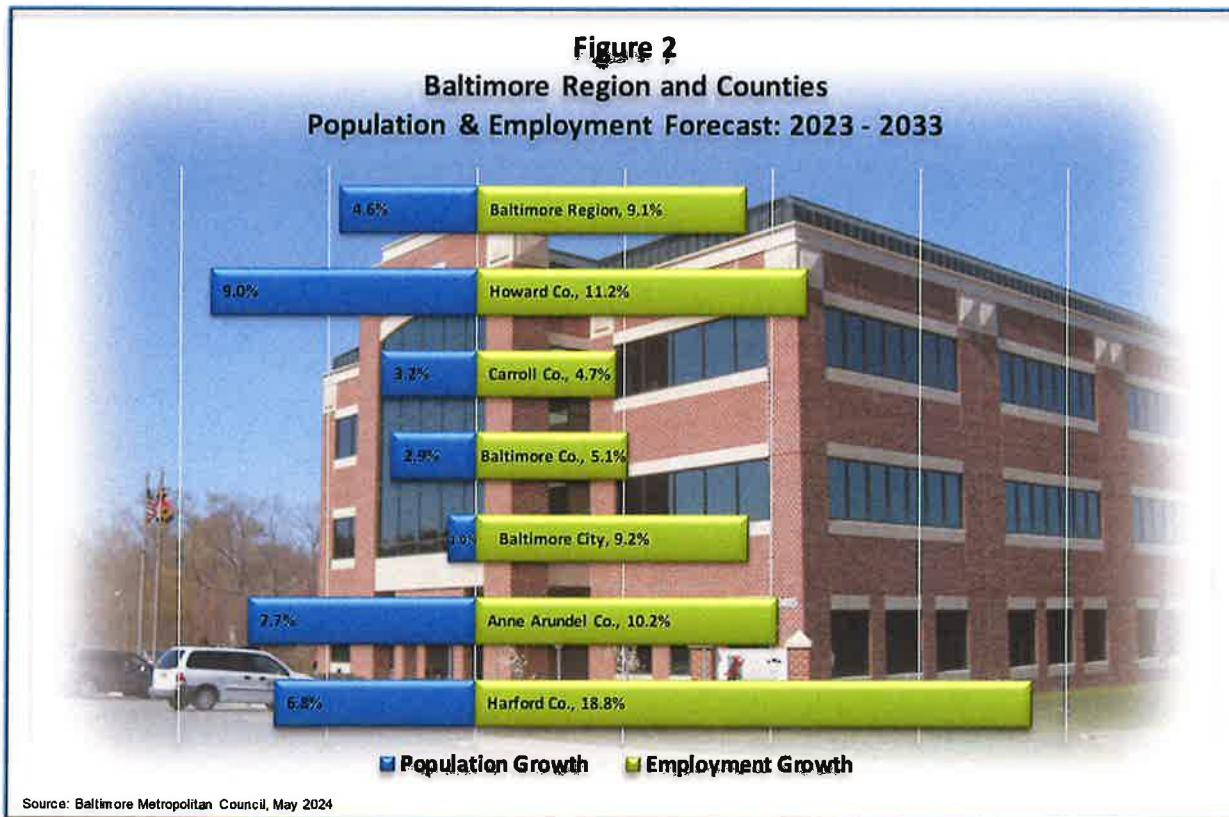


FIGURE 1



## *Baltimore Region Population / Household Projections*

Harford County's population is projected to grow by 17,939 residents over the next ten years from 264,644 in 2023 to 282,583 in 2033 (Figure 2). This represents a 6.8% increase in population growth and is slightly greater than the Baltimore region's projected growth rate of 4.6%. See Table 2A in Appendix A for population and household projections for the Baltimore region for the 2023 to 2033 period.



## *Baltimore Region Employment Projections*

Harford County's employment is projected to grow by over 20,046 jobs between 2023 and 2033, which represents an 18.8% increase in jobs over the next ten years. By contrast, the Baltimore region employment is projected to grow by 9.1% or 136,333 jobs between 2023 and 2033.

Harford County is strategically located on I-95 in the heart of the East Coast and Mid-Atlantic markets. Harford's location, highly skilled workforce, and progressive, business-friendly environment offers the ultimate setting for a wide range of prospective companies and industry sectors. See Table 3A in Appendix A for employment projections for the Baltimore region for the 2023 to 2033 period.

## Harford County Development Activity

In accordance with State Land Use Article §1-207, Harford County is required to prepare an annual report on development activity and planning programs. Reporting is required to be based on designated Priority Funding Areas (PFAs). PFAs coordinate state and local government efforts to support economic development and new growth. Funding for projects in municipalities, other existing communities, industrial areas, and planned growth areas designated by counties receive priority for state funding over other projects. Areas eligible for County designation include existing communities and areas where industrial or other economic development is desired. In addition, counties may designate areas planned for new residential growth which will be served by water and sewer systems and meet minimum density requirements established by the state.

### New Subdivisions

In 2023, Harford County approved 22 residential subdivisions, totaling 306 acres. The residential subdivisions resulted in the creation of 813 units. Eleven of the subdivisions (792 units) were in the PFA. The remaining 11 residential subdivisions were located outside of the PFA and created 21 units (Figure 3). As part of Maryland's 2009 Smart, Green, and Growing law, Harford County must submit an annual report showing the County is following the statewide land use goal of targeting development within designated PFAs and minimizing development outside of these areas.

There were three non-residential subdivision plans approved in 2023, two of which were located outside of the PFA. A list of the approved subdivisions is in Appendix E.

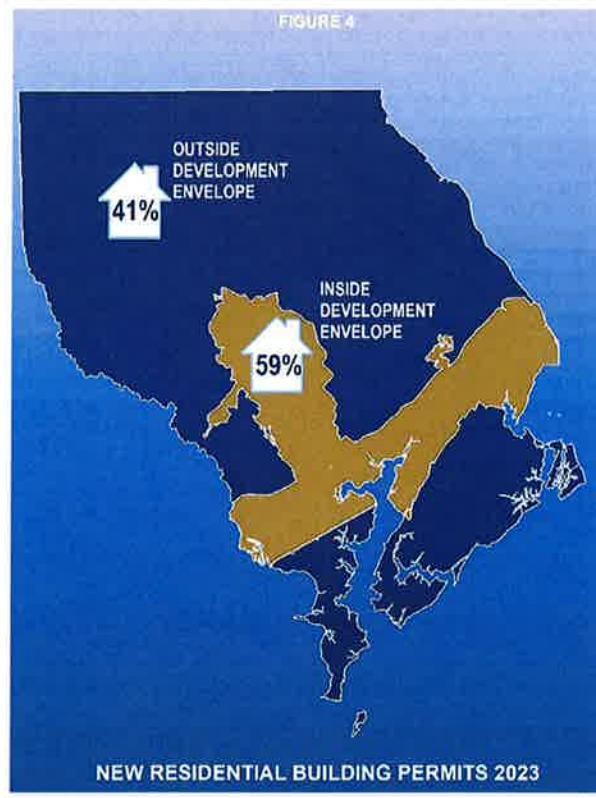


### Permit Activity

A total of 1,558 building permits were issued by Harford County in 2023, which represents a 23% increase over the 2022 permit total of 1,262. This number includes new construction residential, non-residential, and accessory structure permits.

### *New Residential Building Permits Issued*

A total of 835 new residential permits were issued by Harford County in 2023, which represents a 144% increase over the 2022 total of 342. The municipalities of Aberdeen, Bel Air, and Havre de Grace issued 264 new construction residential permits collectively. The unit type breakdown includes 191 single family detached units, 256 townhouse units, 650 apartment units and 2 mobile homes. Approximately 59% of the 1,099 new residential permits (County and Municipal) were located within the County's Development Envelope (Figure 4).



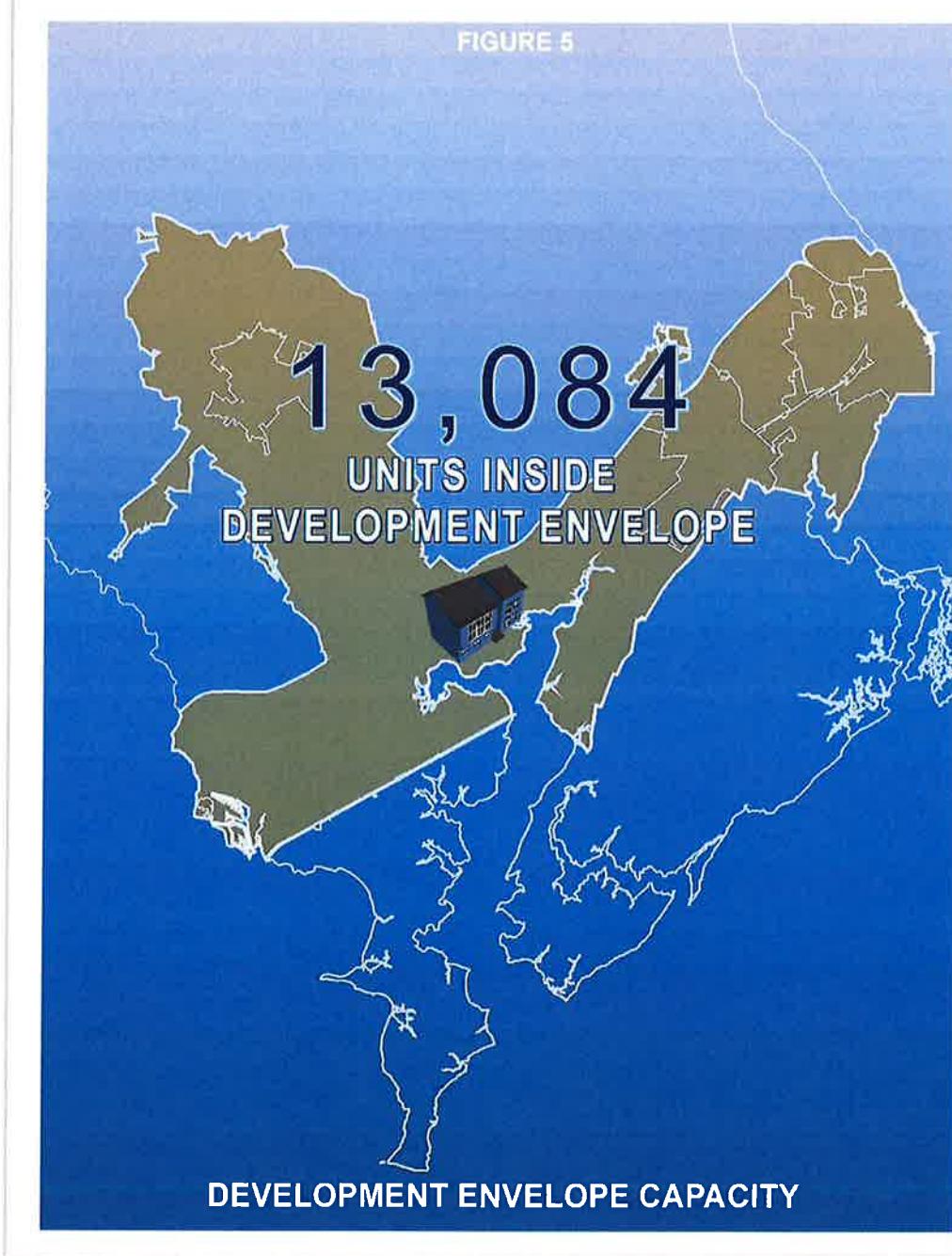
### *New Non-Residential Building Permits Issued*

The County issued a total of 82 permits for non-residential construction (larger-scale projects valued at \$50,000 and over, including municipal) for a range of commercial and industrial uses. These permits can be broken out by value as \$101.6 million in new construction and \$56.2 million in additions, alterations, and repairs. Tables 4A and 5A in Appendix A provide a summary of non-residential permits for new construction, additions, alterations, and repairs valued at \$50,000 and over.



## *Development Capacity*

The Department of Planning and Zoning routinely updates the inventory of residentially zoned land and the small amount of AG zoned land in the Development Envelope. This inventory provides a total residential land capacity and includes undeveloped and underdeveloped land in the County and Municipalities. Based on this update, there is an estimated capacity of 13,084 units (Figure 5) in the Development Envelope.



## PLANNING DOCUMENT UPDATES

This section addresses state reporting requirements regarding code amendments and new or updated comprehensive plans and plan elements.

### Zoning Code Amendments

In 2023, the following bills were enacted that resulted in changes to the County's Zoning Code:

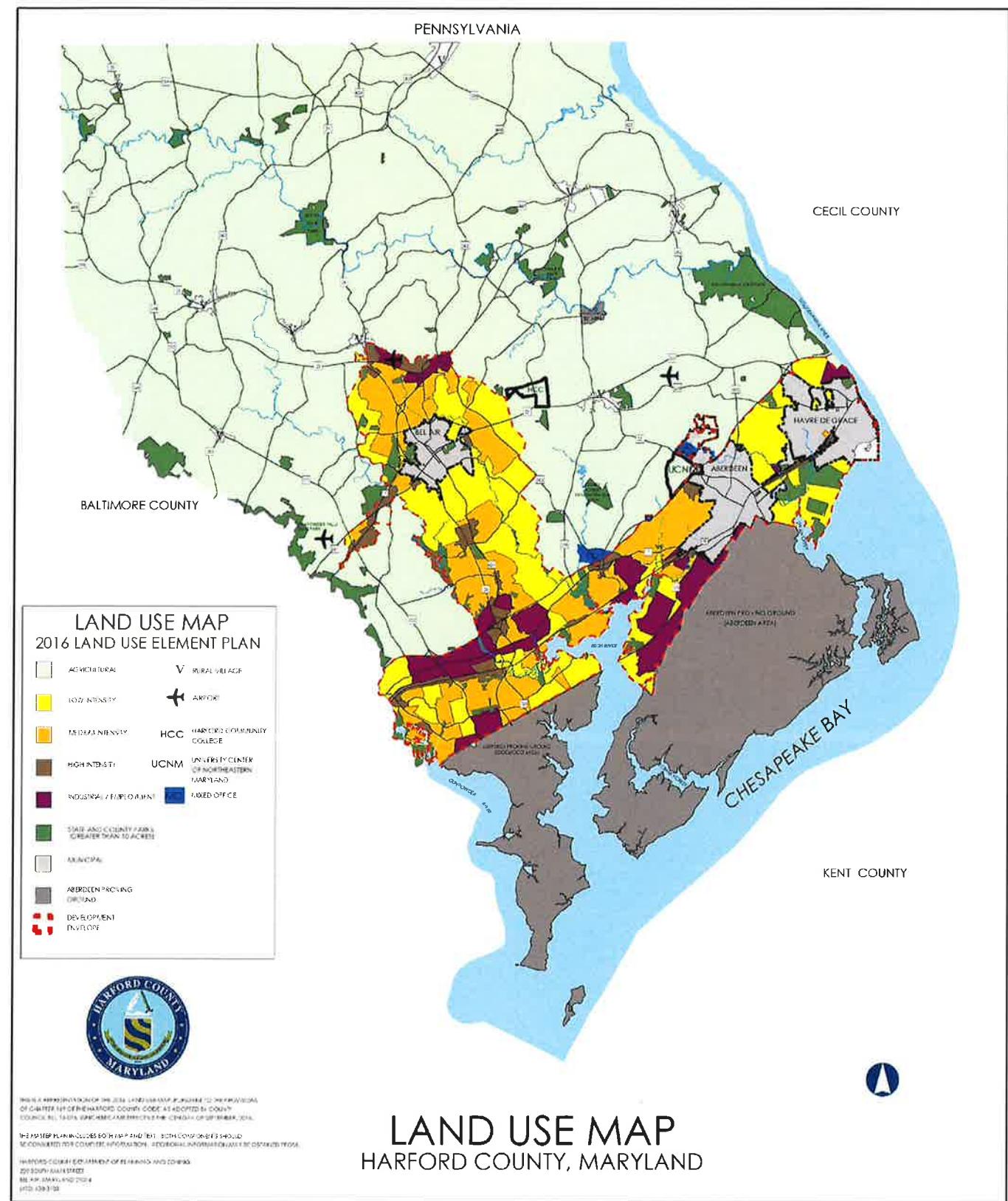
Effective Date	Bill	Description
4/19/23	23-05	This legislation enacts a 90 day moratorium on issuance of any approvals or permits for any development of warehousing and wholesaling, processing, distribution and local delivery facilities in the VB, B3, CI, LI and GI district. The moratorium does not apply to projects that have acquired a vested right through physical commencement of significant and visible construction. It also does not apply to other principally permitted uses where warehouses and wholesaling, processing, distribution and local delivery is an accessory to the principal use or to any development which is located in an existing industrial park (more than 4 contiguous lots in CI, LI or GI). The moratorium may be extended in the future.
6/5/2023	23-06	Natural Resource District - to increase the development adjustment to 30% of a parcel zoned residential and prohibit townhouses in the R1 under NRD regulations in 267-62F.
8/21/2023	23-10	Adds homestead chicken regulations as accessory to a residential use. 267-4 Definitions and 267-27 Accessory Uses and Structures.
8/25/2023	23-23	Violations and penalties – to provide for civil penalties. 267-14
8/28/2023	23-24	To clarify in 267-8 that a separate zoning certificate and payment of a separate zoning certificate fee shall not be required when a building permit is also required; change application requirement from number of families or units to number of residential or business or commercial units and to prohibit PZ from issuing a zoning certificate until an application is submitted and all fees paid.
8/28/2023	23-25	Extends the moratorium adopted by Bill 23-005 for an additional 90 calendar days immediately following the expiration of the moratorium adopted by Bill 23-005
12/12/2023	23-26AA	Warehousing and Adequate Public Facilities Legislation. 267-4 Definitions. 267-60 CI, LI and GI Districts; and 267-126 Adequate Public Facilities; Principal Permitted Use Charts TCU and Warehousing.

For complete details, please refer to the Harford County Zoning Code <https://www.harfordcountymd.gov/documentcenter/view/2257>

### Comprehensive Plan and Element Plan Updates

HarfordNEXT, the County Master Plan (Figure 6), was adopted and became effective September 12, 2016 by the Harford County Council.

FIGURE 6



## ADEQUATE PUBLIC FACILITIES

The County's Annual Growth Report must be updated yearly to identify any public facilities that are functioning below the County's adopted minimum standards. The Annual Growth Report includes information and analysis regarding public schools, the water and sewerage system, road intersections and government facilities.

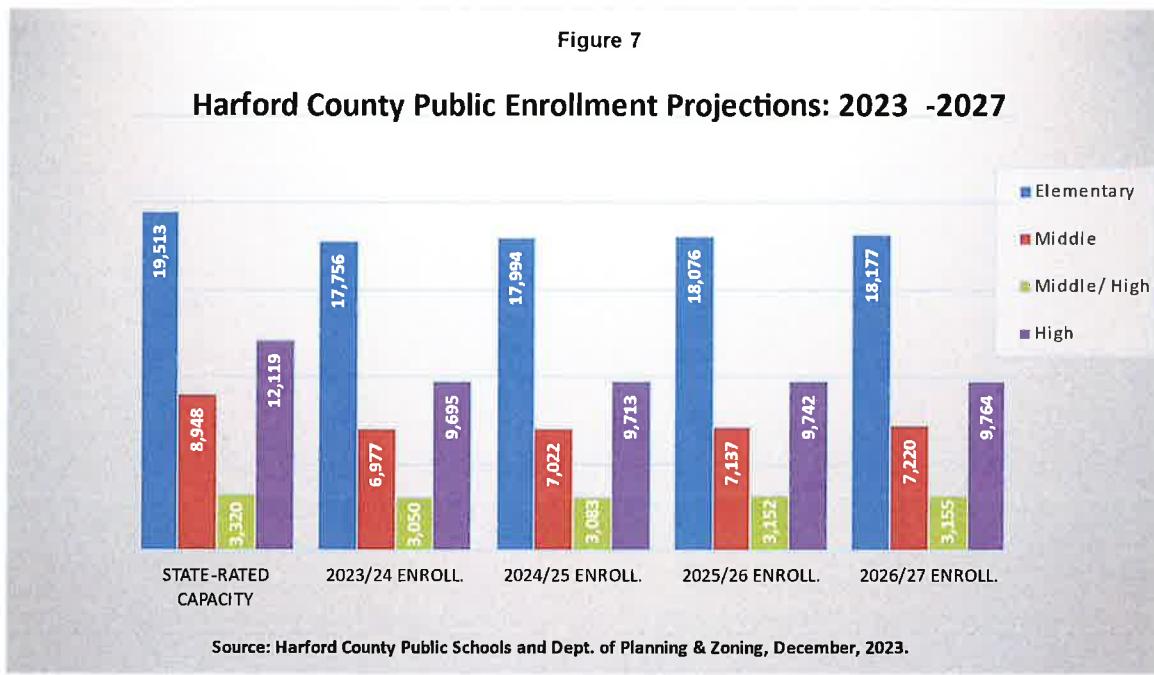
This report also addresses State reporting requirements for Adequate Public Facilities (APF); including reporting requirements for roads, transportation facilities and schools as they relate to development patterns. In the report, Harford County must identify any restrictions that occur within a PFA because of APF, and the report must address how the restrictions will be resolved.

### Public Schools

To assess current and future adequacy of public school facilities, the capacities of existing schools, school utilization and future populations are analyzed. The data in this report regarding the public school system is aggregated by the elementary/middle/high school districts, and include school enrollments, State-rated capacities for each school facility, utilization of each school facility, and three-year projected school enrollments (*Tables 6B, 10B, and 14B in Appendix B*). Modified school enrollment projections are included and take into account planned units remaining and projected units from vacant residential zoned land (*Tables 7B, 11B, and 15B in Appendix B*). In addition, development information such as building permits issued by dwelling type (*Tables 8B, 12B, and 16B in Appendix B*) and population and household estimates (*Tables 9B, 13B, and 17B in Appendix B*) are included in this report. Figure 7 shows enrollment projections by grade level.

Figure 7

### Harford County Public Enrollment Projections: 2023 -2027



## **Analysis**

Each school facility has been analyzed for historic growth trends, current conditions, and future enrollment projections. The information is based on factual data and is aggregated by current school districts. Based on the APF chapter of the County Code, the level of service standard for Public Schools is 110 percent of rated capacity within three years for elementary and secondary schools.

### ***School Adequacy Standards***

Under current law, preliminary plans for subdivisions of greater than five lots cannot be approved in school districts where the full-time enrollment currently exceeds, or is projected to exceed, 110 percent of the capacity within three years. Currently, 30 of 33 elementary schools meet adequacy standards. All middle and high schools meet adequacy standards. Given the projected capacity utilization for 2023 – 2026, major subdivisions in the Homestead/Wakefield, Havre de Grace and Hillsdale Elementary School attendance areas will not be approved but may be reviewed and placed on a waiting list until capacity is available. It is important to note that the municipalities are not subject to the County's APF. Therefore, the County cannot restrict subdivisions within municipalities where the school district is over capacity based on County APF.

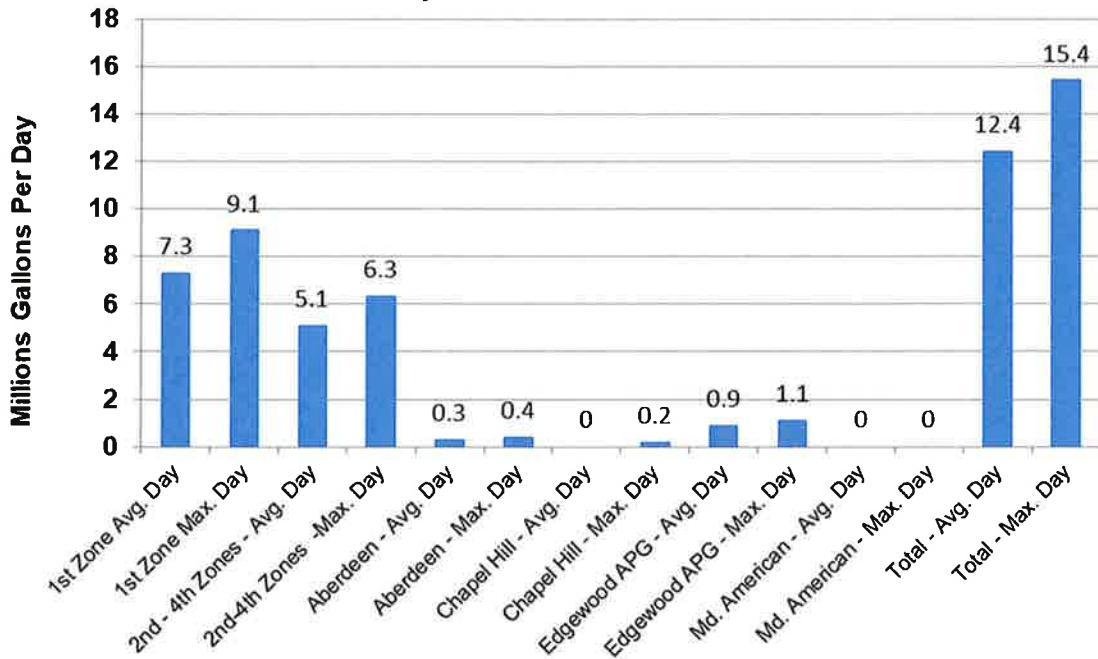
## **Water and Sewerage**

The data included in this section for the water and sewerage systems are aggregated by the water and sewer service areas, which generally coincide with the Development Envelope, as defined in the 2016 Harford County Master Plan, HarfordNEXT. Additional information is included in this report on water/sewage usage for residential and non-residential uses, an inventory of existing water consumption/sewage flows, demand projections (including the basis for their computation), and a list of capital projects is contained in the County's Capital Improvement Program (CIP) for expanding facilities, including project status (*Tables 18C - 21C in Appendix C*). This information is derived from the "2023 Water and Sewer Adequate Public Facilities Report," and is consistent with the County's Water Resources Element Plan.

### **Water**

The County water system's average daily usage in 2023 was 12.35 MGD (Million Gallons Per Day), with a peak day demand of 15.40 MGD. The total countywide permitted maximum daily water treatment capacity is approximately 27.8 MGD. The County has a maximum day drought demand of 19.75 MGD. To keep pace with the projected growth, staged construction programs are established that distribute required capital costs for improvements and/or additions to the County's system over a period of years. Figure 8 illustrates water production by water pressure zones during 2023.

**Figure 8**  
**Harford County Water Production: 2023**  
**By Water Pressure Zones**



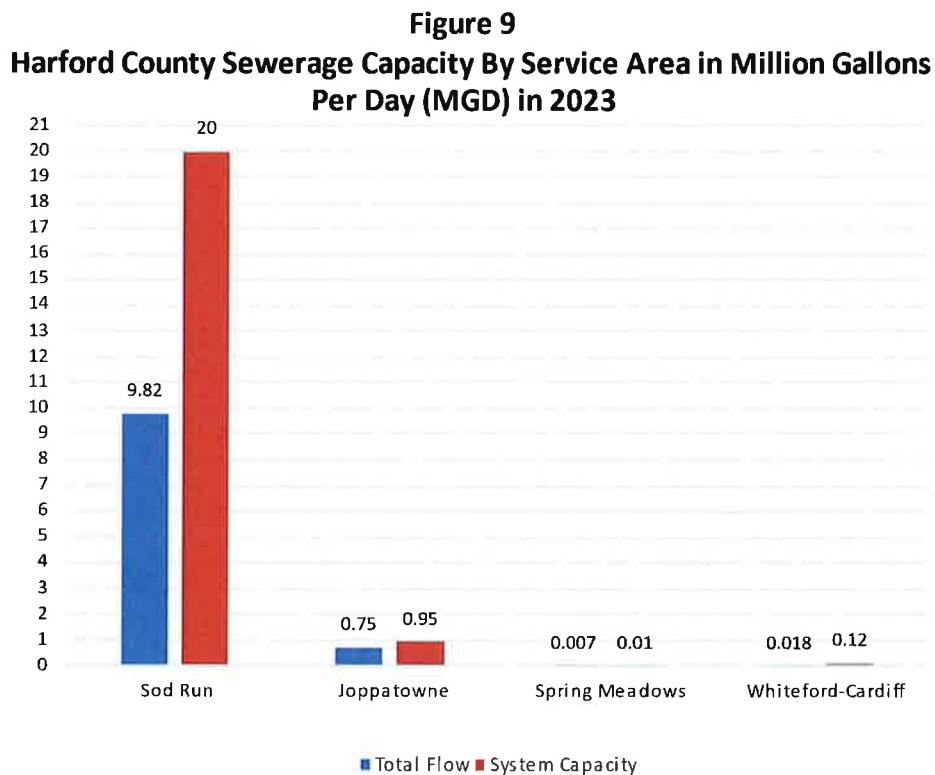
Source: 2023 Adequate Public Facilities Report, Dept. of Public Works, Division of Water and Sewer.

There are 16 community water systems that are not maintained or operated by Harford County but are subject to the APF chapter of the County Code. These private systems, which are monitored and evaluated by the Maryland Department of the Environment, are as follows:

- Maryland-American Water Co.
- Campus Hills Water Works Inc.
- Clear View Court Mobile Home Park
- Conowingo Power Plant
- Darlington
- Darlington Mobile Estates
- Fountain Green Mobile Home Park
- Greenridge Utilities Inc.
- Harford Community College
- Hart Heritage
- Lakeside Vista
- Queens Castle Mobile Home Park
- R & R Estates Mobile Home Park
- Susquehanna State Park
- Swan Harbor Mobile Home Park
- Williams Mobile Home Park

## Sewerage

The average daily effluent flow to the Sod Run WWTP (Wastewater Treatment Plant) in 2023 was approximately 9.818 MGD, exclusive of recycle flows and septage. The average daily effluent flow to the Joppatowne WWTP in 2023 was approximately 0.753 MGD. The average daily effluent flows for Spring Meadows and Whiteford-Cardiff in 2023 respectively were 0.007 MGD and 0.018 MGD's (*Figure 9*).

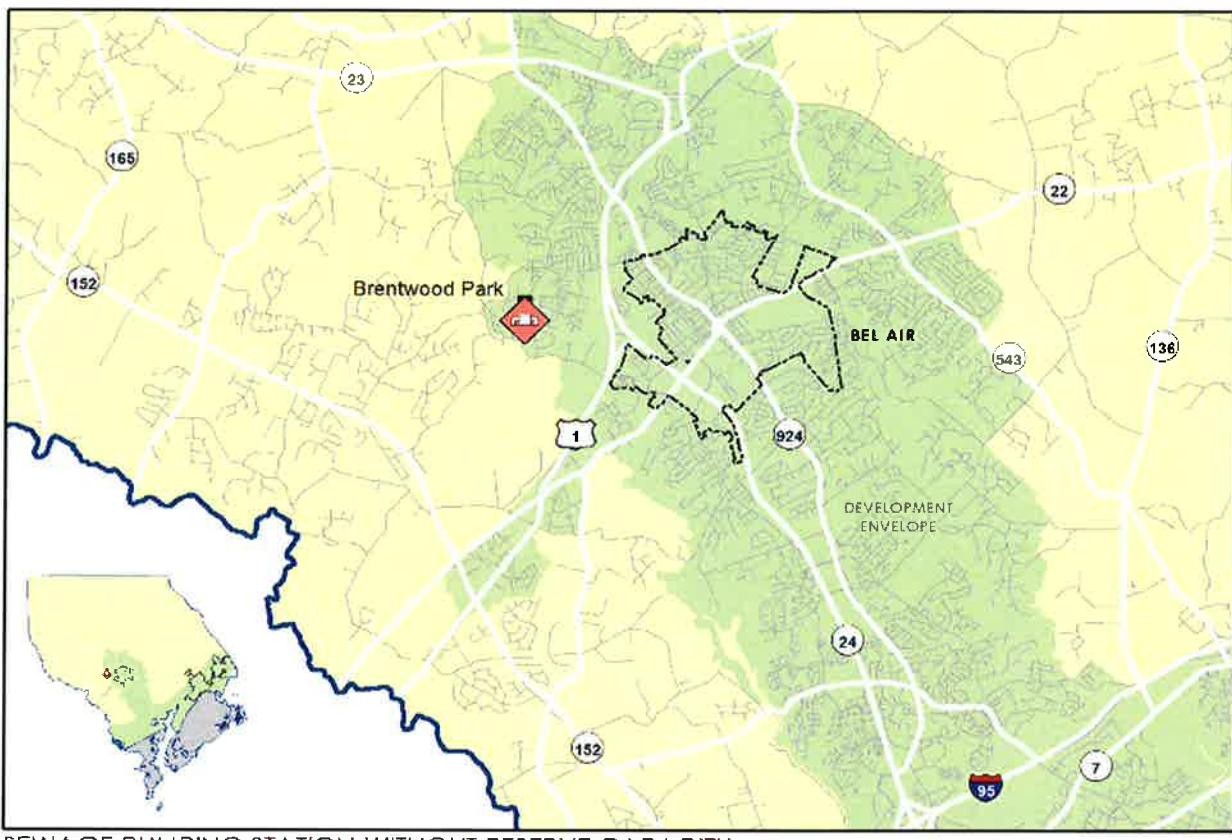


Source: 2023 Adequate Public Facilities Report, Dept. of Public Works, Division of Water and Sewer.

Since 1972, the County has prohibited any additional privately owned community or multi-use treatment plants with a peak capacity larger than 10,000 gallons per day (GPD) outside the Development Envelope. This encourages growth to remain within the growth corridor, maintains financial stability, and protects the environment.

The Division of Water and Sewer has identified the Brentwood Park Sewage Pumping Station (S.P.S.) (*Figure 10*) as being over capacity. Replacement of the station is included in the CIP and the project is currently under construction and is expected to be completed in early 2024.

FIGURE 10



In March 2019, the final report for the Fallston Sewer Capacity Study was completed. The study examined both the existing and build-out conditions for the Fallston service area and identified the sewer improvements required. The improvements are included in the CIP for the portion to be funded by the County. The study identified the need for an increase in capacity for the Reckord Road Sewer Pumping Station. In July 2019, the Reckord Road Sewer Policy (18.62-1) was established to create a surcharge for new connections to fund the required improvements as a county capital project. The study also performed a preliminary downstream analysis of the Plumtree Run drainage basin, which will require further study to identify the future required capital improvements.

In August 2018, the Hickory Collector Policy was approved, which identified the future sewer improvements necessary for buildout of the Hickory drainage area and it established a funding mechanism by a surcharge for future connections. The capital improvements are planned to be implemented as necessary depending on how and when development progresses.

## **Road System**

The intent of the APF Roads chapter of the County Code as it relates to transportation is to create a mechanism that requires proposed development to make appropriate and reasonable road improvements, based on the proposed development's impact to the road system.

The information for the APF Road System contained in this section includes the following: signalized and unsignalized intersection capacity analysis results (*Tables 22D and 23D*), average daily count locations (*Table 24D*), a list of approved County capital projects funded for construction in Fiscal Year 2023 (*Table 25D*), and a list of State Consolidated Transportation Program (CTP) projects funded for construction in Fiscal Year 2023 (*Table 26D*). This information will help identify existing deficiencies in the road system and guide both County and State capital project funding to the most critical road projects (*Tables 22D – 26D in Appendix D*).

If a proposed development generates more than 249 trips per day based on the Institute of Transportation Engineers (ITE) Trip Generation Manual (current edition), a TIA is required to determine the Level-of-Service (LOS). Capacity analysis for intersections is performed using the most recent version of the Highway Capacity Software. LOS is a qualitative measure describing operational conditions within a traffic stream, based on service measures such as speed and travel time, freedom to maneuver, traffic interruptions, comfort, and convenience. A TIA is completed by the developer for residential projects. In response to changes set forth in Bill Number 23-026, Harford County shall prepare the TIA at the developer's expense for all nonresidential developments. The Bill requires the developer to pay for the TIA in advance of the County ordering the preparation of the TIA. TIAs are reviewed by the Departments of Planning and Zoning and Public Works, and the State Highway Administration (SHA).

There are six established LOS – A through F – that measure the operational efficiency of a transportation facility. The following is a general definition of each level of service and Delay in Seconds:

**LOS A** (<= 10) – free flow of traffic with no restriction or significant delay.

**LOS B** (> 10 & <= 20) – stable flow of traffic with very little restriction or delay.

**LOS C** (> 20 & <= 35) – stable flow of traffic with low to moderate restriction or delay.

**LOS D** (> 35 & <= 55) – approaching unstable flow of traffic with moderate to heavy restriction / delay.

**LOS E** (>55 & <= 80) – unstable flow of traffic with significant restriction and delay.

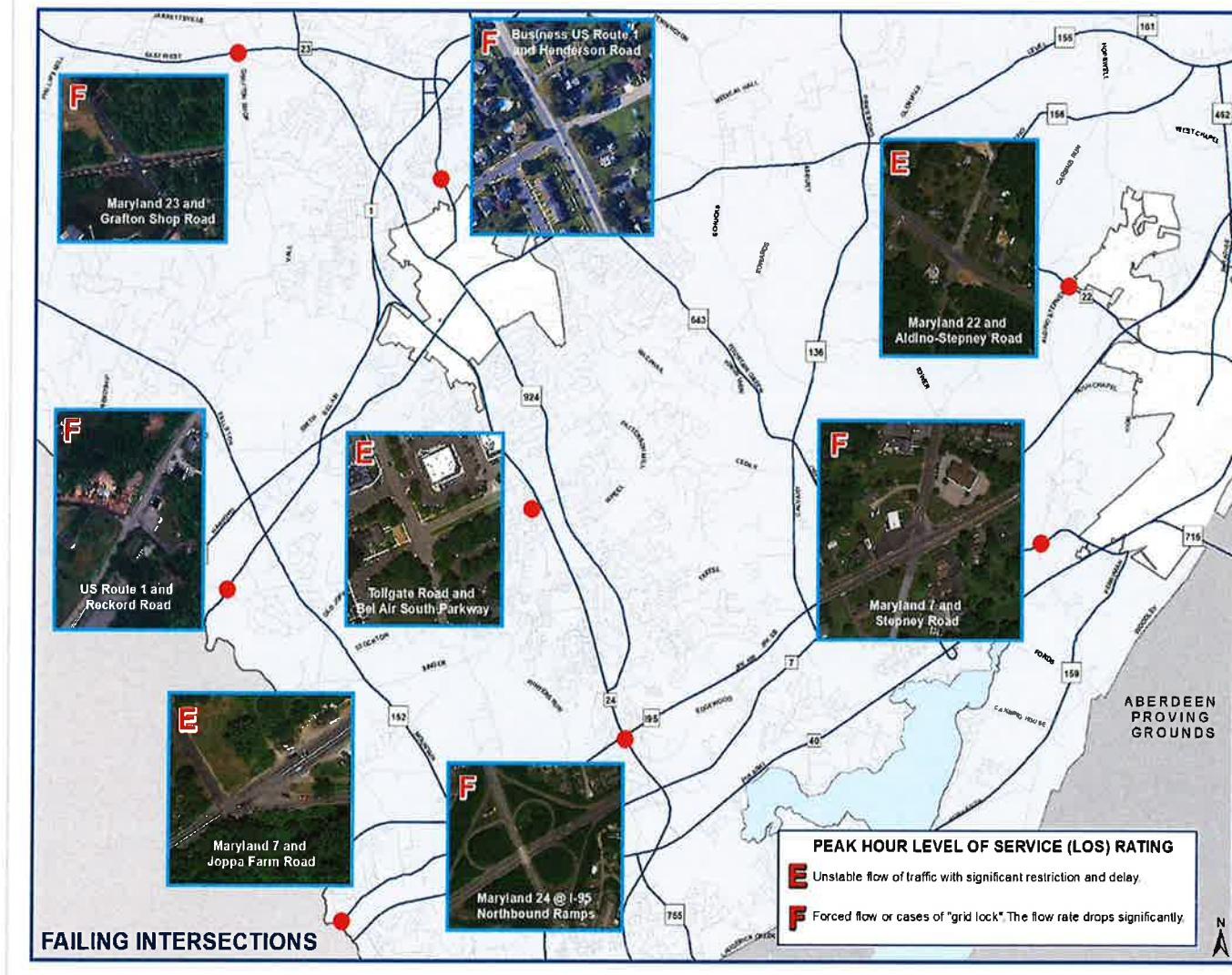
**LOS F** (> 80) – forced flow or cases of “grid lock”. The flow rate drops significantly.

The standard for intersections within the Development Envelope is a LOS D. If the existing LOS is E or F at an intersection within the Development Envelope, then the developer must mitigate the impact of the development's new trips. The standard for intersections outside the Development Envelope is a LOS C. If the existing LOS is a D or lower, then the developer must mitigate the impact of the development's new trips.

In addition to the review of individual TIAs, the Departments of Planning and Zoning and Public Works have studied several major roads and intersections to identify existing conditions. This list represents a cross section of key intersections located inside, outside, and on the fringes of the Development Envelope that have been identified as failing or on the verge of failing based on the adopted LOS standards.

There is one signalized intersection and seven unsignalized intersections with one or more movements operating at a LOS E (LOS D outside the Development Envelope) or lower during peak hours. The evaluation of the LOS is determined by performance of the intersection during one-hour peak traffic periods in the a.m. and/or p.m. Figure 11 identifies intersections that contain one or more movements that **operate at an unacceptable LOS**. Developments that impact these intersections will be required to mitigate their impacts to the intersections.

**FIGURE 11**  
**FAILING INTERSECTIONS MAP**



## GOVERNMENT FACILITIES

The Harford County Code requires an analysis of the need for additional fire, library and public safety services based upon the County's population and a list of approved capital projects contained in the Capital Improvement Program (CIP) related to the below-mentioned facilities.

### Fire/EMS Services

The Harford County Fire and EMS Services Master Plan that was completed in 2009 analyzed the need for Fire and EMS services in the County. The plan outlined the need for additional facilities, including:

- Facility at Patterson Mill Road – This Station was completed in 2012 and turned over to the Bel Air Volunteer Fire Company
- Facility in Riverside on Rt. 543 – The design of this station has been completed and is scheduled to be sent out for bid with construction beginning in July 2024
- Facility in Fountain Green area on Rt 543 – There is no further information regarding a facility at this location.
- Facility in Churchville area of Rt 22 and Rt 136 – There is no further information regarding a facility at this location.

In addition, the following facility projects have been completed:

- Aberdeen VFC completed a renovation of their House 1 Station in 2021
- Harford County completed an EMS Station in North Harford at Rt 24 and Rt. 165 in 2023
- The Susquehanna Hose Company is nearing completion of the renovations of their House 1 station.
- Harford County is working with Whiteford VFC to design and build a new station. Design work is currently underway.
- Bel Air VFC is currently renovating their House 1 station.

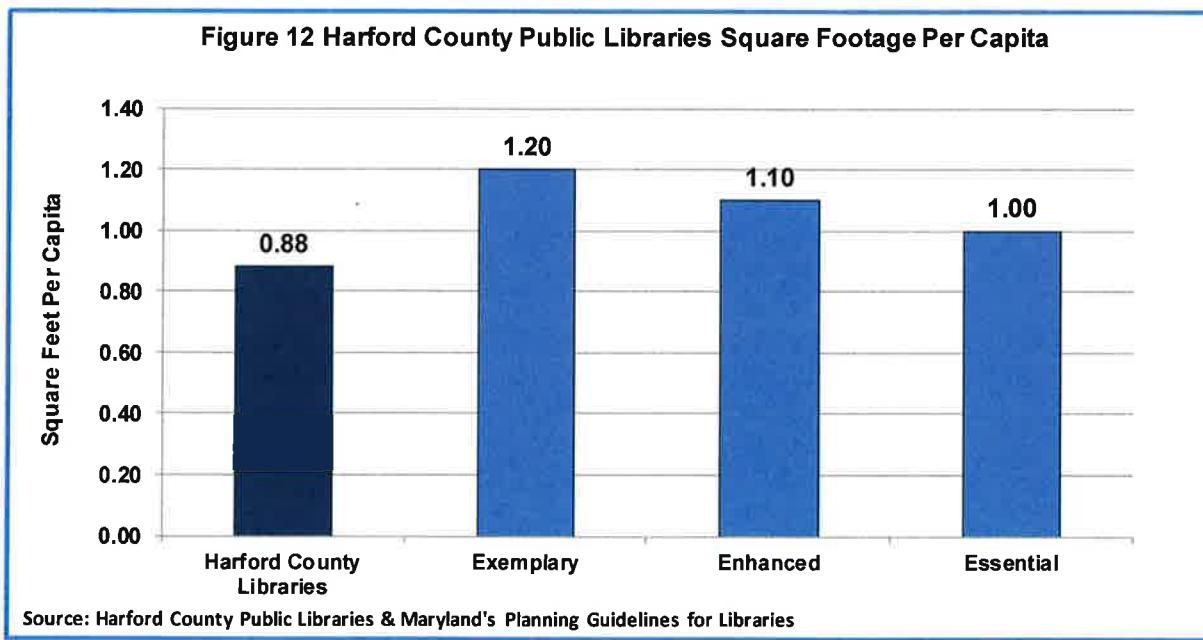
In addition, in 2023, The Harford County EMS Foundation requested that the County assume the responsibility of EMS service in the County. As a result, since February 2023, Harford County has placed seventeen County medic (14 ALS and 3 BLS) units throughout the County. The medic units are owned by Harford County and are housed in volunteer stations throughout the County and the North Harford Station.

### Library Services

The Maryland Department of Budget and Management requires that libraries refer to "Maryland's Planning Guidelines for Libraries" to determine if the level of service is consistent with the population and justify the need for expansion. The planning guidelines rate the area of library space per capita in a scale with three ranges:

- Essential = 1.0 square feet per capita (nationally accepted minimum facility size)
- Enhanced = 1.1 square feet per capita
- Exemplary = 1.2 square feet per capita

The total gross square footage of all Harford County Public Library branches is 232,970. Based on a 2023 population figure of 264,644, the square footage per capita rating is 0.880 for Harford County which is below the essential standard of 1.0 square feet per capita (Figure 12).



## Law Enforcement

Harford County had 460 sworn officers in 2023. This represents a rate of 1.7 per 1,000 residents. The County total breaks down to 329 officers in the Harford County Sheriff's Office and 34 in the Maryland State Police. The police departments in the municipalities reported 37 officers in Aberdeen, 30 in Bel Air, and 30 in Havre de Grace.



## PLANNING CONSISTENCY REVIEW

Harford County must submit an annual report that addresses specific smart growth measures and indicators that support the statewide land use goal of targeting development within designated PFAs and minimizing development outside of these areas. Changes in development patterns occurring in 2023 that impact land use, transportation, community facilities patterns, zoning map amendments, and subdivision plats must be reported. Local jurisdictions, as part of their annual reporting, must determine if all changes in development patterns in 2023 reported are consistent with the following criteria:

- All changes must be consistent with each other;
- The recommendations of the last annual report;
- The adopted plans of the local jurisdictions;
- The adopted plans of all adjoining local jurisdictions; and
- The adopted plans of State and local jurisdictions that have responsibility for financing or constructing public improvements necessary to implement the local jurisdiction's plan.

### **Development Patterns / Consistency of Plans**

All of the developments noted in this report have been determined to be consistent with the surrounding land uses. A review of consistency is part of the plan approval process. As recommended in previous reports, the County continues to direct the majority of new residential development and redevelopment to the Development Envelope. During 2023, all subdivisions approved were consistent with the intent and policies of the 2016 Master Plan, the Water and Sewer Master Plan, and Adequate Public Facilities regulations. All roadway improvements were consistent with the State Consolidated Transportation Plan, and the Transportation Improvement Plan. Changes in development patterns, laws, and regulations were found to be consistent with the adopted plans of Harford County, as well as those of the state and all adjoining local jurisdictions. These changes furthered the Twelve Visions established in § 1-201 of the Land Use Article of the Annotated Code of Maryland.

### **Municipal Plan Coordination**

Harford County coordinates with the Town of Bel Air and the cities of Aberdeen and Havre de Grace on the creation of their growth plans. State law requires municipal jurisdictions to develop a Municipal Growth Element (MGE) as part of their Comprehensive Plan. The MGE must identify future municipal growth areas outside of the existing corporate limits and be submitted to the County for review and comment. Proposed annexations must be consistent with those outlined in the Municipal Growth Element Plans and permitted development on the annexed lands shall be in accordance with the County's zoning classification that is in place at the time of the annexation.

## Implementation

Harford County uses many tools to achieve the Visions, including Adequate Public Facilities (APF) legislation to manage growth by tying development to the capacity of existing government services such as water and sewer, roads, and schools. The County has developed implementation strategies, policies, programs, and funding for growth and development, resource conservation, infrastructure, and transportation, which are integrated across the local, regional, State, and interstate levels to achieve these visions.

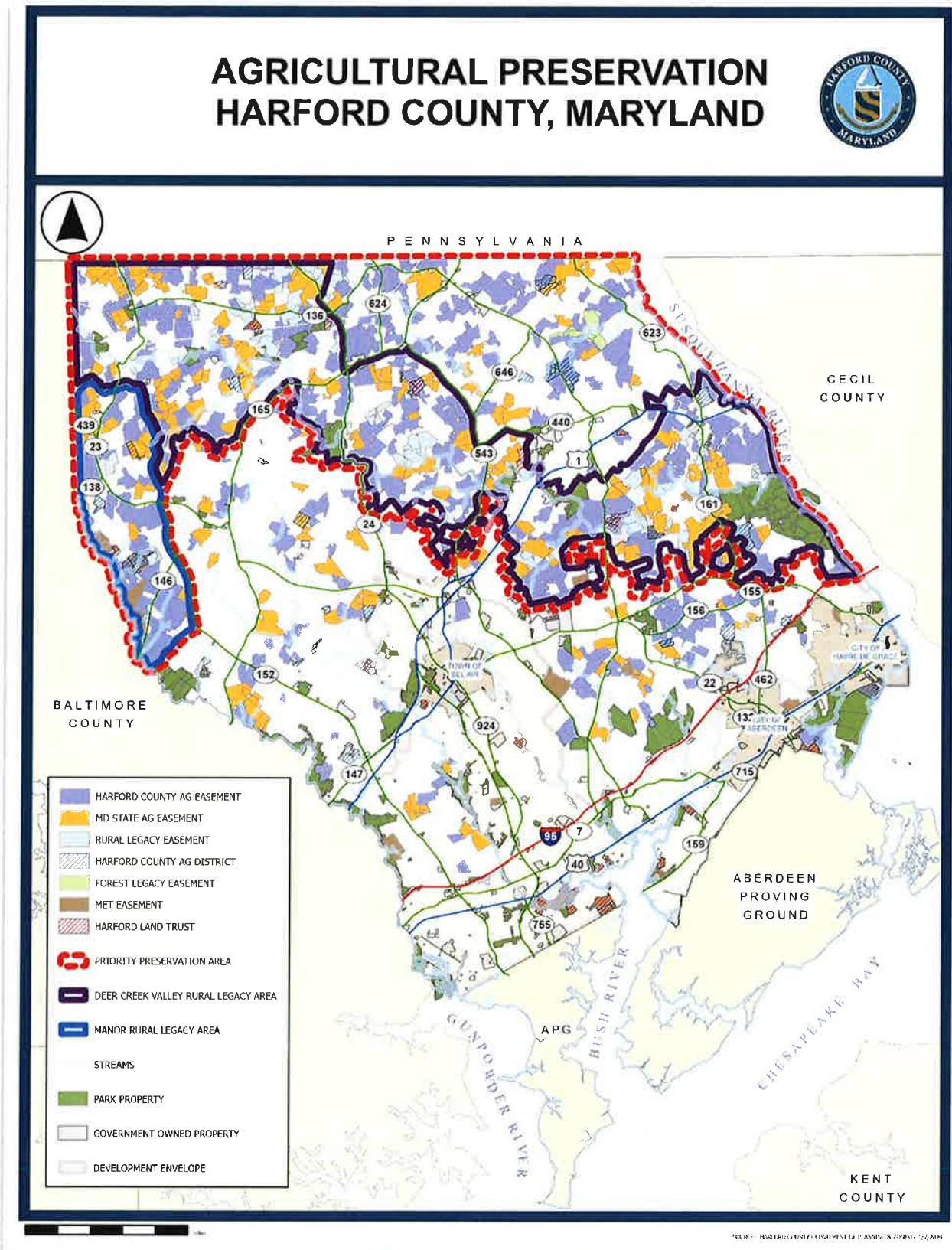
### Agricultural Preservation

Preservation efforts were continued through a variety of state and local programs. Currently, participation in agricultural preservation programs is available to all property owners with agriculturally zoned land, and the County's primary focus has been on protecting the Priority Preservation Area (PPA) (Figure 13). HarfordNEXT expanded the PPA boundary to include all lands north of the 2009 boundary and the Harford County portion of the Manor Rural Legacy Area. Based on feedback from citizens, efforts have focused on expanding eligibility for the County's own preservation program to include all developable land in the County, regardless of zoning category. Changes to the County Program are expected to be finalized in 2024.

During 2023, 2,117 acres were preserved countywide, bringing the total protected land in the County to 63,933 acres at the end of 2023. Over 25% of the County (excluding municipalities) is in some form of permanent preservation. Of the acreage protected in 2023, approximately 1,451 acres were located in the County's PPA, bringing the total amount of protected land in the PPA to 50,564 acres.



Figure 13



## PROCESS IMPROVEMENTS

As part of the annual report, local jurisdictions must identify any changes that will improve the planning and development review process, in addition to zoning regulations that have been adopted during the reporting period that specifically address the planning visions of the Land Use Article.

The department introduced a substantial enhancement to the Track-It application with the addition of “Track-It Advanced” which allows constituents the option to subscribe for weekly email summaries of all Development Advisory Committee (DAC) projects, DAC meeting schedules and minutes, and DAC document updates and revisions. This improvement further maximizes Harford County’s effort for government transparency and engages constituents in the planning and development process.

The County Executive developed the Southern County Taskforce (SCTF) in 2023 with the purpose of improving the quality of life for residents, businesses, and visitors to this area. The SCTF area is generally defined as all of those areas along and adjacent to the Route 40 corridor in Harford County (see Figure 14). Quality of life includes, but is not limited to, roadway improvements, recreational program growth, curb appeal, small business growth, and public safety enhancements. The Cassilly Administration is continually working to gather data, set targets, and make real improvements for those who live, work, and do business in southern Harford County. The overarching goal is to focus government and private resources on the area’s unique challenges and opportunities. Residents, business owners and community organizations are encouraged to review the County’s progress on the Southern County Taskforce’s website.

## LAWS AND/OR REGULATIONS THAT IMPLEMENT THE STATE PLANNING VISIONS

Harford County’s Master Plan, HarfordNEXT, was adopted in June 2016 and is consistent with the 12 State Planning Visions. The various element plans, including the Land Use Element Plan, Natural Resources and Water Resources Element Plan, Historic Preservation Element Plan, and Transportation Element Plan have been incorporated into the 2016 Master Plan. The Land Preservation, Parks, and Recreation Element Plan is also consistent with the planning visions contained in the Land Use Article of the Maryland Code. The plans also include strategies that address these visions. The County’s Chesapeake Bay Critical Area Program and its Bicycle and Pedestrian Master Plan are also consistent with the visions.

## METHODOLOGY

### Population Projection Methodology

Yearly estimates of population and households in Harford County for the Annual Growth Report are determined from the 2020 Census. This data is adjusted to reflect a number

of variables including building permits, average household size, and household vacancy rates. The five and ten year projections are based on these estimates, with a growth factor applied to determine the rate and quantity of growth in the County. This growth factor is based on the number of building permits anticipated to be issued each year. It is important to note that projections are based on past trends and land availability. A component of the projections is the number of net planned units remaining. The total planned units remaining is calculated by subtracting the total new residential building permits issued from the total preliminary plan approved units. Subdivision plans with six or more units remaining and approved municipality plans are included.

The 2020 Census information at the census block level is utilized for specific analysis of each facility regarding area maps and demographic information. Building permits are identified by facility areas and by subdivision name and/or address for each year. This provides the needed information on growth trends by facility service area. The population projections for the five other jurisdictions in the Baltimore Region are based on an interpolation of the Baltimore Metropolitan Council's Round 10 population forecast.

### **School Enrollment Projection Methodology**

The methodology for projecting students utilizes historical data for live births and the number of children enrolled in public schools. Using these data, a series of ratios that reflect grade cohort survival are developed. These ratios include consideration of a number of factors:

- Births in a given year which affect subsequent kindergarten and first grade enrollments.
- Net migration of school age children.
- Net transfer of children between public and private schools.
- Non-promotion of children to the next grade level.
- Dropouts in the later years of secondary school.
- Shifts between regular grade and upgraded groups other than special education.

This technique of establishing a ratio is used for each successive grade. For example, a ratio is developed between the number of children actually in first grade in a given year and the number in second grade the following year. The ratio, therefore, represents the number of first graders who advance to second grade. If significant variations exist, such as a rapid increase in home building, then factors such as pupil yields for subdivision activity and development trends must be measured.

Development monitoring is a key activity to ensure accurate projections since housing expansion periods have a direct impact on school enrollments. A primary means of calculating projected student enrollment due to a housing expansion period is by using pupil yield factors for new developments.

Pupil yield is a term which describes the number of pupils generated per dwelling. The pupil yield factor is used to assist in identifying the impact of residential development on

the Harford County Public Schools (HCPS) system. The data was tabulated by unit type, and the specific pupil yields were calculated for each subdivision in the elementary, middle, and high schools. Table 1 below provides a summary of the pupil yield factors by grade level. A new pupil yield study will be conducted in 2024.

**Table 1 - Pupil Yield Factors**

Unit Type	Grade Level		
	K – 5	6 - 8	9 - 12
Single-Family	0.17	0.09	0.12
Townhome	0.22	0.10	0.13
Apartments	0.15	0.06	0.06
Condominiums	0.07	0.04	0.04
Mobile Home	0.14	0.09	0.07

Source: Harford County Department of Planning and Zoning, 2018 Harford County Pupil Yield Study

The following example is included to illustrate how pupil yield factors are used to estimate new students generated by proposed residential development. In this example, it is estimated that 38 new students would be generated by a proposed 100-unit Single-Family detached (SFD) subdivision.

**Table 2 - Estimating New Students Using Pupil Yield Factors (Proposed 100 SFD Subdivision)**

Grade Level	Yield Factor	X	# of Dwelling Units (Single-family)	=	New Students
K- 5	0.17	X	100	=	17
6 - 8	0.09	X	100	=	9
9 - 12	0.12	X	100	=	12
<b>TOTAL</b>	<b>0.38</b>	<b>X</b>	<b>100</b>	<b>=</b>	<b>38</b>

### Modified School Enrollment Methodology

Utilizing our regional cooperative Round 10 forecast, a projection of housing units was determined for each school district. The number and type of units were based on the existing zoning. After the number and type of units were determined and projected by year, a pupil yield factor was applied to determine the total number of new pupils by school district.

The methodology for determining a growth factor included a multi-step process. The process included utilization of the existing grade cohort succession methodology and the pupil yield factor. A factor was applied to the existing grade cohort succession ratio per

school if the pupil yield factor identified an increase in the average number of students. In order to maintain a consistent application, all calculations were based on the Harford County Public School system's definition of "unadjusted" enrollment projections. No assumptions were made in terms of school capacities or utilization of existing facilities.

The actual enrollment of Harford County Public Schools (HCPS) is retained as base enrollment for the modified enrollment projections. HCPS' first-year projected enrollment figures are also retained as they have been shown to be historically accurate.

## **Water and Sewer Facility Projection Methodology**

### *Water:*

The Harford County water service area is divided into four pressure zones due to varying topography within the Development Envelope. To provide an adequate supply of water, the transmission lines, and pumping and storage facilities for all zones must be sized for estimated future demands.

The water system is evaluated for adequacy for providing flows during the maximum day demand, while maintaining system pressures required to deliver fire flows. Water booster stations and/or transmission lines, service mains, storage tanks, and water treatment plants are evaluated. Areas within the Harford County Development Envelope that exist at the highest elevations of the water pressure zones are evaluated for adequacy on a case-by-case basis. The anticipated growth within the County is accommodated through a combination of developer funded projects and the CIP.

### *Sewerage:*

The sewerage system is similarly evaluated for adequacy to accommodate expected peak flows through collectors, interceptors, pump stations, force mains, and wastewater treatment plants. Should a capacity problem exist in a collector sewer, it is the developer's responsibility to resolve the inadequacy. Inadequacies at major pumping stations and wastewater treatment plants are resolved by programmed capital projects or by projects cooperatively supported by a group of developers.

The sewage flows to Harford County's existing Sod Run and Joppatowne Wastewater Treatment Plants (WWTP) originate from a portion of the Development Envelope. The area between the municipalities of Aberdeen and Havre de Grace, as well as the cities themselves, are within the Development Envelope and are served by the municipal sewerage facilities. A complete "Sewer System Capacity Analysis" is included in the "2023 Water and Sewer Adequate Public Facilities Report."

The determination of future wastewater flows to wastewater treatment plants is made by using population and household projections developed by the Harford County Department of Planning and Zoning for the years 2000 through 2035. The projections were distributed

by Transportation Analysis Zones (TAZs) by aggregating the ultimate development in terms of equivalent dwelling units into sewerage drainage areas. In an effort to keep pace with projected growth, the County completed the expansion of the Sod Run Wastewater Treatment Plant from 12 MGD in 1995 to 20 MGD in 2000. A sanitary sewer collection system has also been established in Whiteford-Cardiff, which serves the properties within an established sanitary subdistrict. This system was made operational in 2001 with 172 mandatory hook-ups completed in 2002. Treatment for this subdistrict is provided by Delta Borough, Pennsylvania, with a current permitted average flow of 0.12 MGD.

In addition to the major publicly owned wastewater treatment plants, there are multiple private wastewater treatment systems, including mobile home parks and other commercial/community establishments, plus a larger population on private individual septic systems outside the Development Envelope. In addition, many of the schools outside the public sewerage service area are on publicly owned multi-use wastewater treatment systems.

### **Road Intersection Analysis Methodology**

A key feature of the APF Road Intersection law is the requirement for preparation of a TIA for residential and non-residential uses that are projected to generate more than 249 trips per day. For residential developments, the developer shall provide their own traffic consultant. For all nonresidential projects, the County will select the traffic consultant and the developer shall pay in advance all costs before the County will order the preparation of the TIA. Proposed development located within the Chesapeake Science and Security Corridor (CSSC) (Figure 14) with primary access directly onto US 40 will not be required to submit a TIA unless the proposed use is expected to generate more than 1,500 trips per day. The TIA provides information regarding the impact of generated trips from proposed land uses on traffic operation and delay within a designated area and recommends solutions to mitigate the impact. The method of conducting a TIA is outlined in the "Harford County Traffic Impact Analysis Guidelines."

#### **Inside the Development Envelope:**

The TIA shall include all existing County and state roads in all directions, from each point of entrance of site through the intersection with the first arterial roadway to the next intersecting collector or higher functional classification road as defined by the Harford County Master Plan. The study area shall not exceed 2 road miles in all directions, except when proposed uses are projected to generate more than 1,500 trips per day.

#### **Outside the Development Envelope:**

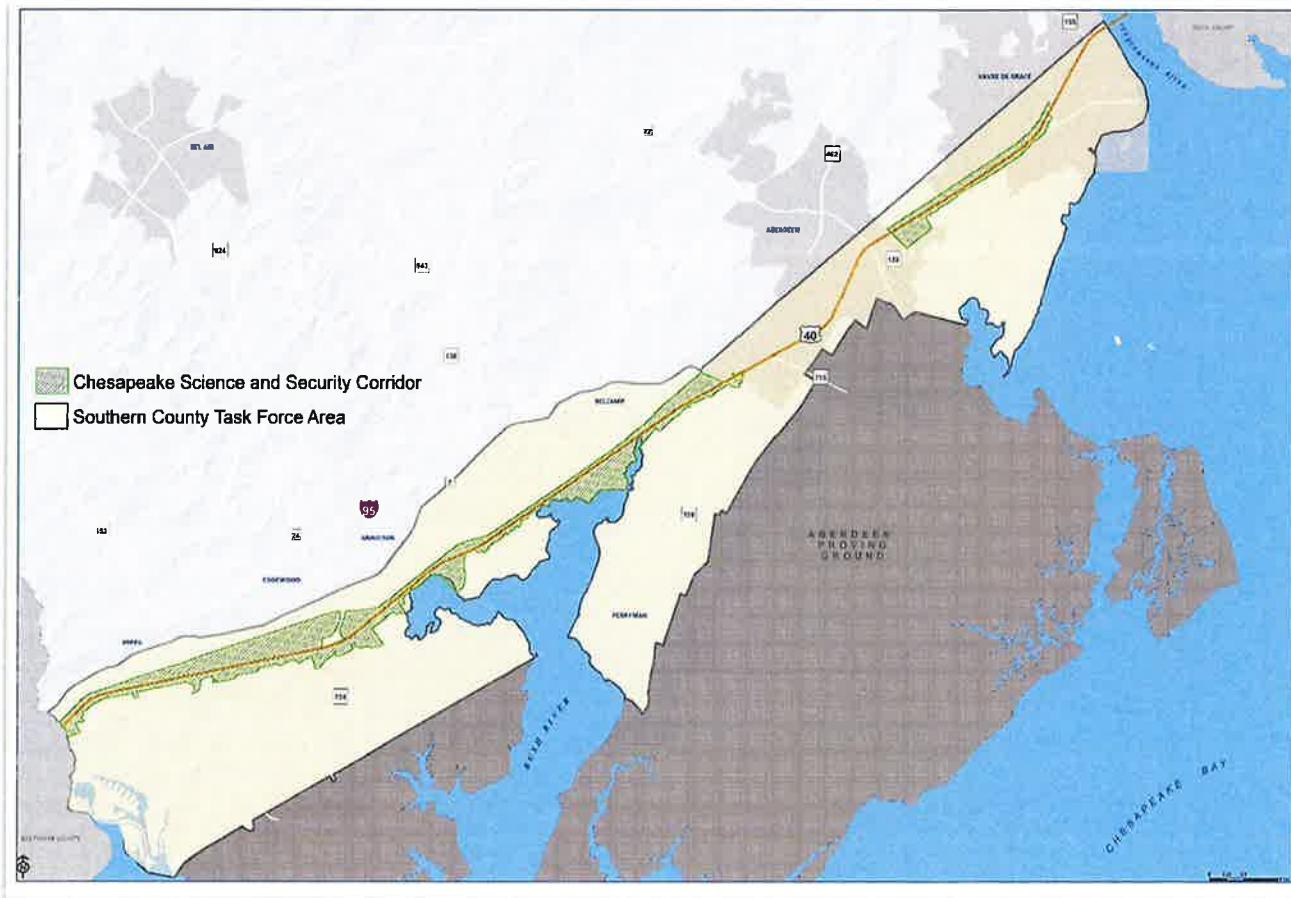
The TIA study area shall include all existing County and state roads in all directions from each point of entrance of the site to the first intersection of a major collector or higher functional classification road as defined by the Harford County Master Plan. The study area shall not exceed 2 road miles in all directions, except when proposed uses are

projected to generate more than 1,500 trips per day.

All TIAs shall include:

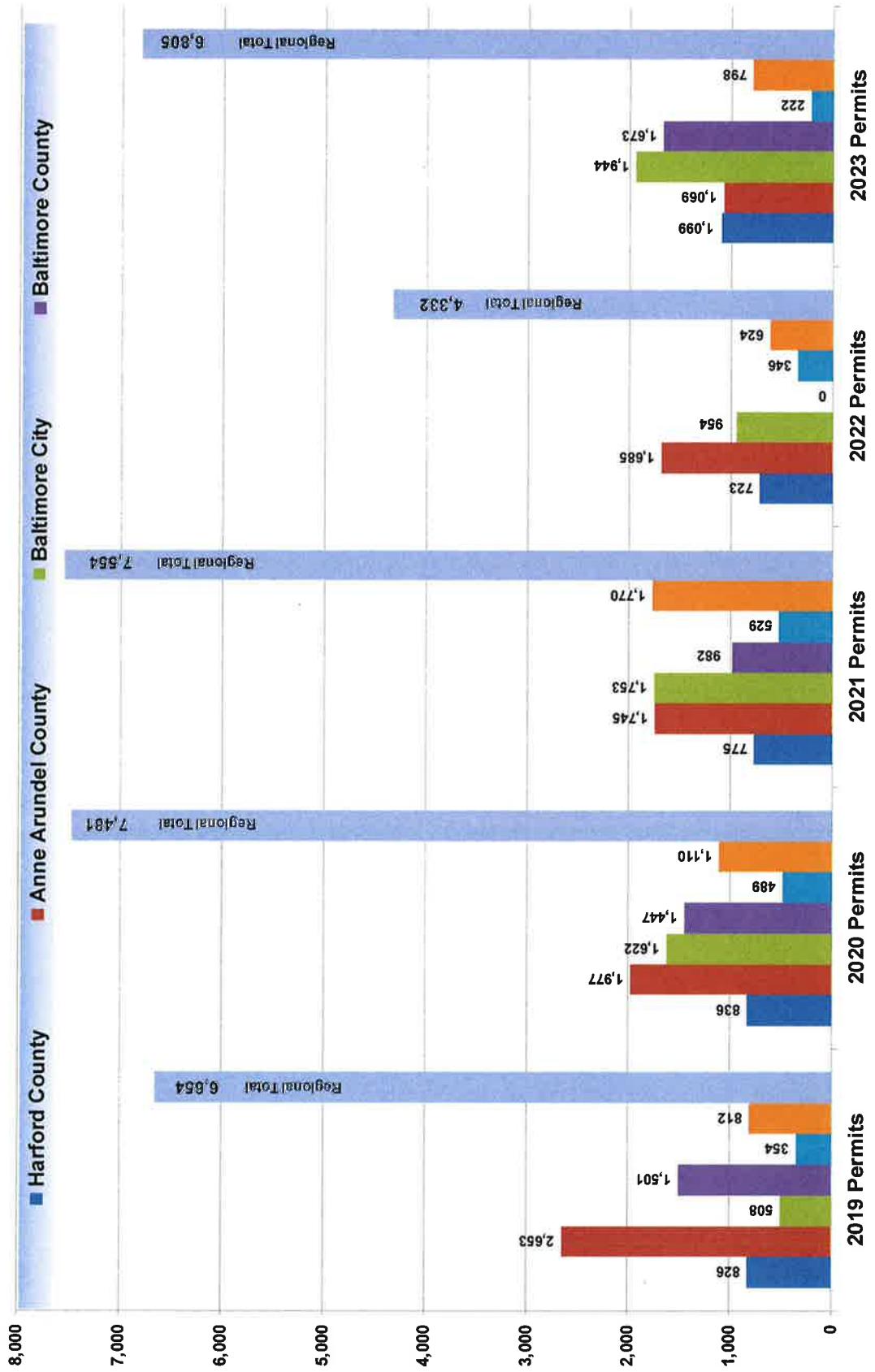
- An analysis of existing conditions including traffic counts, lane configuration, and signal timings.
- An analysis of background conditions without site development, including growth in background traffic, future traffic generated by nearby proposed developments and the determination of Level-of-Service (LOS) with any approved/funded State and County Capital projects.
- An analysis of the projected conditions with site development, including the traffic being generated by the proposed development and background traffic.
- An explanation of the results with recommended improvements, as necessary.

**Figure 14**  
**Chesapeake Science and Security Corridor (CSSC)**



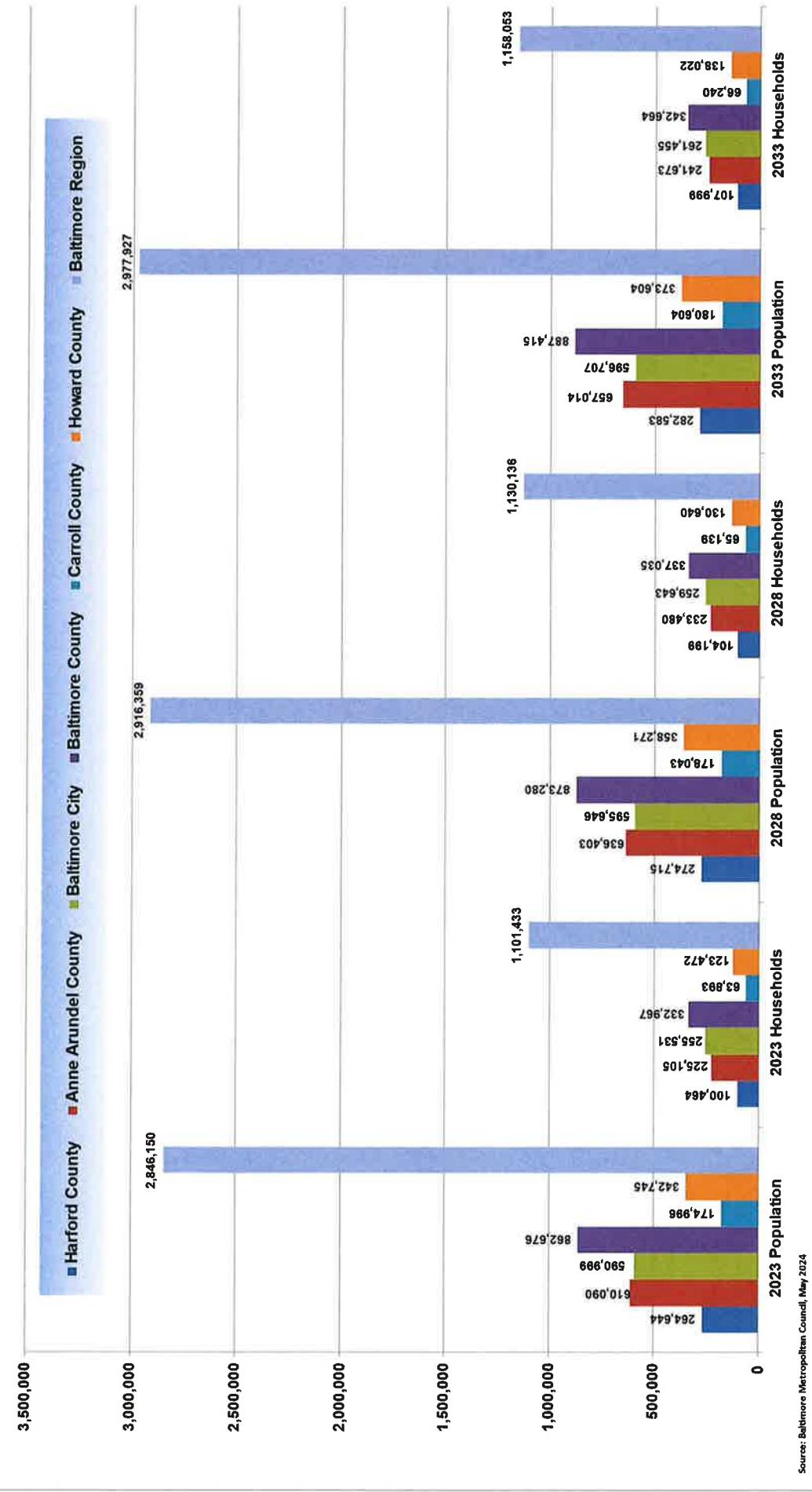
# APPENDIX A

**Table 1A Harford County - Baltimore Region Residential Permit Activity: 2019 - 2023**



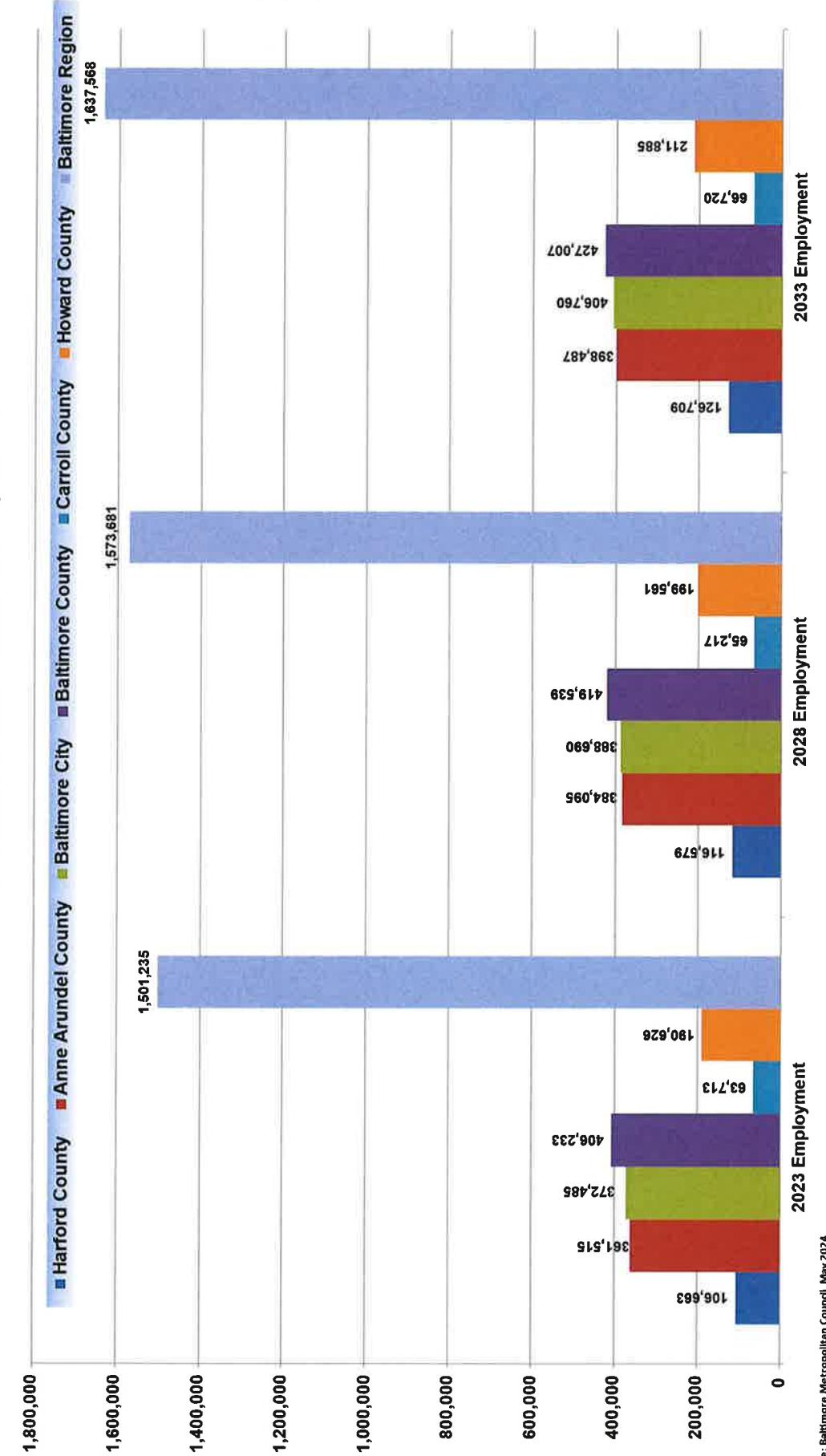
Source: Baltimore Metropolitan Council, May 2024

**Table 2A Harford County - Baltimore Region Population and Household Projections: 2023-2033**



Source: Baltimore Metropolitan Council, May 2024

**Table 3A Harford County - Baltimore Region Employment Projections: 2023- 2033**



Source: Baltimore Metropolitan Council, May 2024

**Table 4A**  
**Harford County Non-Residential Permit Activity**  
**New Permits Valued \$50,000 and Over**

Permit Type	2019		2020		2021		2022		2023	
	# of Permits	Square Footage								
Commercial	10	221,274	3	16,400	3	10,739	3	7,904	6	61,547
Industrial	4	24,986	0	0	3	88,060	1	100,025	3	210,548
Institutional	6	60,680	3	96,215	0	0	2	25,576	1	6,250
Utilities	0	0	0	0	2	7,657	0	0	3	2,394
Other	0	0	3	7,312	2	11,180	5	101,431	1	141,936
<b>Total</b>	<b>20</b>	<b>306,940</b>	<b>9</b>	<b>119,927</b>	<b>10</b>	<b>117,636</b>	<b>11</b>	<b>234,936</b>	<b>14</b>	<b>422,675</b>

Source: Baltimore Metropolitan Council, May 2024

**Table 5A**  
**Harford County Non-Residential Permit Activity**  
**Additions, Alterations, and Repairs Valued \$50,000 and Over**

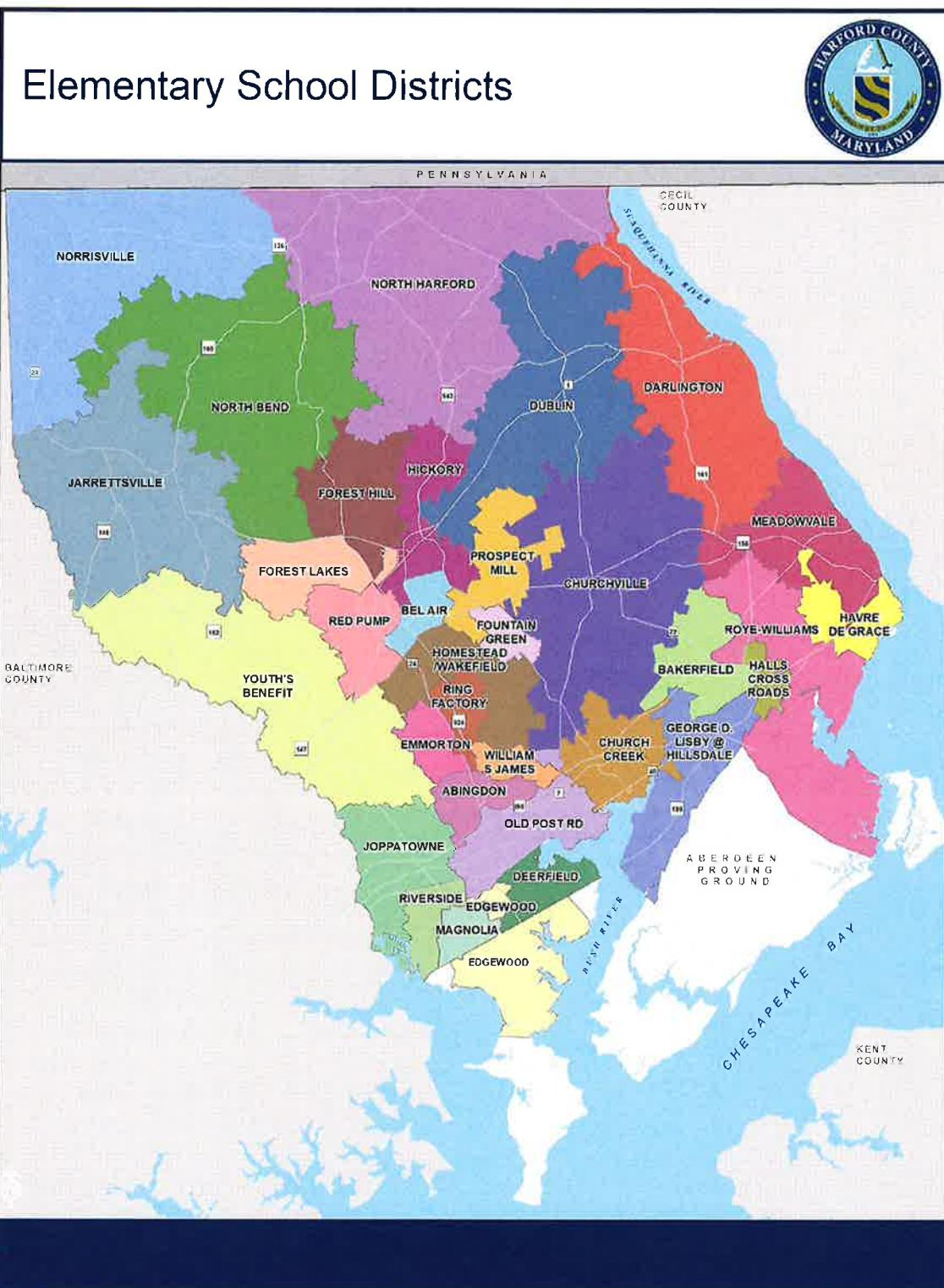
Permit Type	2019		2020		2021		2022		2023	
	# of Permits	Square Footage								
Commercial	8	N/A	6	N/A	9	N/A	10	N/A	43	N/A
Industrial	6	N/A	1	N/A	2	N/A	3	N/A	7	N/A
Institutional	2	N/A	5	N/A	5	N/A	12	N/A	18	N/A
Utilities	0	N/A								
<b>Total</b>	<b>16</b>	<b>N/A</b>	<b>12</b>	<b>N/A</b>	<b>16</b>	<b>N/A</b>	<b>25</b>	<b>N/A</b>	<b>68</b>	<b>N/A</b>

**NA: Data Not Available**

Source: Baltimore Metropolitan Council, May 2024

# APPENDIX B

FIGURE 1B



**Table 6B**

Harford County Elementary Schools 2023 Utilization Chart									
ELEMENTARY SCHOOLS		ACTUAL ENROLLMENT 2023		PROJECTIONS					
SCHOOL NAME	CAP	ENR	% CAP	2023/2024		2024/2025		2025/2026	
		PROJ	% CAP	PROJ	% CAP	PROJ	% CAP	PROJ	% CAP
Abingdon <sup>2</sup>	863	674	78%	669	78%	649	75%	644	75%
Bakerfield <sup>1</sup>	500	452	90%	477	95%	502	100%	522	104%
Bel Air <sup>2</sup>	486	514	106%	505	104%	510	105%	510	105%
Church Creek <sup>2</sup>	819	722	88%	732	89%	741	90%	750	92%
Churchville	411	376	91%	373	91%	369	90%	370	90%
Darlington	157	92	59%	87	55%	90	57%	94	60%
Deerfield <sup>1</sup>	788	714	91%	728	92%	733	93%	723	92%
Dublin <sup>2</sup>	294	216	73%	212	72%	209	71%	209	71%
Edgewood <sup>2</sup>	461	415	90%	425	92%	421	91%	419	91%
Emmorton	570	556	98%	596	105%	591	104%	598	105%
Forest Hill	530	475	90%	465	88%	471	89%	462	87%
Forest Lakes	530	420	79%	450	85%	411	78%	403	76%
Fountain Green <sup>1</sup>	548	456	83%	456	83%	466	85%	456	83%
G. Lisby at Hillsdale <sup>1</sup>	473	516	109%	523	111%	528	112%	531	112%
Hall's Cross Roads <sup>1</sup>	552	443	80%	442	80%	446	81%	452	82%
Havre de Grace <sup>2</sup>	542	603	111%	620	114%	636	117%	646	119%
Hickory	668	664	99%	674	101%	684	102%	692	104%
Homestead/Wakefield <sup>2</sup>	920	1,057	115%	1,062	115%	1,067	116%	1,072	117%
Jarrettsville	525	476	91%	473	90%	477	91%	479	91%
Joppatowne <sup>1</sup>	663	495	75%	511	77%	512	77%	511	77%
Magnolia <sup>1</sup>	561	527	94%	530	94%	530	94%	530	94%
Meadowvale <sup>2</sup>	568	544	96%	540	95%	548	96%	553	97%
Norrisville	274	213	78%	221	81%	220	80%	222	81%
North Bend <sup>2</sup>	498	448	90%	469	94%	455	91%	472	95%
North Harford <sup>1</sup>	500	404	81%	423	85%	424	85%	420	84%
Prospect Mill <sup>2</sup>	984	892	91%	894	91%	896	91%	898	91%
Red Pump	611	592	97%	596	98%	600	98%	604	99%
Ring Factory	737	753	102%	744	101%	750	102%	758	103%
Riverside <sup>1</sup>	548	544	99%	545	99%	548	100%	551	101%
Roye-Williams <sup>1</sup>	588	465	79%	487	83%	508	86%	523	89%
Old Post <sup>1</sup>	703	449	64%	456	65%	463	66%	470	67%
Wm S. James	521	475	91%	477	92%	479	92%	481	92%
Youth's Benefit	1,120	1,114	99%	1,132	101%	1,142	102%	1,152	103%
<b>TOTALS<sup>3</sup>:</b>	<b>19,513</b>	<b>17,756</b>	<b>91%</b>	<b>17,994</b>	<b>92%</b>	<b>18,076</b>	<b>93%</b>	<b>18,177</b>	<b>93%</b>

<sup>\*</sup>Note: preliminary subdivisions and residential site plans of greater than five lots/units will not be approved in attendance areas that are highlighted

Source: Harford County Public Schools & Dept. of Planning and Zoning, May 2024.

<sup>1</sup>Full-day Prekindergarten

<sup>2</sup>Half-day Prekindergarten

<sup>3</sup>TOTAL % Capacity = (Total Projection/Total Capacity)\*100.

**Table 7B**

Harford County Modified Elementary School Enrollment Projections								
School Name	2023	2024	2025	2026	2027	2028	2029	2030
Abingdon	674	669	661	648	630	606	586	565
Bakerfield	452	477	527	604	718	877	1,098	1,400
Bel Air	514	505	489	474	462	455	450	447
Church Creek	722	732	770	819	881	959	1,055	1,171
Churchville	376	373	371	370	364	350	340	328
Darlington	92	87	78	74	67	62	58	54
Deerfield	714	728	746	754	757	761	774	783
Dublin	216	212	211	210	209	209	209	208
Edgewood	415	425	448	471	474	486	497	507
Emmorton	556	596	650	717	801	888	984	1,087
Forest Hill	475	465	465	456	435	419	407	392
Forest Lakes	420	450	432	407	371	348	330	310
Fountain Green	456	456	445	426	409	394	377	360
G. Lisby at Hillsdale	516	523	550	582	619	662	711	776
Hall's Cross Roads	443	442	436	436	427	420	406	394
Havre de Grace	603	620	715	837	1,006	1,218	1,483	1,812
Hickory	664	674	713	762	821	890	968	1,053
Homestead/Wakefield	1,057	1,062	1,086	1,116	1,151	1,193	1,243	1,300
Jarrettsville	476	473	466	462	456	447	441	434
Joppatowne	495	511	529	547	568	579	602	624
Magnolia	527	530	567	606	639	661	701	734
Meadowvale	544	540	549	563	582	604	631	662
Norrisville	213	221	231	244	247	242	235	228
North Bend	448	469	502	556	594	653	706	762
North Harford	404	423	469	514	553	581	615	649
Prospect Mill	592	596	610	629	652	681	716	757
Red Pump	753	744	747	758	779	809	846	889
Ring Factory	544	545	565	589	618	651	690	735
Riverside	465	487	565	675	821	1,016	1,276	1,622
Roye-Williams	449	456	477	506	544	595	659	741
Old Post	892	894	961	1,035	1,118	1,210	1,312	1,425
Wm S. James	475	477	461	447	435	426	418	412
Youth's Benefit	1,114	1,132	1,160	1,199	1,248	1,308	1,377	1,457
<b>TOTAL</b>	<b>17,756</b>	<b>17,994</b>	<b>18,653</b>	<b>19,493</b>	<b>20,457</b>	<b>21,661</b>	<b>23,202</b>	<b>25,079</b>

Source: HCPS, May 2024.

**Table 8B**

ELEMENTARY SCHOOL	2019						2020						2021						2022						2023					
	BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE								
	SF	TH	APT/CO	SF	TH	APT/CO	SF	TH	APT/CO	SF	TH	APT/CO	SF	TH	APT/CO	SF	TH	APT/CO	SF	TH	APT/CO	SF	TH	APT/CO	SF	TH	APT/CO			
Abingdon	1	0	57	0	58	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
Bakerfield	3	0	0	3	72	0	0	0	72	23	0	0	0	0	0	23	1	0	288	0	289	13	24	88	0	125	0	0		
Bel Air	0	12	8	0	20	4	0	0	4	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0		
Church Creek	0	0	0	0	0	0	0	0	0	0	61	0	0	61	2	84	12	0	98	0	86	352	0	438	0	0	0	0		
Churchville	9	0	0	9	7	0	0	0	7	2	0	0	0	2	3	0	0	0	3	11	0	0	0	0	0	0	11	0		
Darlington	3	0	0	3	2	0	0	0	2	0	0	0	0	2	1	0	0	0	0	1	3	0	0	0	0	0	0	3	0	
Deerfield	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	
Dublin	5	0	0	5	7	0	1	8	5	0	0	0	0	5	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	
Edgewood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	68	0	68	0	0	68	0	
Emmorton	31	0	0	31	13	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forest Hill	14	0	0	14	9	0	0	0	9	0	0	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	
Forest Lakes	1	0	0	1	2	0	0	0	2	3	0	0	0	3	3	0	0	0	3	2	0	0	0	0	0	0	0	2		
Fountain Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G. Lisby at Hillsdale	123	139	0	262	152	89	0	0	241	42	0	0	42	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hall's Cross Roads	3	0	0	3	1	0	0	0	1	2	0	5	0	7	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3	
Havre de Grace	36	13	0	49	16	21	0	0	37	53	2	52	0	107	9	0	25	0	34	30	75	26	0	131	0	0	0	0		
Hickory	0	0	0	0	1	0	72	0	73	1	0	0	0	1	2	0	68	0	70	1	0	116	0	117	0	0	0	0		
Homestead/Wakefield	49	40	39	0	128	77	27	0	0	104	5	22	0	0	27	2	0	0	0	0	0	0	0	0	0	0	0	0	3	
Jarrettsville	16	0	0	16	11	0	0	0	11	6	0	0	0	6	9	0	0	0	9	7	0	0	0	0	0	0	0	7		
Joppatowne	1	0	0	1	2	0	0	0	2	2	0	0	0	2	7	0	0	0	7	4	7	0	0	11	0	0	0	0		
Magnolia	0	0	0	0	0	0	20	0	20	0	24	0	0	24	0	0	0	0	0	0	0	0	14	0	0	0	14	0		
Meadowvale	2	37	0	39	0	0	0	0	0	3	2	0	0	5	1	0	0	1	2	9	0	0	0	0	0	0	0	9		
Norrisville	4	0	1	5	9	0	0	0	9	7	0	0	0	7	4	0	0	1	5	4	0	0	1	5	0	0	0	1		
North Bend	8	0	0	8	10	0	0	0	10	21	0	0	0	21	19	0	0	0	19	11	0	0	0	0	0	0	0	11		
North Harford	5	0	0	0	5	19	0	0	0	19	0	0	0	26	11	0	0	0	11	4	1	0	1	6	0	0	0	0		
Prospect Mill	32	55	0	87	32	17	0	0	49	23	0	0	0	23	20	0	0	20	15	0	0	0	0	15	0	0	0	15		
Red Pump	6	0	6	3	0	0	0	0	3	9	0	0	0	9	13	0	0	13	1	0	0	0	1	0	0	0	1			
Ring Factory	1	0	1	0	0	0	0	0	0	4	0	0	0	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0		
Riverside	1	0	0	1	4	9	0	0	13	1	25	0	0	26	1	0	0	1	46	40	0	0	86	0	0	0	0	86		
Roye-Williams	2	0	0	2	1	0	0	1	2	3	0	0	237	0	240	1	0	51	0	52	1	0	0	0	0	0	0	1		
Wm. Paca/Old Post Rd	10	0	0	10	0	0	0	0	3	0	0	0	0	3	1	0	0	1	2	0	0	0	0	2	0	0	0	2		
Wm. S. James	25	0	25	33	0	0	0	0	33	5	3	0	0	8	0	0	18	0	0	9	0	0	0	9	0	0	0	9		
Youth's Benefit	28	0	0	28	36	0	56	0	92	16	40	0	0	56	26	22	1	0	49	20	0	0	0	0	0	0	0	20		
<b>TOTAL</b>	<b>419</b>	<b>296</b>	<b>104</b>	<b>1</b>	<b>820</b>	<b>523</b>	<b>183</b>	<b>128</b>	<b>2</b>	<b>836</b>	<b>273</b>	<b>179</b>	<b>294</b>	<b>0</b>	<b>746</b>	<b>145</b>	<b>124</b>	<b>445</b>	<b>2</b>	<b>716</b>	<b>191</b>	<b>256</b>	<b>650</b>	<b>2</b>	<b>1099</b>					

Note: Permit totals revised to reflect cancelled permits.  
 Source: Harford County Dept. of Planning & Zoning, May 2024.

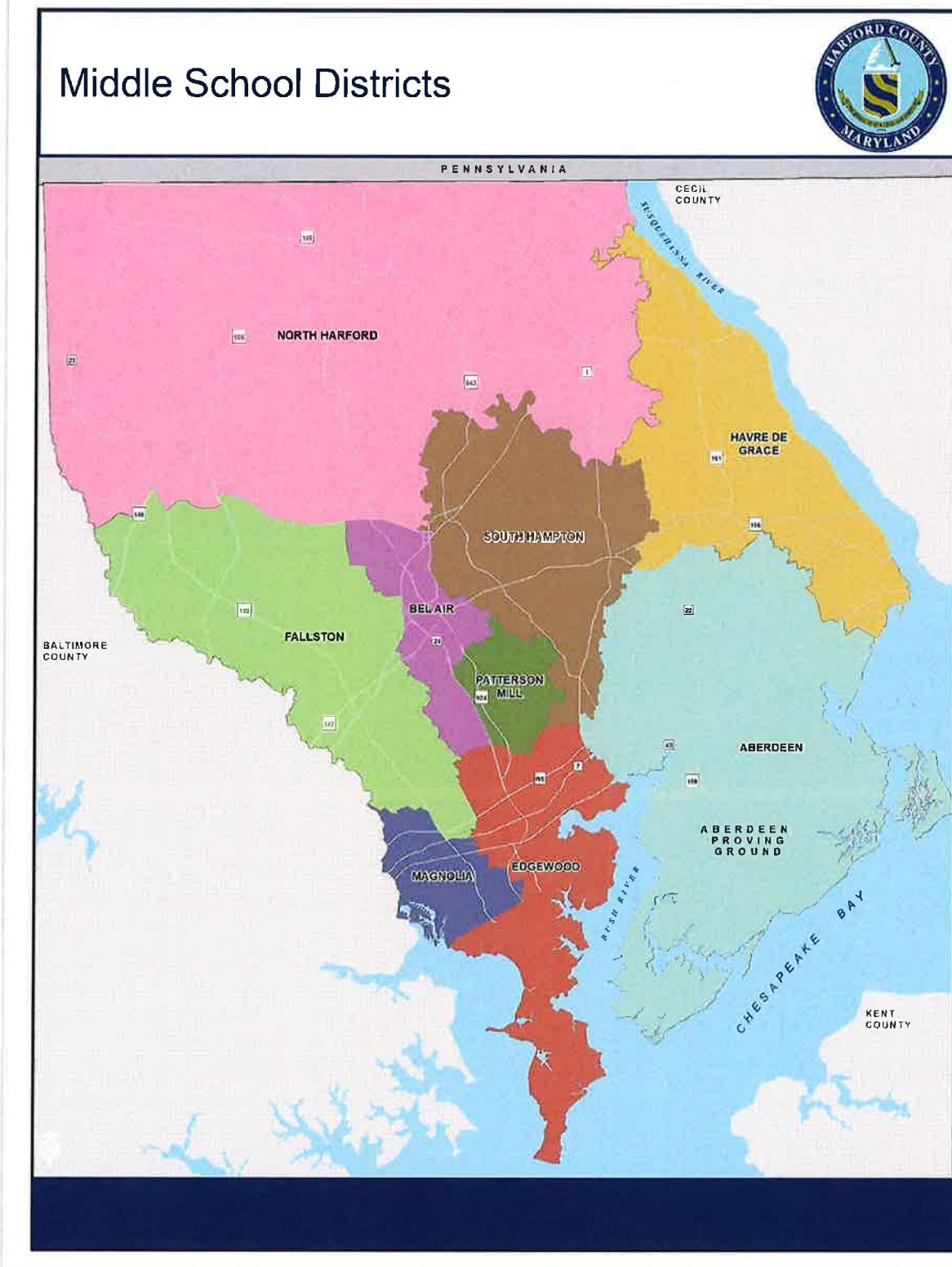
**Table 9B**

Harrford County Population and Households By Elementary School District: 2019 - 2023						
Elementary School	2019*		2020*		2021*	
	Households	Population	Households	Population	Households	Population
Abingdon	5,259	13,984	5,314	14,130	5,314	14,130
Bakerfield	2,586	6,878	2,589	6,886	2,659	7,070
Bei Air	3,061	8,139	3,080	8,190	3,083	8,200
Church Creek	4,059	10,794	4,059	10,794	4,059	10,794
Churchville	2,500	6,649	2,509	6,671	2,515	6,689
Darlington	1,019	2,711	1,022	2,718	1,024	2,723
Deerfield	3,269	8,692	3,269	8,692	3,269	8,692
Dublin	1,717	4,566	1,722	4,579	1,729	4,599
Edgewood	1,286	3,339	1,256	3,339	1,256	3,339
Emmorton	2,798	7,440	2,828	7,521	2,841	7,554
Forest Hill	2,484	6,606	2,497	6,641	2,506	6,664
Forest Lakes	2,861	7,608	2,862	7,610	2,864	7,615
Mountain Green	1,899	5,049	1,899	5,049	1,899	5,049
G. Lisby at Hillsdale	2,565	6,822	2,815	7,486	3,044	8,094
Hall's Cross Roads	2,008	5,341	2,011	5,348	2,012	5,351
Havre de Grace	4,036	10,732	4,082	10,856	4,117	10,949
Hickory	3,056	8,127	3,056	8,127	3,125	8,311
Homestead/Wakenfield	5,720	15,211	5,839	15,529	5,938	15,791
Jarrettsville	2,811	7,476	2,827	7,517	2,837	7,545
Joppatowne	3,863	10,273	3,864	10,276	3,866	10,281
Magnolia	1,905	5,066	1,905	5,066	1,924	5,116
Meadowvale	2,639	7,018	2,676	7,117	2,676	7,117
Norrisville	1,310	3,485	1,315	3,497	1,324	3,520
North Bend	2,344	6,234	2,362	6,254	2,361	6,279
North Harford	2,417	6,427	2,423	6,443	2,441	6,490
Prospect Mill	2,942	7,822	3,024	8,042	3,071	8,166
Red Pump	4,341	11,543	4,346	11,558	4,349	11,566
Ring Factory	2,733	7,268	2,734	7,270	2,734	7,270
Riverside	2,518	6,696	2,519	6,698	2,531	6,731
Roye-Williams	2,132	5,669	2,135	5,677	2,137	5,682
Wm. Paca/Old Post Rd	4,673	12,427	4,683	12,454	4,683	12,454
Wm. S. James	2,081	5,534	2,105	5,597	2,136	5,681
Youth's Benefit	5,528	14,700	5,555	14,771	5,642	15,003
<b>TOTAL</b>	<b>96,389</b>	<b>256,326</b>	<b>97,170</b>	<b>258,403</b>	<b>97,966</b>	<b>260,515</b>
					<b>98,685</b>	<b>262,431</b>
						<b>99,711</b>
						<b>265,161</b>

\* Note: Population and household figures have been revised to reflect 2020 Census data (April 1 of each year).

Source: Harford County Dept. of Planning & Zoning, May 2024.

## FIGURE 2B



**Table 10B**

Harford County Middle Schools 2023 Utilization Chart									
MIDDLE SCHOOLS		ACTUAL ENROLLMENT 2023		PROJECTIONS					
SCHOOL NAME	CAP	2023/ 2024		2024/2025		2025/2026			
		ENR	% CAP	PROJ	% CAP	PROJ	% CAP	PROJ	% CAP
Aberdeen	1,624	1,058	65%	1,086	67%	1,111	68%	1,136	70%
Bel Air	1,243	1,080	87%	1,088	88%	1,099	88%	1,092	88%
Edgewood	1,295	994	77%	965	75%	961	74%	981	76%
Fallston	1,104	1,060	96%	1,098	99%	1,132	103%	1,158	105%
Magnolia	1,028	724	70%	714	69%	730	71%	742	72%
North Harford	1,210	867	72%	883	73%	898	74%	902	75%
Southampton	1,444	1,194	83%	1,188	82%	1,206	84%	1,209	84%
<b>Total</b>	<b>8,948</b>	<b>6,977</b>	<b>78%</b>	<b>7,022</b>	<b>78%</b>	<b>7,137</b>	<b>80%</b>	<b>7,220</b>	<b>81%</b>

COMBINATION MIDDLE / HIGH SCHOOLS		ACTUAL ENROLLMENT 2023		PROJECTIONS					
SCHOOL NAME	CAP	2023/ 2024		2024/2025		2025/2026			
		ENR	% CAP	PROJ	% CAP	PROJ	% CAP	PROJ	% CAP
Havre de Grace	1,597	1,457	91%	1,479	93%	1,496	94%	1,501	94%
Patterson Mill	1,723	1,593	92%	1,604	93%	1,656	96%	1,654	96%
<b>TOTAL</b>	<b>3,320</b>	<b>3,050</b>	<b>92%</b>	<b>3,083</b>	<b>93%</b>	<b>3,152</b>	<b>95%</b>	<b>3,155</b>	<b>95%</b>

Source: Harford County Public Schools & Dept. of Planning and Zoning, May 2024.

**Table 11B**

<b>Harford County Modified Middle School Enrollment Projections</b>								
<b>School Name</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Aberdeen	1,058	1,086	1,121	1,156	1,186	1,212	1,232	1,253
Bel Air	1,080	1,088	1,112	1,136	1,143	1,160	1,178	1,196
Edgewood	994	965	979	993	1,031	1,089	1,091	1,101
Fallston	1,060	1,098	1,140	1,183	1,218	1,246	1,268	1,287
Magnolia	724	714	736	758	777	799	815	827
North Harford	867	883	907	931	945	940	947	957
Southampton	1,194	1,188	1,222	1,256	1,276	1,295	1,312	1,329
<b>Total</b>	<b>6,977</b>	<b>7,022</b>	<b>7,217</b>	<b>7,413</b>	<b>7,576</b>	<b>7,741</b>	<b>7,843</b>	<b>7,950</b>

<b>Harford County Modified Combination Middle/ High School Enrollment Projections</b>								
<b>School Name</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>
Havre De Grace	1,457	1,479	1,497	1,515	1,534	1,547	1,561	1,574
Patterson Mill	1,593	1,604	1,632	1,661	1,667	1,658	1,668	1,674
<b>Total</b>	<b>3,050</b>	<b>3,083</b>	<b>3,129</b>	<b>3,176</b>	<b>3,201</b>	<b>3,205</b>	<b>3,229</b>	<b>3,248</b>

Source: Harford County Dept. of Planning and Zoning, May 2024.

**Table 12B**

MIDDLE SCHOOL	Harford County Residential Building Permit Activity By Middle School District: 2019 - 2023																								
	2019				2020				2021				2022												
	BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE			BUILDING PERMITS ISSUED BY DWELLING TYPE												
	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL					
Aberdeen	132	139	0	0	271	226	89	0	1	316	71	61	242	0	374	7	84	351	0	442	18	110	440	0	568
Bel Air	60	49	47	0	156	44	0	0	0	44	10	0	0	0	10	10	0	0	0	10	2	0	0	0	2
Edgewood	14	0	57	0	71	2	0	0	0	2	5	0	0	0	5	3	0	0	0	3	3	0	68	0	71
Fallston	36	0	0	0	36	48	0	56	0	104	21	40	0	0	61	37	22	1	0	60	26	0	0	0	26
Havre de Grace	43	50	0	0	93	19	21	0	0	40	57	4	52	0	113	11	0	25	1	37	43	75	26	0	144
Magnolia	1	0	0	0	1	5	29	0	0	34	3	49	0	0	52	7	0	0	0	7	49	61	0	0	110
North Harford	45	0	0	1	46	58	0	0	1	59	61	0	0	0	61	42	0	0	1	43	25	1	0	2	28
Patterson Mill	48	3	0	0	51	78	27	0	0	105	14	25	0	0	39	3	18	0	0	21	0	9	0	0	9
Southampton	40	55	0	0	95	43	17	72	0	132	31	0	0	0	31	25	0	68	0	93	25	0	116	0	141
<b>TOTAL</b>	<b>419</b>	<b>296</b>	<b>104</b>	<b>1</b>	<b>820</b>	<b>523</b>	<b>183</b>	<b>128</b>	<b>2</b>	<b>836</b>	<b>273</b>	<b>179</b>	<b>294</b>	<b>0</b>	<b>746</b>	<b>145</b>	<b>124</b>	<b>445</b>	<b>2</b>	<b>716</b>	<b>191</b>	<b>256</b>	<b>650</b>	<b>2</b>	<b>1099</b>

Note: Permits totals revised for cancelled permits.

Source: Harford County Dept. of Planning & Zoning, May 2024.

KEY: SF = Single Family Dwelling; TH = Townhouse; APT/CO = Apartment/Condominium; MH = Mobile Home

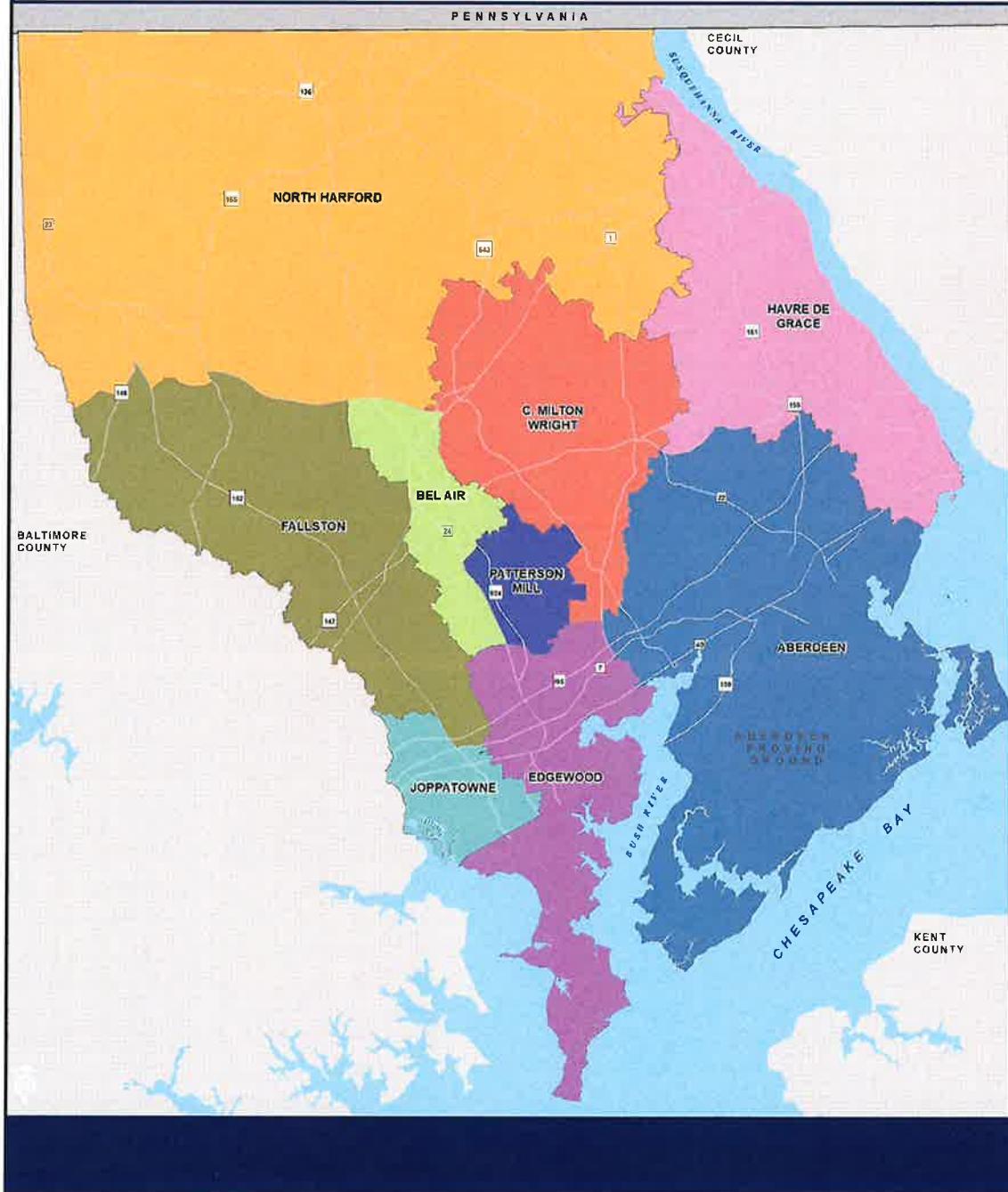
**Table 13B**

SCHOOL	Harford County Population and Households By Middle School District: 2018 - 2022						Population			
	2019*	2020*	2021*	2022*	2023*					
Households	Population	Households	Population	Households	Population	Households	Population			
Aberdeen	13,984	37,186	14,243	37,875	14,543	38,675	14,899	39,622	15,421	41,011
Bel Air	14,788	39,326	14,935	39,717	14,977	39,828	14,986	39,853	14,988	39,858
Edgewood	14,441	38,404	14,510	38,586	14,512	38,591	14,516	38,603	14,584	38,782
Fallston	9,565	25,436	9,599	25,526	9,698	25,789	9,756	25,943	9,780	26,008
Havre de Grace	7,908	21,030	7,997	21,265	8,034	21,366	8,142	21,651	8,278	22,015
Magnolia	8,168	21,722	8,169	21,725	8,202	21,810	8,251	21,942	8,355	22,219
North Harford	10,750	28,589	10,795	28,707	10,851	28,856	10,910	29,013	10,936	29,083
Patterson Mill	6,534	17,374	6,582	17,503	6,682	17,768	6,719	17,867	6,727	17,890
Southampton	10,250	27,259	10,341	27,499	10,466	27,832	10,506	27,938	10,640	28,294
<b>TOTAL</b>	<b>96,389</b>	<b>256,326</b>	<b>97,170</b>	<b>258,403</b>	<b>97,965</b>	<b>260,515</b>	<b>98,685</b>	<b>262,432</b>	<b>99,711</b>	<b>265,161</b>

\* Note: Population and household figures have been revised to reflect 2020 Census data (April 1 of each year).  
 Source: Harford County Dept. of Planning and Zoning, May 2024.

## FIGURE 3B

## High School Districts



**Table 14B**

Harford County High Schools 2023 Utilization Chart									
HIGH SCHOOLS		ACTUAL ENROLLMENT 2023		PROJECTIONS					
SCHOOL NAME	CAP	2023/2024		2024/2025		2025/2026		PROJ	% CAP
		ENR	% CAP	PROJ	% CAP	PROJ	% CAP		
Aberdeen	1,720	1,465	85%	1,467	85%	1,487	86%	1,507	88%
Bel Air	1,768	1,419	80%	1,327	75%	1,330	75%	1,334	75%
C. Milton Wright	1,613	1,302	81%	1,294	80%	1,286	80%	1,298	80%
Edgewood	1,716	1,417	83%	1,454	85%	1,446	84%	1,414	82%
Fallston	1,573	1,047	67%	1,058	67%	1,064	68%	1,069	68%
Harford Technical	1,135	983	87%	985	87%	985	87%	985	87%
Joppatowne	1,056	900	85%	957	91%	977	93%	992	94%
North Harford	1,538	1,162	76%	1,171	76%	1,167	76%	1,165	76%
<b>TOTAL</b>	<b>12,119</b>	<b>9,695</b>	<b>80%</b>	<b>9,713</b>	<b>80%</b>	<b>9,742</b>	<b>80%</b>	<b>9,764</b>	<b>81%</b>

Source: Harford County Public Schools & Dept. of Planning and Zoning, May 2024.

## Table 15B

Harford County Modified High School Enrollment Projections								
School District	2023	2024	2025	2026	2027	2028	2029	2030
Aberdeen	1,465	1,467	1,468	1,469	1,470	1,471	1,472	1,473
Bel Air	1,419	1,327	1,328	1,329	1,330	1,331	1,332	1,333
C. Milton Wright	1,302	1,294	1,295	1,296	1,297	1,298	1,299	1,300
Edgewood	1,417	1,454	1,455	1,456	1,457	1,458	1,459	1,460
Fallston	1,047	1,058	1,059	1,060	1,061	1,062	1,063	1,064
Joppatowne	900	957	958	959	960	961	962	963
North Harford	1,162	1,171	1,172	1,173	1,174	1,175	1,176	1,177
<b>Total</b>	<b>8,712</b>	<b>8,728</b>	<b>8,735</b>	<b>8,742</b>	<b>8,749</b>	<b>8,756</b>	<b>8,763</b>	<b>8,770</b>

Source: Harford County Public Schools & Dept. of Planning and Zoning, May 2024.

**Table 16B**

HIGH SCHOOL	BUILDING PERMITS ISSUED BY DWELLING TYPE												BUILDING PERMITS ISSUED BY DWELLING TYPE												BUILDING PERMITS ISSUED BY DWELLING TYPE											
	2019				2020				2021				2022				2023				2024				2025											
	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL	SF	TH	APT/ CO	MH	TOTAL						
Aberdeen	132	139	0	0	271	226	89	0	1	316	71	61	242	0	374	7	84	351	0	442	18	110	440	0	568											
Bel Air	60	49	47	0	156	44	0	0	0	44	10	0	0	0	10	10	0	0	0	10	2	0	0	0	0	0	0	0	2							
C.M. Wright	40	55	0	0	95	43	17	72	0	132	31	0	0	0	31	25	0	68	0	93	25	0	116	0	141											
Edgewood	14	0	57	0	71	2	0	0	0	2	5	0	0	0	5	3	0	0	0	3	3	0	3	0	68	0	71									
Fallston	36	0	0	0	36	48	0	56	0	104	21	40	0	0	61	37	22	1	0	60	26	0	0	0	0	0	0	0	26							
Havre de Grace	43	50	0	0	93	19	21	0	0	40	57	4	52	0	113	11	0	25	1	37	43	75	26	0	144											
Joppa/owne	1	0	0	0	1	5	29	0	0	34	3	49	0	0	52	7	0	0	0	7	49	61	0	0	0	110										
North Harford	45	0	0	1	46	58	0	0	1	59	61	0	0	0	61	42	0	0	1	43	25	1	0	2	28											
Patterson Mill	48	3	0	0	51	78	27	0	0	105	14	25	0	0	39	3	18	0	0	21	0	9	0	0	0	9										
<b>TOTAL</b>	<b>419</b>	<b>296</b>	<b>104</b>	<b>1</b>	<b>820</b>	<b>523</b>	<b>183</b>	<b>128</b>	<b>2</b>	<b>836</b>	<b>273</b>	<b>179</b>	<b>294</b>	<b>0</b>	<b>746</b>	<b>145</b>	<b>124</b>	<b>445</b>	<b>2</b>	<b>716</b>	<b>191</b>	<b>256</b>	<b>650</b>	<b>2</b>	<b>1099</b>											

Note: Permits totals revised for cancelled permits.

Source: Harford County Dept. of Planning &amp; Zoning, May 2024.

KEY: SF = Single Family Dwelling, TH = Townhouse, APT/CO = Apartment/Condominium, MH = Mobile Home

Table 17B

Harford County Population and Households By High School District: 2019 - 2023															
SCHOOL	2019*			2020*			2021*			2022*			2023*		
	Households	Population	Households	Population	Households	Population									
Aberdeen	13,984	37,186	14,243	37,875	14,543	38,675	14,899	39,622	15,421	41,011					
Bel Air	14,788	39,326	14,935	39,717	14,977	39,828	14,986	39,853	14,988	39,858					
C. Milton Wright	10,250	27,258	10,341	27,498	10,466	27,831	10,506	27,938	10,640	28,294					
Edgewood	14,441	38,404	14,510	38,586	14,512	38,591	14,516	38,603	14,584	38,782					
Fallston	9,565	25,436	9,599	25,526	9,698	25,789	9,756	25,943	9,780	26,008					
Havre de Grace	7,908	21,030	7,997	21,265	8,034	21,366	8,142	21,651	8,278	22,015					
Joppatowne	8,168	21,722	8,169	21,725	8,202	21,810	8,251	21,942	8,355	22,219					
North Harford	10,750	28,589	10,795	28,707	10,851	28,856	10,910	29,013	10,936	29,083					
Patterson Mill	6,538	17,386	6,586	17,515	6,686	17,780	6,723	17,878	6,727	17,890					
<b>TOTAL</b>	<b>96,393</b>	<b>256,337</b>	<b>97,174</b>	<b>258,414</b>	<b>97,969</b>	<b>260,526</b>	<b>98,689</b>	<b>262,442</b>	<b>99,711</b>	<b>265,161</b>					

**Note:** Population and household figures have been revised to reflect 2020 Census data (April 1 of each year).

Source: Harford County Dept. of Planning and Zoning, May 2024.

# APPENDIX C

**Table 18C**

JANUARY - DECEMBER 2023			
WATER CONSUMPTION & SEWAGE GENERATION			
Total Number of Accounts	Retail	Water and Sewer	41,867
		Water Only	1,564
		Sewer Only	3,178
	Wholesale	Water Only	14
		Sewer Only	3
	Total	Water and Sewer	46,626
WATER			
Total Number of Water Accounts (VBA)	Retail	Water	43,431
	Wholesale	Water	14
Average Daily Water Production Total Retail and Wholesale Customers	12.35 MGD		
Maximum Day Water Production Total Retail and Wholesale Customers	15.40 MGD		
Average Water Usage per Account – All Retail Accounts	216 MGD		
Average Residential Water Usage per Account – Retail Accounts	179 MGD		
Average Commercial / Industrial Water Usage per Account – Retail Accounts	1,559 MGD		
SEWAGE			
Total Number of Sewer Accounts	Retail	Sewer	45,045
	Wholesale	Sewer	3
Average Treated Sewage Flow – Total Retail and Wholesale Customers	10.58 MGD		
Maximum Day Treated Sewage Flow – Total Retail and Wholesale Customers	19.90 MGD		
Average Sewage Generation per Account – All Retail Accounts	179 MGD		
Average Residential Sewage Generation per Account – Retail Accounts	216 MGD		
Average Commercial / Industrial Sewage Generation per Account – Retail Accounts	1,559 MGD		

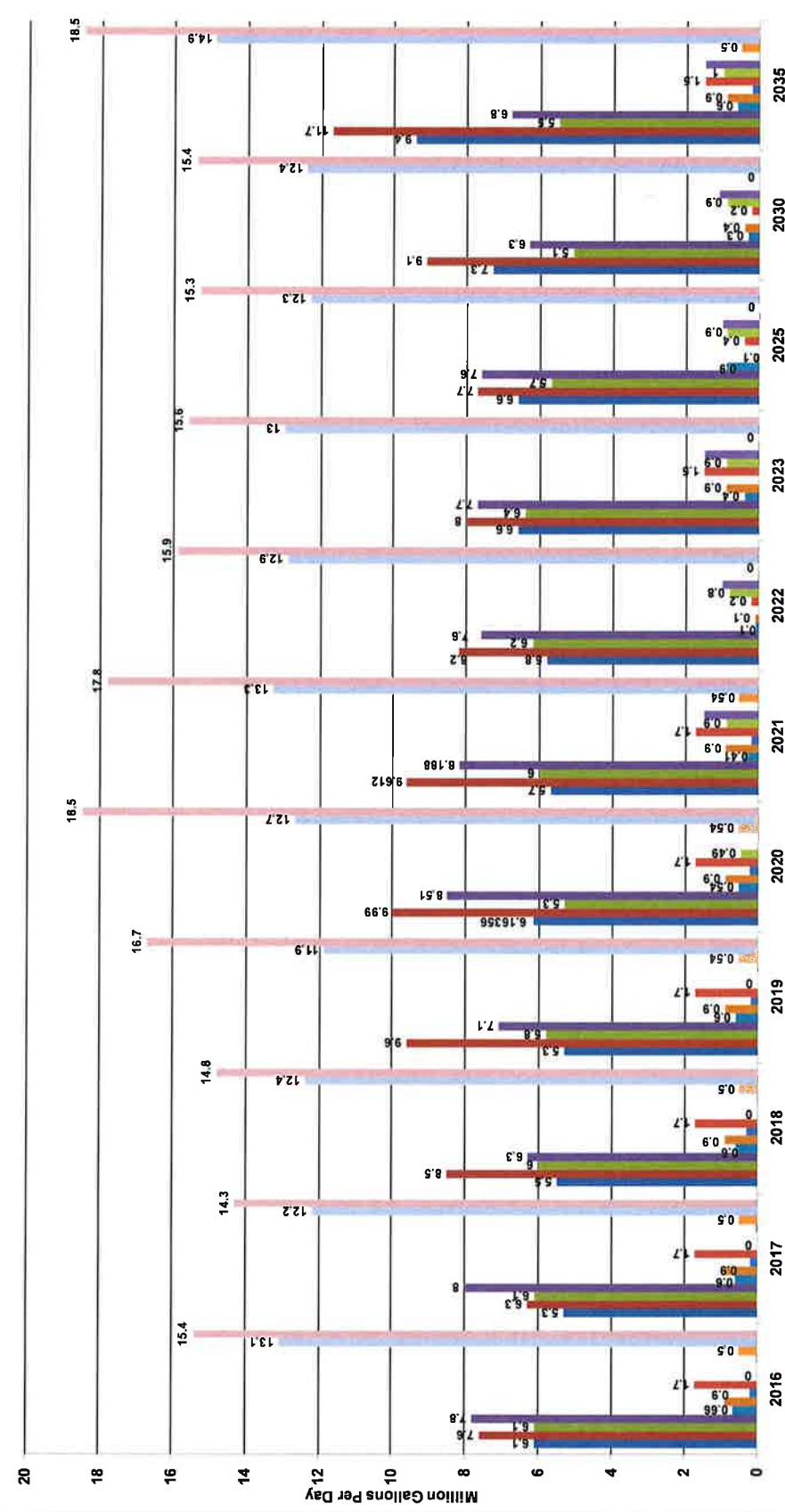
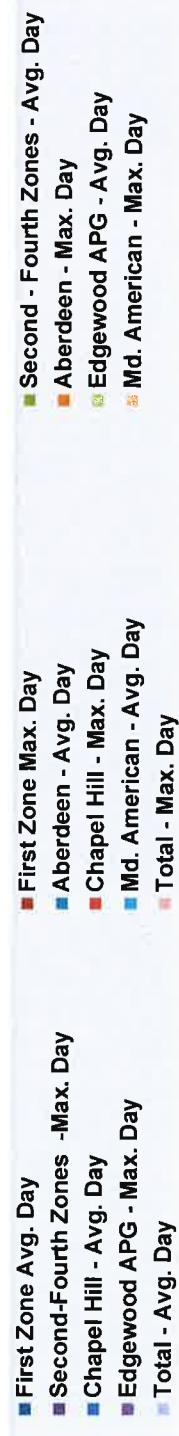
Note: MGD = Million Gallons per Day, GPD = Gallons per Day

Valid Billing Accounts (VBA) - Includes all active valid billing accounts during the selected calendar year.

Valid Consumption Records (VCR) - Includes all valid active billing accounts (VBA) with consumption during the selected calendar year.

Source: 2023 Adequate Public Facilities Report, Dept. of Public Works, Division of Water and Sewer

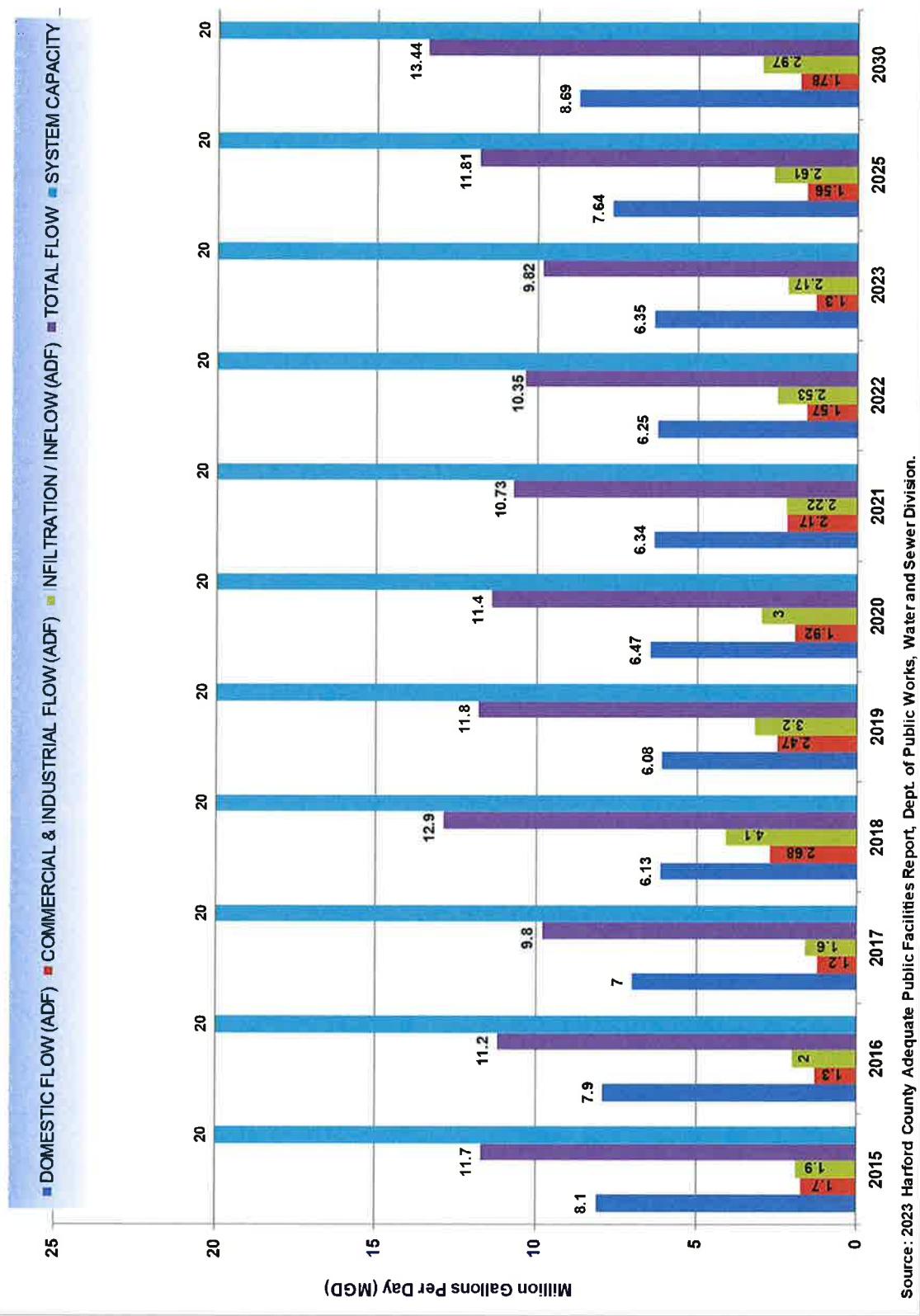
**Harford County Water Production Projections: 2016 - 2035 (in Million Gallons Per Day (MGD))**



Source: 2023 Harford County Adequate Public Facilities Report, Dept. of Public Works, Water and Sewer Division.

**Table 20C**

**Sod Run Present and Projected Sewerage Demands and Planned Capacities in Million Gallons Per Day (MGD): 2015 - 2035**



Source: 2023 Harford County Adequate Public Facilities Report, Dept. of Public Works, Water and Sewer Division.

**Table 21C**  
**2023 EXISTING WATER & SEWER CAPITAL PROJECTS**

The Capital Improvement Program establishes projects for expanding and improving water and sewer facilities. This list of 2023 Capital Projects includes the project status.

PROJECT NO.	PROJECT NAME	PROJECT STATUS
Water Projects		
5401	MDTA Projects	80%-100% Design Complete
5424	Abingdon WTP Generator & Switchgear Upgrade	Preliminary Design Complete
5426	Ridgely's Reserve WBS	Under Construction
5425	Central Laboratory Study	100% Study Complete
6130	Abingdon WTP pH Control System	95% Design Complete
6141	Havre de Grace (HDG) WTP Solids Handling Building Revisions	Construction Complete
6141	HDG WTP Clearwell Baffel Wall	100% Design Complete
6141	HDG WTP Filter-to-Waste Piping	100% Design Complete
6152	Water Tank Design and Construction	Future Project
6212	Harford Square Water Main	Under Construction
6492	Replacement of Water Booster SCADA	Under Construction
6660	Water Zone Improvements	On-going
6687	Abingdon Road Water Main	90% Design Complete
6718	Baltimore City Deer Creek P.S. Improvements	Preliminary Engineering
6723	Brierhill Estates Water Main	10% Design Complete
6723	Conowingo Road Water Main Replacement	100% Design Complete
Sewer Projects		
5401	MDTA Projects	80%-100% Design Complete
5402	Joppatowne WWTP Improvements	50% Design Complete
5428	Magnolia Road Sewer Petition	80% Design Complete
5429	Woodridge Manor Area Sewer Petition	90% Design Complete
6019	Sod Run Bio-solids Facility Enhancements	100% Design Complete
6057	Brentwood Park P.S. Upgrade	Under Construction
6104	Storage/Inventory Study	100% Study Complete
6112	Pump Station Improvements	On-going
6113	Sod Run Ultraviolet Disinfection System	100% Design Complete
6190	Frey's Road Sewer Petition	90% Design Complete
6223	Harford Square Sewer Main	Under Construction
6692	Bush Creek P.S. Improvements	60% Design Complete
6703	Bynum Run Parallel Phase 6	Design is a Future Project
6712	Edgewood Interceptor Parallel	Project on Hold, Awaiting Modeling
6714	Infiltration/Inflow	On-going
6714	Sewer Flow Monitoring & Model Calibration	15% Study Complete
6724	Sod Run WWTP Facility Improvements	Under Construction
6726	Sewer Flow Monitoring & Model Calibration	5% Study Complete
6726	West MacPhail Road Sewer Replacement	Construction Complete
6730	Bill Bass P.S. Force Main Parallel Replacement	Project on Hold 50% Design Complete
6112	Bear Cabin Pump Station Vibration Study	Preliminary Engineering
6112	Winters Run Pump Station VFD and HVAC Upgrades	30% Design Complete
6112	Plumtree Pump Station VFD and Bypass Upgrades	30% Design Complete

# **APPENDIX D**

**Table 22D**  
**Signalized Intersection Capacity Analyses**  
**Level Of Service And Delay In Seconds**  
**2019-2023**

Intersection	2023 Peak Hour Level Of Service / Delay In Seconds	2022 Peak Hour Level Of Service / Delay In Seconds	2021 Peak Hour Level Of Service / Delay In Seconds	2020 Peak Hour Level Of Service / Delay In Seconds	2019 Peak Hour Level Of Service / Delay In Seconds
Maryland 22 and Prospect Mill Road	B / 10.8				B / 19.6
Maryland 22 and Thomas Run Road/Schucks Road	B / 17.9				
Maryland 24 and Bel Air South Parkway	C / 23.5				C / 29.1
Maryland 24 and Plumtree Road	B / 17.0				C / 31.0
Maryland 24 and Ring Factory Road	D / 40.3				D / 38.1
Maryland 924 and Bel Air South Parkway/Laurel Bush Road	D / 43.3				D / 36.3
Maryland 924 and Patterson Mill Road	C / 22.7				B / 18.1
US Route 1 and Maryland 152	C / 33.2				D / 41.8
Maryland 147 and Connolly Road	C / 20.3			C / 24.3	C / 28.8
Maryland 22 and Maryland 136	C / 20.2		B / 19.7		C / 20.7
Maryland 24 and Forest Valley Drive	A / 8.5		A / 8.6		
Maryland 24 @ I-95 Northbound Ramps	F / 157.9		E / 70.1		E / 58.2
Maryland 152 and Maryland 7	C / 34.2		C / 32.8		D / 36.2
Maryland 155 and Buller Rock Parkway	C / 23.6		B / 18.5		
Maryland 155 and Canvasback Drive	B / 18.8		B / 19.2		
Maryland 924 and MacPhail Road	C / 29.3		D / 43.6		C / 27.3
Maryland 924 and Ring Factory Road	C / 34.3		C / 32.0		D / 37.3
US Route 40 and Joppa Road	C / 25.9		C / 23.8		C / 25.6
US Route 40 and MD 7A/Post Road	B / 16.8		C / 23.6		
US Route 40 and MD 152	D / 40.6		D / 42.1		D / 42.6
Maryland 22 and Maryland 543	C / 33.3	D / 41.6			C / 20.7
Maryland 24 and Wheel Road	C / 30.5	D / 42.3			D / 35.8
Revolution Street and Lewis Lane	B / 12.7	B / 16.8			
Maryland 152 and Hanson Road	C / 20.0	B / 17.6		B / 16.6	C / 25.5
Maryland 152 and Trimble Road	C / 27.8	C / 26.3		C / 24.3	C / 25.5
Maryland 24 and Singer Road		D / 38.6			D / 52.4
US Route 1 (Bypass) and Maryland 543		C / 30.3			C / 31.9
Maryland 22 and Briarhill Drive		B / 11.5	B / 10.3		B / 11.4
Maryland 22 and US Route 40 Ramps		B / 15.5	B / 15.7		
Maryland 543 and I-95 Northbound Ramps		B / 16.7	B / 17.1		
Maryland 543 and I-95 Southbound Ramps		C / 31.4	C / 32.0		
Maryland 715 and Old Philadelphia Road		C / 23.7	C / 21.4		B / 17.1
Maryland 715 and US Route 40 Eastbound On Ramp		B / 11.1	B / 11.0		
Tollgate Road and Maryland 24 Southbound Ramps		C / 23.2	C / 24.6		
US Route 40 and Maryland 132		C / 30.6	C / 31.4		
US Route 40 and Maryland 543		B / 16.4	B / 18.3		
US Route 40 and Spesutia Road		B / 16.8	B / 20.0		
Maryland 543 and Maryland 7		C / 27.0	C / 26.5	D / 35.6	
US Route 40 and Maryland 7/Maryland 159		C / 32.7	C / 32.8	D / 38.7	
Maryland 24 and Jarrettsville Road		C / 22.4		C / 20.9	
Maryland 24 and Trimble Road		C / 34.6		C / 26.7	
Maryland 152 and Singer Road		B / 14.4		B / 11.9	
Maryland 924 and Moores Mill Road/Vale Road		B / 19.6		B / 17.0	

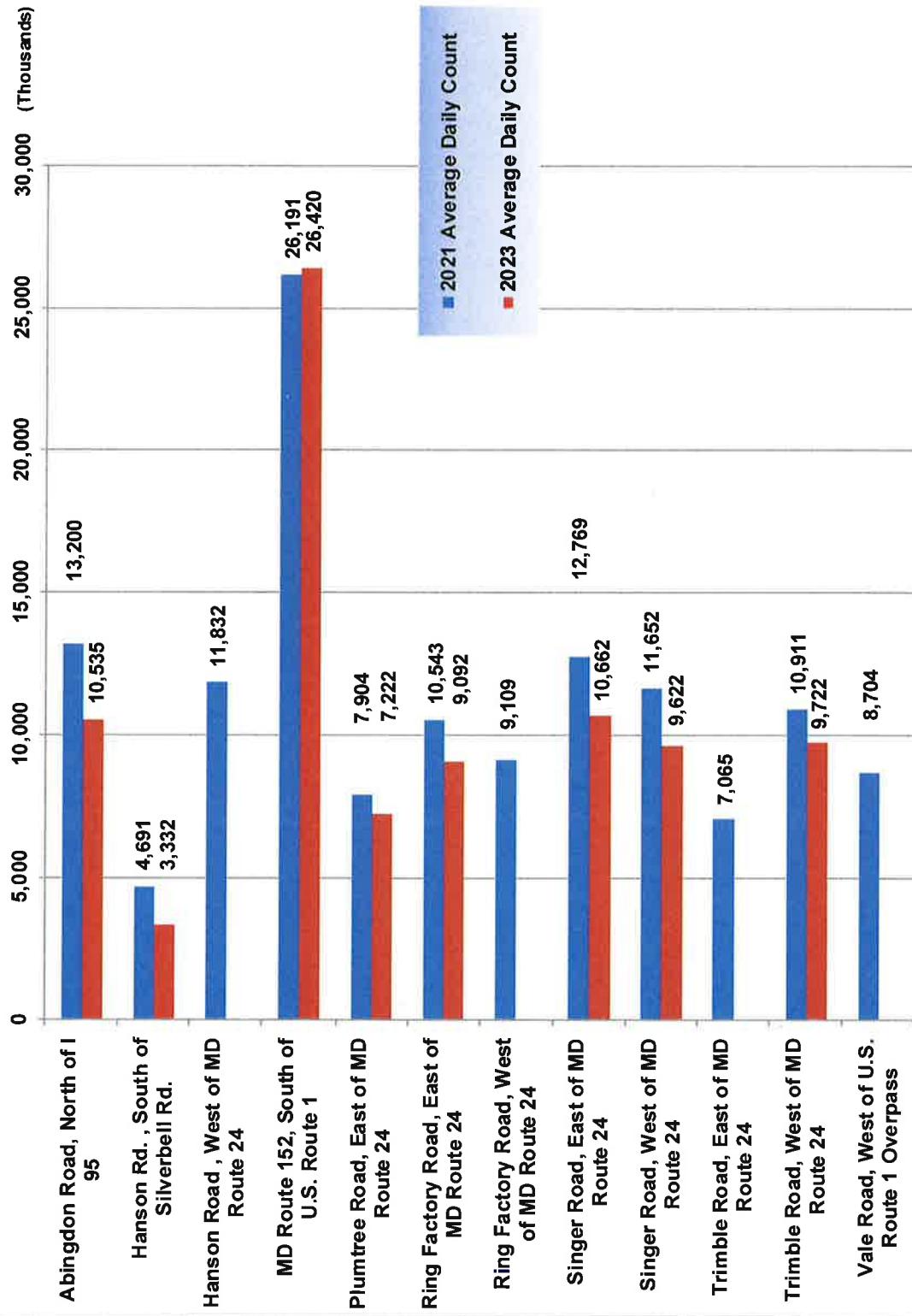
Source: Harford County Dept. of Planning and Zoning, April 2024

**Table 23D**  
**Unsignalized Intersection Capacity Analyses**  
**Level Of Service And Delay In Seconds**  
**2019-2023**

Intersection	2023 Peak Hour Level Of Service / Delay In Seconds	2022 Peak Hour Level Of Service / Delay In Seconds	2021 Peak Hour Level Of Service / Delay In Seconds	2020 Peak Hour Level Of Service / Delay In Seconds	2019 Peak Hour Level Of Service / Delay In Seconds
Chapel Road and Earlton Road/Robinhood Road	B / 11.6		B / 10.9		
Chapel Road and GoForth Drive	B / 11.0		B / 10.7		
Maryland 7 and Joppa Farm Road	E / 39.1		C / 22.2		
US Route 1 and Reckord Road	F / 572.0		F / 81.2		F / 554.5
MacPhail Road and Brierhill Road/Ring Factory Road	C / 15.5	B / 11.9		B / 13.4	B / 13.6
Tollgate Road and Bel Air South Parkway	E / 39.8	F / 98.5			E / 41.7
Tollgate Road and MacPhail Road		A / 7.4			A / 6.2
Business US Route 1 and Henderson Road		F / 54.5		E / 40.8	F / 50.2
Maryland 23 and Grafton Shop Road		F / 53.6		D / 32.6	
Maryland 159 and Canning House Road		A / 9.7	A / 9.9		
Maryland 159 and Chelsea Road		D / 28.0	B / 11.3		
Maryland 159 and Fords Lane		B / 10.0	A / 9.6		
Maryland 159 and Old Philadelphia Road		A / 5.2	A / 4.6		
Maryland 159 and Spesutia Road		C / 23.9	C / 24.8		
Maryland 7 and Stepney Road		F / 51.7	E / 48.1	F / 241.5	
Maryland 22 and Aldino-Stepney Road		E / 39.9	F / 50.8	F / 52.4	F / 72.7
Maryland 7 and Brass Mill Road			E / 45.4	F / 120.6	
Maryland 155 and Earlton Road			E / 44.7		

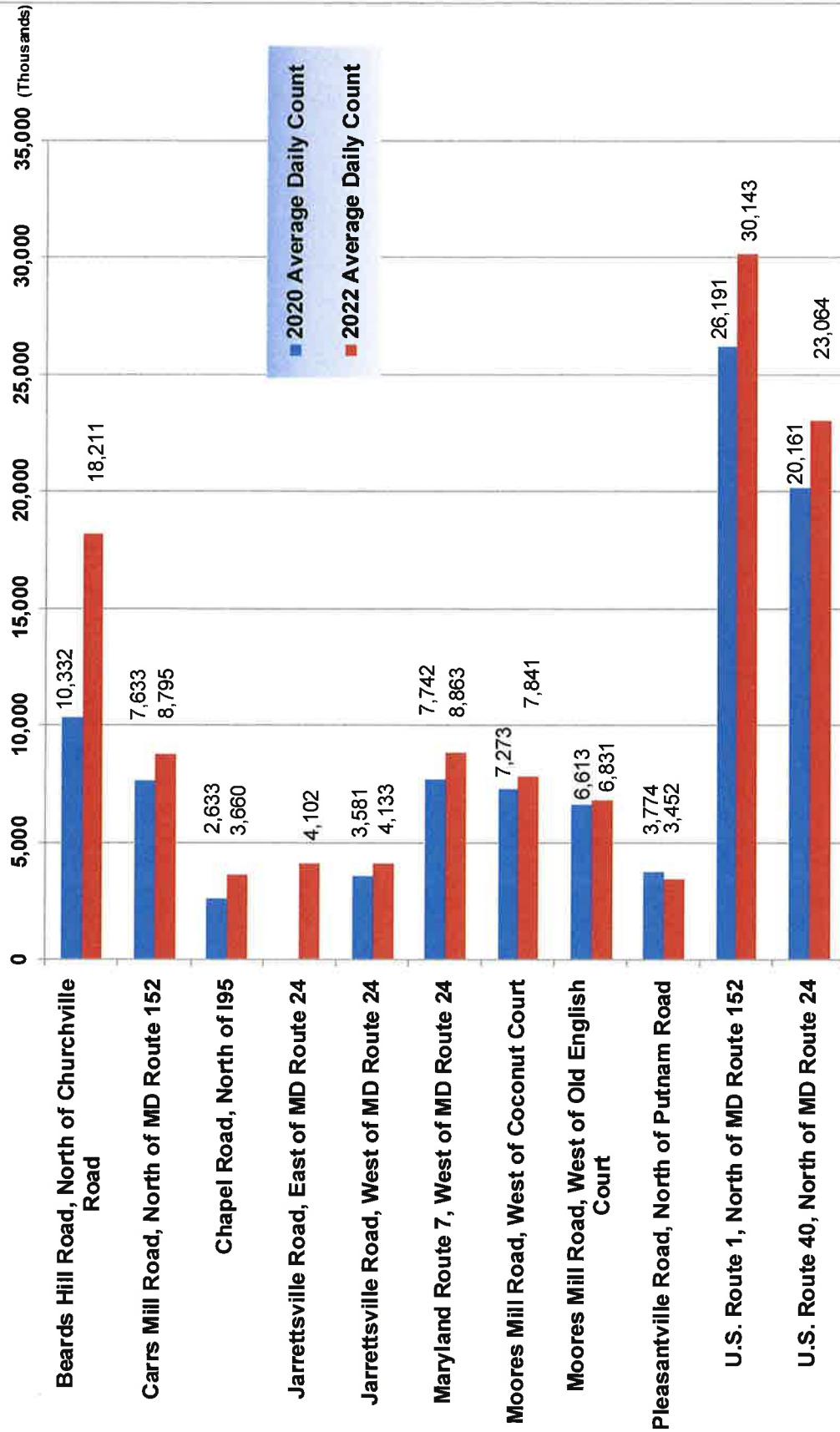
Source: Harford County Dept. of Planning and Zoning, April 2024.

**Table 24D.1**  
**48 Hour Average Weekday Daily Traffic Volume: 2021 and 2023**



Source: Harford County Dept. of Planning and Zoning, May, 2024.

**Table 24D.2**  
**48 Hour Average Weekday Daily Traffic Volume: 2020 and 2022**



Source: Harford County Dept. of Planning and Zoning, May, 2022

**Table 25D**  
**List of Approved County Capital Projects Funded for Construction in Fiscal Year 2023**

Project Name	Project Type
Abingdon Road Bridge #169 over CSX	Bridge Replacement
Deep Run Road Bridge #152	Bridge Replacement
Glen Cove Road Bridge #155	Bridge Replacement
Stafford Road Bridge #24	Bridge Replacement
Bridge and Culvert Rehabilitation	Repairs
Bridge and Scours Repairs	Repairs
Bridge Inspection Program - Under 20' Spans	Repairs
Bridge Painting	Repairs
Curb, Sidewalks, and Handicap Ramp Replacement	Repairs
Drainage Improvements	Repairs
Guardrails	Repairs
Stormdrain Rehabilitation	Repairs
Streetlights	Upgrades
Intersection Improvements	Safety/Capacity Improvements
Traffic Calming, Bicycle and Road Safety Improvements	Safety Improvements
Traffic Signals	Safety Improvements
Woodley Road Extension to MD 715	Construction
Resurfacing Roadways	Resurfacing
Highway Facilities Repair Program	Repair and Improve County Highway Buildings
Norrisville Highways Facility	New Highway Maintenance Facility

\*Note: These are ongoing county-wide project activities that include repairs, upgrades, and resurfacing of roads and bridges selected each spring dependent upon severity of roadway

**Table 26D**  
**List of State Consolidated Transportation Program Funded for Construction in Fiscal Year 2023**

Project Name	Project Type
MD 161 - Darlington Road Bridge	Bridge Replacement
US 1 Weigh Station and Inspection Facility	Rehab Weigh Station
MD 24 - Rocks Road	Construction
Ma & Pa Trail, Segments 2 & 3	Construction
I-95 Northbound Express Toll Lanes (ETL) Extension	Construction
US 40 Convert to Cashless Tolling	Construction
Aberdeen Station Connectivity Enhancements	Station Improvements

Source: Harford County Dept. of Planning and Zoning, May 2024.

Table 27D

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
<b>Priority Letter Key Priorities</b>					
MD 22	MD 155	MD 136	Capacity Improvements	Capacity	Yes - Key Priority 1
MD 23 @ Grafton Shop Road			Roundabout	Safety / Operations	Yes - Key Priority 2
MD 7 @ Stepney Road			Roundabout	Safety / Operations	Yes - Key Priority 3
US 40 Shared Use Path	Hatem Bridge	MD 715	Shared Use Path	Bicycle / Pedestrian	Yes - Key Priority 4
US 1 Bypass @ MD 24 Interchange			Construct a 2nd southbound left turn lane and a receiving lane from US 1 Bypass onto MD 24	Capacity	Yes - Key Priority 5
MD 147 @ MD 152			Capacity Improvements	Capacity	Yes - Key Priority 6
Aberdeen Train Station			Station Square (engineering)	Transit	Yes - Key Priority 7 (Aberdeen)
Bel Air Circulation Improvements	Bond Street	Hays Street	Eliminate the redundant right turn movement and close two-way traffic on Business US 1 from Bond Street to Hays Street	Safety / Operations	Yes - Key Priority 8 (Bel Air)
US 40 @ Otsego Street/Ohio Street			Capacity Improvements	Capacity	Yes - Key Priority 9 (Havre de Grace)
I-95 Tydings Bridge EZ Pass Commuter Pass Plan	Harford County	Cecil County	Provide the same EZ Pass Plan option on I-95 Tydings Bridge that exists at the US 40 Hatem Bridge	Safety / Operations	Yes - Key Priority 9 (Havre de Grace)
Harford Transit Operations Facility			New Transit Operations Facility	Transit	Yes - Key Priority 10 (Harford Transit LINK)
MD 7	Hollywoods	Stepney Road	Sidewalk	Bicycle / Pedestrian	Yes - Key Priority 11
MD 755	US 40	MD 24	Sidewalk	Bicycle / Pedestrian	Yes - Key Priority 11
MD 543	1900 Fountain Green Road	Hickory Elementary School	Sidewalk	Bicycle / Pedestrian	Yes - Key Priority 11
MD 924	MacPhail Road	Crofton Road	Sidewalk	Bicycle / Pedestrian	Yes - Key Priority 11
MD 24 Northbound	Singer Road	Plumtree Road	Construct a 3rd northbound through lane	Capacity	Yes - Key Priority 12
<b>Priority Letter Addendum</b>					
MD 23 @ MD 146 / Madonna Road			Roundabout	Capacity	Yes - Addendum
US 40 @ MD 132/Oakington Road and Old Post Road @ Oakington Road (Oakington Peninsula Access)	US 40	Old Post Road	Access and Traffic Circulation Improvements	Capacity	Yes - Addendum
MD 24	APG (Edgewood)	I-95	Construct a 3rd northbound through lane	Capacity	Yes - Addendum

Table 27D

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
US 1 @ Reckord Road			Capacity Improvements	Safety / Operations	Yes - Addendum
MD 155 @ I-95			Interchange Improvement - add an eastbound MD 155 left turn lane onto the northbound I-95 on ramp	Safety / Operations	Yes - Addendum
MD 23 (East-West Highway) @ MD 165 (Baldwin Mill Road)			Capacity Improvements	Safety / Operations	Yes - Addendum
US 1 @ Fallston Village			Drainage Improvement	Safety / Operations	Yes - Addendum
US 40	West Bel Air Avenue	Market Street	Drainage Improvement	Safety / Operations	Yes - Addendum
Beards Hill Road	MD 22	Hospitality Way	Safety Upgrades	Safety / Operations	Yes - Addendum
Access Management - US 1 Business @ Bel Air Plaza	MD 24	Kelly Avenue	Install a raised median, convert the access to Bel Air Plaza and Bel Air Town Center to right-in and right-out, and remove the signal between Kelly Avenue and MD 24	Safety / Operations	Yes - Addendum
Access Management - MD 22 Median	Brierhill Drive	Moores Mill Road	Install a raised median	Safety / Operations	Yes - Addendum
Access Management - MD 22 @ Wawa	MD 543	Econ Drive	Construct a raised "T" median	Safety / Operations	Yes - Addendum
Access Management - MD 22 @ Campus Hills Shopping Center	Campus Hills Shopping Center	Arena Club Access	Convert the entrance to Campus Hills Shopping Center and the 3 access points between Campus Hills Drive and the Arena Club to a right-in / right-out and relocate the signal from Campus Hills Shopping Center entrance to the intersection of Campus Hills Drive	Safety / Operations	Yes - Addendum
Access Management - MD 22 @ Beards Hill Plaza	Middleton Road	Beards Hill Road	Provide an access to the shopping center from Middleton Road	Safety / Operations	Yes - Addendum
Paradise Road @ Beards Hill Road			Roundabout	Safety / Operations	Yes - Addendum
Harford Transit			Extend evening hours and implement Saturday service	Transit	Yes - Addendum
MD 24 Shared Use Path (Forest Hill)	Red Pump Road	Rockspring Church Road	Shared Use Path	Bicycle / Pedestrian	Yes - Addendum
MD 22 Bicycle and Pedestrian Upgrades	MD 543	APG	Sidewalks, Bicycle Lanes and Share the Road Signage	Bicycle / Pedestrian	Yes - Addendum
Bel Air to Harford Community College Trail	Moores Mill Road	Harford Community College	Trail	Bicycle / Pedestrian	Yes - Addendum
Woodley Road Extended (Formerly known as Perryman Road A)	Michaelsville Road	MD 715	0 to 2 Lanes; New 2-lane road	Economic Development	Yes - Addendum
East Coast Greenway Susquehanna River Crossing	Harford County	Cecil County	Bicycle and Pedestrian bridge	Economic Development	Yes - Addendum

Table 27D

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
West Bel Air Avenue (MD 132) @ Middleton Road			Roundabout	Economic Development	Yes - Addendum
<b>I-95</b>					
I-95 Section 200	North of MD 43	MD 24	Add 2 northbound and 2 southbound Express Toll Lanes	Capacity	No
I-95 Northbound Dynamic Messaging Sign			Install a Dynamic Messaging Sign along I-95 Northbound prior to the MD 24 / MD 924 ramp	Safety / Operations	No
I-95 Section 200	MD 24	MD 543	Widen from 6 lanes to 10 lanes	Capacity	No
I-95 Southbound Part-Time Shoulder Usage	Maryland House Travel Plaza	MD 24	Capacity Improvements	Capacity	No
I-95 Section 200	MD 543	MD 22	Widen from 6 lanes to 8 lanes	Capacity	No
I-95 Section 300	MD 22	Cecil County	Widen from 6 lanes to 8 lanes	Capacity	No
<b>US 1</b>					
US 1 Bypass	MD 147/Business US 1	US 1 (Hickory Bypass)	Widen from 2 to 4 lanes	Capacity	No
US 1 Bypass			Bridge replacement	Safety / Operations	No
US 1 (Bel Air Road)	MD 152	MD 147/Business US 1	Widen from 4 to 6 lanes	Capacity	No
US 1 (Bel Air Road) @ MD State Police Entrance			Access Improvement	Safety / Operations	No
US 1 @ MD 152			Capacity Improvements	Capacity	No
US 1 (Bel Air Road)	Perry Hall Area	MD 152	Widen from 4 to 6 lanes	Capacity	No
<b>US 1 BUSINESS</b>					
US 1 Business	MD 147/Business US 1	MD 24	Widen from 3 or 4 lanes to 5 lanes	Capacity	No
US 1 Business	MD 24	Tollgate Road	Safety and Resurface	Safety / Operations	No
US 1 Business "Bel Air Boulevard"	Tollgate Road	Hays Street	Road Diet - reduce the road footprint from 5 to 4 lanes by removing the 2-way center turn lane	Safety / Operations	No
Business US 1 (Conowingo Road) @ Henderson Road			Capacity Improvements	Capacity	No
US 1 Business	Moores Mill Road	US 1 Bypass	Safety and Resurface	Safety / Operations	No
<b>US 40 (HAVRE DE GRACE)</b>					
US 40 Streetscape	Old Post Road	Hatem Bridge	Streetscape	Safety / Operations	No
Ohio Street	MD 155	US 40	Widen from 2 to 4 lanes	Capacity	No
<b>US 40</b>					
US 40 @ Swan Creek			Bridge rehabilitation	Safety / Operations	No
US 40	Robinhood Road	MD 715	Widen from 4 to 6 lanes	Capacity	No

**Table 27D**

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
US 40	MD 543	Lufkin Road	Widen from 4 to 6 lanes	Capacity	No
US 40 @ MD 543			Capacity Improvements	Safety / Operations	No
US 40	MD 152	Baltimore County Line	Safety and Resurface	Safety / Operations	No
<b>MD 7</b>					
MD 7 Sidewalk	Clearview Road	Edge of school property	Sidewalk in front of Old Post Road Elementary School	Bicycle / Pedestrian	No
MD 7 @ Abingdon Road			Capacity Improvements	Capacity	No
Abingdon Road	MD 924	US 40	Upgrade	Safety / Operations	No
Hookers Mill Road	Laurel Bush Road	MD 136	Upgrade	Safety / Operations	No
MD 7 @ MD 136			Capacity Improvements	Capacity	No
MD 7	MD 543	US 40	Widen from 2 lanes to 4 lanes	Capacity	No
MD 7 @ Brass Mill Road			Capacity Improvements	Capacity	No
Stepney Road	MD 7	Bush Chapel Road	Upgrade	Safety / Operations	No
Bush Chapel Road	Stepney Road	West Bel Air Road	Upgrade	Safety / Operations	No
<b>MD 22</b>					
MD 22	MD 543	I-95	Widen from 2-3 lanes to 4-5 lanes	Capacity	No
MD 22	I-95	APG	Widen from 4 to 6 lanes	Capacity	No
MD 22 Eastbound HOV Lane	Old Post Road	APG	HOV lane	Capacity	No
MD 22 @ US 40			Capacity Improvements	Capacity	No
MD 22	MD 462	Mount Royal Avenue	Noise Abatement	Safety / Operations	No
MD 22 @ Aldino Stepney Road			Capacity Improvements	Capacity	No
MD 22 @ MD 156			Intersection realignment	Safety / Operations	No
MD 22 (HCC to MD 155)	HCC	MD 155	Widen from 2-3 lanes to 4-5 lanes	Capacity	No
MD 22	Prospect Mill Road	Thomas Run Road	Capacity Improvements	Capacity	No
MD 22 @ MD 543			Capacity Improvements	Capacity	No
MD 22 @ John Carroll High School			Capacity Improvements	Capacity	No
<b>MD 23</b>					
MD 23			Bridge replacement	Safety / Operations	No

Table 27D

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
MD 23 @ High Point Road			Roundabout	Safety / Operations	
MD 23 (Norrisville Road/Jarrettsville Road) @ MD 165 (Baldwin Mill/Federal Hill Road)			Increase the truck turning radius for right turning traffic	Safety / Operations	No
<b>MD 24</b>					
MD 24 @ Trimble Road			Crosswalk	Bicycle / Pedestrian	No
MD 24 @ MD 755			Capacity improvements	Capacity	No
MD 755 @ MD 24			Pedestrian improvement	Bicycle / Pedestrian	No
MD 24	Singer Road	US 1 Bypass	Widen from 4 to 6 lanes	Capacity	No
MD 24 @ Singer Road			Grade separated intersection	Safety / Operations	No
MD 24 @ Wheel Road			Grade separated intersection	Safety / Operations	No
MD 24 Shared Use Path (Bel Air)	MacPhail Road	Boulton Street	Shared Use Path	Bicycle / Pedestrian	No
Atwood Road @ Marketplace Drive			Roundabout	Safety / Operations	No
Boulton Street @ Kelly Avenue			Roundabout	Safety / Operations	No
MD 24 (Rock Spring Road)	US 1 Bypass	MD 23	Widen from 2 to 4 lanes	Capacity	No
MD 24 (Section G)	Sharon Road	Ferncliff Lane	Upgrade	Safety / Operations	No
MD 24 @ Branch of Deer Creek			Bridge replacement	Safety / Operations	No
MD 24 @ Tributary to Deer Creek			Bridge replacement	Safety / Operations	No
<b>MD 132 (Bel Air Avenue)</b>					
MD 132 @ CSX Crossing			ADA improvements of sidewalk at railroad crossing	Safety / Operations	No
<b>MD 132B (OLD POST ROAD - ABERDEEN)</b>					
MD 132B (Old Post Road) @ Emmitt Avenue			Crosswalk and ADA Sidewalk at Transit Stop	Bicycle / Pedestrian	No
<b>MD 136</b>					
MD 136	MD 7	US 1	Upgrade	Capacity	No
MD 136 @ Cool Spring Road			Intersection Improvement	Safety / Operations	No
MD 136 @ Deer Creek			Bridge replacement	Safety / Operations	No
MD 136 @ Falling Branch			Bridge replacement	Safety / Operations	No
<b>MD 152 / MD 147</b>					
MD 152	APG (Edgewood)	US 40	Upgrade	Capacity	No

Table 27D

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
MD 152	I-95	US 1	Upgrade	Safety / Operations	No
MD 152	Stockton Road	south of Old Mountain Road	Geometric Improvements	Capacity	No
MD 152 Bikeway	US 40	Carrs Mill Road	Striping and signage	Bicycle / Pedestrian	No
MD 152 @ Singer Road			Capacity Improvements	Capacity	No
MD 152 @ MD 147			Capacity Improvements	Capacity	No
MD 147	Baltimore County Line	US 1 / US 1 Bypass	Upgrade	Safety / Operations	No
Carrs Mill Road	MD 152	Grafton Shop Road	Upgrade	Safety / Operations	No
Hess Road	MD 152	Baltimore County Line	Upgrade	Safety / Operations	No
<b>MD 155</b>					
MD 155 @ Earlton Road			Capacity Improvements	Capacity	No
MD 155 @ MD 161			Roundabout	Safety / Operations	No
<b>MD 165</b>					
MD 165 @ Dooley Road			Roundabout	Safety / Operations	No
<b>MD 462</b>					
MD 462 (Paradise Road)	MD 155	MD 132 (Bel Air Avenue)	Upgrade	Safety / Operations	No
<b>MD 490 (UNION AVENUE HAVRE DE GRACE)</b>					
MD 490 (Union Avenue) @ Layfette Street			Drainage Improvement	Safety / Operations	No
<b>MD 543</b>					
MD 543	US 40	US 1 (Hickory Bypass)	Widen from 2 to 4 lanes	Capacity	No
Bata Blvd Access Road	MD 543	Bata Blvd	0 to 2 Lanes; New 2-lane road	Capacity	No
MD 543 (Creswell Area)	I-95	MD 136	Widen from 2 to 4 lanes	Capacity	No
MD 543 @ MD 7			Capacity Improvements	Capacity	No
MD 543 @ MD 136			Capacity Improvements	Capacity	No
<b>MD 646</b>					
MD 646	MD 543	MD 136	Safety and Resurface	Safety / Operations	No
<b>MD 924</b>					
MD 924 Shared Use Path	Woodsdale Road	MacPhail Road	Shared Use Path	Bicycle / Pedestrian	No
MD 924	St. Clair Drive	Laurel Bush Road	Widen from 3 lanes to 4 lanes	Capacity	No
MD 924 @ Singer Road / Abingdon Road			Capacity Improvements	Capacity	No

Table 27D

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
MD 924 @ Holly Wreath Road			Capacity Improvements	Capacity	No
MD 924 @ Wheel Road			Capacity Improvements	Capacity	No
MD 924	Laurel Bush Road	Patterson Mill Road	Widen from 3-4 lanes to 5 lanes	Capacity	No
MD 924 @ Bel Air S Pkwy / Laurel Bush Road			Capacity Improvements	Capacity	No
MD 924 @ Plumtree Road / Medstar Blvd			Capacity Improvements	Capacity	No
MD 924 @ Patterson Mill Road / Barrington Place			Capacity Improvements	Capacity	No
MD 924 @ MacPhail Road			Capacity Improvements	Capacity	No
ABERDEEN TRAIN STATION TOD					
Aberdeen Train Station			TOD	Transit	No
Aberdeen Train Station			Parking and Exterior Improvements	Transit	No
BEL AIR SOUTH PARKWAY					
Bel Air South Parkway @ Blue Spruce Drive/Festival at Bel Air			Roundabout	Safety / Operations	No
CHAPEL ROAD					
Chapel Road	Robinhood Road / Earlton Road	Ohio Street	Upgrade	Safety / Operations	No
EDGEWOOD					
MD 755	MD 24	APG (Edgewood)	Widen from 2 to 4 lanes	Capacity	No
Wiltoughby Beach Road/Trimble Road Bikeway	Flying Point Park	Future County Park on Nuttal Avenue	Striping and signage	Bicycle / Pedestrian	No
HARFORD TRANSIT LINK					
Transit Signal Prioritization			Queue Jump Lanes on MD 22, MD 924 and US 40	Transit	No
JOPPA / JOPPATOWNE					
MD 7 @ Joppa Farm Road			Intersection Realignment; Capacity Improvements	Capacity	No
Trimble Road	Joppa Farm Road	MD 152	Upgrade	Safety / Operations	No
Joppa Farm Road Extended	Haverhill Road	Fort Hoyle Road	0 to 2 Lanes; New 2-lane road	Capacity	No
Joppa Farm Road	US 40	Trimble Road	Sidewalks, Bicycle Lanes and Signage	Bicycle / Pedestrian	No
Colonial Joppa Greenway	Jerusalem Mill	Mariner Point Park	On Road / Off Road Trail	Bicycle / Pedestrian	No
LSHG					
Lower Susquehanna Heritage Greenway (LSHG)	Conowingo Dam	Havre de Grace	Off Road Trail	Bicycle / Pedestrian	No
MA & PA TRAIL					

Table 27D

COMPLETE MULTIMODAL TRANSPORTATION LIST (2024)					
Project Name	Project Limits		Improvement	Primary Category	In The Most Recent Priority Letter
	From	To			
Ma & Pa Trail	Williams Street trailhead	Blakes Venture Park	Off Road Trail	Bicycle / Pedestrian	No
Ma & Pa Trail (North Hartford)	Wheeler School Road	Maryland / Pennsylvania State Line	Trail	Bicycle / Pedestrian	No
Ma & Pa Trail (Ultimate Connection)	Towson, Maryland (Area)	York, Pennsylvania (Area)	Trail	Bicycle / Pedestrian	No
<b>MACPHAIL ROAD</b>					
MacPhail Road	Brierhill Drive	Wheel Road	Upgrade	Safety / Operations	No
MacPhail Road Sidewalk	Edgehill Drive	MD 924	Sidewalk and Crosswalk	Bicycle / Pedestrian	No
MacPhail Road Shared Use Path	Homestead / Wakefield Elementary School Site	Atwood Road	Shared Use Path	Bicycle / Pedestrian	No
MacPhail Road (Missing Section)	MD 924	MD 24	0 to 2 Lanes; New 2-lane road	Capacity	No
<b>MARC</b>					
MARC Service	Northern Virginia	Philadelphia	Extend MARC service to Delaware and provide additional commuter rail service to Harford County	Transit	No
<b>MTA</b>					
MTA Commuter Service	Harford County	Downtown Baltimore and Harbor East	Additional MTA Commuter Bus Service	Transit	No
<b>PERRYMAN</b>					
MD 715 Extended	Present Terminus	MD 22	0 to 4 Lanes; New 4-lane road	Capacity	No
Perryman Road B	US 40 @ Mitchell Lane	Canning House Road	0 to 2 Lanes; New 2-lane road and bridge	Capacity	No
<b>PROSPECT MILL ROAD / THOMAS RUN ROAD</b>					
Prospect Mill Road / Thomas Run Road connection	Prospect Mill Road	Thomas Run Road	0 to 2 Lanes; New 2-lane road	Capacity	No
Thomas Run Road	MD 22	West Medical Hall Road	Streetscape	Safety / Operations	No
Prospect Mill Road	MD 543	MD 22	Upgrade	Safety / Operations	No
<b>SINGER ROAD</b>					
Singer Road	Winters Run	Beaver Dam Road	Upgrade	Safety / Operations	No
<b>SUSQUEHANNA RIVER CROSSING</b>					
Amtrak Bridge Replacement	Harford County	Cecil County	Replace existing rail bridge	Transit	No
<b>TOLLGATE ROAD</b>					
Tollgate Road @ Bel Air South Parkway			Roundabout	Safety / Operations	No

# APPENDIX E

**Table 27E  
2023 HARRFORD COUNTY APPROVED PRELIMINARY PLANS**

2023 RESIDENTIAL PRELIMINARY PLANS																
PLAN ID	PLAN NAME	ACREAGE	LOT AGREEMENT	TAX MAP 1	PARCEL 1	TOTAL UNITS	SF UNITS	TH UNITS	APT UNITS	ENVELOPE	COMMENTS	PLAT 1	ZONING 1	ZONING 2	TYPE OF USE	DATE APPROVED
457/2023	1416 & 1418 PHILADELPHIA RD	7.91	0.685	0.682	2	2	0	0	0	YES	CREATE (2) SINGLE FAMILY RESIDENTIAL LOTS FROM TWO EXISTING PARCELS	R1	RESIDENTIAL	12/22/2023		
452/2023	1811 & 1815 HARRFORD ROAD	0.7646	0.7616	0.655	0.194	2	2	0	0	YES	SUBDIVIDE PARCEL 1 INTO PROPOSED LOTS 1 & 2	R2	RESIDENTIAL	12/23/2023		
173/2022	2215 CRESWELL ROAD SUBDIVISION	52.11	7.81	0.657	0.037	2	2	0	0	NO	CREATE (2) SINGLE FAMILY LOTS FROM REMAINING LANDS	RR	RESIDENTIAL	4/1/2023		
3/2/2022	AUFFARTH, LD OF SHAWN J.	11.949	11.949	0.640	0.009	1	1	0	0	NO	UTILIZE (1) DEVELOPMENT RIGHT TO CREATE LOT 17	AG	RESIDENTIAL	4/3/2023		
424/2022	BEL AIR VILLAGE	28.5	7	0.056	0.056	276	0	24	252	YES	DEVELOP A MIXED USE CENTER ON LOTS 1-4 WITH (24) TOWNHOMES & (52) APARTMENTS ON LOT 1; 60,000 SF MEDICAL BLDG ON LOT 2; 34,000 SF RETAIL BLDG ON LOT 3; FOUR RETAIL BLDGS (35,130 SF) ON LOT 4 [129,130 TOTAL SF]	B3	RESIDENTIAL	4/17/2023		
549/2022	BREIDENBAUGH, LD OF - LOT 3	2.78	2.78	0.047	0.047	232	1	1	0	NO	CREATE (1) SINGLE FAMILY RESIDENTIAL LOT	217/42	AG	RESIDENTIAL	2/27/2023	
547/2022	BUCHANAN, LDS OF PHILIP & SHANNON	4.432	4.432	0.086	0.039	2	2	0	0	YES	SUBDIVIDE AN EXISTING PARCEL TO CREATE TWO (2) SINGLE FAMILY RESIDENTIAL LOTS	218/56	R1	RESIDENTIAL	6/21/2023	
64/2022	COUNTRY WALK - LOT 12	4.17	2.05	0.056	0.046	38	0	38	0	YES	SUBDIVIDE EXISTING LOT 12 TO CREATE 38 RESIDENTIAL TOWNHOME LOTS USING CONVENTIONAL WITH OPEN SPACE DESIGN STANDARDS	R3	RESIDENTIAL	1/10/2023		
226/2022	CREEKSIDE	58.607	5.907	0.041	0.020	135	0	135	0	YES	CREATE (135) TOWNHOUSE UNITS AS HOUSING FOR THE ELDERLY (H-E)	R2	RESIDENTIAL	4/12/2023		
105/2023	FLAHERTY, LDS OF - LOTS 1 & 2	26.716	0.014	0.030	0	2	0	0	0	NO	SUBDIVIDE PARCEL 19 TO CREATE LOTS 1 & 2	218/73	AG	RESIDENTIAL	5/2/2023	
398/2023	FRADEL, LDS OF - LOT 3	4	4	0.035	0.006	2	2	0	0	NO	REVISE PLAT 36-33 BY SUBDIVIDING LOTS 2 & 3 FROM THE REMAINING LANDS	AG	RESIDENTIAL	11/15/2023		
198/2023	FRANKIE'S LANDING	1.129	1.129	0.082	0.039	3	0	0	0	YES	SUBDIVIDE EXISTING PARCEL 639 TO CREATE (3) SINGLE FAMILY RESIDENTIAL LOTS	R3	RESIDENTIAL	7/27/2023		
167/2023	GOLDNER, LANDS OF DANIELLE LEE - LOT 3	1.435	1.435	0.084	0.012	1	1	0	0	YES	CREATE LOT 1 AS A SINGLE FAMILY RESIDENTIAL LOT FROM EXISTING LOT 1	218/66	R1	RESIDENTIAL	5/10/2023	
207/2020	GRACE HALL	111.177	58.54	0.058	0.022	331	96	235	0	YES	CREATE 331 H-E RESIDENTIAL UNITS AS 96 SF AND 235 TH UNITS (FORMERLY BERKSIRE MANOR & WOODLAWN)	219/88	R3	R1	RESIDENTIAL	5/17/2023
518/2022	GRAYBEAL FIELDS - LOT 4	2.025	0.025	0.040	0.033	1	1	0	0	YES	SUBDIVIDE LOT 1 TO CREATE LOT 4 BY REVISING PLAT 215-25	218/50	R2	RESIDENTIAL	3/15/2023	
355/2023	HEAPS FAMILY LLC	2	2	0.019	0.015	1	1	0	0	NO	CREATE (1) SINGLE FAMILY RESIDENTIAL LOT AS AN AG PRES CHILD LOT	AG	RESIDENTIAL	12/12/2023		
455/2022	JACOB'S POND - LOT 6	16.91	6.074	0.040	0.020	1	1	0	0	NO	SUBDIVIDE EXISTING LOT 3 TO CREATE LOT 6	219/05	AG	RESIDENTIAL	7/1/2023	
322/2020	LAPIDUM HEIGHTS - LOT 6	3.221	3.194	0.057	0.040	1	1	0	0	NO	CREATE LOT 6 FROM EXISTING LOT 3	217/98	AG	RESIDENTIAL	4/25/2023	
316/2022	MIKKONEN, LDS OF - LOT 1	2	2	0.039	0.027	1	1	0	0	NO	CREATE (1) SINGLE FAMILY RESIDENTIAL LOT	218/45	AG	RESIDENTIAL	3/27/2023	
273/2022	SCOTT, LDS OF HUGH - LOT 2	54.89	2	0.002	0.007	1	1	0	0	NO	CREATE (1) SINGLE FAMILY RESIDENTIAL LOT FROM AN EXISTING PARCEL	217/90	AG	RESIDENTIAL	3/14/2023	
303/2023	STANS ACRES - LOT 4A	1.4323	1.4323	0.065	0.000	1	1	0	0	YES	REVISE RECORDED PLAT 18-83 BY SUBDIVIDING LOT 4 TO CREATE A NEW LOT	R1	RESIDENTIAL	10/9/2023		
459/2022	WILSON'S FIELDS	16.331	15.314	0.047	0.032	8	8	0	0	NO	SUBDIVIDE EXISTING PARCEL 32 TO CREATE (8) SINGLE FAMILY RESIDENTIAL LOTS	RR	RESIDENTIAL	4/18/2023		
				<b>416.49</b>	<b>176.46</b>	<b>813</b>	<b>129</b>	<b>432</b>	<b>252</b>							
2023 NON RESIDENTIAL PRELIMINARY PLANS																
PLAN ID	PLAN NAME	ACREAGE	LOT AGREEMENT	TAX MAP 1	PARCEL 1	TOTAL UNITS	SF UNITS	TH UNITS	APT UNITS	ENVELOPE	COMMENTS	PLAT 1	ZONING 1	ZONING 2	TYPE OF USE	DATE APPROVED
298/2020	BEL AIR VILLAGE	33.93	33.93	0.056	0.056	9	0	0	0	YES	CONSOLIDATE EXISTING PARCELS 56 AND 50 AND CREATE (9) COMMERCIAL LOTS	B3	NON RESIDENTIAL	4/17/2023		
14/2023	DELTA LUMBER SUBDIVISION	8.084	8.054	0.005	0.066	2	0	0	0	NO	SUBDIVIDE EXISTING PARCEL 68 TO CREATE LOTS 1 & 2. LOT 1 IS BEING CREATED AROUND THE EXISTING COMMERCIAL BUILDING (DETA LUMBER). LOT 2 IS UNIMPROVED AND WILL CONTAIN 4.335 +/- ACRES	219/01	CI	NON RESIDENTIAL	5/26/2023	
086/2023	JAMES RUN - LOT 4	111.11	3.85	0.087	0.077	2	0	0	0	NO	SUBDIVIDE EXISTING LOT 4 TO CREATE LOTS 4A & 4B AS PART OF A MIXED USE OFFICE PROJECT (2 NEW LOTS)	218/95	MO	NON RESIDENTIAL	7/28/2023	
				<b>153.10</b>	<b>45.84</b>	<b>181</b>	<b>129</b>	<b>432</b>	<b>252</b>							