

**Washington County, Maryland
Fiscal Year 2018
Ten Year Capital Improvement Plan**

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Introduction



County Commissioners of Washington County



TERRY L. BAKER, a third-term County Commissioner, was first elected in 2006, and serves as President of the Board of County Commissioners. He is a 1973 graduate of Williamsport High School, a 1975 graduate of Hagerstown Community College and a 1978 graduate of Auburn University, with a Bachelor's degree in Education. Mr. Baker retired in 2015 from the position of Washington County Students Trades Coordinator for the Washington County Technical High School after being an educator for 34 years. Prior to being elected a County Commissioner he served from 2002 to 2004 as a member of the Council for the municipality of Clear Spring, Maryland, and as Assistant Mayor for such municipality from 2004 to 2006.



JOHN F. BARR, a third-term County Commissioner, was first elected in 2006. He was raised in Boonsboro, Maryland, and is a Master Electrician in five states. In high school, Mr. Barr worked for his father as a field electrician at M/L Electric, Inc., which began in 1927. In 1979 he formed the management team overseeing the service department. In 1984 Mr. Barr bought the company from his father and changed the name to Ellsworth Electric, Inc. He has built the company from 75 to 150 employees. Mr. Barr is active in various service organizations and community projects. He recently completed a one-year term as President of the Maryland Association of Counties.



JEFFREY A. "JEFF" CLINE, a second-term County Commissioner, serves as Vice President of the Board of County Commissioners and is a Williamsport, Maryland, resident. He is a graduate of Williamsport High School and Hagerstown Community College. Mr. Cline has experience a realtor since 2003. He graduated from the Maryland Association of Realtors' 2008 Leadership Academy and received the Graduate of Realtor Institute (GRI) designation. Mr. Cline served on the Williamsport Town Council from 2005 to 2009.



LEROY E. MYERS, JR., a first-term County Commissioner, was born in Washington County and has lived in the Clear Spring, Maryland, area his entire life. He is a three-term Maryland State Delegate serving District IC from 2003-2014. He graduated from Clear Spring High School and attended Hagerstown Community College for two years. Mr. Myers is the owner and president of Myers Building Systems, Inc., a general contracting firm.



WAYNE K. KEEFER, a first-term County Commissioner, was appointed to fill a vacancy on the Board of County Commissioners on March 25, 2016 by Maryland Governor Lawrence J Hogan, Jr. and assumed office on April 5, 2016. He is a lifelong resident of Hancock, Maryland, and a 2004 graduate of Hancock Middle-Senior High School. Mr. Keefer holds an A.S. degree in Management from Hagerstown Community College, a B.S. degree in Business Administration and an M.B.A. from Frostburg State University. He has over a decade of experience as a commercial banker and is currently a small business owner and an adjunct instructor with Frostburg State University and the University System of Maryland at Hagerstown. He is active in the community including the Hancock Chamber of Commerce and Rural Children's Fund.

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Vision and Mission Statement

Vision Statement:

The vision of Washington County Government is to become the regional leader in providing and coordinating efficient and effective public services in an open and cooperative manner.

Mission Statement (Long-Term Goals):

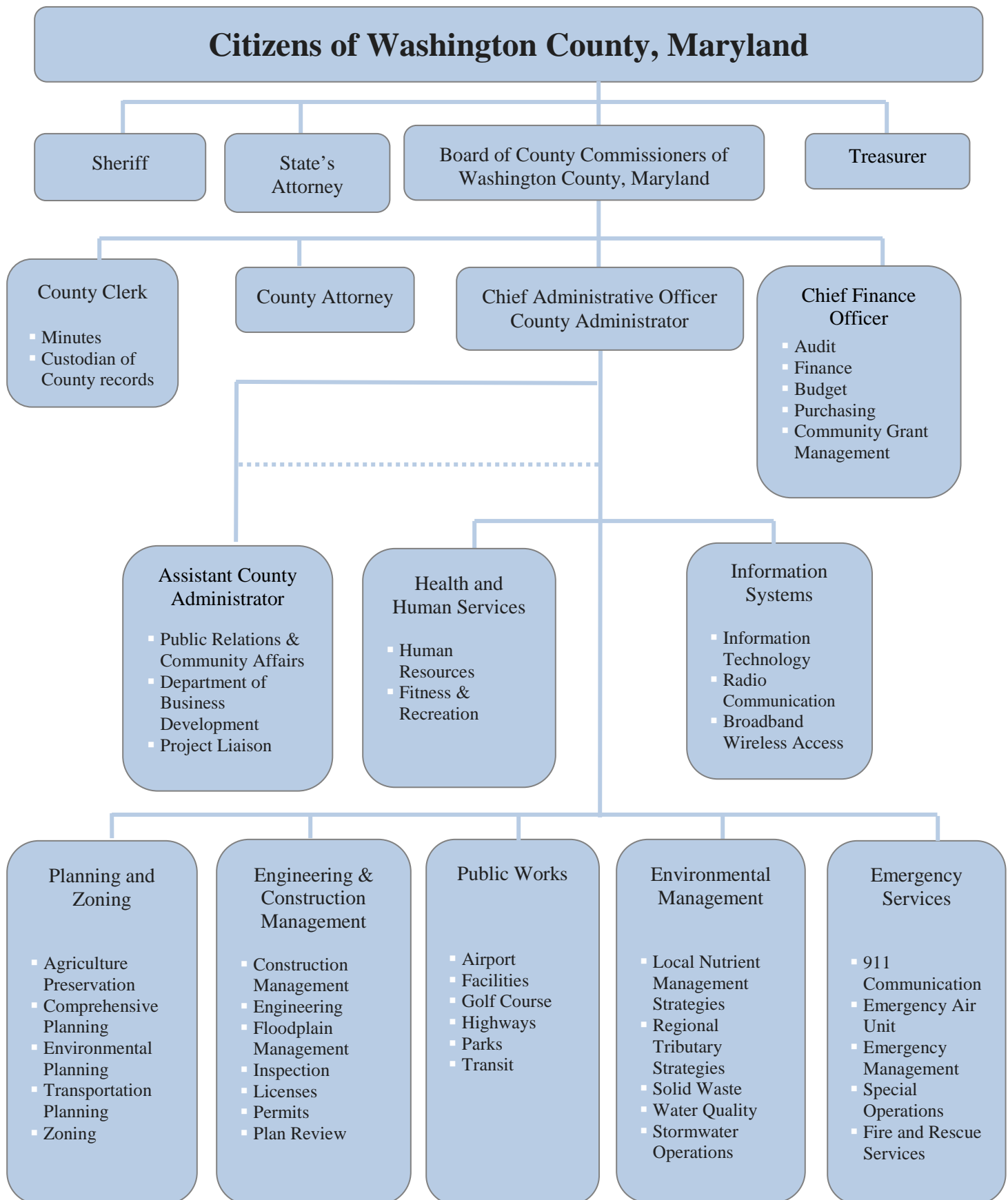
Supporting and strengthening individual and community self-reliance and responsibility;

Promoting education, economic opportunities, public health, safety, and welfare;

Protecting the environment and cultural resources we share and;

Planning for future urbanization and a culturally diverse population.

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Community Profile

Location

Washington County is situated in northwestern Maryland, bordered by Pennsylvania to the north and West Virginia to the south. It is bordered on the east by Frederick County, Maryland and on the west by Allegany County, Maryland. Washington County is approximately 460 square miles in area. The County Seat, Hagerstown, is 70 miles northwest of Washington, D.C. Two major highways, Interstate 81 – running north and south, and Interstate 70 – running east and west, cross within the County's borders.



The major part of Washington County is fertile valley with rolling terrain. The lowland belt known as the Hagerstown Valley, which lies between the Blue Ridge Mountains to the west and the Appalachian ridges to the east, is an extension of the Shenandoah Valley of Virginia.

Washington County is a great place, not only for locating a business, but also for living and raising a family. The rural, friendly, community environment offers a taste of traditional values – and the close proximity to Baltimore and Washington D.C. offers access to a metropolitan culture and lifestyle. It's the best of both worlds.

Culture and Recreation

Founded in 1776, Washington County was the first county in the United States to be named for the then General George Washington. The history of Washington County is exhibited at 4 national parks, 7 state parks, 14 county parks, numerous monuments and more than 35 museums that tell America's story spanning three centuries.

Some of Washington County's major local attractions include:



- ❖ Antietam National Battle field – the site of the one of the most famous Civil War battles
- ❖ Fort Frederick State Park – a fort built in 1756 for use during the French and Indian War.
- ❖ Appalachian Trail National Scenic Trail – the trail in Maryland follows a 40 mile route along the backbone of South Mountain (a north-side ridge that extends from Pennsylvania to the Potomac River).
- ❖ C&O Canal National Historical Park – for nearly 100 years the canal served as a waterway to transport products and it now provides a place to recreate and enjoy nature.

- ❖ Maryland Symphony Orchestra – western Maryland’s only professional orchestra.
- ❖ Hagerstown Speedway – one of the fastest and safest dirt tracks in the United States.
- ❖ Hagerstown Suns – a minor South Atlantic League Class A baseball team affiliated with the Washington Nationals.
- ❖ Washington County Museum of Fine Arts – with a permanent collection of over 6,000 works of art, as well as changing exhibitions.
- ❖ The Maryland Theatre – built in 1915 and home of the Maryland Symphony Orchestra and the Miss Maryland Pageant.

Hagerstown was founded by the German immigrant Jonathan Hager who was a volunteer Captain of Scouts during the French and Indian War. Located in the center of the Great Valley in Western Central Maryland, Hagerstown was at the Crossroads of the Civil War. The Valley provided a natural corridor for refugee and troop movements between Virginia and Pennsylvania. As a regional crossroads town just north of the Potomac River, Hagerstown was a favorite staging area for military leaders traversing the region.



The Maryland Theatre

A revitalized Arts & Entertainment District in downtown Hagerstown complements shopping, historical sites and museums in Washington County. Residents and visitors discover a wonderful collection of beautiful renovated retail shops, restaurants, and condominiums all within walking distance of cultural attractions. Hagerstown hosts several annual festivals downtown, most notably the Western Maryland Blues Fest, Augstoberfest, and the Alsatia Mummer’s Day Parade.

Form of Government

The County is a body corporate and politic, which performs all local governmental functions in Washington County except those performed by the nine incorporated municipalities within Washington County. The executive offices of the County are located at 100 West Washington Street, Hagerstown, Maryland 21740. The County’s central telephone number is (240)-313-2210 and its website is www.washco-md.net.

Under the Code of the Public Local Laws of Washington County (2007 Edition), as amended, being Article 22 of the Code of Public Local Laws of Maryland (the "County Code"), both the executive and legislative functions of the County are vested in the elected, five-member Board of County Commissioners of Washington County (the “Board”). The Board may only exercise such powers as are conferred upon it by the General Assembly of Maryland, including authorization to issue debt to finance its capital projects. Commissioners are elected on a countywide basis and serve four-year terms.

Each member of the Board has one vote and a simple majority of the Board is sufficient to take action subject to the authority vested in the Board by the County Code. Emergency action also requires a simple majority vote. The Board elects its own officers. The General Assembly of Maryland must authorize powers not specifically authorized by the County Code.

As authorized by the County Code, the County Commissioners appoint a County Administrator. The County Administrator is selected on the basis of his or her executive and administrative abilities, including his or her knowledge and experience in public administration. The County Administrator is responsible for the proper administration of the Board’s affairs. He is charged with the supervision of the departments and agencies of the County, and is responsible for the day-to-day operations of the County government in conformity with public local laws and other laws applying to the County.

County financial matters are administered in part through the office of the Treasurer of Washington County. The County Code establishes the elective office of County Treasurer. The County Treasurer is constituted the collector of County and State taxes, charges and assessments and is charged with the enforcement of collection of taxes in the manner provided by law.

As authorized by the County Code, the Board appoints the Chief Financial Officer (CFO) on the basis of his or her experience in financial administration. The CFO is charged with assisting the Board in the preparation and administration of the County budgets and other accounting and fiscal matters as the Board deems necessary. In addition, the CFO is responsible for the study

of the organization, methods and procedures of each office, department, board, commission, institution, and agency of County government.

Services

Transportation

A variety of transportation avenues are available in Washington County. Hagerstown Regional Airport (HGR) is a Part 139 Facility which provides daily scheduled commercial service to Baltimore-Washington Thurgood Marshall International Airport (BWI) and Pittsburgh International Airport via Southern Airways Express, twice weekly service to Orlando Sanford International and twice weekly service to St. Pete-Clearwater International Airport on Allegiant. The airfield also offers fixed base operation services to general aviation, corporate and military aircraft. There are 17 businesses offering clients a variety of aviation services for all types of aircraft. Approximately 1,400 people are employed at the airport in various aviation-related businesses. In addition, Dulles International, Baltimore/Washington Thurgood Marshall International, and Ronald Reagan Washington National airports are located within 70 miles of Hagerstown.

Other transportation outlets include auto rental services, County bus service, commercial bus lines, taxi, freight common carriers, and limousine service. The main lines of CSX and Norfolk Southern provide shipment to anywhere on the Atlantic Seaboard.

Hospital and Medical Care

Meritus Health, located in Hagerstown, Maryland, is the largest healthcare provider in Western Maryland. As a community-focused, not-for profit system, Meritus Health's programs span the continuum of healthcare, ranging from inpatient care to occupational health services to physician practices and outpatient care.

Meritus Medical Center, which opened in 2010, is a state-of-the-art, Joint Commission-accredited hospital with 243 licensed beds in single-patient rooms. Services offered include a special care nursery, a level III trauma program, a primary stroke center and a wound center, as well as a cardiac diagnostic laboratory. Hospital services that address outpatient needs include the John R. Marsh Cancer Center, Total Rehab Care, Meritus Diabetes Education, Meritus Home Health, Meritus Medical Laboratory and Equipped for Life.

Meritus Medical Group, with close to 100 physicians and advanced practice professionals, is a medical neighborhood of primary and specialty care practices offering comprehensive, coordinated health care services to all ages.

The Washington County Health Department, which provides various health services to the citizens of Washington County, employs a total of 199 full-time and part-time personnel in five divisions.

Other medical care facilities include the Environmental Health Division of the Health Department, the George W. Comstock Center for Public Health Research and Prevention and the Western Maryland Center, a State – owned chronic care facility.

Safety

The Washington County Sheriff's Office, the Maryland State Police, and municipal police agencies provide police protection in Washington County. The Sheriff's Office has 101 sworn personnel and 97 radio dispatched vehicles. The Sheriff's Office is responsible for the operation of the Detention Center, which has a capacity of 450 inmates. In October 2016, a Day Reporting Center opened that provides treatment services to non-violent offenders with drug and/or alcohol addictions. The State Police has 34 troopers assigned to the local barrack, which is located just south of Hagerstown. The Hagerstown Police Department has a full-time force of 105 officers. The Hancock Police Department employs five full-time officers. In addition, the Smithsburg Police Department employs four officers and the Boonsboro Police Department employs five police officers.

The County's Division of Emergency Services ("DES") oversees Emergency Communication/911, Emergency Management, Fire Department Special Operations, Fire Department Support Services, and the Emergency Medical Services Operations Program. DES is led by a full-time career Director and five full-time department heads who oversee the daily

operational components of Emergency Services in Washington County. The division has 86 full-time and part-time personnel working directly within the division and approximately 40 volunteers who provide dedicated service to the citizens of Washington County.

Environmental Management

The Division of Environmental Management (“DEM”), which includes the Department of Water Quality, the Environmental Engineering Department, the Solid Waste Department, the Stormwater Management Department and the Watershed Department, was created in fiscal year 2007. The State and federal environmental initiatives as they pertain to water, wastewater, stormwater, solid waste and nutrients are all jointly related. DEM is responsible for integrating the regulations and applying them to the operations of these departments.

The Washington County Solid Waste Department is responsible for a solid waste disposal system that protects the environment and public health.

The County currently provides water and/or wastewater services to nearly all of the immediate densely populated area surrounding the City of Hagerstown (except the Dual Highway corridor), the areas of Highfield, Elk Ridge, Sandy Hook, and the towns of Sharpsburg and Smithsburg.

Department of Business Development

The Washington County Department of Business Development (the “DBD”) is dedicated to expanding economic opportunities for the citizens of Washington County. It works to promote Washington County as a place of business and improve the overall business climate of the community.

The Washington County Economic Development Commission Board of Directors (the “EDC”) is comprised of 12 unpaid volunteers and six *ex-officio* members. As representatives of the local business community, the EDC is responsible for evaluating, recommending, and implementing policies affecting the County’s ability to attract, nurture, and sustain employment, and to further promote economic growth and change in a managed environment.

The DBD currently has five full-time employees to conduct the day-to-day operations of the office. The staff works to fulfill the strategic priorities recommended by the EDC and as approved by the Board.

Demographic Information

Population

<u>Year</u>	<u>County Total</u>
1980	113,086
1990	121,393
2000	131,923
2010	147,430
2016	149,585
2020 projected	160,300
2025 projected	169,950
2030 projected	178,900

Sources: U.S. Bureau of the Census 1980, 1990, 2000, 2010; Projections by the Maryland Department of Planning 2016.

County Income

Per Capita Income	\$ 42,248
Median Household Income	\$ 56,228
Average Household Income	\$ 70,993

Sources: U.S. Dept. of Commerce, Bureau of Economic Analysis (2016); U.S. Bureau of the Census, 2011-2015 American Community Survey 2016

Housing

2016 Median Selling Price

Washington County	\$ 165,697
Maryland	\$ 267,431

Source: Maryland Association of Realtors.

Households

Number of Households	56,067
Number of Family Households	37,775
Number of Non-family Households	18,292

Source: U.S. Bureau of the Census, 2011-2015 American Community Survey 2016.

Population Statistics

Age:	19 & under	24.60%
	20-64 (workforce age)	60.10%
	65 & older	15.30%
	Median Age	40.4
Gender:	Male	51.00%
	Female	49.00%
Race:	White	83.70%
	Black	10.30%
	Other	6.00%

Source: U.S. Bureau of the Census, 2011-2015 American Community Survey 2016.

Education Facilities in Washington County

Higher Education:

Kaplan University - Hagerstown
Hagerstown Community College
University System of MD at Hagerstown

Primary Education:

26 Elementary Schools
7 Middle Schools
8 Senior High Schools
1 Middle/Senior High School
1 Technical High School
1 Evening High School
1 Outdoor Education
1 Special Education

Pupil/Teacher Ratio: 22:1

Public Enrollment: 22,545

39 Private Schools

Source: Washington County Board of Education (2016)

County Water Quality Systems

	<u>Total # of Services</u>
Full Service Water	1,339
Full Service Sewer	7,071
Collection Service Sewer	3,713
Total	12,123

Source: Washington County Department of Budget and Finance

County Building Permits (000s)

	<u>Number</u>	<u>Value</u>
Residential New	172	\$40,510
Other Permits	1,977	\$99,632
Total	2,149	\$140,142

Source: Washington County Department of Permitting

County Employment Statistics

Civilian Labor Force	77,161
Employed	71,757
Unemployed	3,785
Unemployment Rate	4.88%
State Average	4.27%

Source: MD Department of Labor, Licensing & Regulation 2017

Top 15 Employers in Washington County

	<u>Employer</u>	<u>Employment</u>
1	Washington County Public Schools	3,100
2	Meritus Health, Inc.	2,740
3	State of Maryland	2,385
4	Citi	2,300
5	First Data	2,185
6	Washington County Government	1,352
7	Volvo Group	1,300
8	FedEx Ground	900
9	Hagerstown Community College	890
10	Bowman Group, LLP	745
11	Federal Government	567
12	Merkle Response Services, Inc.	545
13	City of Hagerstown	486
14	Brook Lane Health Services	485
15	Dot Foods, Inc.	441

Source: Washington County Department of Business Development 2016.

County Business Patterns

<u>Industry</u>	<u>Total # Establishments</u>
Services	1,196
Retail Trade	607
Other	449
Construction	343
Finance, Insurance, Real Estate	336
Transportation/Warehousing	147
Wholesale Trade	151
Manufacturing	124
Information	56
Utilities	5
Mining	2
Agricultural	3
Total	3,419

Source: U.S. Census Bureau, 2015 County Business Patterns

Top 20 Largest Taxpayers in Washington County
as of June 30, 2016
Ranked by Assessed Value

	<u>Taxpayer</u>	<u>Assessed Value</u>
1	Outlet Village of Hagerstown	\$ 100,457,460
2	PR Valley Limited Ptsp	96,895,700
3	Potomac Edison	83,180,320
4	Liberty Property Limited	73,065,267
5	FedEx Ground Package System Inc.	69,928,974
6	Bowman Group	62,816,183
7	Washington Real Estate	60,579,990
8	Staples of Maryland LLC	49,361,487
9	IIT Hagerstown Dist. Center	47,897,167
10	254 Hagerstown/Citigroup/Citicorp	45,460,840
11	Mack Trucks Inc.	37,437,940
12	Walmart Stores/Wal-Mart R.E./Sam's R.E./Sam's East	37,131,690
13	Verizon-Maryland	35,865,250
14	2007 East Greencastle Pike	34,360,000
15	Lowe's Home Centers Inc.	33,741,960
16	Tractor Supply Company	31,286,060
17	FR Hagerstown LLC	30,622,633
18	GP Hagerstown Limited Ptsp	30,035,200
19	CSX Transportation CSX Minerals	29,789,610
20	ARCP MT Hagerstown	28,691,800

Source: Washington County Treasurer's Office

The information set forth above was compiled from tax rolls on which the names and owners are not always recorded in the same way.

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Capital Improvement Plan Development

Capital Improvement Program

Washington County government is responsible for providing infrastructure improvements to its citizens. To provide for these improvements on a continuing basis, the Board of County Commissioners established a Capital Improvement Program that forecasts the future needs and priorities of the community. Through sound planning and programming of capital projects, the County can provide many improvements while utilizing the prescribed amount of funds available for this purpose.

A major purpose of the Capital Improvement Program is to provide a means for coordinating and consolidating all departmental and agency project requests into one document. The projects can then be examined and prioritized based on established criteria that includes County plans and policies.

A Ten-Year Capital Improvement Plan is developed each fiscal year and includes scheduling and financing of future community facilities such as public buildings, roads, bridges, parks, water and sewer projects, and educational facilities. The plan is flexible and covers ten years with the first year being the Capital Improvement Budget. Funds for each project are allocated from Federal, State, and local sources by the County Commissioners.

The Capital Improvement Plan not only accounts for the acquisition, expansion, and rehabilitation of infrastructure and other capital assets, but it also incorporates the following basic underlying principles of the County:

- Capital projects are targeted to support the goals of the Comprehensive Plan and other County functional plans.
- Capital investments are made for economic development.
- Existing assets are preserved and maintained to ensure continued service.
- External funding possibilities are considered when reviewing and prioritizing projects.
- Intergovernmental funding is sought for regional projects.
- Debt is used carefully and managed in accordance with the goals and objectives of County policies.

The Ten-Year Capital Improvement Plan is updated on an annual basis for both project costs and funding sources. Along with the development of the Capital Improvement Plan, an annual debt affordability analysis is performed to evaluate the effect of debt service costs on operating budgets and to utilize long-term financial planning. As part of the annual review process, certain projects are closed out due to completion and others are added as the re-sequencing of project priorities occur.

Capital Improvement Plan Process

Capital Improvement Plan development begins in the winter after the completion of the debt affordability analysis. The Capital Improvement Program provides a comprehensive approach to planning and impacts all facets of County operations. The County Administrator, the Chief Financial Officer, the Planning Director, the Director of Public Works, and the Director of Engineering and Construction comprise the Capital Improvement Plan Committee, ("CIP Committee"). From the time the Capital Improvement Plan's initial annual review begins in October through its adoption in May of each year, there is constant interaction between departments, the CIP Committee, and the elected officials. This effort is characterized by cooperation and reflects a common goal of ensuring that the Capital Improvement Plan meets the objectives of the County and remains affordable and achievable. The CIP Committee reviews the project submissions to ensure:

- The plans are properly coordinated with other projects, entities, etc.;
- Long-term operating impacts are included in estimates (including staffing, utility, maintenance, and debt);
- Timeframes for construction activity and cash flow are realistic;
- The budget and appropriate funding sources are adequate; and
- Projects are prioritized based on County goals, department priorities, and anticipated funding sources.

The Capital Improvement Plan is reviewed in conjunction with the debt affordability analysis and revenue projections, inclusive of rate analysis, in order to determine funding availability. A financial analysis of funding sources and project costs is conducted for all proposed capital improvement projects. It is the CIP Committee's responsibility to review all requests that County departments and agencies submit. All projects are ranked based on established criteria for priority ranking. Considering current and future needs, as developed in the ten-year plan, available funding sources, and the results of the priority ranking process, the CIP Committee determines which capital projects best meet established criteria for the current fiscal year Capital Improvement Budget and the nine-year forecast.

The Board of County Commissioners reviews the Ten-Year Capital Improvement Plan in regular public working sessions and at the public hearing. Following this review and before the end of the fiscal year, the Board formally approves and adopts the Ten-Year Capital Improvement Plan for the established projects.

Components of the Capital Program

Capital Project Definition

Capital Projects are included in the Capital Improvement Plan when the project supports or improves infrastructure needs and/or the productive capacity of the County. Projects should have a useful life greater than five years and an estimated cost of \$10,000 or more, and should also meet one or more of the following criteria:

- Projects having restricted funding sources, including grants, that require them to be included in the Capital Improvement Budget;
- Systematic acquisitions over an extended time period to complete implementation of a major functional or operating system;
- Rehabilitation or replacement projects of governmental or agency facilities;
- Projects that require bond financing because of significant costs associated with acquisition or construction of the project; and
- Planning and feasibility studies that support the acquisition, construction, or improvement of the items listed above. (These are not required to meet the useful life test).

Capital assets include land, improvements to land, easements, buildings, building improvements, vehicles, machinery, large equipment, infrastructure, and all other tangible and intangible assets that are used in operations. Assets not meeting the criteria above are budgeted as capital outlay in the Operating Budget.

Capital Project Priority Ranking System

During the review process the CIP Committee prioritizes projects based on the County's broad goals, department priorities, anticipated funding sources, and the priority-ranking matrix. The priority-ranking matrix is composed of 14 scored and weighted criteria, which is the basis for assigning projects into one of the five priority-ranking categories.

The 14 scored and weighted ranking criteria used by Washington County are:

1. Legal Mandates – This criterion assesses the risk with legal issues required by Federal or State statute, court order, or regulation, or a project that moves the County into further compliance with such mandates.
2. Public Health and Safety – This criterion includes health related impacts such as increases in traffic accidents, injuries, and deaths.
3. Environmental Impact – This criterion evaluates the environmental related impact on items such as water quality, flood control, air quality, contamination, etc.

4. **Conformity to County Commissioners Goals and Plans** – This allows for the evaluation of the project in relationship to the goals and plans of the Commissioners and/or the Comprehensive Plan or other approved plans by the County.
5. **Conformity to Agency, Department and Jurisdictional Plans** – This allows for the evaluation of the project in relationship to written plans of County agencies, departments, and jurisdictions.
6. **Community Support** – This criterion refers to interest group advocacy and/or opposition and conformity to County master and strategic plans.
7. **Project Cost** – This criterion considers the total cost of constructing or installing the proposed work. The higher the cost the lower the weight. However, the forced score should not be considered adversely with respect to an individual project as it simply identifies the financial issues within the Capital Improvement Plan Budget. A project will rank high if warranted by other evaluation criteria when scored if appropriate.
8. **Funding** – This criterion evaluates available funding sources to be contributed towards the proposed project, taking into consideration if the project is continuing from the prior year (in which funding would be required), if there is proposed self-supporting funds, or if significant outside funding sources are available.
9. **Operating Budget Impact: Cost/Benefit** – This criterion reflects other costs relative to the proposed project, including operation and maintenance, start-up costs, and personnel, as well as cost savings and potential revenues generated by the completed project.
10. **Preservation of Facility** – Measures the possible effect of deferring the project, such as complete replacement of facility or equipment, major repair, normal repair costs if not replaced or added cost for new facility.
11. **Project Life** – This criterion is used to rank the project based on life expectancy and projected maintenance cost. A higher value is placed on longer-term infrastructure assets.
12. **Economic Impact** – Measures the impact such as property value, future tax base, added jobs, income to citizens, changes in business income, and stabilization of neighborhoods. Such impacts may apply more to capital projects related to growth and expansion than to infrastructure maintenance, although deteriorating structures can adversely affect business.
13. **Recreational, Cultural or Aesthetic Value** – A catch-all criteria for other significant quality-of-life related impacts that include community appearance, recreational opportunities, and cultural improvements.
14. **Percent of Population Benefiting** – Estimates the number of persons likely to be affected by the project and nature of the impact.

After the projects are scored and weighted using the above criteria, the projects are then categorized based on the score into Priority 1 through Priority 5. The priority category definitions are as follows:

- | | |
|------------|---|
| Priority 1 | Projects needed to comply with a court order or legislative mandate, and/or projects that are critical to the health, safety, and general welfare of County citizens. |
| Priority 2 | Projects essential to the general welfare of the community, operating or maintaining of a physical facility, but not critical relative to other projects. |
| Priority 3 | Projects that provide a public operational improvement or are important in relation to County financial capabilities, needs, or other program requirements. |
| Priority 4 | Projects that provide for necessary maintenance or replacement, but where deferral will not result in significantly increased cost to the County. |

- Priority 5 Projects that conflict with the master plan and/or projects for which there are concerns related to serious need, cost, justification, or timing.

After all proposed projects are prioritized using these criteria, the CIP Committee (1) reviews the project ranking report for reasonableness; (2) checks for any projects that appear out of order; (3) determines if there are any linkages between projects; (4) evaluates if there are any advantages to having projects done concurrently; (5) ascertains if there are any projects dependent on one another; and (6) reviews the project's impact on the operating budget. Adjustments to the final ranking may be necessary based on this extensive Capital Improvement Plan prioritization process.

The CIP Committee provides an enterprise-wide view and prioritizes proposed projects while balancing project requests against known County objectives. After their review is complete, the CIP Committee presents the Ten-Year Capital Improvement Plan to the Board of County Commissioners. The County Commissioners review the recommended Ten-Year Capital Improvement Plan during budget workshops and at a public hearing prior to budget adoption.

Program priorities, long-term service needs, and planning – like multidimensional ranking systems – complement rather than replace, the judgment that County officials must exercise in ranking requests for capital projects and acquisitions and developing the Capital Improvement Plan and Capital Budget.

Capital Improvement Plan Funding Sources

Funding sources in the Capital Improvement Plan are budgeted in each fiscal year in which they will be received. All potential funding sources are considered when developing the Capital Improvement Plan to ensure that projects are funded with appropriate revenue streams. Some projects are funded with project-specific revenues that benefit particular projects and/or users, as is the case with development fees. The other information considered when funding the Capital Improvement Plan are the results of the Debt Affordability Analysis, cash flow requirements of each project, and the financial costs associated with each funding source. Following are descriptions of the funding sources for the Capital Improvement Budget:

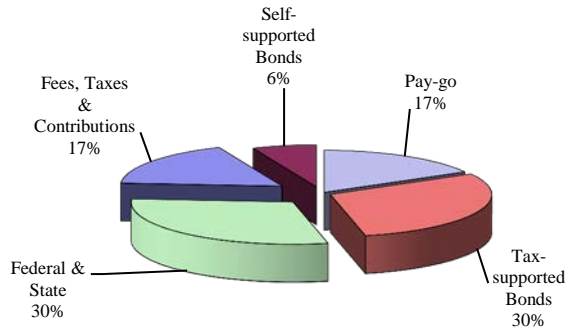
- Tax-Supported Bonds are General Obligation Bonds secured by the full faith and credit of the issuer. General Obligation Bonds issued by the County are secured by a pledge of the County's property taxing power, and must be authorized by legislative authority. The amount to be issued in this fiscal year is based on the County's debt affordability guidelines, debt policies, and future project costs.
- Self-Supported Bonds are issued for enterprise funds and the debt service is paid from user fees.
- Pay-Go Funds represent cash contributions from various operating funds for specific capital projects without a dedicated funding source. The fiscal year 2017 amount is based on available cash resources and was determined by maximizing the contribution level to best match funding strategies, useful lives, benefit of assets, and cost.
- Federal and State Funds are for specific projects and are restrictive in nature. These funds are inconsistent from year-to-year and are not used as a base revenue stream.
- Fees and Taxes is the other major funding source. Excise tax is assessed for residential construction at \$1 per sq foot (SF), and \$.50 SF for additions to residential properties. Excise tax for nonresidential non-retail is assessed at \$1 SF and nonresidential retail at \$1 SF for the first 15,000 SF and \$3 SF thereafter. Budgeted excise tax is based on projected growth and development. Transfer tax is charged on recorded real property transfers in the County at a rate of .5%. Transfer tax revenue for fiscal year 2017 is based on projected home sales and recordation activity. In addition, the County has an Adequate Public Facilities Ordinance Fee and is used to generate revenue so that public facilities and services needed to support new development will be available concurrently with the impacts of the new developments.

Fiscal Year 2018 Overview

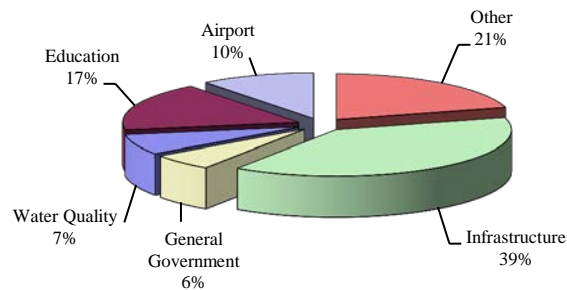
FY18 Capital Improvement Budget Overview

A graphic illustration of planned capital project distribution and funding sources for fiscal year 2018 is shown below. The fiscal year 2018 Capital Improvement Budget is funded mainly from: tax-supported and self-supported bonds, pay-go funds, Federal and State funds, and developer based fees.

Funding Sources



Capital Project Distribution



Operating Impact of Capital Improvement Projects

The operating impact of capital projects are reviewed and considered during the Capital Improvement Plan review process. Estimated new revenues and or operational efficiency savings associated with projects are also taken into consideration. The operating costs of the projects are identified and considered during the ranking evaluation. The operating costs of projects to be completed and in-service during the budget year are identified and justified as part of the operating budget process. Additions or eliminations of personnel, significant start-up costs, as well as operation and maintenance costs of the new facilities are included in the operating budget. These conservative operating cost estimates include: personnel, equipment maintenance, building maintenance, and other major costs anticipated at the completion of the project. An important consideration in the County's Capital Improvement Budget is the fiscal impact on the Operating Budget due to the additional debt service cost. Total debt service cost for fiscal 2018 is approximately \$21.9 million.

The ten-year operating budget impact for major projects approved in the fiscal year 2018 Capital Budget are presented in the project detail schedule located in the next section.

Debt Affordability Analysis

One of the major sources of funding for capital projects is debt. Debt is issued to match the cash flow requirements of the Capital Improvement Plan, while considering the effect of the tax burden on the citizens. Therefore, along with the development of the Capital Improvement Plan, an annual debt affordability analysis is performed to evaluate the affect of debt service costs on operating budgets and to utilize long-term financial planning.

The key factor in the issuance of debt is the understanding that effective debt management is critical to the overall financial management of the County. Therefore, the issuance of debt is done in conformance with the County's Debt Policy, which is an integral component of the County's financial management program. Accordingly, critical to sound financial and debt management is the continuing evaluation of the County's ability to afford and plan for the issuance of debt. In this regard the County has instituted a self-imposed requirement that an annual debt affordability analysis be performed. The analysis provides a method by which the County's debt position can be evaluated, tested for stress and affordability, and compared to other jurisdictions, "Peer Group", that are considered comparable to the County. The analysis provides the County Commissioners and citizens with a way to assess the impact of bond issuance and allows for informed decisions regarding financing proposals and capital spending priorities.

The County undertakes the debt capacity analysis on an annual basis in conjunction with the issuance of bonds and the formulation of the long-range Capital Improvement Plan. This comprehensive and routine analysis of debt capacity provides assurance that the amount of debt issued by the County is affordable. It also ensures that an appropriate balance is maintained between the County's capital needs and its ability to pay for them.

To determine the County's debt affordability, a peer group was established for comparison. The Peer Group consists of counties that share similar characteristics in various areas, including but not limited to, population, region, bond rating, and budget thresholds. Also, our sample of counties was based on size and income indicators, such as per capita income, property values, access to interstate highways, and revenue generation.

The Peer Group contains nine other Maryland counties: Howard, Frederick, Harford, Carroll, Charles, St. Mary's, Cecil, Wicomico, and Calvert.

As with any business, including County government, it is important to develop strategic objectives, including prudent borrowing limits. The debt ratios used by the County are relevant benchmarks used to measure its debt position. Establishing an acceptable range for the debt ratios has allowed the County to continually monitor its debt position and provide a mechanism for calculating debt capacity. The information provided by the ratios assists the County in the capital budgeting decision process, including prioritizing capital spending.

Measures of debt affordability are sensitive as they are impacted by the amount of outstanding debt and changes in both demographic and economic factors. Changes in demographic factors such as population growth and personal income affect debt ratios. Economic cycles can have major impacts both positive and negative on targeted ratios and debt capacity. This volatility demonstrates the need for assessing changes in projected debt capacity on an annual basis.

Decisions regarding the use of debt is based on a number of factors including, but not limited to, the long-term needs of the County and the amount of resources available to repay the debt. Flexibility is required to enable the County's management team to respond to unforeseen emergencies or opportunities in the operational budget. In order to provide for that flexibility, the most important ratio - Debt Service as a Percent of Revenue - is included in the analysis. Comparing debt ratios of the Peer Group and national medians is useful in evaluating the County's debt position. Evaluating the change in ranking over time also indicates a strengthening or weakening of the County's debt position relative to the Peer Group and to national averages. Following is a five-year comparison of the County's debt ratios for the tax-supported debt portion.

Ratio and Peer Group Median Comparisons								
Fiscal Year	Debt Per Capita		Debt as a Percent of FMV		Debt Service as a % of General Fund Revenue		Debt Service per Capita as a % of Income Per Capita	
	County Amount	Peer Group Median	County Ratio	Peer Group Median	County Ratio	Peer Group Median	County Ratio	Peer Group Median
2013	883	1,549	1.08%	1.52%	7.08%	8.48%	.25%	.33%
2014	908	1,536	1.14%	1.68%	6.97%	8.41%	.23%	.33%
2015	917	1,496	1.17%	1.68%	7.04%	8.96%	.24%	.34%
2016	933	1,661	1.16%	1.68%	6.36%	8.06%	.22%	.32%
2017 estimated	1,040	1,661	1.29%	1.68%	6.86%	8.06%	.24%	.32%
Policy		1,500		1.50%		8.00%		0.50%

When the County compares its debt ratios to its peer group and national medians, it provides a snapshot of our debt position at a single point in time. However, to fully understand the County's debt position, it is important to evaluate ratios over a long period of time so that trends can be ascertained, analyzed, and evaluated.

In completing the debt affordability analysis the estimated debt capacity ceiling is established and policy guidelines are applied to the debt capacity calculations. The ratio of Debt Service as a Percentage of Revenue is considered the most critical criteria in establishing debt capacity, in part, because the County controls both components of the ratio and the impact of the change is most pronounced in the operating budget and potentially the tax burden carried by the citizens.

Projections are based on net tax-supported debt currently outstanding plus average debt that is anticipated to be issued over the next 20 years. The projections are intended only to provide a method for assessing the impact of issuing more debt. The County's debt affordability analysis is designed to: ensure that anticipated future debt is manageable from a fiscal and budgetary perspective; meet peer group ratio targets and avoid negative treatment by the rating agencies in the form of a rating downgrade; and keep borrowing costs to a minimum. The following table illustrates the impact of long-term debt issuance as it relates to various Peer Group targets that the County monitors.

Debt Capacity Analysis – Effect of Debt Issuance on Debt Ratios								
Fiscal Year	Debt Per Capita		Debt as a Percent of FMV		Debt Service as a % of General Fund Revenue		Debt Service Per Capita as a % of Income Per Capita	
	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median
2018	1,078	1,661	1.31%	1.68%	7.04%	8.06%	.24%	.32%
2019	1,108	1,661	1.33%	1.68%	6.76%	8.06%	.23%	.32%
2020	1,142	1,661	1.34%	1.68%	7.24%	8.06%	.25%	.32%
2021	1,167	1,661	1.35%	1.68%	7.45%	8.06%	.26%	.32%
2022	1,188	1,661	1.35%	1.68%	7.29%	8.06%	.25%	.32%
2023	1,209	1,661	1.35%	1.68%	7.45%	8.06%	.26%	.32%
2024	1,227	1,661	1.34%	1.68%	7.65%	8.06%	.26%	.32%
2025	1,239	1,661	1.33%	1.68%	7.79%	8.06%	.27%	.32%
Policy		1,500		1.50%		8.00%		0.50%

Debt Capacity Analysis – Effect of Debt Issuance on Debt Ratios								
Fiscal Year	Debt Per Capita		Debt as a Percent of FMV		Debt Service as a % of General Fund Revenue		Debt Service Per Capita as a % of Income Per Capita	
	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median	Projected	Peer Group Median
2026	1,247	1,661	1.31%	1.68%	7.76%	8.06%	.27%	.32%
2027	1,253	1,661	1.30%	1.68%	7.75%	8.06%	.27%	.32%
2028	1,257	1,661	1.28%	1.68%	7.92%	8.06%	.28%	.32%
2029	1,256	1,661	1.25%	1.68%	7.34%	8.06%	.26%	.32%
2030	1,262	1,661	1.24%	1.68%	7.31%	8.06%	.26%	.32%
2031	1,267	1,661	1.22%	1.68%	7.56%	8.06%	.27%	.32%
2032	1,264	1,661	1.19%	1.68%	7.52%	8.06%	.26%	.32%
2033	1,260	1,661	1.17%	1.68%	7.49%	8.06%	.26%	.32%
2034	1,253	1,661	1.14%	1.68%	7.44%	8.06%	.26%	.32%
2035	1,244	1,661	1.11%	1.68%	7.40%	8.06%	.26%	.32%
2036	1,232	1,661	1.08%	1.68%	7.29%	8.06%	.26%	.32%
2037	1,220	1,661	1.05%	1.68%	7.23%	8.06%	.26%	.32%
Policy		1,500		1.50%		8.00%		0.50%

Credit Ratings

Rating agencies are companies that assign credit ratings to institutions, including local governments that issue debt obligations. Credit ratings are the rating agencies' assessment of the County's ability and willingness to repay debt on a timely basis. Debt management is an important factor in evaluating and assigning credit ratings. Credit ratings are an important indicator in the bond market and can influence the County's long-term interest rates that it must pay.

The County's current credit ratings are AA+ by Standard & Poor's, AA+ by Fitch and an Aa1 by Moody's Investors Service. The County's credit ratings reflect strong financial management, continued economic development and diversification, strong financial position, strong financial policies, manageable capital needs, low debt, and strong reserves.

Changes in Economic Assumptions

In addition to analyzing the impact of the capital program on debt ratios and capacity, to remain prudent, the County analyzes the impact of changing economic conditions on the recommended maximum level of annual debt issuance. Three economic scenarios are created:

- 'Base' case reflects future economic conditions based on historical and projected trends.
- 'Best' case reflects the best economic conditions based on historical high trends.
- 'Worst' case reflects the worst economic conditions based on historical low trends.

The assumptions used in determining debt capacity in each scenario are based on historical trends, judgment, and projected economic conditions. Each case assumption is applied to the 20-year projection.

The 'Base' case projects the most affordable program. The 'Best' and 'Worst' case scenarios assume major changes in economic conditions for the 20-year period and could require adjustments to the Capital Improvement Plan and the debt issuance plan. However, planning to issue debt on the 'Best' case scenario every year is not advisable because some bonding capacity should be kept in reserve in anticipation of sudden unexpected economic downturns.

Final Analysis

There are multiple factors that can affect the County's affordability to incur future indebtedness, including the County's economy and the availability of adequate financial resources. For that reason the financial ratios and analysis used, take into account the entire County financial condition, as other factors can effectively deteriorate the County's financial posture and affect its ability to incur debt. In addition, these managerial and unpredictable scenarios are considered and tested as part of the analysis, so that the known effects of 'Worst' and 'Best' case results can be examined. It is important for the County to monitor its financial condition, the economic trends, and debt affordability results on a regular basis, in order to continue to evaluate the County's credit position to determine whether annual issuance of debt should be adjusted to reflect a changing financial outlook for the County under altered circumstances.

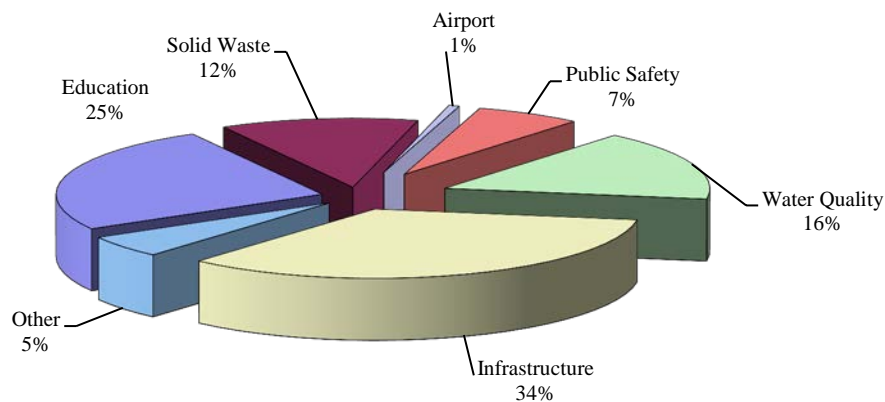
The estimated maximum debt capacity is not intended to be an absolute limit or a recommendation on the amount of debt that can be incurred. It should be used as a guide for better long-term financial planning and improving capital budgeting. Debt capacity estimates can assist long-term capital planning by showing the resources available to fund needed infrastructure, schools and other capital needs. The estimates can then be used to allocate restricted resources to priority projects. The County's annual debt review analyzes the projected debt issuances to assure that long-term financial stability will remain intact.

Outstanding Debt

The impact of the Capital Improvement Budget on the Operating Budget is evaluated during the budget process. The Capital Improvement Budget includes costs for long-term capital projects, which add to the capital asset base of the County. The Operating Budget includes the principal and interest cost associated with those assets and the pay-go financing.

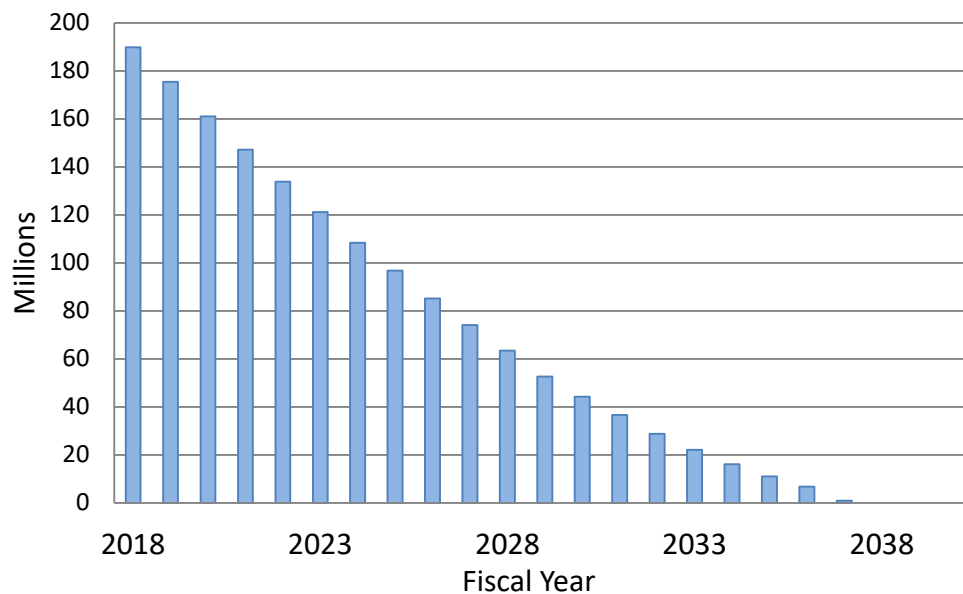
The following graph illustrates the percentage of total debt outstanding at June 30, 2017, by project category:

Percentage of Debt Outstanding by Project Category



The following graph illustrates the current outstanding debt at June 30, 2017.

Outstanding Debt



The table below shows the current outstanding balance at June 30, 2017, and the estimated impact of debt service on the Operating Budget for FY 2018.

Current Debt Balance and FY 2018 Principal and Interest Costs

Description	FY 2017 Balance	FY 2018 Principal	FY 2018 Interest	Total Debt Service
General Fund:				
2007 Public Improvement Bonds	\$ 631,332	\$ 631,333	\$ 13,416	\$ 644,749
2008 Public Improvement Bonds	868,895	868,896	34,756	903,652
2009 Public Improvement & Refunding Bonds	1,472,577	951,621	53,754	1,005,375
2010 Ser A Public Improvement Bonds	2,167,127	519,473	55,598	575,071
2010 Ser B Build America Bonds	6,957,113	0	235,309	235,309
2010 Refunding Bonds	5,445,148	1,197,979	158,156	1,356,135
2011 Public Improvement Bonds	8,813,240	459,788	334,570	794,358
2012 Public Improvement Bonds	10,240,732	495,903	297,160	793,063
2012 Refunding Bonds	3,990,790	700,300	159,720	860,020
2013 Public Improvement Bonds	10,625,000	485,000	338,125	823,125
2013 Refunding Bonds	11,332,360	1,128,528	382,368	1,510,896
2014 Public Improvement Bonds	13,050,000	505,000	502,013	1,007,013
2015 Public Improvement Bonds	11,600,259	415,265	417,303	832,568
2015 Refunding Bonds	19,430,329	781,737	764,836	1,546,573
2016 Public Improvement Bonds	12,000,000	412,891	411,023	823,914
2016 Refunding Bonds	6,396,940	0	215,829	215,829
2017 Public Improvement Bonds	12,000,000	0	266,004	266,004
MD Water Quality Solid Waste Refinancing	1,554,118	217,489	15,541	233,030
MD Water Quality Resh Capping Ph 1	2,748,579	262,715	27,486	290,201
Total General Fund Existing Debt	\$ 141,324,539	\$ 10,033,918	\$ 4,682,967	\$ 14,716,885
2018 Planned Debt:	12,000,000			
2018 Public Improvement Bonds				
Total General Fund Debt	\$153,324,539	\$ 10,033,918	\$ 4,682,967	\$ 14,716,885
Solid Waste:				
2007 Public Improvement Bonds	128,668	128,667	2,734	131,401
2009 Public Improvement Bonds	369,997	294,989	12,410	307,399
2010 Ser A Public Improvement Bonds	857,832	205,627	22,008	227,635
2010 Ser B Build America Bonds	2,753,894	0	93,144	93,144
2010 Refunding Bonds	1,559,852	372,021	45,144	417,165
2011 Public Improvement Bonds	2,591,760	135,212	98,389	233,601
2012 Refunding Bonds	21,220	5,030	850	5,880
2013 Refunding Bonds	157,640	16,472	5,433	21,905
2015 Refunding Bonds	1,623,141	23,263	65,396	88,659
2016 Public Improvement Bonds	103,000	3,544	3,528	7,072
2016 Refunding Bonds	921,050	0	31,076	31,076
2017 Public Improvement Bonds	1,142,000	0	25,315	25,315
MD Water Quality 40 West Cell 3	1,086,581	136,878	11,952	148,830
MD Water Quality Solid Waste Refinancing	4,269,643	597,511	42,696	640,207

Current Debt Balance and FY 2018 Principal and Interest Costs

Description	FY 2017 Balance	FY 2018 Principal	FY 2018 Interest	Total Debt Service
Total Solid Waste Existing Debt	\$ 17,586,278	\$ 1,919,214	\$ 460,075	\$ 2,379,289
2018 Planned Debt:	852,000			
2018 Public Improvement Bonds				
Total Solid Waste Debt	\$ 18,438,278	\$ 1,919,214	\$ 460,075	\$ 2,379,289

Airport:

2012 Refunding Bonds	657,990	94,670	26,280	120,950
Total Airport Existing Debt	\$ 657,990	\$ 94,670	\$ 26,280	\$ 120,950

Water Quality:

1996 Series A Project & Refunding Bonds	1,803,082	636,593	1,613,408	2,250,001
2008 Public Improvement Bonds	66,105	66,105	2,645	68,750
2009 Public Improvement & Refunding Bonds	342,426	168,391	13,537	181,928
2010 Ser A Public Improvement Bonds	375,041	89,900	9,622	99,522
2010 Ser B Build America Bonds	1,203,993	0	40,722	40,722
2012 Public Improvement Bonds	4,834,268	234,097	140,278	374,375
2015 Public Improvement Bonds	3,344,741	119,735	120,322	240,057
2015 Refunding Bonds	821,530	0	33,268	33,268
2016 Public Improvement Bonds	8,532,000	293,565	292,237	585,802
2016 Refunding Bonds	2,137,010	0	72,101	72,101
2017 Public Improvement Bonds	2,883,000	0	14,143	14,143
MD Water Quality Series BNR	816,199	198,920	13,875	212,795
MD Water Quality Pretreat. Refinancing 2004	2,636,063	425,000	10,544	435,544
MD Water Quality Halfway I & I	293,920	28,093	2,939	31,032
MD Water Quality Winebrenner	2,434,781	119,165	19,478	138,643
Total Water Quality Existing Debt	\$ 32,524,159	\$ 2,379,564	\$ 2,399,119	\$ 4,778,683
2018 Planned Debt:	1,734,000			
2018 Public Improvement Bonds				
Total Water Quality Debt	\$ 34,258,159	\$ 2,379,564	\$ 2,399,119	\$ 4,778,683

Total Existing and 2018 Planned Debt	\$ 206,678,966	\$ 14,427,366	\$ 7,568,441	\$ 21,995,807
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Bonded Limit Summary as of June 30, 2017

The County may only issue general obligation and revenue bonds under authority conferred by the Maryland General Assembly, excluding those issued for education. No referendum is required. As of June 30, 2017, the unused authorization available for issuance of general obligation bonds was \$24,592,722.

By State law, the total bonded indebtedness of the County for Water, Wastewater, and Pretreatment purposes may not exceed 10% of the assessed value of all property in Washington County subject to unlimited County taxation. See following table.

Schedule of Legal Debt Margins – Department of Water Quality Estimated as of June 30, 2017	
Assessed Value of Property in Washington County	\$ 12,724,233
Debt Limit: % of Assessed Value	10%
Water Quality Borrowing Limitation	1,272,423,300
Water Quality Debt	30,279,159
Debt Margin	1,242,144,141
Ratio of Water Quality Debt to Assessed Value	.25%

Statement of Revenues and Expenditures
Summary By Year – Capital Improvement Fund

Description	Fiscal Year		
	2016 Actual	2017 Budget	2018 Budget

Revenue (By Major Type):

Fees	\$ 3,534,781	\$ 2,051,000	\$ 2,700,000
Grants	8,772,996	14,159,000	11,996,000
Other	441,721	500,000	4,558,000
Bonds	23,447,207	16,025,000	14,586,000
Subtotal	36,196,706	32,735,000	33,840,000
Transfers	7,554,080	5,106,000	5,637,000
Capital Reserves	0	1,192,000	984,000
Total Revenue	43,750,786	39,033,000	40,461,000

Expenditures (By Function):

Education	6,998,341	8,428,000	6,935,000
Public Safety	1,174,908	2,358,000	4,807,000
General Government	6,050,137	2,238,000	2,329,000
Parks and Recreation	82,098	180,000	173,000
Water Quality	11,263,722	6,960,000	2,018,000
Roads/Infrastructure	16,440,597	15,458,000	15,664,000
Solid Waste	632,980	1,255,000	878,000
Transit System	481,200	693,000	3,351,000
Airport	2,770,571	1,463,000	4,255,000
Golf Course	228,729	0	51,000
Total Expenditures	46,123,282	39,033,000	40,461,000

Net Difference	(2,372,496)	0	0
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Project Detail of Major Projects – Fiscal Year 2018

Project Name	Project Description	Project Budget	Operating Impact
Pavement Maintenance and Rehab Program	This project includes the modification of county-wide pavement maintenance program targeting rehabilitation of county highway pavement, as required. Techniques may include but not be limited to road reclamation, bituminous concrete overlay, crack sealing, and surface treatment. Individual projects will be determined on an annual basis consistent with the County's overall Pavement Management Program.	\$4,080,000	\$0
Urban Education Campus-BOE Component	This represents the Board's component of the intergovernmental partnership that supports the revitalization of the urban core of Hagerstown.	4,000,000	0
Police, Fire and Emerg Svcs Training Facility	As the need for police, fire, and emergency services continues to grow, the need for a facility for training emergency personnel grows as well. Such a facility would be centralized to the area, easily accessible, and utilized by state, county and local police departments, correctional guards, and security guards. Classroom training for fire and emergency services departments, that predominantly takes place currently in local fire houses, would be held in this facility. With the potential to utilize previously owned County property, the facility would allow for local law enforcement and Fire/EMS programs to migrate from the HCC facilities and have a designated public safety campus. The project would be constructed over several phases ranging from the main building to other necessary training structures.	3,328,000	207,000
Fixed Route Bus Replacement Program	This project provides for the replacment of fixed route buses.	2,994,000	0
Colonel Henry K. Douglas Drive Extended Phase I	The project involves the extension of Colonel Henry K. Douglas Drive from Sharpsburg Pike (Maryland Route 65) to the north side of the Cross Creek development (ADC Map 21, D-12). The roadway is approximately one-quarter mile long and will include construction of a four lane closed section roadway.	2,200,000	1,000
Land Acquisition - Airport	This project is for land acquisition to promote future economic development of the Airport.	2,040,000	0
Professional Boulevard Extended - Phase II	The project involves the extension of Professional Court from a point 200 feet east of the proposed Antietam Creek Bridge (Project 1072) to Yale Drive Extended (Project 1093). The roadway length is approximately 2,700 feet. The project includes construction of a four lane closed section divided roadway that will connect into the roundabout intersection at Yale Drive.	1,200,000	3,000

Project Name	Project Description	Project Budget	Operating Impact
SMART/Alternative Energy House/Training Center	This project will create a Smart House/Energy Efficiency Training Center that will provide learning opportunities by serving as a laboratory/job training facility for students in HCC's Alternative Energy Technology (AET) and Digital Instrumentation/Process Controls programs.	\$1,150,000	\$68,000
Learning Resource Center Renovation	Much of the library book stack space currently located in this building will be re-purposed to accommodate Middle College students (fulltime dual enrolled high school students who will receive a high school diploma as well as AA degree at the completion of 2 years) so that they have a home base and so that they can be more closely monitored due to their age. As the Middle College continues to expand, this dedicated space is needed to support these younger fulltime day students.	1,085,000	0
HWY Equip and Vehicle Replacement Program	This project will replace vehicles and heavy/specialized equipment for maintenance and construction activity.	1,020,000	0
Halfway Boulevard Extended Phase I	The project involves the construction of a new four lane open section roadway connecting Halfway Boulevard Extended to MD Route 63. Intersection improvements at Halfway Boulevard extended and MD Route 63 include providing a traffic signal.	900,000	2,000
Stormwater Retrofits	This project includes the construction of SWM systems based on Best Management Practices such as bio-swales, bio-filters, permeable pavements, ponds, wetlands, etc. along roadways, in parks, and on other county properties to satisfy the National Pollutant Discharge Elimination Systems (NPDES) requirements established by the MDE.	860,000	0
City County Gas Mitigation	In 2015, a gas study was done to determine if there is, and the extent, of gas migration at the City/County Landfill. The study showed there is gas migration and recommends a gas mitigation system be constructed.	852,000	0
Crayton Boulevard Extended	The project involves the construction of Crayton Boulevard between Maugans Avenue and Showalter Road. The project includes construction of a three lane closed section roadway (one lane in each direction with a continuous center left turn lane) and construction of new curb along existing Crayton Boulevard. The project length is approximately 2,000 LF.	800,000	1,000
Airport Environmental Assessment	An Environmental Assessment (EA) will be performed on land that is in the Runway 2/20 Runway Visibility Zone (RVZ) and Taxiway Object Free Area (TOFA).	765,000	0

Project Name	Project Description	Project Budget	Operating Impact
Professional Boulevard Bridge - Phase I	The project involves the extension of Professional Court over Antietam Creek to a point 200' east of the proposed bridge. This project will connect to the proposed Professional Boulevard Extended Phase II roadway that connects to Yale Drive Extended. The project length is approximately 1,000 LF (including bridge). The project includes construction of a four lane closed section roadway and the construction of a four lane bridge over Antietam Creek.	\$759,000	\$1,000
Crystal Falls Drive Bridge W3051	This project is located just outside Smithsburg town limits on Crystal Falls Drive (ADC Map 23, F-4). The project will replace a two span concrete bridge with a two cell concrete box culvert and include traffic barrier approach road improvements.	740,000	0
Sharpsburg Elementary School- Replacement	The project involves construction of 63,818 SF replacement building to support 471 students.	645,000	5,000
Law Enforcement - Vehicle and Equipment Replacement Program	This project is for the replacement of public safety fleet inventory.	616,000	0
Passenger Terminal Hold Room Expansion	The project involves an Airport Passenger Terminal Hold Room expansion to increase passenger capacity.	612,000	2,000

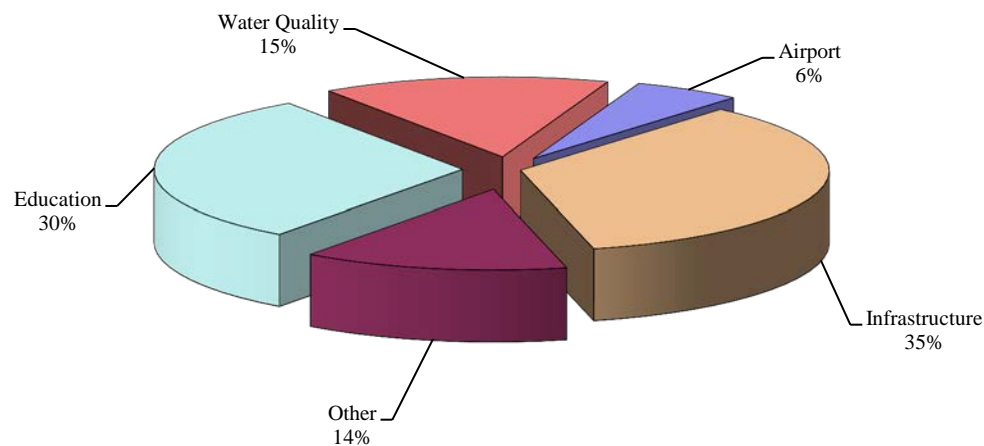
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Ten Year Summary

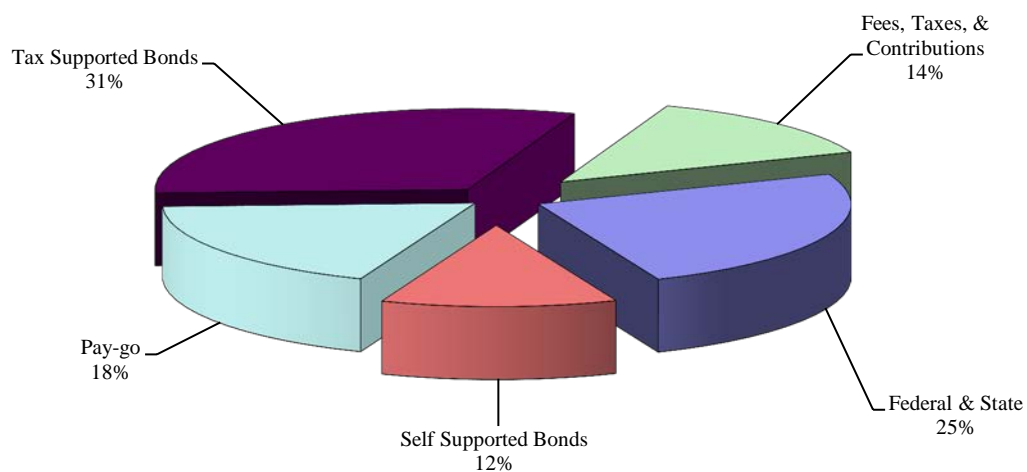
Ten Year Capital Improvement Plan Graphs

The following graphs illustrate the projects by category and the funding sources that are currently scheduled for FY2018 thru FY2027. The 'Other' category includes projects for: Parks & Recreation, Transit, General Government, and Public Safety. The 'Education' category includes projects for the Board of Education, the Hagerstown Community College, and Public Libraries. The total for all projects represented in the chart is \$384,215,000.

Project Categories for FY2018 thru FY2027



Funding Sources for FY2018 thru FY2027



Capital Improvement Ten Year Summary
Fiscal Year 2018 – 2027

Project	Total	Prior Appr.	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs									
Airport	24,482,059	2,655,059	4,255,000	1,332,000	870,000	1,391,000	1,527,000	1,549,000	10,903,000
Bridges	20,706,902	4,796,902	1,206,000	1,143,000	2,533,000	1,902,000	1,644,000	2,815,000	4,667,000
Drainage	15,696,900	2,527,900	1,730,000	1,910,000	1,334,000	1,012,000	1,260,000	990,000	4,933,000
Education	118,342,300	1,643,300	6,935,000	12,978,000	11,086,000	10,240,000	13,901,000	12,421,000	49,138,000
General Government	16,280,207	3,389,207	2,329,000	1,590,000	1,041,000	1,084,000	1,086,000	1,133,000	4,628,000
Parks & Recreation	1,173,966	163,966	224,000	167,000	127,000	54,000	55,000	56,000	327,000
Public Safety	33,572,605	3,114,605	4,807,000	3,475,000	2,632,000	2,576,000	2,741,000	2,731,000	11,496,000
Railroad Crossings	1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000
Road Improvement	138,225,372	34,574,372	12,728,000	10,481,000	11,234,000	7,559,000	9,383,000	9,507,000	42,759,000
Solid Waste	12,705,000	976,000	878,000	203,000	1,193,000	3,078,000	911,000	2,020,000	3,446,000
Transit	9,468,915	428,915	3,351,000	364,000	1,408,000	475,000	1,102,000	493,000	1,847,000
Water Quality	51,513,811	5,264,811	2,018,000	2,248,000	9,455,000	9,798,000	3,764,000	4,541,000	14,425,000
TOTAL	444,140,874	59,925,874	40,461,000	36,170,000	42,913,000	39,169,000	37,669,000	38,556,000	149,277,000
Funding Sources									
General Fund	73,568,679	16,254,679	5,000,000	5,500,000	5,500,000	4,849,000	5,500,000	5,483,000	25,482,000
Highway Fund	5,169,000	225,000	466,000	542,000	593,000	593,000	425,000	450,000	1,875,000
Hotel Rental Fund	533,000	533,000	0	0	0	0	0	0	0
Solid Waste Fund	453,000	113,000	26,000	26,000	27,000	27,000	28,000	28,000	178,000
Utility Admin Fund	325,234	325,234	0	0	0	0	0	0	0
Water Fund	161,095	161,095	0	0	0	0	0	0	0
Sewer Fund	2,766,157	2,766,157	0	0	0	0	0	0	0
Airport Fund	813,000	244,000	145,000	86,000	40,000	41,000	42,000	37,000	178,000
Tax Supported Bond	134,036,100	14,036,100	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	48,000,000
Self Supported Bond	49,232,325	2,414,325	2,586,000	2,102,000	9,201,000	12,482,000	4,344,000	2,880,000	13,223,000
Loan	204,000	0	204,000	0	0	0	0	0	0
Transfer Tax	21,551,000	1,451,000	2,100,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000
Excise Tax - Schools	3,850,000	0	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000
Excise Tax - Roads	1,530,320	270,320	126,000	126,000	126,000	126,000	126,000	126,000	504,000
Excise Tax - Other	319,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	116,000
Excise Tax - Library	149,200	50,200	10,000	10,000	10,000	10,000	10,000	10,000	39,000
Excise Tax - Non-Residential	550,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	200,000
Capital Reserve - General	12,952,631	8,814,631	700,000	0	0	0	0	566,000	2,872,000
Capital Reserve - Utility	1,616,000	47,000	120,000	127,000	119,000	146,000	148,000	150,000	759,000
Capital Reserve - Sewer	1,705,000	373,000	114,000	121,000	121,000	121,000	123,000	125,000	607,000
Capital Reserve - Water	396,000	0	50,000	50,000	50,000	50,000	32,000	32,000	132,000
Federal Grant	42,939,818	8,758,818	8,309,000	2,854,000	3,075,000	2,273,000	2,987,000	3,753,000	10,930,000
State Grant	63,403,315	2,414,315	3,687,000	9,912,000	9,587,000	2,819,000	5,568,000	5,105,000	24,311,000
Contributions	25,917,000	595,000	4,354,000	250,000	0	1,168,000	3,872,000	5,347,000	10,331,000
TOTAL	444,140,874	59,925,874	40,461,000	36,170,000	42,913,000	39,169,000	37,669,000	38,556,000	149,277,000

Project Detail of Major Projects – Fiscal Years 2018-2027

Project Name	Project Description	Ten Year Project Budget
Pavement Maintenance and Rehab Program	This project includes the modification of county-wide pavement maintenance program targeting rehabilitation of county highway pavement, as required. Techniques may include but not be limited to road reclamation, bituminous concrete overlay, crack sealing, and surface treatment. Individual projects will be determined on an annual basis consistent with the County's overall Pavement Management Program.	\$49,093,000
Springfield Middle School Modernization	The project consists of a 133,955 sq ft renovation needed for aging middle school designed for 860 students.	33,020,000
Western Heights Middle School Modernization	The project consists of a 133,955 sq ft renovation needed for aging middle school designed for 860 students.	31,283,000
Sharpsburg Elementary School- Replacement	The project involves construction of 63,818 SF replacement building to support 471 students.	23,874,000
Smithsburg WwTP - ENR Upgrades	The project will upgrade the facility to address Maryland Department of the Environment (MDE) strategy for Enhanced Nutrient Removal (ENR) and expand capacity to address growth needs of the area.	11,199,000
HWY Equip and Vehicle Replacement Program	This project will replace vehicles and heavy/specialized equipment for maintenance and construction activity.	11,100,000
County Rescue Fleet Replacement	The program will purchase (3) engine/tankers and (3) ambulances that will be utilized as a county-wide apparatus reserve fleet. The Reserve Apparatus Vehicle Program will allow the volunteer departments to utilize the apparatus during times when their primary apparatus is not available due to scheduled maintenance or various mechanical issues.	10,080,000

Capital Improvement Ten Year Detail
Fiscal Year 2018 - 2027

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs									
<u>Airport</u>									
Capital Equipment - Airport	4,844,059	959,059	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000
Proposed Taxiway S	1,180,000	0	0	0	0	0	0	0	1,180,000
Land Acquisition - Airport	6,414,000	816,000	2,040,000	0	0	0	0	0	3,558,000
T-Hangar 1, 2 and 3 Replacement	368,000	41,000	31,000	31,000	32,000	32,000	33,000	28,000	140,000
Taxiway T Construction	915,000	0	0	0	159,000	756,000	0	0	0
Runway 9/27 Rehabilitation	2,436,000	0	0	0	0	216,000	1,100,000	1,120,000	0
Taxiway F and H Rehabilitation	2,429,000	0	0	0	0	0	0	0	2,429,000
Air Traffic Control Tower Replacement	256,000	187,000	32,000	0	37,000	0	0	0	0
Passenger Terminal Hold Room Expansion	1,959,000	202,000	612,000	882,000	263,000	0	0	0	0
Airport Security System Enhancements	491,000	331,000	160,000	0	0	0	0	0	0
Airport Roof Replacement Project	231,000	49,000	54,000	55,000	8,000	9,000	9,000	9,000	38,000
Airport Environmental Assessment	835,000	70,000	765,000	0	0	0	0	0	0
Taxiway G Rehabilitation	1,920,000	0	0	0	0	0	0	0	1,920,000
Hangar 17 Addition	204,000	0	204,000	0	0	0	0	0	0
Airport Total	24,482,059	2,655,059	4,255,000	1,332,000	870,000	1,391,000	1,527,000	1,549,000	10,903,000
<u>Bridges</u>									
Bridge Inspection & Inventory	630,525	219,525	29,000	0	165,000	0	22,000	0	195,000
Garis Shop Road Bridge W4021	1,805,800	1,555,800	0	250,000	0	0	0	0	0
Old Roxbury Road Bridge W5372	3,144,077	1,946,077	122,000	546,000	530,000	0	0	0	0
Crystal Falls Drive Bridge W3051	1,594,500	854,500	740,000	0	0	0	0	0	0
Rinehart Road Culvert 14/03	332,000	0	0	31,000	301,000	0	0	0	0
Kretsinger Road Culvert 14/01	316,000	0	0	31,000	285,000	0	0	0	0
Frog Eye Road Culvert 11/06	602,000	0	0	0	0	0	0	0	602,000
Keefer Road Bridge 15/20	199,000	0	0	85,000	114,000	0	0	0	0
Burnside Bridge Road Culvert 01/03	329,000	0	0	0	0	0	114,000	215,000	0
Greenspring Furnace Road Culvert 15/15	398,000	0	0	0	67,000	331,000	0	0	0
Harpers Ferry Road Culvert 11/02	541,000	0	0	0	0	33,000	508,000	0	0
Back Road Culvert 11/03	295,000	0	0	0	32,000	263,000	0	0	0

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Long Hollow Road Culvert 05/07	316,000	0	0	0	0	0	0	0	316,000
Hoffman's Inn Road Culvert 05/06	313,000	0	0	0	0	0	0	0	313,000
Henline Road Culvert 05/05	465,000	0	0	0	0	0	0	0	465,000
Bridge Scour Repairs	528,000	221,000	75,000	0	0	0	0	0	232,000
Bowie Road Culvert	305,000	0	0	0	0	0	0	0	305,000
Remsburg Road Culvert	287,000	0	0	0	0	0	0	0	287,000
Lanes Road Culvert 15/12	317,000	0	0	0	32,000	285,000	0	0	0
Greenbrier Road Culvert 16/14	65,000	0	0	0	0	0	0	0	65,000
Taylors Landing Road Bridge W7101	1,179,000	0	0	0	0	0	0	0	1,179,000
Mooreville Road Culvert 15/21	355,000	0	0	0	0	0	0	0	355,000
Willow Road Culvert 05/10	323,000	0	0	0	0	0	0	0	323,000
Ashton Road Culvert 04/06	30,000	0	0	0	0	0	0	0	30,000
Halfway Boulevard Bridges W0912	2,112,000	0	115,000	0	1,007,000	990,000	0	0	0
Airport Bridge Lighting	125,000	0	125,000	0	0	0	0	0	0
Slabtown Road Bridge	3,800,000	0	0	200,000	0	0	1,000,000	2,600,000	0
Bridges Total	20,706,902	4,796,902	1,206,000	1,143,000	2,533,000	1,902,000	1,644,000	2,815,000	4,667,000
Drainage									
Stream Restoration at Various Locations	2,178,000	229,000	418,000	35,000	42,000	426,000	0	45,000	983,000
Stormwater Retrofits	11,415,900	2,042,900	860,000	878,000	894,000	586,000	1,260,000	945,000	3,950,000
Shank Road Drainage	153,000	0	0	153,000	0	0	0	0	0
Hoffmaster and Harpers Ferry Road Drainage	870,000	0	428,000	442,000	0	0	0	0	0
Harpers Ferry Road Drainage, 3600 Block	376,000	0	0	62,000	314,000	0	0	0	0
Brookfield Avenue Drainage	109,000	0	0	109,000	0	0	0	0	0
Broadfording Church Road Culvert	231,000	0	0	231,000	0	0	0	0	0
Bottom Road Drainage	280,000	256,000	24,000	0	0	0	0	0	0
Chestnut Grove Road Drainage	84,000	0	0	0	84,000	0	0	0	0
Drainage Total	15,696,900	2,527,900	1,730,000	1,910,000	1,334,000	1,012,000	1,260,000	990,000	4,933,000
Board of Education									
Sharpsburg Elementary School-Replacement	23,874,000	0	645,000	8,209,000	10,124,000	4,896,000	0	0	0
Western Heights Middle School Modernization	31,283,000	0	0	0	0	1,168,000	9,708,000	10,997,000	9,410,000
Springfield Middle School Modernization	33,020,000	0	0	0	0	0	0	0	33,020,000
Urban Education Campus-BOE Component	7,000,000	0	4,000,000	3,000,000	0	0	0	0	0
Board of Education Total	95,177,000	0	4,645,000	11,209,000	10,124,000	6,064,000	9,708,000	10,997,000	42,430,000

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
<u>Hagerstown Community College</u>									
Learning Resource Center Renovation	3,221,000	1,190,000	1,085,000	946,000	0	0	0	0	0
Teacher Education Center and Roof Replacement	1,583,000	0	0	0	0	0	0	0	1,583,000
Student Center Parking Lot	697,000	0	35,000	0	662,000	0	0	0	0
SMART/Alternative Energy House/Training Center	2,103,000	150,000	1,150,000	803,000	0	0	0	0	0
Business Incubator/Technical Innovation Center (TIC) Upgrade	4,250,000	0	0	0	280,000	3,970,000	0	0	0
Commercial Transportation Instructional Facility	6,500,000	0	0	0	0	0	0	1,414,000	5,086,000
LRC Exterior Metal Panel System and Roof Replacement	1,685,000	0	0	0	0	118,000	1,567,000	0	0
Hagerstown Community College Total	20,039,000	1,340,000	2,270,000	1,749,000	942,000	4,088,000	1,567,000	1,414,000	6,669,000
<u>Public Libraries</u>									
Systemic Projects - Library	125,300	26,300	10,000	10,000	10,000	10,000	10,000	10,000	39,000
Hancock Public Library Replacement	3,001,000	277,000	10,000	10,000	10,000	78,000	2,616,000	0	0
Public Libraries Total	3,126,300	303,300	20,000	20,000	20,000	88,000	2,626,000	10,000	39,000
<u>General Government</u>									
Contingency - General Fund	1,109,305	124,305	100,000	98,000	99,000	98,000	98,000	99,000	393,000
Bond Issuance Costs	1,105,000	122,000	98,000	98,000	99,000	98,000	98,000	99,000	393,000
Financial System Management & Upgrades	1,769,796	846,796	444,000	208,000	32,000	32,000	33,000	34,000	140,000
General - Equipment and Vehicle Replacement Program	4,837,589	397,589	408,000	416,000	424,000	432,000	440,000	448,000	1,872,000
Demolition of Structures on Various County Properties	110,000	10,000	100,000	0	0	0	0	0	0
County Admin. Building Exterior Enhancements and Site Improvements	1,014,000	357,000	357,000	300,000	0	0	0	0	0
Building Renovations 33-35 W. Washington Street	1,097,000	587,000	510,000	0	0	0	0	0	0
Information Systems Replacement Program	2,230,285	168,285	153,000	166,000	180,000	194,000	209,000	224,000	936,000
Broadband Wireless Network Infrastructure	270,856	133,856	36,000	10,000	11,000	11,000	11,000	11,000	47,000
GIS Planimetric Data Update	150,000	0	74,000	76,000	0	0	0	0	0
Systemic Improvements-Buildings	2,412,828	592,828	49,000	197,000	196,000	197,000	197,000	196,000	788,000
Tree Forestation	173,548	49,548	0	21,000	0	22,000	0	22,000	59,000
General Government Total	16,280,207	3,389,207	2,329,000	1,590,000	1,041,000	1,084,000	1,086,000	1,133,000	4,628,000

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
<u>Parks & Recreation</u>									
BR Capital Equipment Replacement Program	560,666	5,666	51,000	52,000	53,000	54,000	55,000	56,000	234,000
North Central County Park	93,000	0	0	0	0	0	0	0	93,000
Regional Park Equip. Replacement	133,000	41,000	92,000	0	0	0	0	0	0
Chestnut Grove Park, Overlay Parking Lot	42,000	0	0	42,000	0	0	0	0	0
Tennis Courts, Resurfacing	179,300	117,300	20,000	21,000	21,000	0	0	0	0
Ag Center Land Acquisition Development	156,000	0	51,000	52,000	53,000	0	0	0	0
MLS Pool Sun Shades	10,000	0	10,000	0	0	0	0	0	0
Parks & Recreation Total	1,173,966	163,966	224,000	167,000	127,000	54,000	55,000	56,000	327,000
<u>Public Safety</u>									
Communication Tower(s) various locations	522,000	204,000	102,000	0	106,000	0	110,000	0	0
Motorola Portable Radio Replacement Program	1,212,000	102,000	102,000	104,000	106,000	108,000	110,000	112,000	468,000
Detention Center - Systemic Projects	3,215,000	500,000	255,000	260,000	265,000	270,000	275,000	280,000	1,110,000
Police, Fire and Emerg Svcs Training Facility	5,000,000	612,000	3,328,000	1,060,000	0	0	0	0	0
Emergency Svcs Equip & Vehicle Program	3,038,183	1,039,183	200,000	200,000	200,000	200,000	200,000	200,000	799,000
County Rescue Fleet Replacement	10,080,000	0	0	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000
Volunteer Fire Services Apparatus Reserve Fleet	2,220,000	0	204,000	208,000	212,000	216,000	220,000	224,000	936,000
Law Enforcement - Vehicle and Equipment Replacement Program	8,285,422	657,422	616,000	603,000	683,000	702,000	726,000	795,000	3,503,000
Public Safety Total	33,572,605	3,114,605	4,807,000	3,475,000	2,632,000	2,576,000	2,741,000	2,731,000	11,496,000
<u>Railroad Crossings</u>									
Railroad Crossing Improvements	1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000
Railroad Crossings Total	1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000
<u>Road Improvement</u>									
Pavement Maintenance and Rehab Program	58,170,178	9,077,178	4,080,000	5,000,000	5,000,000	5,000,000	5,001,000	5,000,000	20,012,000
Longmeadow Road	529,000	0	0	0	0	0	0	0	529,000
Eastern Boulevard Extended	9,686,000	0	0	0	0	0	1,100,000	2,912,000	5,674,000
Southern Boulevard Phase I	9,818,100	9,544,100	274,000	0	0	0	0	0	0
E. Oak Ridge Drive/South Pointe Signal	332,000	0	0	0	111,000	0	221,000	0	0
Eastern Boulevard Widening Phase II	5,272,300	1,836,300	0	780,000	2,359,000	297,000	0	0	0

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Transportation ADA	1,108,450	268,450	83,000	83,000	83,000	82,000	83,000	84,000	342,000
Halfway Boulevard Extended Phase I	2,049,000	0	900,000	1,000,000	149,000	0	0	0	0
Eastern Blvd at Antietam Drive Improvements	2,506,000	2,256,000	250,000	0	0	0	0	0	0
Showalter Road Extended East	510,000	0	510,000	0	0	0	0	0	0
Colonel Henry K Douglas Drive Extended Bridge	2,785,000	0	0	0	0	0	0	0	2,785,000
Professional Boulevard Extended - Phase II	5,465,200	1,414,200	1,200,000	531,000	2,028,000	292,000	0	0	0
Professional Boulevard Bridge - Phase I	8,607,000	6,081,000	759,000	1,767,000	0	0	0	0	0
Marsh Pike from MD60 to Longmeadow	1,837,000	0	0	0	0	0	0	0	1,837,000
Mt Aetna Road Spot Improvements	2,399,000	0	0	0	0	0	0	0	2,399,000
Burnside Bridge Road Spot Improvements	544,000	0	0	0	0	0	0	0	544,000
Valley Mall Area Road Improvements Phase II	992,000	0	0	0	0	0	825,000	167,000	0
Medical Campus Road Signal	423,000	0	423,000	0	0	0	0	0	0
Bucky Avenue	355,000	0	0	0	0	0	0	0	355,000
Colonel Henry K. Douglas Drive Extended Phase I	3,220,000	1,020,000	2,200,000	0	0	0	0	0	0
Professional Boulevard Extended - Phase III	1,693,000	0	0	0	0	640,000	1,053,000	0	0
Professional Boulevard Extended - Phase IV	1,826,000	0	0	0	0	0	0	224,000	1,602,000
Crayton Boulevard Extended	3,304,000	2,165,000	800,000	88,000	251,000	0	0	0	0
Halfway Boulevard Extended Bridge / Phase II	2,000,000	0	0	0	0	0	0	0	2,000,000
HWY Equip and Vehicle Replacement Program	11,573,144	473,144	1,020,000	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000
Highway Maintenance Shop - Western Section	374,000	241,000	133,000	0	0	0	0	0	0
HWY Western Section - Fuel Tank Replacement	847,000	198,000	96,000	192,000	193,000	168,000	0	0	0
Road Improvement Total	138,225,372	34,574,372	12,728,000	10,481,000	11,234,000	7,559,000	9,383,000	9,507,000	42,759,000
Solid Waste									
Contingency - Solid Waste	147,000	87,000	0	0	0	0	0	0	60,000
Close Out Cap - Rubble Fill	2,092,000	0	0	0	0	0	100,000	1,992,000	0
40 West Truck Loading Facility Rehab & Upgrades	106,000	0	0	0	106,000	0	0	0	0
40 West Pavement Rehab and Bridge Repair	696,000	0	0	0	0	0	0	0	696,000
Seal Coating Closed Facilities	783,000	0	0	0	0	0	783,000	0	0
40 West Partial Capping	3,051,000	0	0	0	0	3,051,000	0	0	0
City County Upgrades	2,340,000	0	0	0	0	0	0	0	2,340,000

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
City County Gas Mitigation	1,674,000	822,000	852,000	0	0	0	0	0	0
Kaetzel Transfer Station Retaining Wall Replacement	177,000	0	0	177,000	0	0	0	0	0
SW Equip/Vehicle Replacement Program	347,000	67,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Resh Road Pavement Rehabilitation	1,060,000	0	0	0	1,060,000	0	0	0	0
Transfer Station Upgrades	232,000	0	0	0	0	0	0	0	232,000
Solid Waste Total	12,705,000	976,000	878,000	203,000	1,193,000	3,078,000	911,000	2,020,000	3,446,000

Transit

Fixed Route Bus Replacement Program	4,748,000	0	2,994,000	0	1,037,000	0	717,000	0	0
ADA Bus Replacement	544,915	137,915	0	0	0	97,000	0	101,000	209,000
Vehicle Maintenance Program	4,176,000	291,000	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000
Transit Total	9,468,915	428,915	3,351,000	364,000	1,408,000	475,000	1,102,000	493,000	1,847,000

Water Quality**Utility Administration**

General Building Improvements	1,393,000	101,000	0	520,000	594,000	25,000	24,000	25,000	104,000
Laboratory Rehab of Ventilation System	255,000	0	255,000	0	0	0	0	0	0
WQ Equip/Vehicle Replacement Program	1,377,234	224,234	94,000	96,000	98,000	99,000	102,000	103,000	561,000
SCADA Replacement	300,000	0	0	0	0	0	0	0	300,000
Lab Equipment Replacement	285,000	47,000	26,000	31,000	21,000	22,000	22,000	22,000	94,000
Utility Administration Total	3,610,234	372,234	375,000	647,000	713,000	146,000	148,000	150,000	1,059,000

Wastewater Utility

Smithsburg WwTP - ENR Upgrades	12,694,387	1,495,387	408,000	0	5,391,000	5,400,000	0	0	0
Pump Station Upgrades - Various Stations	1,909,683	1,024,683	0	0	0	0	0	0	885,000
Replace PO 2 Pump Station	1,426,000	0	0	0	0	0	0	1,426,000	0
Potomac Edison Pump Station & Force Main	1,632,000	0	0	0	0	0	0	1,632,000	0
Antietam WwTP - ENR Upgrades	4,152,000	622,000	0	0	0	0	0	0	3,530,000
General WwTP Improvements	3,286,000	0	0	0	0	0	986,000	0	2,300,000
Collection System Rehabilitation Project	3,755,087	13,087	357,000	780,000	0	0	275,000	560,000	1,770,000
Sandy Hook WwTP	770,000	0	0	0	0	0	770,000	0	0
Heavy Sewer EQP and VEH Replacement	912,000	315,000	88,000	95,000	74,000	39,000	39,000	40,000	222,000
Replace Grinder Pumps	761,000	26,000	26,000	26,000	47,000	82,000	84,000	85,000	385,000
Capacity Management Project	9,723,000	1,173,000	510,000	520,000	3,180,000	3,240,000	1,100,000	0	0
Wastewater Utility Total	41,021,157	4,669,157	1,389,000	1,421,000	8,692,000	8,761,000	3,254,000	3,743,000	9,092,000

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Water Utility									
WQ Water Meter Replacement	557,095	161,095	50,000	50,000	50,000	50,000	32,000	32,000	132,000
General WTP Improvements	884,325	62,325	0	0	0	242,000	0	0	580,000
Sharpsburg Water Treatment Plant	794,000	0	204,000	0	0	0	0	0	590,000
Mt Aetna Water System Improvements	729,000	0	0	130,000	0	599,000	0	0	0
Highfield/Sharpsburg Water Storage Tank	330,000	0	0	0	0	0	330,000	0	0
WQ Main Replacement	3,588,000	0	0	0	0	0	0	616,000	2,972,000
Water Utility Total	6,882,420	223,420	254,000	180,000	50,000	891,000	362,000	648,000	4,274,000
Water Quality Total	51,513,811	5,264,811	2,018,000	2,248,000	9,455,000	9,798,000	3,764,000	4,541,000	14,425,000
TOTAL	444,140,874	59,925,874	40,461,000	36,170,000	42,913,000	39,169,000	37,669,000	38,556,000	149,277,000

Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Funding Sources									
General Fund	73,568,679	16,254,679	5,000,000	5,500,000	5,500,000	4,849,000	5,500,000	5,483,000	25,482,000
Highway Fund	5,169,000	225,000	466,000	542,000	593,000	593,000	425,000	450,000	1,875,000
Hotel Rental Fund	533,000	533,000	0	0	0	0	0	0	0
Solid Waste Fund	453,000	113,000	26,000	26,000	27,000	27,000	28,000	28,000	178,000
Utility Admin Fund	325,234	325,234	0	0	0	0	0	0	0
Water Fund	161,095	161,095	0	0	0	0	0	0	0
Sewer Fund	2,766,157	2,766,157	0	0	0	0	0	0	0
Airport Fund	813,000	244,000	145,000	86,000	40,000	41,000	42,000	37,000	178,000
Tax Supported Bond	134,036,100	14,036,100	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	48,000,000
Self Supported Bond	49,232,325	2,414,325	2,586,000	2,102,000	9,201,000	12,482,000	4,344,000	2,880,000	13,223,000
Loan	204,000	0	204,000	0	0	0	0	0	0
Transfer Tax	21,551,000	1,451,000	2,100,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000
Excise Tax - Schools	3,850,000	0	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000
Excise Tax - Roads	1,530,320	270,320	126,000	126,000	126,000	126,000	126,000	126,000	504,000
Excise Tax - Other	319,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	116,000
Excise Tax - Library	149,200	50,200	10,000	10,000	10,000	10,000	10,000	10,000	39,000
Excise Tax - Non-Residential	550,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	200,000
Capital Reserve - General	12,952,631	8,814,631	700,000	0	0	0	0	566,000	2,872,000
Capital Reserve - Utility	1,616,000	47,000	120,000	127,000	119,000	146,000	148,000	150,000	759,000
Capital Reserve - Sewer	1,705,000	373,000	114,000	121,000	121,000	121,000	123,000	125,000	607,000
Capital Reserve - Water	396,000	0	50,000	50,000	50,000	50,000	32,000	32,000	132,000
Federal Grant	42,939,818	8,758,818	8,309,000	2,854,000	3,075,000	2,273,000	2,987,000	3,753,000	10,930,000
State Grant	63,403,315	2,414,315	3,687,000	9,912,000	9,587,000	2,819,000	5,568,000	5,105,000	24,311,000
Contributions	25,917,000	595,000	4,354,000	250,000	0	1,168,000	3,872,000	5,347,000	10,331,000
TOTAL	444,140,874	59,925,874	40,461,000	36,170,000	42,913,000	39,169,000	37,669,000	38,556,000	149,277,000

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Airport

Airport
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Budget Year				Ten Year Capital Program				
		Total	Prior Appr.	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
<u>Airport</u>										
46	Capital Equipment - Airport	4,844,059	959,059	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000
47	Proposed Taxiway S	1,180,000	0	0	0	0	0	0	0	1,180,000
48	Land Acquisition - Airport	6,414,000	816,000	2,040,000	0	0	0	0	0	3,558,000
49	T-Hangar 1, 2 and 3 Replacement	368,000	41,000	31,000	31,000	32,000	32,000	33,000	28,000	140,000
50	Taxiway T Construction	915,000	0	0	0	159,000	756,000	0	0	0
51	Runway 9/27 Rehabilitation	2,436,000	0	0	0	0	216,000	1,100,000	1,120,000	0
52	Taxiway F and H Rehabilitation	2,429,000	0	0	0	0	0	0	0	2,429,000
53	Air Traffic Control Tower Replacement	256,000	187,000	32,000	0	37,000	0	0	0	0
54	Passenger Terminal Hold Room Expansion	1,959,000	202,000	612,000	882,000	263,000	0	0	0	0
55	Airport Security System Enhancements	491,000	331,000	160,000	0	0	0	0	0	0
56	Airport Roof Replacement Project	231,000	49,000	54,000	55,000	8,000	9,000	9,000	9,000	38,000
57	Aiport Environmental Assessment	835,000	70,000	765,000	0	0	0	0	0	0
58	Taxiway G Assessment	1,920,000	0	0	0	0	0	0	0	1,920,000
59	Hangar 17 Addition	204,000	0	204,000	0	0	0	0	0	0
Airport Total		24,482,059	2,655,059	4,255,000	1,332,000	870,000	1,391,000	1,527,000	1,549,000	10,903,000
Funding Sources										
	General Fund	1,376,351	153,351	200,000	65,000	82,000	77,000	86,000	91,000	622,000
	Airport Fund	813,000	244,000	145,000	86,000	40,000	41,000	42,000	37,000	178,000
	Loan	204,000	0	204,000	0	0	0	0	0	0
	Capital Reserve - General	204,800	204,800	0	0	0	0	0	0	0
	Federal Grant	20,217,408	1,714,408	3,429,000	1,109,000	695,000	1,189,000	1,305,000	1,323,000	9,453,000
	State Grant	1,666,500	338,500	277,000	72,000	53,000	84,000	94,000	98,000	650,000
		24,482,059	2,655,059	4,255,000	1,332,000	870,000	1,391,000	1,527,000	1,549,000	10,903,000

Project Title: Capital Equipment - Airport

Project Number: 139

Account Number: EQP031

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

FY2018 Planned acquisitions pending Maryland Aviation Administration grant funding:
Replace Mower 2 (airfield flail mower)
Replace Airport 2 (2003 Chevrolet Silverado)

Assumptions & Justifications:

Pending FAA grant funding as follows:
90% Federal funding
5% State funding
5% Local funding

Pending Maryland Aviation Administration (MAA) grant funding:
75% MAA funding
25% Local funding

The Airport maintains an inventory of specialized heavy equipment and vehicles, including a fire apparatus for maintenance activities. Each year, the equipment is identified if replacement is necessary based on age and life expectancy. The goal of the replacement program is to balance replacement costs versus maintenance costs. In line with objectives of a well-managed organization, the Airport strives to establish an equipment replacement program that will set the equipment replacement cycle in line with best practices, minimizing maintenance costs.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	4,844,059	959,059	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000
Total Cost	4,844,059	959,059	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000

Funding Sources:

General Fund	427,351	102,351	17,000	21,000	24,000	28,000	31,000	35,000	169,000
Airport Fund	0	0	0	0	0	0	0	0	0
Capital Reserve - General	17,800	17,800	0	0	0	0	0	0	0
Federal Grant	3,963,408	798,408	315,000	315,000	315,000	315,000	315,000	315,000	1,275,000
State Grant	435,500	40,500	25,000	28,000	32,000	35,000	39,000	42,000	194,000
Total Funding	4,844,059	959,059	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000

Project Title: Proposed Taxiway S**Project Number:** 143**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

The project consists of the design and construction of a new taxiway to connect Runway 27 run-up area to lands north of the Airport.

Assumptions & Justifications:

Pending grant funding approval
 90% Federal Aviation Administration funding anticipated
 5% Maryland Aviation Administration funding anticipated
 5% Local funding

Land is identified for future development of the Airport. A connector taxiway is required to provide access to that land.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	1,180,000	0	0	0	0	0	0	0	1,180,000
Construction	0	0	0	0	0	0	0	0	0
Total Cost	1,180,000	0	0	0	0	0	0	0	1,180,000

Funding Sources:

General Fund	59,000	0	0	0	0	0	0	0	59,000
Federal Grant	1,062,000	0	0	0	0	0	0	0	1,062,000
State Grant	59,000	0	0	0	0	0	0	0	59,000
Federal Funding	0	0	0	0	0	0	0	0	0
State Funding	0	0	0	0	0	0	0	0	0
Total Funding	1,180,000	0	0	0	0	0	0	0	1,180,000

Project Title: Land Acquisition - Airport

Project Number: 930

Account Number: LAN018

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is for land acquisition to promote future economic development of the Airport.

Assumptions & Justifications:

Pending grant funding approval
 90% Federal Aviation Administration funding anticipated
 5% Maryland Aviation Administration funding anticipated
 5% Local funding

The new Airport Layout Plan will identify land recommended to be acquired to enhance future development of the Airport.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	6,414,000	816,000	2,040,000	0	0	0	0	0	3,558,000
Total Cost	6,414,000	816,000	2,040,000	0	0	0	0	0	3,558,000

Funding Sources:

General Fund	320,000	41,000	102,000	0	0	0	0	0	177,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	5,772,000	734,000	1,836,000	0	0	0	0	0	3,202,000
State Grant	322,000	41,000	102,000	0	0	0	0	0	179,000
Total Funding	6,414,000	816,000	2,040,000	0	0	0	0	0	3,558,000

Project Title: T-Hangar 1, 2 and 3 Replacement

Project Number: 1154

Account Number: BLD087

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project includes the demolition of existing T-hangars and the construction of new replacement T-hangars 1, 2 and 3. The total building size is 38,400 SF.

Assumptions & Justifications:

The project assumes a pre-engineered metal building.

It is not anticipated that Federal Aviation Administration funding will be available for this project. Local and airport funds will be contributed each year to build un funds until the total requirement is achieved.

Existing buildings were built between 1963 and 1965 and have exceeded their useful life expectancy. Buildings have stone floors, and wood structural members. Doors are nonelectric manual open which is problematic and creates a continual maintenance problem.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	82,000	0	0	0	0	32,000	33,000	17,000	0
Construction	286,000	41,000	31,000	31,000	32,000	0	0	11,000	140,000
Total Cost	368,000	41,000	31,000	31,000	32,000	32,000	33,000	28,000	140,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Airport Fund	368,000	41,000	31,000	31,000	32,000	32,000	33,000	28,000	140,000
Federal Grant	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	368,000	41,000	31,000	31,000	32,000	32,000	33,000	28,000	140,000

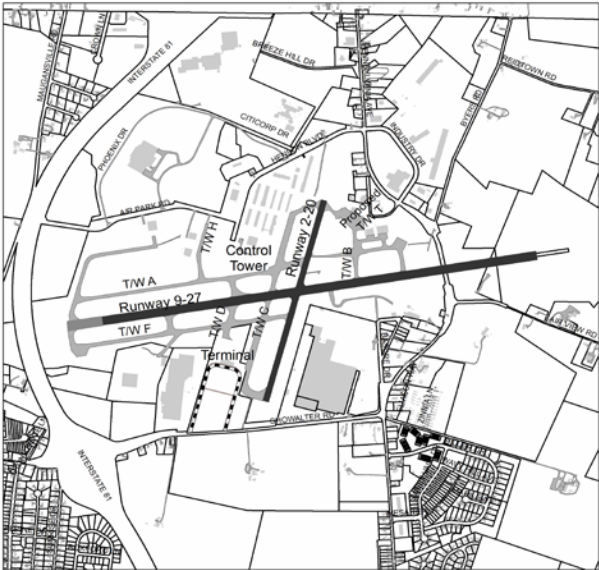
Project Title: Taxiway T Construction

Project Number: 1189

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project consists of the construction of a new taxiway to access aviation facilities off of Pennsylvania Avenue.

Assumptions & Justifications:

- 90% Federal Aviation Administration funding anticipated
- 5% Maryland Aviation Administration funding anticipated
- 5% Local funding

As the area north of Nick's Airport Inn develops, there will need to be a taxiway to access the rear of these facilities.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	159,000	0	0	0	159,000	0	0	0	0
Construction	756,000	0	0	0	0	756,000	0	0	0
Total Cost	915,000	0	0	0	159,000	756,000	0	0	0

Funding Sources:

General Fund	46,000	0	0	0	8,000	38,000	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	823,000	0	0	0	143,000	680,000	0	0	0
State Grant	46,000	0	0	0	8,000	38,000	0	0	0
Total Funding	915,000	0	0	0	159,000	756,000	0	0	0

Project Title: Runway 9/27 Rehabilitation

Project Number: 1190

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project consists of the rehabilitation of 7,000' Runway 9/27.

Assumptions & Justifications:

- 90% Federal Aviation Administration funding anticipated
- 5% Maryland Aviation Administration funding anticipated
- 5% Local funding

The existing runway will be ten-years old in 2017 and will be in need of sub-surface repairs, milling, overlay, painting and new energy efficient lighting.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	216,000	0	0	0	0	216,000	0	0	0
Construction	2,220,000	0	0	0	0	0	1,100,000	1,120,000	0
Total Cost	2,436,000	0	0	0	0	216,000	1,100,000	1,120,000	0

Funding Sources:

General Fund	122,000	0	0	0	0	11,000	55,000	56,000	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	2,192,000	0	0	0	0	194,000	990,000	1,008,000	0
State Grant	122,000	0	0	0	0	11,000	55,000	56,000	0
Total Funding	2,436,000	0	0	0	0	216,000	1,100,000	1,120,000	0

Project Title: Taxiway F and H Rehabilitation

Project Number: 1191

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

Taxiway F and H will be in need of total rehabilitation.

Assumptions & Justifications:

- 90% Federal Aviation Administration funding anticipated
- 5% Maryland Aviation Administration funding anticipated
- 5% Local funding

The project will involve sub-surface repairs, milling, overlay, painting and new LED lighting installation.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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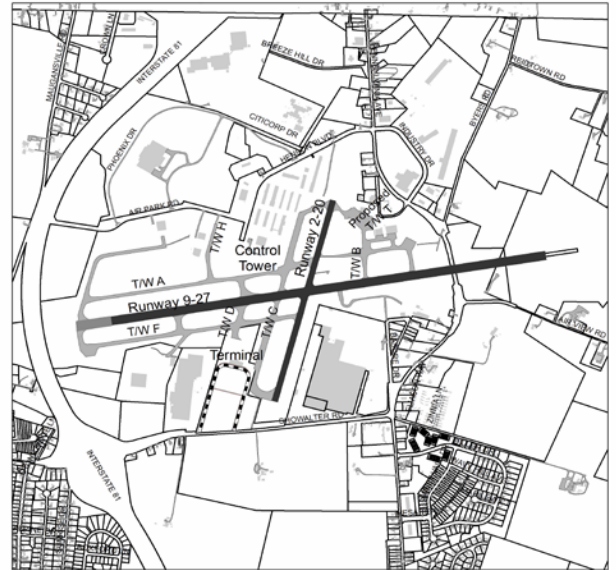
Project Costs:

Engineering/Design	117,000	0	0	0	0	0	0	0	117,000
Construction	2,312,000	0	0	0	0	0	0	0	2,312,000
Total Cost	2,429,000	0	0	0	0	0	0	0	2,429,000

Funding Sources:

General Fund	121,000	0	0	0	0	0	0	0	121,000
Federal Grant	2,186,000	0	0	0	0	0	0	0	2,186,000
State Grant	122,000	0	0	0	0	0	0	0	122,000
Total Funding	2,429,000	0	0	0	0	0	0	0	2,429,000

Projected Operating Costs: \$0



The existing air traffic control tower was constructed at HGR in 1974. At that time, it was a used tower that was disassembled and delivered to HGR. The tower proves to be inadequate to serve the present and future needs of HGR and needs to be replaced.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Engineering/Design	256,000	187,000	32,000	0	37,000	0	0	0	0
Total Cost	256,000	187,000	32,000	0	37,000	0	0	0	0

General Fund	69,000	0	32,000	0	37,000	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	187,000	187,000	0	0	0	0	0	0	0
Total Funding	256,000	187,000	32,000	0	37,000	0	0	0	0

Projected Operating Costs: \$2,000



The current security hold room is configured to accommodate up to 100 passengers. We currently host service from Allegiant using MD-83 aircraft configured to accommodate 166 passengers. In the near future, they anticipate flights utilizing an Airbus 320 configured with 177 seats. It is our desire to add on to the existing hold room and increase the capacity to plan for current and future needs.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	202,000	202,000	0	0	0	0	0	0	0
Construction	1,757,000	0	612,000	882,000	263,000	0	0	0	0
Total Cost	1,959,000	202,000	612,000	882,000	263,000	0	0	0	0

Funding Sources:

General Fund	97,000	10,000	30,000	44,000	13,000	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Federal Grant	1,764,000	182,000	551,000	794,000	237,000	0	0	0	0
State Grant	98,000	10,000	31,000	44,000	13,000	0	0	0	0
Total Funding	1,959,000	202,000	612,000	882,000	263,000	0	0	0	0

Project Title: Airport Security System Enhancements

Project Number: 1238

Account Number: COM026

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

Airfield and Business Park Closed Circuit Television (CCTV) Cameras will be replaced with high-quality digital cameras and integrated into the Airport Virtual Perimeter Monitoring System. Additional cameras will also be installed to enhance security coverage of the airport.

Assumptions & Justifications:

Maryland Aviation Administration Funding is anticipated in FY2018

75% MAA share

25% Local share

The CCTV camera technology on the airfield and in the business park is outdated and needs to be replaced and additional cameras need to be added. It is imperative that we have a working security system covering the entire airport.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	41,000	41,000	0	0	0	0	0	0	0
Construction	165,000	165,000	0	0	0	0	0	0	0
Equipment/Furniture	285,000	125,000	160,000	0	0	0	0	0	0
Total Cost	491,000	331,000	160,000	0	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Airport Fund	144,000	84,000	60,000	0	0	0	0	0	0
State Grant	347,000	247,000	100,000	0	0	0	0	0	0
Total Funding	491,000	331,000	160,000	0	0	0	0	0	0

Project Title: Airport Roof Replacement Project

Project Number: 1271

Account Number: BLD088

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

Project will replace or refurbish various roof systems at the airport.

Assumptions & Justifications:

FY2018:

Hangar 15 Roof coating system

Residential roof replacement 14320 Pennsylvania Ave (house and garage)

Residential roof replacement 14612 Pennsylvania Ave

FY2019

Hangar 18 Roof coating system

An ongoing roof replacement/rehabilitation plan is necessary for all airport facilities. Airport will contribute funds on an annual basis to provide for this replacement plan.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	231,000	49,000	54,000	55,000	8,000	9,000	9,000	9,000	38,000
Total Cost	231,000	49,000	54,000	55,000	8,000	9,000	9,000	9,000	38,000

Funding Sources:

Airport Fund	231,000	49,000	54,000	55,000	8,000	9,000	9,000	9,000	38,000
Total Funding	231,000	49,000	54,000	55,000	8,000	9,000	9,000	9,000	38,000

Project Title: Airport Environmental Assessment

Project Number: 1316

Account Number: STY022

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

An Environmental Assessment (EA) will be performed on land that is in the Runway 2/20 Runway Visibility Zone (RVZ) and Taxiway Object Free Area (TOFA).

Assumptions & Justifications:

It is anticipated that Federal Aviation Administration (FAA) will provide grant funding in the amount of:
95% FAA
2.5% Maryland Aviation Administration
2.5% Local funding

EA need to be completed on lands required to be purchased by FAA that are in the Runway 2/20 RVZ and ROFA.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Planning	835,000	70,000	765,000	0	0	0	0	0	0
Total Cost	835,000	70,000	765,000	0	0	0	0	0	0

Funding Sources:

General Fund	19,000	0	19,000	0	0	0	0	0	0
Airport Fund	70,000	70,000	0	0	0	0	0	0	0
Federal Grant	727,000	0	727,000	0	0	0	0	0	0
State Grant	19,000	0	19,000	0	0	0	0	0	0
Total Funding	835,000	70,000	765,000	0	0	0	0	0	0

Projected Operating Costs: \$0



The last rehabilitation of the taxiway was completed in 2008. This will make the existing surface approximately 20 years old in 2027 and it will have met the end of its useful life and will be ready for rehabilitation.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Title: Hangar 17 Addition

Project Number: 1322

Account Number: BLD097

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

A 20' x 90' area was identified for expansion to increase workspace by 1,800 sq. ft. at Hangar 17.

Assumptions & Justifications:

The airport would seek a loan from the County for this project and pay it back over a 10-year period. Grant funding would also be sought for this project.

The current tenant is seeking additional workspace due to overcrowding in the existing facility.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	204,000	0	204,000	0	0	0	0	0	0
Total Cost	204,000	0	204,000	0	0	0	0	0	0

Funding Sources:

Airport Fund	0	0	0	0	0	0	0	0	0
Loan	204,000	0	204,000	0	0	0	0	0	0
Total Funding	204,000	0	204,000	0	0	0	0	0	0

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Bridges

Bridges
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Budget Year				Ten Year Capital Program				
		Total	Prior Appr.	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
Bridges										
62	Bridge Inspection & Inventory	630,525	219,525	29,000	0	165,000	0	22,000	0	195,000
63	Garis Shop Road Bridge W4021	1,805,800	1,555,800	0	250,000	0	0	0	0	0
64	Old Roxbury Road Bridge W5372	3,144,077	1,946,077	122,000	546,000	530,000	0	0	0	0
65	Crystal Falls Drive Bridge W3051	1,594,500	854,500	740,000	0	0	0	0	0	0
66	Rinehart Road Culvert 14/03	332,000	0	0	31,000	301,000	0	0	0	0
67	Kretsinger Road Culvert 14/01	316,000	0	0	31,000	285,000	0	0	0	0
68	Frog Eye Road Culvert 11/06	602,000	0	0	0	0	0	0	0	602,000
69	Keefer Road Bridge 15/20	199,000	0	0	85,000	114,000	0	0	0	0
70	Burnside Bridge Road Culvert 01/03	329,000	0	0	0	0	0	114,000	215,000	0
71	Greenspring Furnace Road Culvert 15/15	398,000	0	0	0	67,000	331,000	0	0	0
72	Harpers Ferry Road Culvert 11/02	541,000	0	0	0	0	33,000	508,000	0	0
73	Back Road Culvert 11/03	295,000	0	0	0	32,000	263,000	0	0	0
74	Long Hollow Road Culvert 05/07	316,000	0	0	0	0	0	0	0	316,000
75	Hoffman's Inn Road Culvert 05/06	313,000	0	0	0	0	0	0	0	313,000
76	Henline Road Culvert 05/05	465,000	0	0	0	0	0	0	0	465,000
77	Bridge Scour Repairs	528,000	221,000	75,000	0	0	0	0	0	232,000
78	Bowie Road Culvert	305,000	0	0	0	0	0	0	0	305,000
79	Remsburg Road Culvert	287,000	0	0	0	0	0	0	0	287,000
80	Lanes Road Culvert 15/12	317,000	0	0	0	32,000	285,000	0	0	0
81	Greenbrier Road Culvert 16/14	65,000	0	0	0	0	0	0	0	65,000
82	Taylors Landing Road Bridge W7101	1,179,000	0	0	0	0	0	0	0	1,179,000
83	Mooreville Road Culvert 15/21	355,000	0	0	0	0	0	0	0	355,000
84	Willow Road Culvert 05/10	323,000	0	0	0	0	0	0	0	323,000
85	Ashton Road Culvert 04/06	30,000	0	0	0	0	0	0	0	30,000
86	Halfway Boulevard Bridges W0912	2,112,000	0	115,000	0	1,007,000	990,000	0	0	0
87	Airport Bridge Lighting	125,000	0	125,000	0	0	0	0	0	0
88	Slabtown Road Bridge	3,800,000	0	0	200,000	0	0	1,000,000	2,600,000	0
Bridges Total		20,706,902	4,796,902	1,206,000	1,143,000	2,533,000	1,902,000	1,644,000	2,815,000	4,667,000
Funding Sources										
	General Fund	2,856,502	1,180,502	255,000	0	565,000	0	22,000	0	834,000
	Tax Supported Bond	9,316,700	652,700	589,000	727,000	715,000	1,198,000	822,000	780,000	3,833,000
	Capital Reserve - General	268,000	268,000	0	0	0	0	0	0	0
	Federal Grant	8,265,700	2,695,700	362,000	416,000	1,253,000	704,000	800,000	2,035,000	0
		20,706,902	4,796,902	1,206,000	1,143,000	2,533,000	1,902,000	1,644,000	2,815,000	4,667,000

Project Title: Bridge Inspection & Inventory

Project Number: 40

Account Number: BRG002

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project provides an ongoing bridge inspection program for both major (bridges greater than 20 feet in length) and minor (bridges greater than 6 but less than 20 feet in length) structures. Federal regulations govern the major structures inspection program.

Assumptions & Justifications:

Federal aid bridge funds cover all of the costs for the major bridges. They are not shown herein since they are paid directly by the State Highway Administration to the consultant, and do not pass through the County's records. Only local funds required are shown below. Minor structures are fully locally funded as they are not eligible for any federal aid money.

Various portions of this project are required by State and Federal regulations, while other portions are done as needed to assure public safety and to minimize maintenance costs. This project supports the infrastructure needs of the County under its bridge infrastructure program.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	630,525	219,525	29,000	0	165,000	0	22,000	0	195,000
Total Cost	630,525	219,525	29,000	0	165,000	0	22,000	0	195,000

Funding Sources:

General Fund	592,525	181,525	29,000	0	165,000	0	22,000	0	195,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	38,000	38,000	0	0	0	0	0	0	0
Total Funding	630,525	219,525	29,000	0	165,000	0	22,000	0	195,000

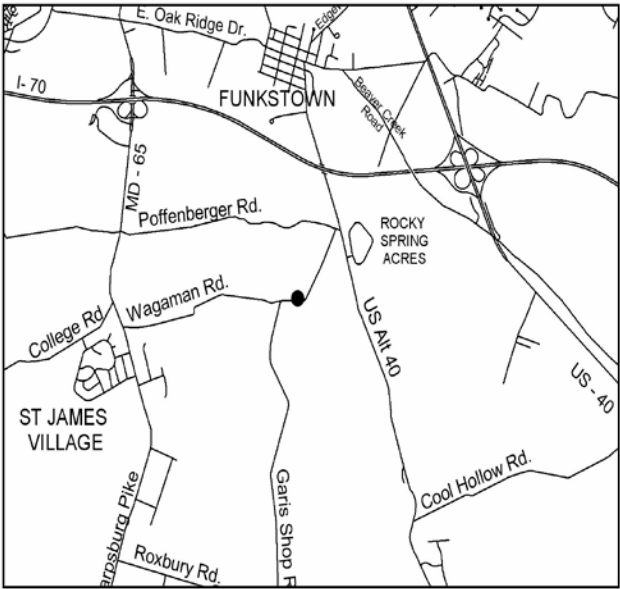
Project Title:Garis Shop Road Bridge W4021

Project Number:54

Account Number:BRG061

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

This project is located in the 10000 block of Garis Shop Road (ADC Map 26, Grid F-2). Rehabilitate stone arch structure. Structure is considered eligible for the National Register of Historic Places. Rehabilitation will include concrete fill, traffic barrier upgrades, scour repair, and repointing. Bridge Sufficiency Rating is 40.1 out of a maximum possible score of 100.

Assumptions & Justifications:

Project is proposed as a Federal Aid project with 80/20 cost share. It is assumed that project design will be combined with Leiters Mill Road Bridge W2292.

Needed to maintain bridge in a serviceable condition and to protect historical considerations. Pending grant funding approval.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	251,900	251,900	0	0	0	0	0	0	0
Land Acquisition	5,100	5,100	0	0	0	0	0	0	0
Construction	1,462,000	1,212,000	0	250,000	0	0	0	0	0
Inspection	86,800	86,800	0	0	0	0	0	0	0
Total Cost	1,805,800	1,555,800	0	250,000	0	0	0	0	0

Funding Sources:

General Fund	173,100	173,100	0	0	0	0	0	0	0
Tax Supported Bond	394,800	144,800	0	250,000	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Federal Grant	1,237,900	1,237,900	0	0	0	0	0	0	0
Bond Proceeds	0	0	0	0	0	0	0	0	0
Federal Funding	0	0	0	0	0	0	0	0	0
Total Funding	1,805,800	1,555,800	0	250,000	0	0	0	0	0

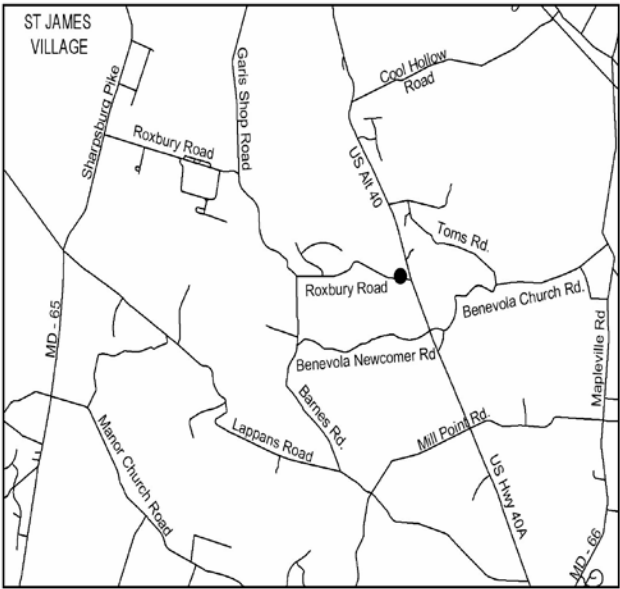
Project Title:Old Roxbury Road Bridge W5372

Project Number:56

Account Number:BRG020

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

This project involves the replacement of an existing one lane, two span bridge with a two lane multiple span bridge. The existing bridge has flooding issues and is structurally deficient and functionally obsolete.

Assumptions & Justifications:

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The project is needed to replace a structure that has exceeded its useful life and to improve safety. Due to the structure type, no practical long term repair options exist. The Bridge Sufficiency Rating is 13.6 out of a maximum possible score of 100.

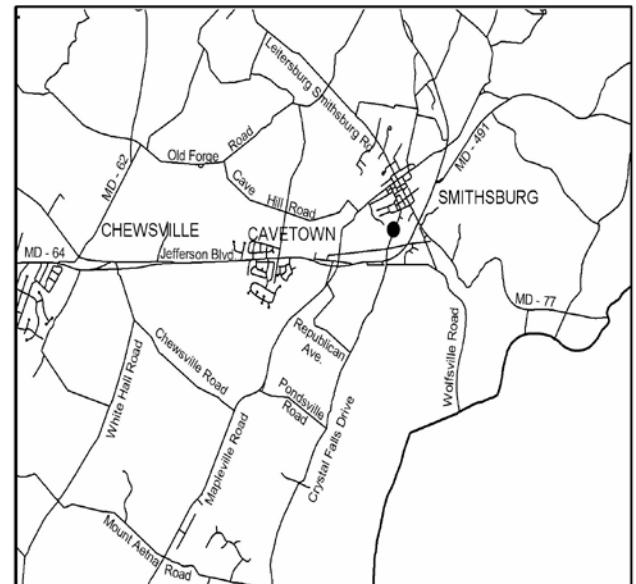
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	137,177	137,177	0	0	0	0	0	0	0
Land Acquisition	281,000	281,000	0	0	0	0	0	0	0
Construction	2,675,700	1,503,700	122,000	520,000	530,000	0	0	0	0
Inspection	50,200	24,200	0	26,000	0	0	0	0	0
Total Cost	3,144,077	1,946,077	122,000	546,000	530,000	0	0	0	0

Funding Sources:

General Fund	720,177	596,177	26,000	0	98,000	0	0	0	0
Tax Supported Bond	637,900	507,900	0	130,000	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	26,000	26,000	0	0	0	0	0	0	0
Federal Grant	1,760,000	816,000	96,000	416,000	432,000	0	0	0	0
Bond Proceeds	0	0	0	0	0	0	0	0	0
Total Funding	3,144,077	1,946,077	122,000	546,000	530,000	0	0	0	0

Project Title: Crystal Falls Drive Bridge W3051**Project Number:** 1019**Account Number:** BRG030**Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

This project is located just outside Smithsburg town limits on Crystal Falls Drive (ADC Map 23, F-4). The project will replace a two span concrete bridge with a two cell concrete box culvert and include traffic barrier approach road improvements.

Assumptions & Justifications:

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The project is needed to replace a structure that is nearing the end of its useful life and to improve safety. Due to the structure type, no practical long term repair options exist. The Bridge Sufficiency Rating is 42.5 out of a maximum possible score of 100.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	353,500	353,500	0	0	0	0	0	0	0
Land Acquisition	20,200	10,200	10,000	0	0	0	0	0	0
Construction	1,153,000	449,000	704,000	0	0	0	0	0	0
Inspection	26,000	0	26,000	0	0	0	0	0	0
Utilities	41,800	41,800	0	0	0	0	0	0	0
Total Cost	1,594,500	854,500	740,000	0	0	0	0	0	0

Funding Sources:

General Fund	212,700	212,700	0	0	0	0	0	0	0
Tax Supported Bond	474,000	0	474,000	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Federal Grant	907,800	641,800	266,000	0	0	0	0	0	0
Total Funding	1,594,500	854,500	740,000	0	0	0	0	0	0

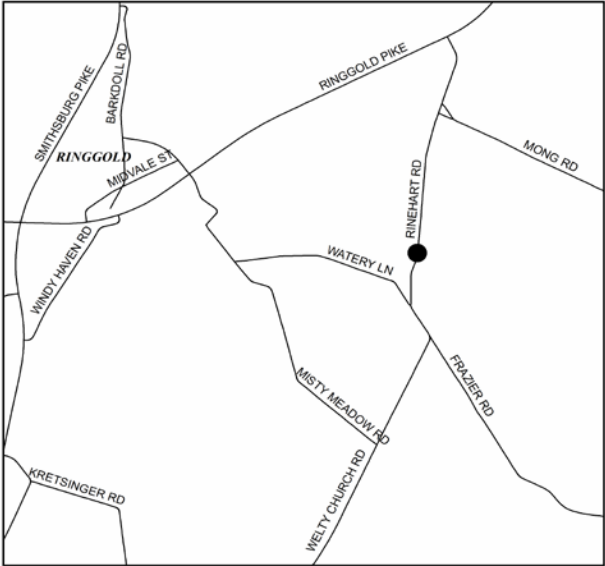
Project Title: Rinehart Road Culvert 14/03

Project Number: 1039

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 14300 block of Rinehart Road (ADC Map 12, Grid J-6). The project will replace the concrete slab bridge with a two cell concrete box culvert and headwalls. The project will install an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be completed with Kretsinger Road culvert 14/01.

The project is needed to replace a structure that is near the end of its useful life and will improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	10,000	0	0	10,000	0	0	0	0	0
Construction	270,000	0	0	0	270,000	0	0	0	0
Inspection	31,000	0	0	0	31,000	0	0	0	0
Utilities	21,000	0	0	21,000	0	0	0	0	0
Total Cost	332,000	0	0	31,000	301,000	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	332,000	0	0	31,000	301,000	0	0	0	0
Total Funding	332,000	0	0	31,000	301,000	0	0	0	0

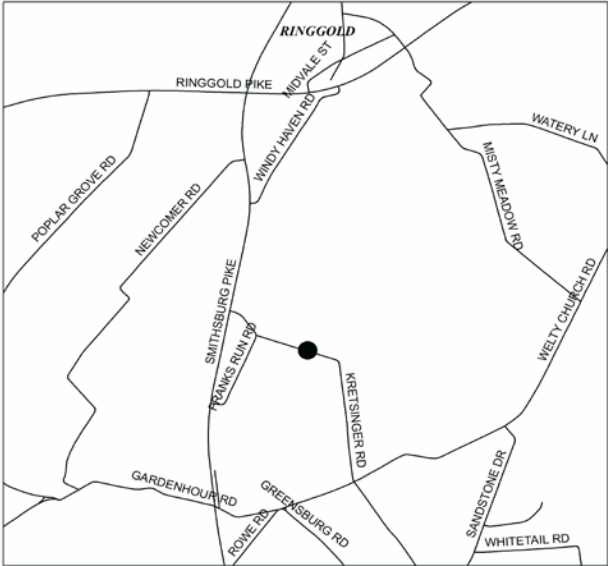
Project Title: Kretsinger Road Culvert 14/01

Project Number: 1040

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 13600 block of Kretsinger Road (ADC Map 12, Grid G-8). The project will replace the concrete slab bridge with a two cell concrete box culvert and headwalls. The project will install an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Rinehart Road culvert 14/03.

The project is needed to replace a structure that is near the end of its useful life and improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	10,000	0	0	10,000	0	0	0	0	0
Construction	254,000	0	0	0	254,000	0	0	0	0
Inspection	31,000	0	0	0	31,000	0	0	0	0
Utilities	21,000	0	0	21,000	0	0	0	0	0
Total Cost	316,000	0	0	31,000	285,000	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	316,000	0	0	31,000	285,000	0	0	0	0
Total Funding	316,000	0	0	31,000	285,000	0	0	0	0

Project Title: Frog Eye Road Culvert 11/06**Project Number:** 1041**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

This project is located in the 19800 block of Frog Eye Road (ADC Map 37, Grid D-4). The project will replace a single lane steel stringer/open steel grid deck with a two cell box culvert with headwalls. The project will include realignment of the road, use of existing bridge for access during construction, and the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project assumes realignment of the existing roadway and use of the existing bridge during construction.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

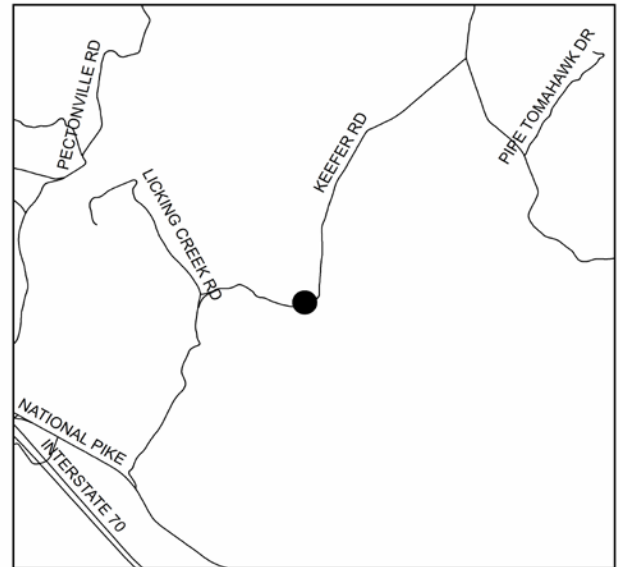
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	0	11,000
Construction	568,000	0	0	0	0	0	0	0	568,000
Inspection	0	0	0	0	0	0	0	0	0
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	602,000	0	0	0	0	0	0	0	602,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	602,000	0	0	0	0	0	0	0	602,000
Total Funding	602,000	0	0	0	0	0	0	0	602,000

Project Title: Keefer Road Bridge 15/20**Project Number: 1045****Account Number:****Projected Annual FTE's: 0****Projected Operating Costs: \$0****Description:**

This project is located in the 12800 block of Keefer Road (ADC Map 16, Grid J-1). The project will replace a steel stringer/timber deck with a single lane concrete slab bridge and install an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Mt. Tabor Road Bridge 13/03.

The project is needed to extend the useful life of this structure in a cost effective manner and improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	10,000	0	0	10,000	0	0	0	0	0
Construction	163,000	0	0	49,000	114,000	0	0	0	0
Inspection	26,000	0	0	26,000	0	0	0	0	0
Total Cost	199,000	0	0	85,000	114,000	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	199,000	0	0	85,000	114,000	0	0	0	0
Total Funding	199,000	0	0	85,000	114,000	0	0	0	0

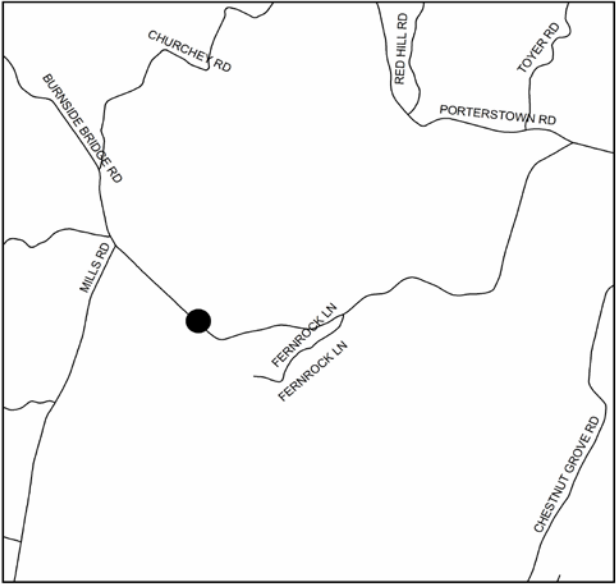
Project Title: Burnside Bridge Road Culvert 01/03

Project Number: 1046

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 18900 block of Burnside Bridge Road (ADC Map 34, Grid E-4). The project will replace the concrete slab with a precast concrete box culvert and headwalls.

Assumptions & Justifications:

The project is needed to replace a structure that is near the end of its useful life and to improve safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	11,000	0	0
Construction	264,000	0	0	0	0	0	81,000	183,000	0
Inspection	32,000	0	0	0	0	0	0	32,000	0
Utilities	22,000	0	0	0	0	0	22,000	0	0
Total Cost	329,000	0	0	0	0	0	114,000	215,000	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	329,000	0	0	0	0	0	114,000	215,000	0
Total Funding	329,000	0	0	0	0	0	114,000	215,000	0

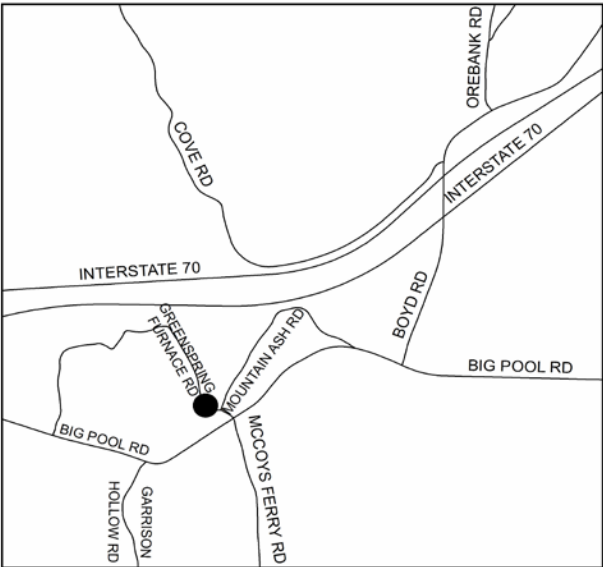
Project Title: Greenspring Furnace Road Culvert 15/15

Project Number: 1047

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located on Greenspring Furnace Road (ADC Map 17, Grid G-8). The project will replace the single lane concrete slab with a two cell concrete box culvert with headwalls.

Assumptions & Justifications:

The project assumes temporary roadway stream/culvert crossing during construction.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	11,000	0	0	0	0
Construction	335,000	0	0	0	35,000	300,000	0	0	0
Inspection	31,000	0	0	0	0	31,000	0	0	0
Utilities	21,000	0	0	0	21,000	0	0	0	0
Total Cost	398,000	0	0	0	67,000	331,000	0	0	0

Funding Sources:

General Fund	52,000	0	0	0	52,000	0	0	0	0
Tax Supported Bond	346,000	0	0	0	15,000	331,000	0	0	0
Total Funding	398,000	0	0	0	67,000	331,000	0	0	0

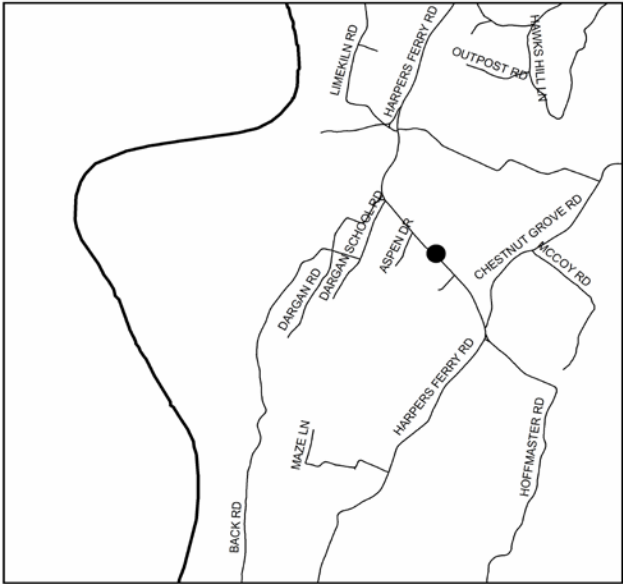
Project Title: Harpers Ferry Road Culvert 11/02

Project Number: 1048

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 2300 block of Harpers Ferry Road (ADC Map 36, Grid G-1). The project will replace the concrete slab with a two cell concrete box culvert and headwalls. The project will include installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Back Road Culvert 11/03.

The project is needed to replace a structure that’s near the end of its useful life and to improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	11,000	0	0	0
Construction	468,000	0	0	0	0	0	468,000	0	0
Inspection	40,000	0	0	0	0	0	40,000	0	0
Utilities	22,000	0	0	0	0	22,000	0	0	0
Total Cost	541,000	0	0	0	0	33,000	508,000	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	541,000	0	0	0	0	33,000	508,000	0	0
Total Funding	541,000	0	0	0	0	33,000	508,000	0	0

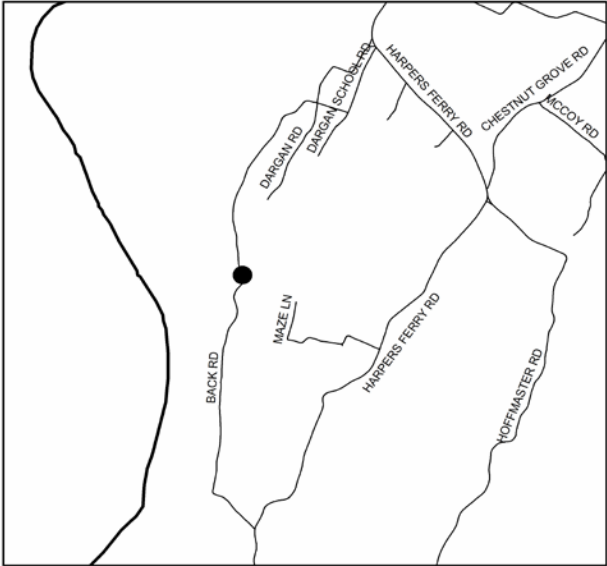
Project Title:Back Road Culvert 11/03

Project Number:1049

Account Number:

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The project is located in the 1800 Block of Back Road. The work consists of replacing the existing concrete slab bridge with a concrete box culvert and headwalls. The project will install the appropriate safety measures including marking and a traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Harpers Ferry Road Culvert 11/02.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

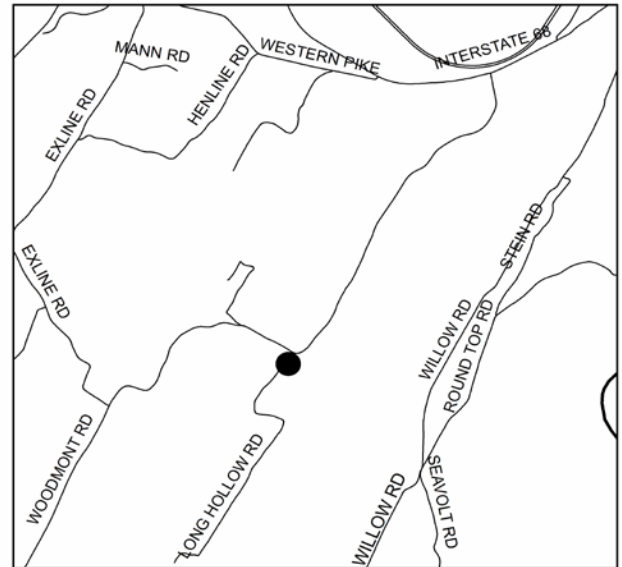
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	11,000	0	0	0	0
Construction	232,000	0	0	0	0	232,000	0	0	0
Inspection	31,000	0	0	0	0	31,000	0	0	0
Utilities	21,000	0	0	0	21,000	0	0	0	0
Total Cost	295,000	0	0	0	32,000	263,000	0	0	0

Funding Sources:

General Fund	32,000	0	0	0	32,000	0	0	0	0
Tax Supported Bond	263,000	0	0	0	0	263,000	0	0	0
Total Funding	295,000	0	0	0	32,000	263,000	0	0	0

Project Title: Long Hollow Road Culvert 05/07**Project Number:** 1050**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

This project is located in the 13000 block of Long Hollow Road (ADC Map 2, Grid D-12). The project will replace the concrete slab with a concrete box culvert and headwalls. The project will also provide for the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Henline Road Culvert 05/05 and Hoffman's Inn Road 05/06.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	0	11,000
Construction	249,000	0	0	0	0	0	0	0	249,000
Inspection	34,000	0	0	0	0	0	0	0	34,000
Utilities	22,000	0	0	0	0	0	0	0	22,000
Total Cost	316,000	0	0	0	0	0	0	0	316,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	316,000	0	0	0	0	0	0	0	316,000
Total Funding	316,000	0	0	0	0	0	0	0	316,000

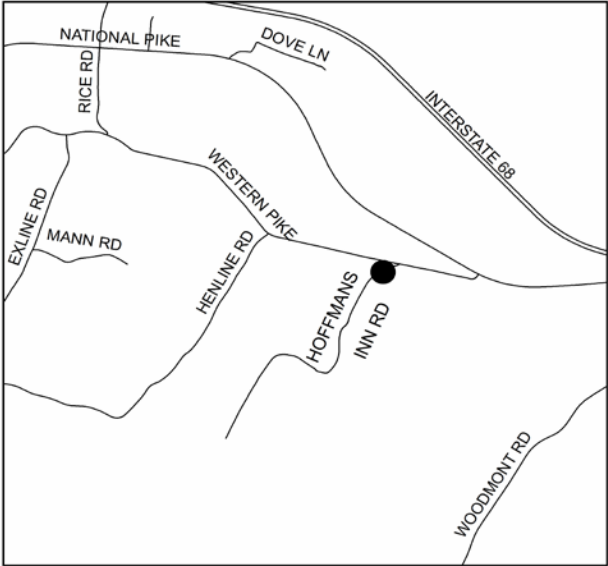
Project Title: Hoffman's Inn Road Culvert 05/06

Project Number: 1051

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 2500 block of Hoffman's Inn Road (ADC Map 2, Grid D-8). The project will replace the concrete slab with a concrete box culvert and headwalls. The project will provide for the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Long Hollow Road Culvert 05/07 and Henline Road Culvert 05/05.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	0	11,000
Construction	247,000	0	0	0	0	0	0	0	247,000
Inspection	32,000	0	0	0	0	0	0	0	32,000
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	313,000	0	0	0	0	0	0	0	313,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	313,000	0	0	0	0	0	0	0	313,000
Total Funding	313,000	0	0	0	0	0	0	0	313,000

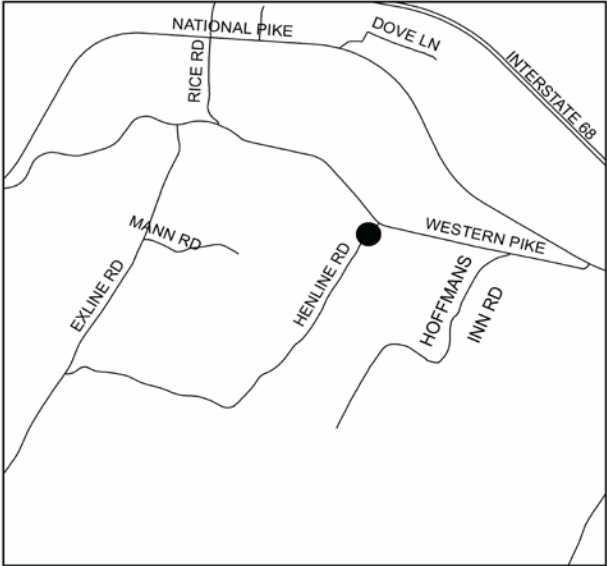
Project Title: Henline Road Culvert 05/05

Project Number: 1052

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 3200 block of Henline Road (ADC Map 2, Grid C-8). The project will replace the concrete slab with a concrete box culvert and headwalls. The project will provide for the installation of an appropriate traffic barrier.

Assumptions & Justifications:

The project is to be done in conjunction with Longmeadow Road Culvert 05/07 and Hoffman's Inn Road Culvert 05/06.

The project is needed to replace a structure that is near the end of its useful life and to improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	0	0	0	0	11,000
Construction	389,000	0	0	0	0	0	0	0	389,000
Inspection	42,000	0	0	0	0	0	0	0	42,000
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	465,000	0	0	0	0	0	0	0	465,000

Funding Sources:

General Fund	7,000	0	0	0	0	0	0	0	7,000
Tax Supported Bond	458,000	0	0	0	0	0	0	0	458,000
Total Funding	465,000	0	0	0	0	0	0	0	465,000

Project Title: Bridge Scour Repairs

Project Number: 1086

Account Number: BRG081

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will perform bridge scour countermeasures on several bridges throughout the County. The repairs will include either providing concrete collars, grout bags, or riprap to stabilize the foundations of the bridges.

Assumptions & Justifications:

The major bridge inspection program revealed the need to address this issue and documented the bridges needing the repairs.

The project is needed to extend the useful life of the structures in a cost effective manner and to maintain the structures in a serviceable condition. Failure to address these repairs could result in closure of the structures to traffic. Recent changes in the federal bridge inspection program required this activity.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	528,000	221,000	75,000	0	0	0	0	0	232,000
Total Cost	528,000	221,000	75,000	0	0	0	0	0	232,000

Funding Sources:

General Fund	324,000	17,000	75,000	0	0	0	0	0	232,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	204,000	204,000	0	0	0	0	0	0	0
Total Funding	528,000	221,000	75,000	0	0	0	0	0	232,000

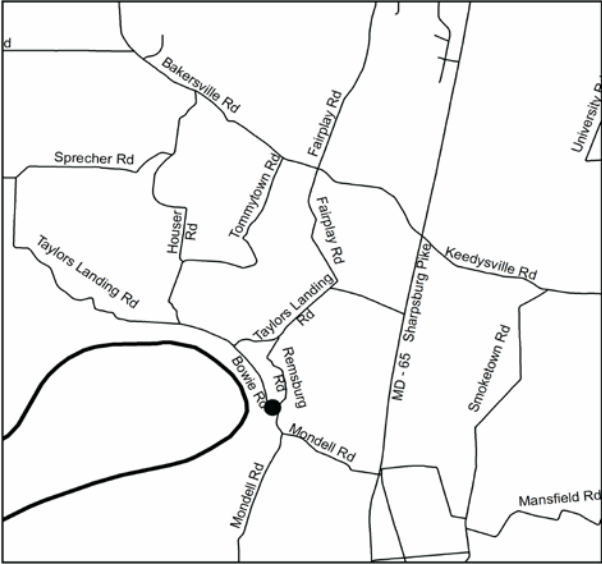
Project Title: Bowie Road Culvert

Project Number: 1095

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 6600 Block of Bowie Road (ADC Map 30, Grid H-6). The project will replace the culverts with a precast concrete box culvert and headwalls.

Assumptions & Justifications:

The project will be done in conjunction with Remsburg Road Culvert.

The project is needed to replace a structure that is near the end of its useful life and to increase the structure size to reduce frequency of roadway overtopping.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	236,000	0	0	0	0	0	0	0	236,000
Inspection	34,000	0	0	0	0	0	0	0	34,000
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	305,000	0	0	0	0	0	0	0	305,000

Funding Sources:

General Fund	207,000	0	0	0	0	0	0	0	207,000
Tax Supported Bond	98,000	0	0	0	0	0	0	0	98,000
Total Funding	305,000	0	0	0	0	0	0	0	305,000

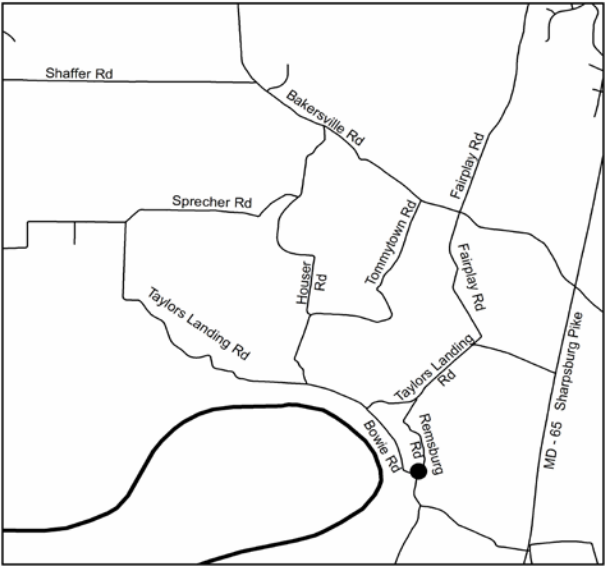
Project Title: Remsburg Road Culvert

Project Number: 1096

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project is located in the 6600 Block of Remsburg Road (ADC Map 30, Grid H-6). The project will replace the culverts with a precast concrete box culvert and headwalls. The project will raise the existing roadway elevation at crossing to reduce overtopping.

Assumptions & Justifications:

The project is to be done in conjunction with Bowie Road Culvert.

The project is needed to replace a structure that is near the end of its useful life and will increase the structure size to reduce the frequency of roadway overtopping.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	219,000	0	0	0	0	0	0	0	219,000
Inspection	33,000	0	0	0	0	0	0	0	33,000
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	287,000	0	0	0	0	0	0	0	287,000

Funding Sources:

General Fund	98,000	0	0	0	0	0	0	0	98,000
Tax Supported Bond	189,000	0	0	0	0	0	0	0	189,000
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	287,000	0	0	0	0	0	0	0	287,000

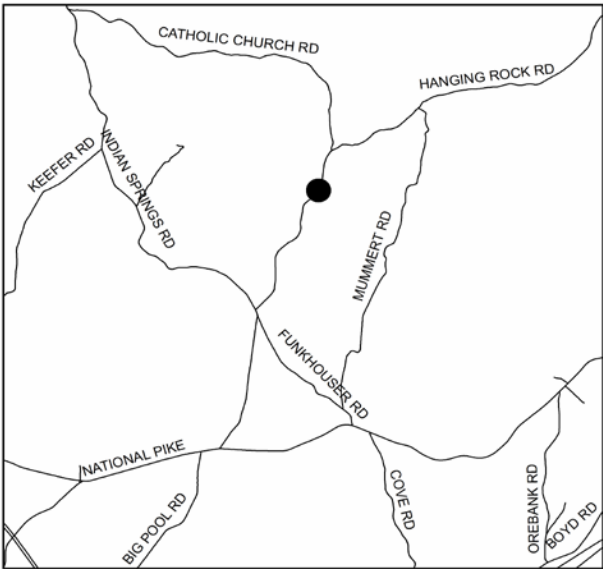
Project Title: Lanes Road Culvert 15/12

Project Number: 1131

Account Number: DNG020

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 12900 block of Lanes Road (ADC Map 6, D-12). The project will replace the deteriorated two lane concrete slab bridge with a precast box culvert. An upgraded traffic barrier will be added as well to improve safety.

Assumptions & Justifications:

The structure needs to be replaced due to its advanced deterioration as it is nearing the end of its useful life. Due to the structure type, no practical long term repair options exist.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	11,000	0	0	0	11,000	0	0	0	0
Construction	254,000	0	0	0	0	254,000	0	0	0
Inspection	31,000	0	0	0	0	31,000	0	0	0
Utilities	21,000	0	0	0	21,000	0	0	0	0
Total Cost	317,000	0	0	0	32,000	285,000	0	0	0

Funding Sources:

General Fund	32,000	0	0	0	32,000	0	0	0	0
Tax Supported Bond	285,000	0	0	0	0	285,000	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	317,000	0	0	0	32,000	285,000	0	0	0

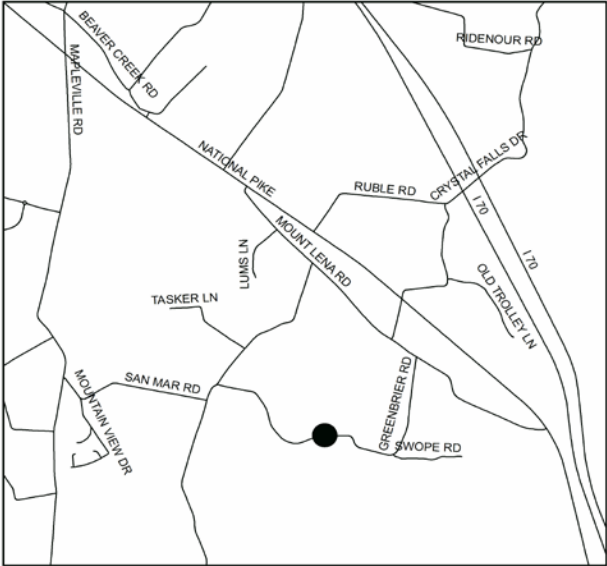
Project Title:Greenbrier Road Culvert 16/14

Project Number:1132

Account Number:

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

This project is located near Greenbrier State Park (ADC Map 27, H-9). The project will replace the deteriorated two lane corrugated metal pipe culvert with a precast box culvert. An upgraded traffic barrier will be added as well to improve safety.

Assumptions & Justifications:

The structure needs to be replaced due to its advanced deterioration as it is nearing the end of its useful life. Due to the structure type, no practical long term repair options exist.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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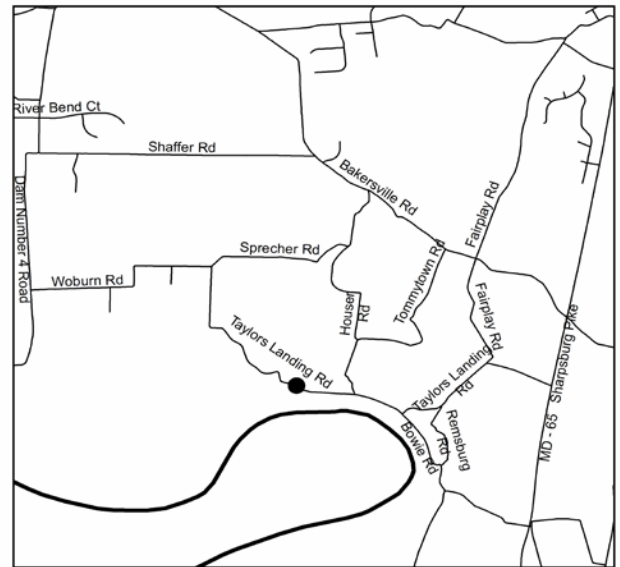
Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	29,000	0	0	0	0	0	0	0	29,000
Inspection	0	0	0	0	0	0	0	0	0
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	65,000	0	0	0	0	0	0	0	65,000

Funding Sources:

General Fund	65,000	0	0	0	0	0	0	0	65,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	65,000	0	0	0	0	0	0	0	65,000

Projected Operating Costs: \$0

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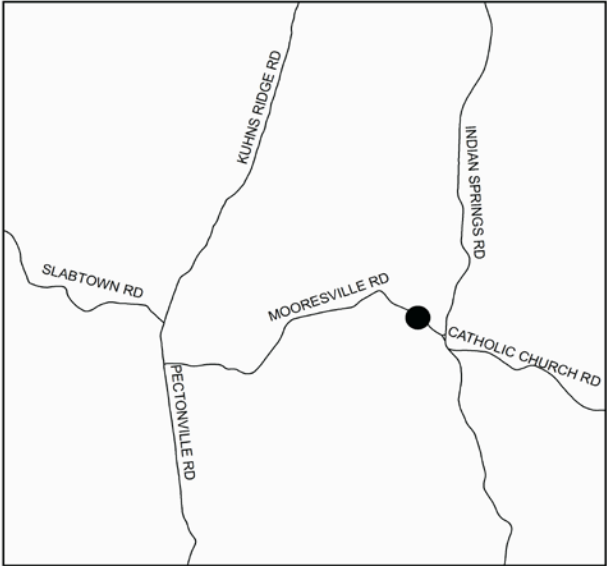
Project Title: Mooresville Road Culvert 15/21

Project Number: 1206

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 10200 Block of Mooresville Road (ADC Map 5, Grid K-9). The project will replace a deteriorated multiple corrugated metal pipe culvert with a new precast concrete box culvert.

Assumptions & Justifications:

The project is needed to replace a structure that is near the end of its useful life. Due to the structure type, no practical long term repair options exist. Traffic barrier upgrades will also improve traffic safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	277,000	0	0	0	0	0	0	0	277,000
Inspection	42,000	0	0	0	0	0	0	0	42,000
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	355,000	0	0	0	0	0	0	0	355,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	355,000	0	0	0	0	0	0	0	355,000
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	355,000	0	0	0	0	0	0	0	355,000

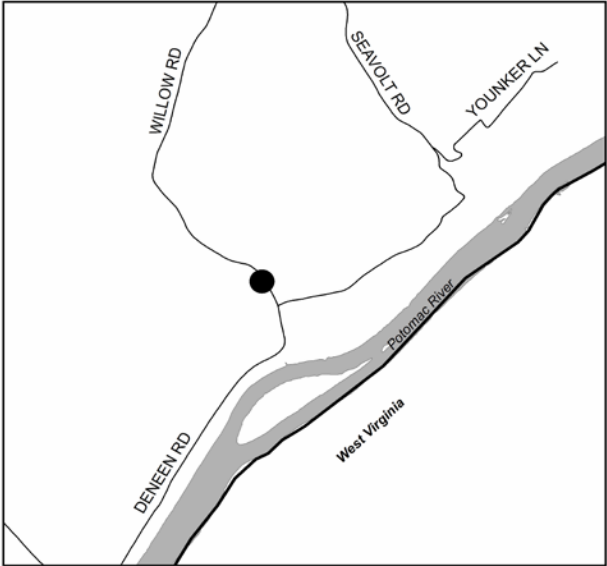
Project Title: Willow Road Culvert 05/10

Project Number: 1213

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 12400 block of Willow Road (ADC Map 15, Grid F-4). The project will replace the concrete slab with a concrete box culvert with headwalls.

Assumptions & Justifications:

The bridge is in a condition beyond serviceable repair.

This bridge is structurally and functionally deficient and requires replacement.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	12,000	0	0	0	0	0	0	0	12,000
Construction	246,000	0	0	0	0	0	0	0	246,000
Inspection	42,000	0	0	0	0	0	0	0	42,000
Utilities	23,000	0	0	0	0	0	0	0	23,000
Total Cost	323,000	0	0	0	0	0	0	0	323,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	323,000	0	0	0	0	0	0	0	323,000
Total Funding	323,000	0	0	0	0	0	0	0	323,000

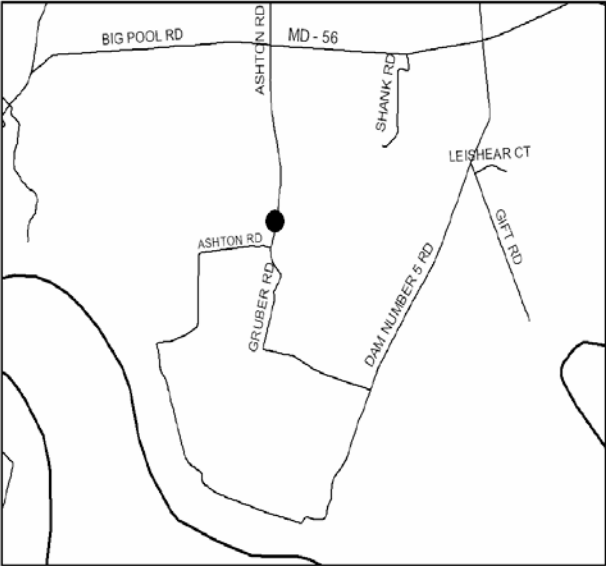
Project Title: Ashton Road Culvert 04/06

Project Number: 1247

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 11200 block of Ashton Road (ADC Map 18, Grid E-9). The project will replace the concrete slab with a concrete box culvert with headwalls. The traffic barrier will be upgraded to improve safety.

Assumptions & Justifications:

The project is to be done in conjunction with Gruber Road Bridge 04/10.

The project is needed to replace a structure that is near the end of its useful life and improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	6,000	0	0	0	0	0	0	0	6,000
Construction	0	0	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	30,000	0	0	0	0	0	0	0	30,000

Funding Sources:

General Fund	30,000	0	0	0	0	0	0	0	30,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	30,000	0	0	0	0	0	0	0	30,000

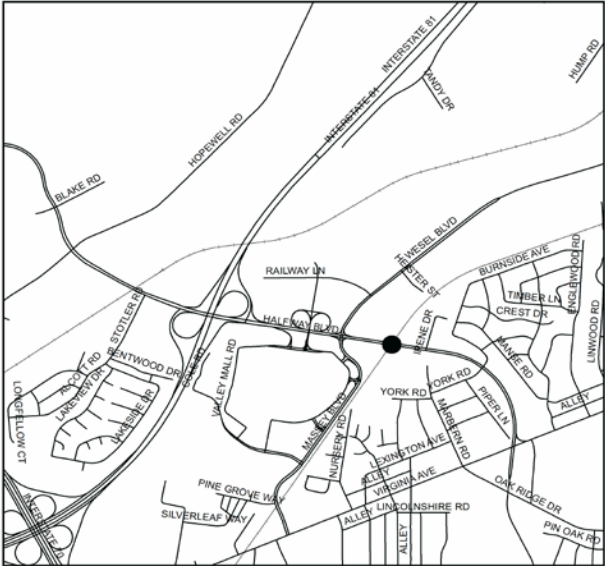
Project Title: Halfway Boulevard Bridges W0912

Project Number: 1299

Account Number: BRG083

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project involves repairing the eastbound and westbound bridges of Halfway Boulevard over the Norfolk Southern railroad (ADC Map 20, H-8). The project will include cleaning and painting of steel beams, replacement of bearings and expansion joints, concrete repairs to the substructure and superstructure, traffic barrier improvements, and minor paving work.

Assumptions & Justifications:

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The project is essential to maintain and extend the useful life of the structure. The Bridge Sufficiency Rating is 49.4 out of a maximum possible score of 100.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	115,000	0	115,000	0	0	0	0	0	0
Construction	1,889,000	0	0	0	1,007,000	882,000	0	0	0
Inspection	108,000	0	0	0	0	108,000	0	0	0
Total Cost	2,112,000	0	115,000	0	1,007,000	990,000	0	0	0

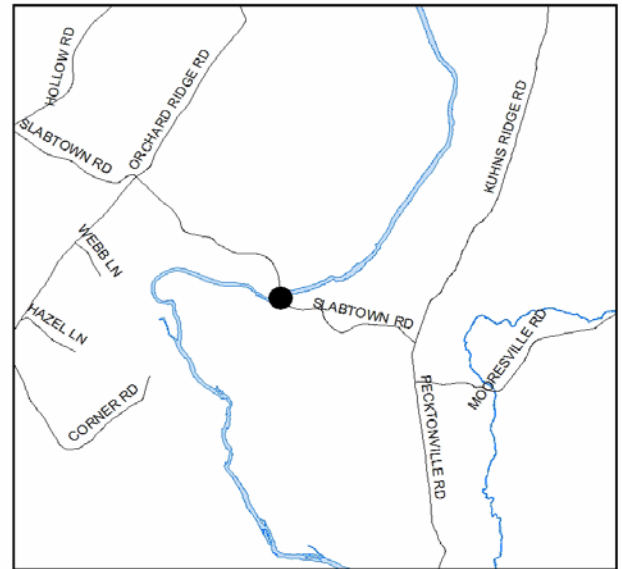
Funding Sources:

General Fund	186,000	0	0	0	186,000	0	0	0	0
Tax Supported Bond	401,000	0	115,000	0	0	286,000	0	0	0
Federal Grant	1,525,000	0	0	0	821,000	704,000	0	0	0
Total Funding	2,112,000	0	115,000	0	1,007,000	990,000	0	0	0

Projected Operating Costs: \$0



General Fund	125,000	0	125,000	0	0	0	0	0	0
Total Funding	125,000	0	125,000	0	0	0	0	0	0

Project Title: Slabtown Road Bridge**Project Number:** 1329**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

The project is located north of Pecktonville (ADC Map 5, E-8). The project involves the construction of a bridge in the existing location of a ford across Licking Creek.

Assumptions & Justifications:

Up to \$500,000 in local funding above and beyond the amount shown is being sought for local road improvements on Slabtown Road in conjunction with this bridge project.

The project is proposed as a Federal Aid project with 80/20 cost share for construction.

The existing ford presents a safety hazard for vehicles during storm events. The project will reduce the detour length approximately 7 miles. Many vehicles would travel this road when the interstate is closed due to an accident.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	180,000	0	0	180,000	0	0	0	0	0
Land Acquisition	20,000	0	0	20,000	0	0	0	0	0
Construction	3,544,000	0	0	0	0	0	1,000,000	2,544,000	0
Inspection	56,000	0	0	0	0	0	0	56,000	0
Total Cost	3,800,000	0	0	200,000	0	0	1,000,000	2,600,000	0

Funding Sources:

Tax Supported Bond	965,000	0	0	200,000	0	0	200,000	565,000	0
Federal Grant	2,835,000	0	0	0	0	0	800,000	2,035,000	0
Total Funding	3,800,000	0	0	200,000	0	0	1,000,000	2,600,000	0

Drainage

Drainage
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Project Costs											
	<u>Drainage</u>										
90	Stream Restoration at Various Locations	2,178,000	229,000	418,000	35,000	42,000	426,000	0	45,000	983,000	
91	Stormwater Retrofits	11,415,900	2,042,900	860,000	878,000	894,000	586,000	1,260,000	945,000	3,950,000	
92	Shank Road Drainage	153,000	0	0	153,000	0	0	0	0	0	
93	Hoffmaster and Harpers Ferry Road Drainage	870,000	0	428,000	442,000	0	0	0	0	0	
94	Harpers Ferry Road Drainage, 3600 Block	376,000	0	0	62,000	314,000	0	0	0	0	
95	Brookfield Avenue Drainage	109,000	0	0	109,000	0	0	0	0	0	
96	Broadfording Church Road Culvert	231,000	0	0	231,000	0	0	0	0	0	
97	Bottom Road Drainage	280,000	256,000	24,000	0	0	0	0	0	0	
98	Chestnut Grove Road Drainage	84,000	0	0	0	84,000	0	0	0	0	
	Drainage Total	15,696,900	2,527,900	1,730,000	1,910,000	1,334,000	1,012,000	1,260,000	990,000	4,933,000	
Funding Sources											
	General Fund	5,395,406	185,406	781,000	317,000	126,000	426,000	0	398,000	3,162,000	
	Tax Supported Bond	8,515,900	556,900	949,000	1,593,000	1,208,000	586,000	1,260,000	592,000	1,771,000	
	Capital Reserve - General	1,785,594	1,785,594	0	0	0	0	0	0	0	
		15,696,900	2,527,900	1,730,000	1,910,000	1,334,000	1,012,000	1,260,000	990,000	4,933,000	

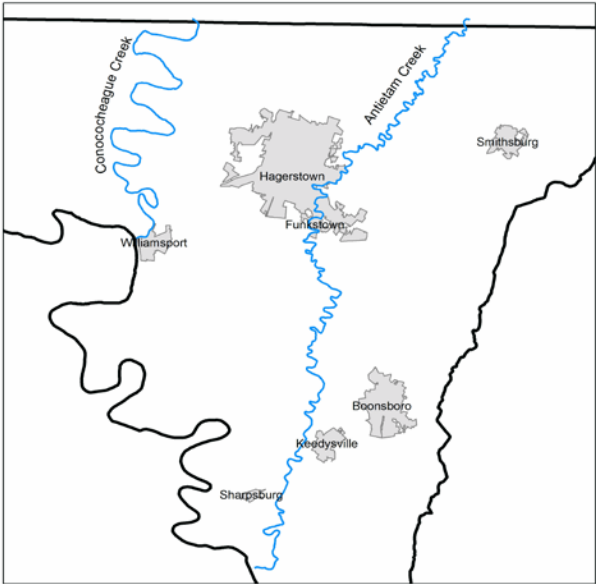
Project Title: Stream Restoration at Various Locations

Project Number: 1009

Account Number: DNG030

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will restore stream banks at various locations on Antietam Creek and Conococheague Creek to improve water quality.

Assumptions & Justifications:

It is anticipated that the Smithsburg Wastewater Treatment Plant Stream restoration project will be completed with local funding from FY18. Stream restoration projects for FY21, FY24, and FY27 are yet to be determined.

Maryland has imposed total maximum daily load requirements (TMDL) on Antietam Creek and Conococheague Creek. This requirement will restrict land development over time unless dealt with by mitigation measures. Stream restoration will improve water quality and allow for future development.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	134,000	0	0	0	42,000	0	0	45,000	47,000
Construction	2,044,000	229,000	418,000	35,000	0	426,000	0	0	936,000
Total Cost	2,178,000	229,000	418,000	35,000	42,000	426,000	0	45,000	983,000

Funding Sources:

General Fund	2,112,406	163,406	418,000	35,000	42,000	426,000	0	45,000	983,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	65,594	65,594	0	0	0	0	0	0	0
Federal Grant	0	0	0	0	0	0	0	0	0
Total Funding	2,178,000	229,000	418,000	35,000	42,000	426,000	0	45,000	983,000

Project Title: Stormwater Retrofits

Project Number: 1125

Account Number: DNG039

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project includes the construction of SWM systems based on Best Management Practices such as bio-swales, bio-filters, permeable pavements, ponds, wetlands, etc. along roadways, in parks, and on other county properties to satisfy the National Pollutant Discharge Elimination Systems (NPDES) requirements established by the MDE.

Assumptions & Justifications:

The project will provide treatment for 20% of the impervious surfaces within the regulated NPDES area estimated to be 2,900 acres, treating 580 acres per year. County is working with Army Corps of Engineers (ACOE) to inventory county stormwater infrastructure.

The project is requested due to a regulatory requirement imposed by the EPA and MDE.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	337,500	72,500	24,000	25,000	25,000	26,000	26,000	27,000	112,000
Land Acquisition	292,400	70,400	20,000	21,000	21,000	22,000	22,000	22,000	94,000
Construction	10,786,000	1,900,000	816,000	832,000	848,000	538,000	1,212,000	896,000	3,744,000
Total Cost	11,415,900	2,042,900	860,000	878,000	894,000	586,000	1,260,000	945,000	3,950,000

Funding Sources:

General Fund	2,893,000	22,000	339,000	0	0	0	0	353,000	2,179,000
Tax Supported Bond	6,802,900	300,900	521,000	878,000	894,000	586,000	1,260,000	592,000	1,771,000
Excise Tax - Other	0	0	0	0	0	0	0	0	0
Capital Reserve - General	1,720,000	1,720,000	0	0	0	0	0	0	0
Total Funding	11,415,900	2,042,900	860,000	878,000	894,000	586,000	1,260,000	945,000	3,950,000

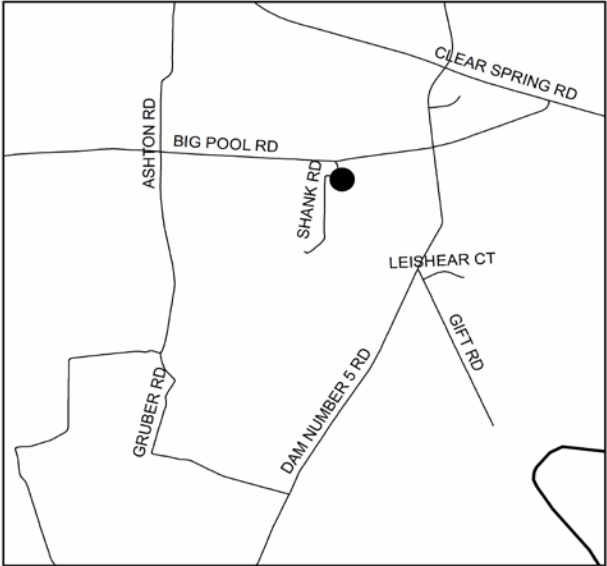
Project Title: Shank Road Drainage

Project Number: 1134

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project is located near Big Pool Road in Clear Spring (ADC Map 18, G-7). The project will stabilize the stream bank and roadway embankment.

Assumptions & Justifications:

The existing retaining wall is collapsing into the adjacent stream. Failure of the wall will cause properties to become inaccessible for emergency services and will cause more costly damage.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	2,000	0	0	2,000	0	0	0	0	0
Construction	130,000	0	0	130,000	0	0	0	0	0
Inspection	21,000	0	0	21,000	0	0	0	0	0
Total Cost	153,000	0	0	153,000	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	153,000	0	0	153,000	0	0	0	0	0
Total Funding	153,000	0	0	153,000	0	0	0	0	0

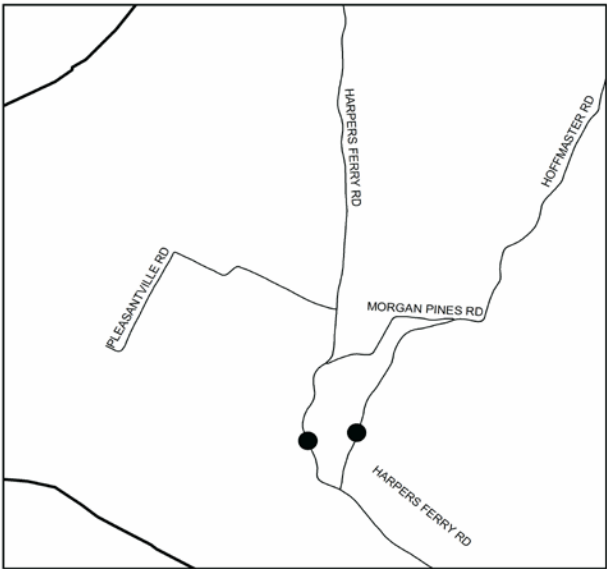
Project Title: Hoffmaster and Harpers Ferry Road Drainage

Project Number: 1135

Account Number: DNG077

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 700 block of Hoffmaster Road (ADC Map 36, F-9) and the 700 Block of Harpers Ferry Road (ADC Map 36, E-9). The project includes drainage improvements to stabilize the stream bank and roadway embankment.

Assumptions & Justifications:

The existing roadside retaining wall has collapsed in numerous locations. Conditions are causing a safety hazard for the motoring public. A collapsed retaining wall is blocking an adjacent stream which causes localized flooding during storm events.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	10,000	0	10,000	0	0	0	0	0	0
Construction	779,000	0	337,000	442,000	0	0	0	0	0
Inspection	61,000	0	61,000	0	0	0	0	0	0
Utilities	20,000	0	20,000	0	0	0	0	0	0
Total Cost	870,000	0	428,000	442,000	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	870,000	0	428,000	442,000	0	0	0	0	0
Total Funding	870,000	0	428,000	442,000	0	0	0	0	0

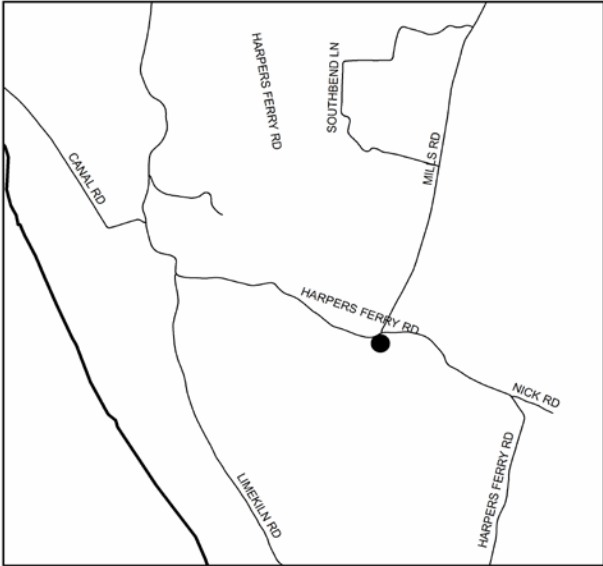
Project Title: Harpers Ferry Road Drainage, 3600 Block

Project Number: 1136

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 3600 block of Harpers Ferry Road at the intersection with Mills Road (ADC Map 34, C-7). The project will replace the existing corrugated metal pipes with larger concrete pipes to reduce flooding impacts in this area.

Assumptions & Justifications:

The project is needed to provide cost effective road maintenance in this area. The frequency of flooding impacts the delivery of public safety services in that area of the county.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	10,000	0	0	10,000	0	0	0	0	0
Construction	276,000	0	0	0	276,000	0	0	0	0
Inspection	38,000	0	0	0	38,000	0	0	0	0
Utilities	52,000	0	0	52,000	0	0	0	0	0
Total Cost	376,000	0	0	62,000	314,000	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	376,000	0	0	62,000	314,000	0	0	0	0
Total Funding	376,000	0	0	62,000	314,000	0	0	0	0

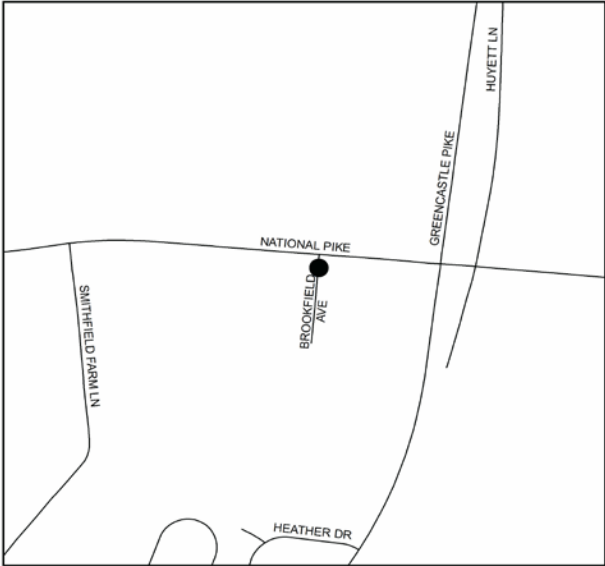
Project Title: Brookfield Avenue Drainage

Project Number: 1201

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located at the end of Brookfield Avenue (ADC Map 20, Grid B-4). The project will provide channel and culvert improvements which will correct road and property flooding.

Assumptions & Justifications:

This project is needed to correct road and property flooding problems and reduce structure maintenance.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	109,000	0	0	109,000	0	0	0	0	0
Total Cost	109,000	0	0	109,000	0	0	0	0	0

Funding Sources:

General Fund	51,000	0	0	51,000	0	0	0	0	0
Tax Supported Bond	58,000	0	0	58,000	0	0	0	0	0
Total Funding	109,000	0	0	109,000	0	0	0	0	0

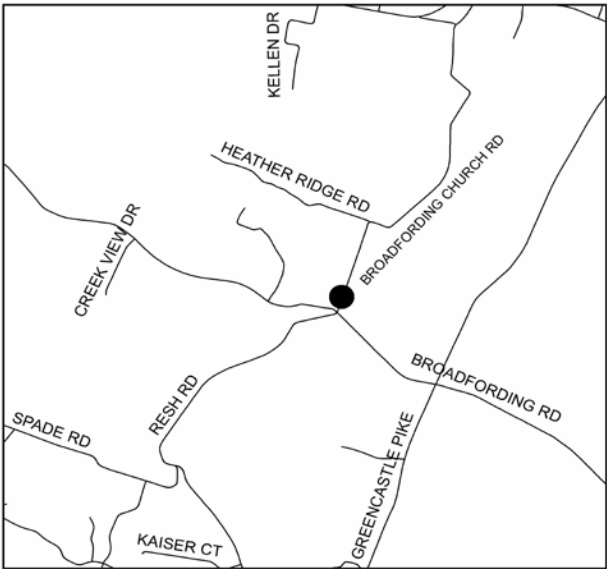
Project Title: Broadfording Church Road Culvert

Project Number: 1244

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is located in the 13500 block of Broadfording Church Road (ADC Map 9, Grid C-10). The project will replace a stone/concrete drainage structure and endwalls with a concrete pipe with concrete headwalls. The traffic barrier will be upgraded to improve safety.

Assumptions & Justifications:

The project is needed to replace a structure that is near the end of its useful life and improve vehicle safety.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	5,000	0	0	5,000	0	0	0	0	0
Construction	192,000	0	0	192,000	0	0	0	0	0
Inspection	31,000	0	0	31,000	0	0	0	0	0
Utilities	3,000	0	0	3,000	0	0	0	0	0
Total Cost	231,000	0	0	231,000	0	0	0	0	0

Funding Sources:

General Fund	231,000	0	0	231,000	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	231,000	0	0	231,000	0	0	0	0	0

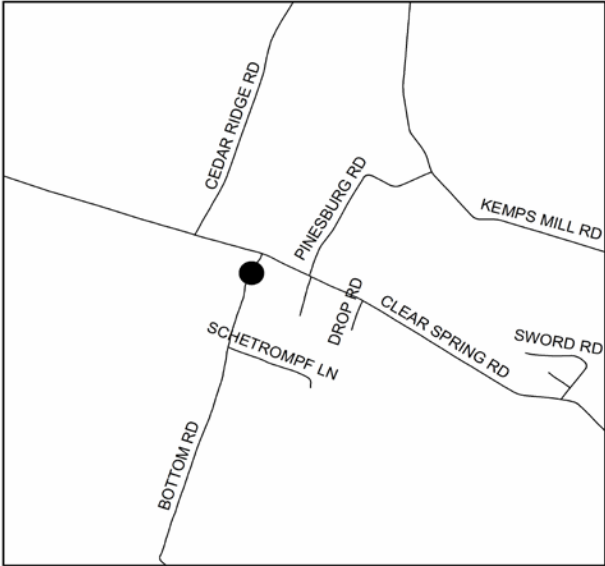
Project Title:Bottom Road Drainage

Project Number:1301

Account Number:DNG072

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The project is located at the intersection of Bottom Road and Maryland Route 68 (ADC Map 19, C-7). The project will provide drainage improvements that will correct road and property flooding.

Assumptions & Justifications:

The Maryland State Highway Administration will work with the County on this project and contribute funds to improve the drainage on Maryland Route 68. These contributions from SHA will be made as direct payments. The budget shown below reflects only the County portion.

This project is needed to correct road and property flooding problems and reduce road maintenance.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	26,000	26,000	0	0	0	0	0	0	0
Construction	228,000	204,000	24,000	0	0	0	0	0	0
Inspection	26,000	26,000	0	0	0	0	0	0	0
Total Cost	280,000	256,000	24,000	0	0	0	0	0	0

Funding Sources:

General Fund	24,000	0	24,000	0	0	0	0	0	0
Tax Supported Bond	256,000	256,000	0	0	0	0	0	0	0
Total Funding	280,000	256,000	24,000	0	0	0	0	0	0

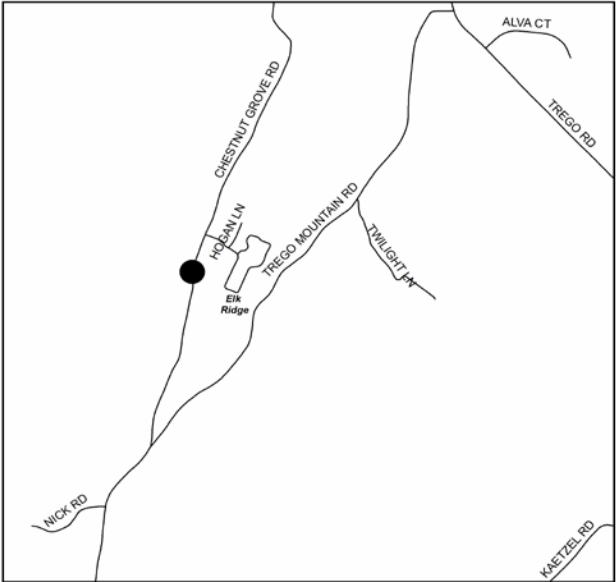
Project Title: Chestnut Grove Road Drainage

Project Number: 1303

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project is located on Chestnut Grove Road (ADC Map 34, H-6). The work includes construction of new culverts, water quality improvements, and minor road paving.

Assumptions & Justifications:

The project is needed to correct road and property flooding problems.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	5,000	0	0	0	5,000	0	0	0	0
Construction	74,000	0	0	0	74,000	0	0	0	0
Inspection	5,000	0	0	0	5,000	0	0	0	0
Total Cost	84,000	0	0	0	84,000	0	0	0	0

Funding Sources:

General Fund	84,000	0	0	0	84,000	0	0	0	0
Total Funding	84,000	0	0	0	84,000	0	0	0	0

Education

Education
Capital Improvement Ten Year Summary
Fiscal Year 2018 – 2027

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
<u>Education</u>										
Board of Education										
102	Sharpsburg Elementary School-Replacement	23,874,000	0	645,000	8,209,000	10,124,000	4,896,000	0	0	0
103	Western Heights Middle School Modernization	31,283,000	0	0	0	0	1,168,000	9,708,000	10,997,000	9,410,000
104	Springfield Middle School Modernization	33,020,000	0	0	0	0	0	0	0	33,020,000
105	Urban Education Campus-BOE	7,000,000	0	4,000,000	3,000,000	0	0	0	0	0
	Board of Education Total	95,177,000	0	4,645,000	11,209,000	10,124,000	6,064,000	9,708,000	10,997,000	42,430,000
Hagerstown Community College										
108	Learning Resource Center Renovation	3,221,000	1,190,000	1,085,000	946,000	0	0	0	0	0
109	Teacher Education Center and Roof Replacement	1,583,000	0	0	0	0	0	0	0	1,583,000
110	Student Center Parking Lot	697,000	0	35,000	0	662,000	0	0	0	0
111	SMART/Alternative Energy House/Training Center	2,103,000	150,000	1,150,000	803,000	0	0	0	0	0
112	Business Incubator/Technical Innovation Center (TIC) Upgrade	4,250,000	0	0	0	280,000	3,970,000	0	0	0
113	Commercial Transportation Instructional Facility	6,500,000	0	0	0	0	0	0	1,414,000	5,086,000
114	LRC Exterior Metal Panel System and Roof Replacement	1,685,000	0	0	0	0	118,000	1,567,000	0	0
	Hagerstown Community College Total	20,039,000	1,340,000	2,270,000	1,749,000	942,000	4,088,000	1,567,000	1,414,000	6,669,000
Public Libraries										
116	Systemic Projects - Library	125,300	26,300	10,000	10,000	10,000	10,000	10,000	10,000	39,000
117	Hancock Public Library Replacement	3,001,000	277,000	10,000	10,000	10,000	78,000	2,616,000	0	0
	Public Libraries Total	3,126,300	303,300	20,000	20,000	20,000	88,000	2,626,000	10,000	39,000
	Education Total	118,342,300	1,643,300	6,935,000	12,978,000	11,086,000	10,240,000	13,901,000	12,421,000	49,138,000
Funding Sources										
	General Fund	839,100	78,100	45,000	10,000	10,000	42,000	556,000	0	98,000
	Tax Supported Bond	34,470,000	0	404,000	2,630,000	2,466,000	5,998,000	3,715,000	4,501,000	14,756,000
	Excise Tax - Schools	3,850,000	0	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000
	Excise Tax - Library	149,200	50,200	10,000	10,000	10,000	10,000	10,000	10,000	39,000
	Federal Grant	646,000	646,000	0	0	0	0	0	0	0
	State Grant	56,291,000	774,000	1,737,000	9,693,000	8,215,000	2,637,000	5,363,000	4,498,000	23,374,000
	Contributions	22,097,000	95,000	4,354,000	250,000	0	1,168,000	3,872,000	3,027,000	9,331,000
		118,342,300	1,643,300	6,935,000	12,978,000	11,086,000	10,240,000	13,901,000	12,421,000	49,138,000

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*Board of Education
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027*

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Project Costs											
Board of Education											
102	Sharpsburg Elementary School-Replacement	23,874,000	0	645,000	8,209,000	10,124,000	4,896,000	0	0	0	
103	Western Heights Middle School Modernization	31,283,000	0	0	0	0	1,168,000	9,708,000	10,997,000	9,410,000	
104	Springfield Middle School Modernization	33,020,000	0	0	0	0	0	0	0	33,020,000	
105	Urban Education Campus-BOE Component	7,000,000	0	4,000,000	3,000,000	0	0	0	0	0	
Board of Education Total		95,177,000	0	4,645,000	11,209,000	10,124,000	6,064,000	9,708,000	10,997,000	42,430,000	
Funding Sources											
	Tax Supported Bond	29,079,000	0	0	1,941,000	2,154,000	4,511,000	2,924,000	3,999,000	13,550,000	
	Excise Tax - Schools	3,850,000	0	385,000	385,000	385,000	385,000	385,000	385,000	1,540,000	
	State Grant	41,990,000	0	260,000	8,883,000	7,585,000	0	3,067,000	3,586,000	18,609,000	
	Contributions	20,258,000	0	4,000,000	0	0	1,168,000	3,332,000	3,027,000	8,731,000	
		95,177,000	0	4,645,000	11,209,000	10,124,000	6,064,000	9,708,000	10,997,000	42,430,000	

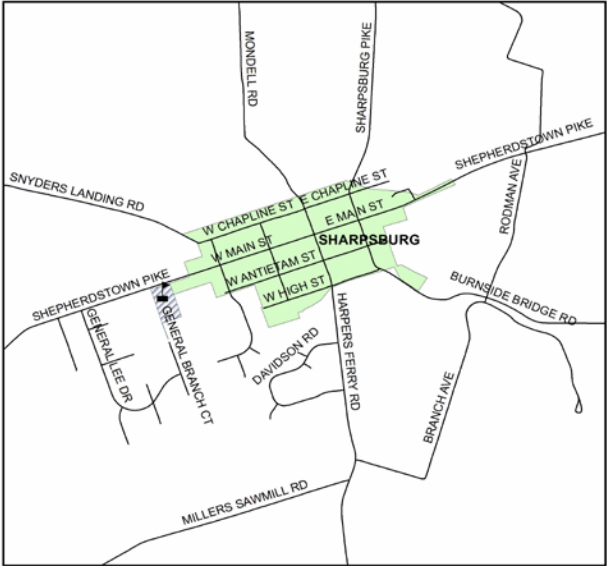
Project Title: Sharpsburg Elementary School- Replacement

Project Number: 1114

Account Number: SCH033

Projected Annual FTE's: 0

Projected Operating Costs: \$5,000



Description:

The project involves construction of a 63,818 SF replacement building to support 471 students.

Assumptions & Justifications:

State share is 71% of eligible construction costs

Replacement is needed due to the age of the school and growth in the southern part of the county.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Architect Fees	1,785,000	0	645,000	664,000	430,000	46,000	0	0	0
Construction	20,929,000	0	0	7,545,000	9,144,000	4,240,000	0	0	0
Equipment/Furniture	1,160,000	0	0	0	550,000	610,000	0	0	0
Total Cost	23,874,000	0	645,000	8,209,000	10,124,000	4,896,000	0	0	0

Funding Sources:

Tax Supported Bond	8,606,000	0	0	1,941,000	2,154,000	4,511,000	0	0	0
Excise Tax - Schools	1,540,000	0	385,000	385,000	385,000	385,000	0	0	0
State Grant	13,728,000	0	260,000	5,883,000	7,585,000	0	0	0	0
Total Funding	23,874,000	0	645,000	8,209,000	10,124,000	4,896,000	0	0	0

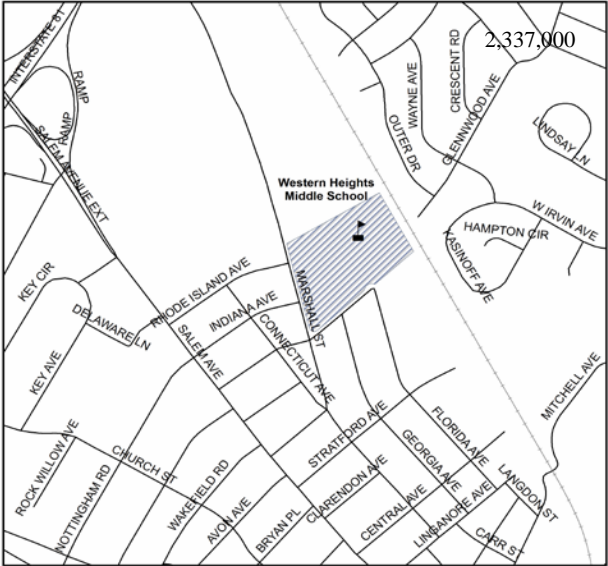
Project Title: Western Heights Middle School Modernization

Project Number: 1227

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$5,000



Description:

The project includes renovation of 113,970 square feet built in 1983 and an addition of 21,345 square feet for an expanded community gym, music, science, art and support programs.

Assumptions & Justifications:

Total cost allocation:
State 41%
County 59%

The school is aging and in need of modernization.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Architect Fees	2,337,000	0	0	0	0	1,000,000	800,000	537,000	0
Construction	27,418,000	0	0	0	0	168,000	8,908,000	9,760,000	8,582,000
Equipment/Furniture	1,528,000	0	0	0	0	0	0	700,000	828,000
Total Cost	31,283,000	0	0	0	0	1,168,000	9,708,000	10,997,000	9,410,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	9,896,000	0	0	0	0	0	2,924,000	3,999,000	2,973,000
Excise Tax - Schools	1,155,000	0	0	0	0	0	385,000	385,000	385,000
State Grant	12,705,000	0	0	0	0	0	3,067,000	3,586,000	6,052,000
Contributions	7,527,000	0	0	0	0	1,168,000	3,332,000	3,027,000	0
Total Funding	31,283,000	0	0	0	0	1,168,000	9,708,000	10,997,000	9,410,000

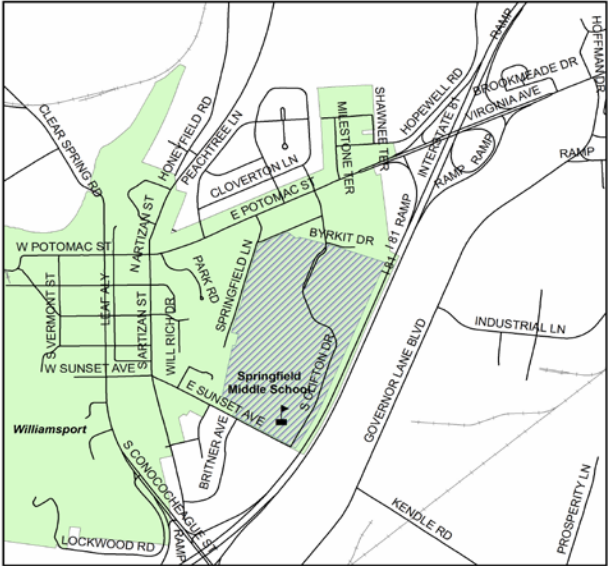
Project Title: Springfield Middle School Modernization

Project Number: 1296

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project consists of a 133,955 sq ft renovation needed for aging middle school designed for 860 students.

Assumptions & Justifications:

Total Cost allocation:
State 38%
County 62%

There have been no significant improvements to this school since being built in the 1970's.
The project should reduce operating costs through efficient HVAC and lighting systems.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Architect Fees	2,465,000	0	0	0	0	0	0	0	2,465,000
Construction	28,942,000	0	0	0	0	0	0	0	28,942,000
Equipment/Furniture	1,613,000	0	0	0	0	0	0	0	1,613,000
Total Cost	33,020,000	0	0	0	0	0	0	0	33,020,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	10,577,000	0	0	0	0	0	0	0	10,577,000
Excise Tax - Schools	1,155,000	0	0	0	0	0	0	0	1,155,000
State Grant	12,557,000	0	0	0	0	0	0	0	12,557,000
Contributions	8,731,000	0	0	0	0	0	0	0	8,731,000
Total Funding	33,020,000	0	0	0	0	0	0	0	33,020,000

Project Title: Urban Education Campus-BOE Component

Project Number: 1319

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This represents the Board of Education's component of the intergovernmental partnership that supports the revitalization of the urban core of Hagerstown.

Assumptions & Justifications:

Commissioners response to need identified by Board and other organizations.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	7,000,000	0	4,000,000	3,000,000	0	0	0	0	0
Total Cost	7,000,000	0	4,000,000	3,000,000	0	0	0	0	0

Funding Sources:

State Grant	3,000,000	0	0	3,000,000	0	0	0	0	0
Contributions	4,000,000	0	4,000,000	0	0	0	0	0	0
Total Funding	7,000,000	0	4,000,000	3,000,000	0	0	0	0	0

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Hagerstown Community College
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
<u>Hagerstown Community College</u>										
108	Learning Resource Center Renovation	3,221,000	1,190,000	1,085,000	946,000	0	0	0	0	0
109	Teacher Education Center and Roof Replacement	1,583,000	0	0	0	0	0	0	0	1,583,000
110	Student Center Parking Lot	697,000	0	35,000	0	662,000	0	0	0	0
111	SMART/Alternative Energy House/Training Center	2,103,000	150,000	1,150,000	803,000	0	0	0	0	0
112	Business Incubator/Technical Innovation Center (TIC) Upgrade	4,250,000	0	0	0	280,000	3,970,000	0	0	0
113	Commercial Transportation Instructional Facility	6,500,000	0	0	0	0	0	0	1,414,000	5,086,000
114	LRC Exterior Metal Panel System and Roof Replacement	1,685,000	0	0	0	0	118,000	1,567,000	0	0
	Hagerstown Community College Total	20,039,000	1,340,000	2,270,000	1,749,000	942,000	4,088,000	1,567,000	1,414,000	6,669,000
Funding Sources										
	General Fund	731,000	0	35,000	0	0	42,000	556,000	0	98,000
	Tax Supported Bond	4,522,000	0	404,000	689,000	312,000	1,409,000	0	502,000	1,206,000
	Federal Grant	646,000	646,000	0	0	0	0	0	0	0
	State Grant	12,841,000	599,000	1,477,000	810,000	630,000	2,637,000	1,011,000	912,000	4,765,000
	Contributions	1,299,000	95,000	354,000	250,000	0	0	0	0	600,000
		20,039,000	1,340,000	2,270,000	1,749,000	942,000	4,088,000	1,567,000	1,414,000	6,669,000

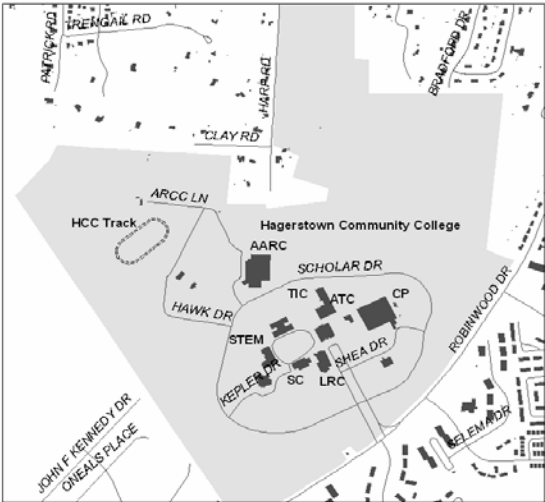
Project Title: Learning Resource Center Renovation

Project Number: 96

Account Number: COL023

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

Much of the library book stack space currently located in this building will be re-purposed to accommodate Middle College students (fulltime dual enrolled high school students who will receive a high school diploma as well as AA degree at the completion of 2 years) so that they have a home base and so that they can be more closely monitored due to their age. As the Middle College continues to expand, this dedicated space is needed to support these younger fulltime day students.

Assumptions & Justifications:

State share approximately 64.5%
ARC Grant \$496,000

The College needs to be able to support the increasing number of younger students attending the Middle College (dual enrolled with State student support going to WCPS).

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Architect Fees	95,000	95,000	0	0	0	0	0	0	0
Construction	2,180,000	1,095,000	1,085,000	0	0	0	0	0	0
Equipment/Furniture	946,000	0	0	946,000	0	0	0	0	0
Total Cost	3,221,000	1,190,000	1,085,000	946,000	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	712,000	0	404,000	308,000	0	0	0	0	0
Federal Grant	496,000	496,000	0	0	0	0	0	0	0
State Grant	1,918,000	599,000	681,000	638,000	0	0	0	0	0
Contributions	95,000	95,000	0	0	0	0	0	0	0
Total Funding	3,221,000	1,190,000	1,085,000	946,000	0	0	0	0	0

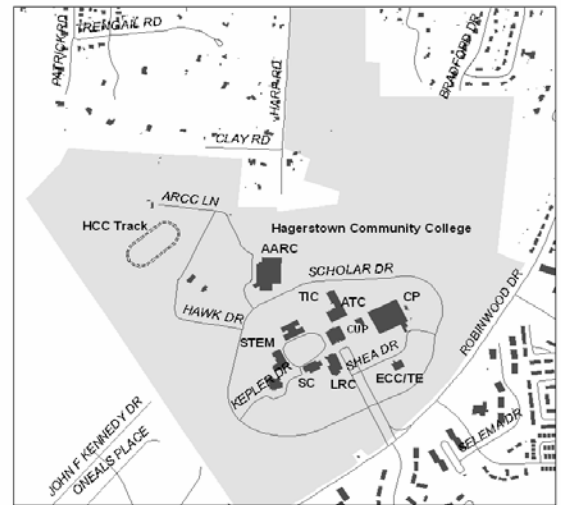
Project Title: Teacher Education Center and Roof Replacement

Project Number: 1219

Account Number:

Projected Annual FTE's: 1

Projected Operating Costs: \$25,000



Description:

The scope of this project will completely renovate the existing facility to accommodate the Children's Learning Center (CLC) and the College's teacher education program. Built in 1970, the aging building will need a new roof (shingles replaced in 1992), asbestos and lead abatement, ADA improvements and new mechanical systems. The design criteria will include a cost study to compare the cost of renovation versus demolition and reconstruction.

Child care on campus helps support and serves all segments of its service population, including persons who could not attend college without low cost and convenient child care. The College's current CLC has been in operation since 1998 and is licensed for 63 children, ages two to five years, and is located in the Administration and Student Affairs Building (ASAB). Moving the current CLC into the former Robinwood Center is central to the project because inclusion of dedicated early childhood education teaching space is needed.

Assumptions & Justifications:

State share approximately 64.5%

The now vacant Robinwood Center, formerly leased by HCC to the Washington County Public Schools until 2011, needs to be renovated to accomplish these two interrelated goals. Along with the current spaces allocated for children's rooms, there will be adult classrooms for the Early Childhood Education program students and related HCC programs; an education technology lab; prep kitchen; indoor and outdoor play areas; observational areas, offices for faculty and child care personnel, and support spaces.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Architect Fees	283,000	0	0	0	0	0	0	0	283,000
Construction	1,300,000	0	0	0	0	0	0	0	1,300,000
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Total Cost	1,583,000	0	0	0	0	0	0	0	1,583,000

Funding Sources:

General Fund	98,000	0	0	0	0	0	0	0	98,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
State Grant	1,485,000	0	0	0	0	0	0	0	1,485,000
Contributions	0	0	0	0	0	0	0	0	0
Total Funding	1,583,000	0	0	0	0	0	0	0	1,583,000

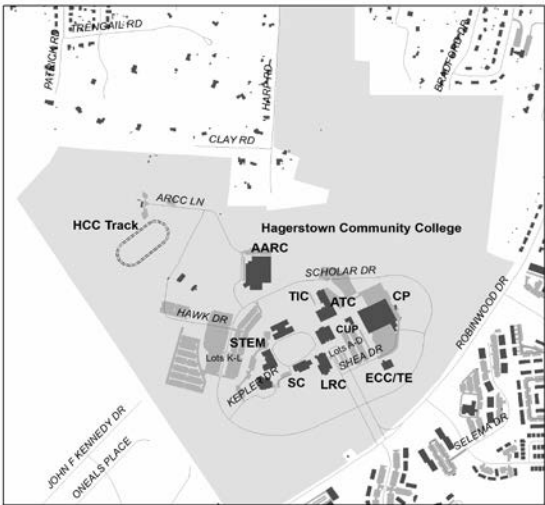
Project Title: Student Center Parking Lot

Project Number: 1292

Account Number: COL024

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

A new parking lot is needed and is planned for the front of the Student Center. This parking lot will contain approximately 100 spaces, inclusive of those for visitors and for handicapped accessibility. The project will include lighting, gates, sidewalks, and curbing.

Assumptions & Justifications:

State share approximately 64.5%

If this project is not funded, parking will remain limited, which is a concern for those needing handicapped accessibility to the Student Center. Currently limited spaces for visitors are located in front of the Administration and Student Affairs Building. While there are some handicapped parking spaces near the Student Center, they serve the three buildings that comprise the Arts and Sciences Complex. This parking lot is vital to accessing the Student Center as well as the Learning Resource Center.

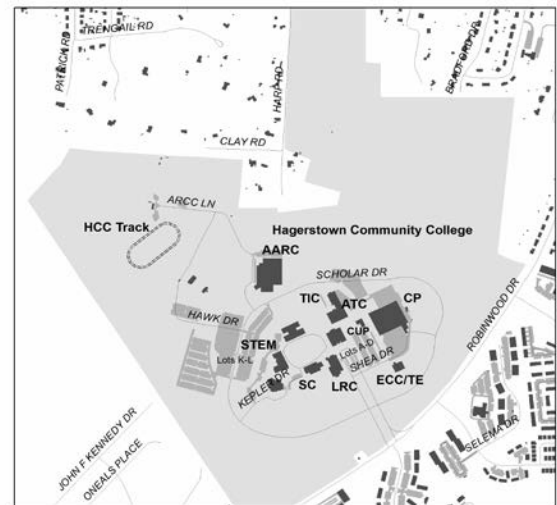
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	35,000	0	35,000	0	0	0	0	0	0
Construction	662,000	0	0	0	662,000	0	0	0	0
Total Cost	697,000	0	35,000	0	662,000	0	0	0	0

Funding Sources:

General Fund	35,000	0	35,000	0	0	0	0	0	0
Tax Supported Bond	213,000	0	0	0	213,000	0	0	0	0
State Grant	449,000	0	0	0	449,000	0	0	0	0
Total Funding	697,000	0	35,000	0	662,000	0	0	0	0

Project Title: SMART/Alternative Energy House/Training Center**Project Number:** 1295**Account Number:****Projected Annual FTE's:** 1**Projected Operating Costs:** \$68,000**Description:**

This project will create a Smart House/Energy Efficiency Training Center that will provide learning opportunities by serving as a laboratory/job training facility for students in HCC's Alternative Energy Technology (AET) and Digital Instrumentation/Process Controls programs.

Assumptions & Justifications:

State share approximately 64.5%

Previously awarded ARC grant to support \$150,000 for equipment

HCC currently has a STEM building to train AET technicians, but no location in which to train these technicians to work with residential applications. The Smart House/Energy Efficiency Training Center will provide the latter. Regional employers will also benefit from this project because it will provide a place in which they can train prospective or current employees.

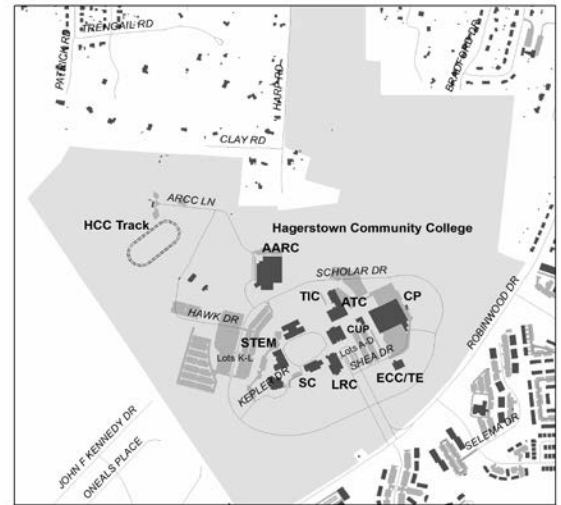
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	92,000	0	92,000	0	0	0	0	0	0
Construction	1,410,000	0	1,058,000	352,000	0	0	0	0	0
Equipment/Furniture	601,000	150,000	0	451,000	0	0	0	0	0
Total Cost	2,103,000	150,000	1,150,000	803,000	0	0	0	0	0

Funding Sources:

Tax Supported Bond	381,000	0	0	381,000	0	0	0	0	0
Federal Grant	150,000	150,000	0	0	0	0	0	0	0
State Grant	968,000	0	796,000	172,000	0	0	0	0	0
Contributions	604,000	0	354,000	250,000	0	0	0	0	0
Total Funding	2,103,000	150,000	1,150,000	803,000	0	0	0	0	0

Project Title: Business Incubator/Technical Innovation Center (TIC) Upgrade**Project Number:** 1324**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

As the County's business incubator/accelerator, the College's TIC is in need of renovation and essential technical upgrades to attract and support County economic development. Built in 1993, this project will include a new roof as well, and extensive technology upgrades which will make the rental spaces more attractive to high tech startups. HCC provides professional office space including wired and wireless internet access. Requirements for improving the building technology infrastructure call for a complete rewiring to meet current standards, along with a dedicated server, network switches to support wired and wireless access points, and dedicated fiber to provide sufficient bandwidth are needed to provide growth. A collaboration/conference area will provide client spaces for training sessions, videoconferencing, etc. Through the years as tenants move out, minor repairs, including painting and new carpet have been required.

Assumptions & Justifications:

State share approximately 64.5%

The Business Incubator of the County is in need of renovation and essential technical upgrades to support County economic development.

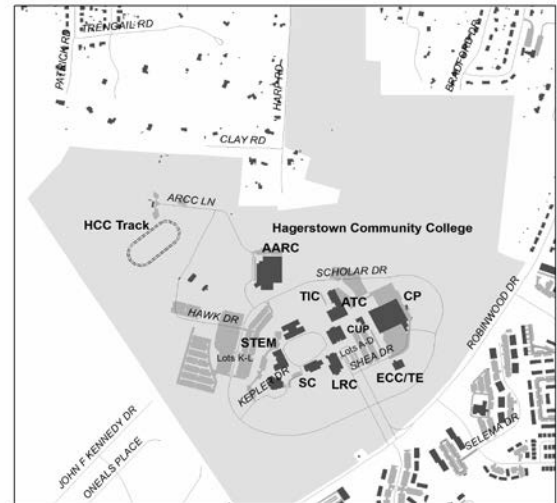
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	280,000	0	0	0	280,000	0	0	0	0
Construction	3,170,000	0	0	0	0	3,170,000	0	0	0
Equipment/Furniture	300,000	0	0	0	0	300,000	0	0	0
Hardware/Software	500,000	0	0	0	0	500,000	0	0	0
Total Cost	4,250,000	0	0	0	280,000	3,970,000	0	0	0

Funding Sources:

Tax Supported Bond	1,508,000	0	0	0	99,000	1,409,000	0	0	0
State Grant	2,742,000	0	0	0	181,000	2,561,000	0	0	0
Total Funding	4,250,000	0	0	0	280,000	3,970,000	0	0	0

Project Title: Commercial Transportation Instructional Facility**Project Number:** 1325**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$25,000**Description:**

The Commercial Transportation Instructional (CTI) facility will house the college's Commercial Vehicle Transportation (CVT) program, forklift training, and drone staging area. The CVT Specialist Certificate program is a 16-credit cohort skills-oriented program for those individuals seeking a career in professional truck driving and consists of classroom, skills, and field instruction based on industry-recognized standards. This program is the largest retraining program for unemployed persons in Washington County. The curriculum consists of classroom, skills, and field instruction and is based on industry recognized skill standards. By providing such training, the facility will support economic development in the service region for not only the transportation industry, but for warehousing and distribution centers along the I-81 and 70 corridors.

Assumptions & Justifications:

Approximately 64.5% State Support

The trucking industry is a vital component to economic growth locally, statewide, and nationally, with trucks hauling 70 percent of all freight tonnage. The College's CVT program supports one of the local Economic Development Commission's workforce development priorities, which states, "The trucking industry continues to exhibit a high demand for CDL-A drivers, a national trend as well as the largest demand occupation locally." The trucking industry locally and nationally is not attracting drivers at the rate to keep up with demand and growth. According to the American Trucking Associations (ATA), the industry is about 30,000 short of qualified drivers. Over the next ten years, that number is set to rise to 200,000 in an industry that averages 115-120 percent annual turnover rate. Along with nursing and health sciences programs, the CVT program has the highest completion and placement rates at HCC. It is critical that the College have adequate facilities to train students. The College will continue to lease facilities. The current facility is located in the far north end of Hagerstown less than a mile from the Pennsylvania line. Travel times from the main campus can take up to 20-25 minutes depending on time of day and traffic, and there is no public transportation available to/from the site.

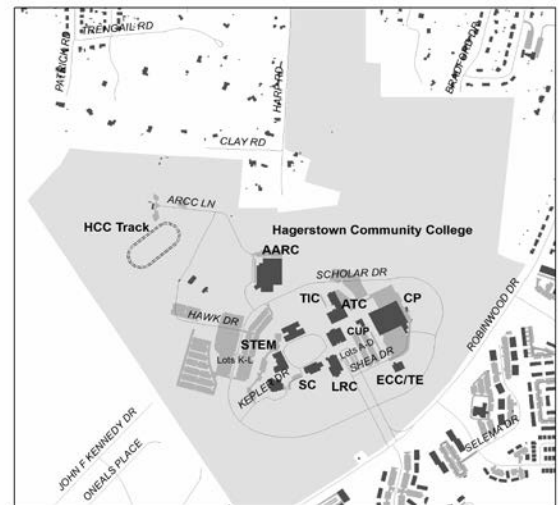
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	1,414,000	0	0	0	0	0	0	1,414,000	0
Construction	4,686,000	0	0	0	0	0	0	0	4,686,000
Equipment/Furniture	400,000	0	0	0	0	0	0	0	400,000
Total Cost	6,500,000	0	0	0	0	0	0	1,414,000	5,086,000

Funding Sources:

Tax Supported Bond	1,708,000	0	0	0	0	0	0	502,000	1,206,000
State Grant	4,192,000	0	0	0	0	0	0	912,000	3,280,000
Contributions	600,000	0	0	0	0	0	0	0	600,000
Total Funding	6,500,000	0	0	0	0	0	0	1,414,000	5,086,000

Project Title: LRC Exterior Metal Panel System and Roof Replacement**Project Number:** 1327**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

This project calls for the replacement of the original 22,222 SF roof, which is built-up asphalt. There are also several smaller standing seam metal roof sections. The exterior metal panel system is a first generation system that uses a gasket and clip system to attach them to the building structure. These early generation systems have poor insulating properties and have been plagued by water infiltration issues. Many of the roof flashing details integrate with the metal panel system requiring both systems be replaced in conjunction with each other. The main roof sections will be replaced with an Energy Star rated modified bitumen system. The metal roofing sections will be replaced with new standing seam roof systems. Both roof systems will include new flashing details to prevent water infiltration. The metal panel system will be replaced with a new metal panel system that has been engineered to improve the insulating properties and performance.

Assumptions & Justifications:

This project is needed to avoid costly repairs.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	118,000	0	0	0	0	118,000	0	0	0
Construction	1,567,000	0	0	0	0	0	1,567,000	0	0
Total Cost	1,685,000	0	0	0	0	118,000	1,567,000	0	0

Funding Sources:

General Fund	598,000	0	0	0	0	42,000	556,000	0	0
State Grant	1,087,000	0	0	0	0	76,000	1,011,000	0	0
Total Funding	1,685,000	0	0	0	0	118,000	1,567,000	0	0

Public Libraries
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Total	Prior Appr.	Budget Year	Ten Year Capital Program					
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
<u>Public Libraries</u>										
116	Systemic Projects - Library	125,300	26,300	10,000	10,000	10,000	10,000	10,000	10,000	39,000
117	Hancock Public Library Replacement	3,001,000	277,000	10,000	10,000	10,000	78,000	2,616,000	0	0
Public Libraries Total		3,126,300	303,300	20,000	20,000	20,000	88,000	2,626,000	10,000	39,000
Funding Sources										
General Fund		108,100	78,100	10,000	10,000	10,000	0	0	0	0
Tax Supported Bond		869,000	0	0	0	0	78,000	791,000	0	0
Excise Tax - Library		149,200	50,200	10,000	10,000	10,000	10,000	10,000	10,000	39,000
State Grant		1,460,000	175,000	0	0	0	0	1,285,000	0	0
Contributions		540,000	0	0	0	0	0	540,000	0	0
		3,126,300	303,300	20,000	20,000	20,000	88,000	2,626,000	10,000	39,000

Project Title: Systemic Projects - Library

Project Number: 1090

Account Number: BLD075

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

Future systemic projects could include chillers, boilers, rooftop HVAC units, cooling towers, roof replacements.

Assumptions & Justifications:

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Construction	125,300	26,300	10,000	10,000	10,000	10,000	10,000	10,000	39,000
Total Cost	125,300	26,300	10,000	10,000	10,000	10,000	10,000	10,000	39,000

Funding Sources:

General Fund	40,000	10,000	10,000	10,000	10,000	0	0	0	0
Excise Tax - Library	85,300	16,300	0	0	0	10,000	10,000	10,000	39,000
Total Funding	125,300	26,300	10,000	10,000	10,000	10,000	10,000	10,000	39,000

Project Title: Hancock Public Library Replacement

Project Number: 1120

Account Number: BLD077

Projected Annual FTE's: 1.5

Projected Operating Costs: \$56,000



Description:

This project includes the construction of a new public library in the town of Hancock. The project will include enhancements to the proposed site including parking and a stormwater management facility.

Assumptions & Justifications:

Library will be built with County funding not to exceed \$1 million. This represents the amount due to the Board of Trustees of the Washington County Library. The Library is forward funding the project costs with County reimbursement occurring in 2022. The estimated population served by the proposed facility is 4,358.

The existing structure is structurally and functionally deficient. The existing building experiences thermal and moisture protection problems. The building has no fire suppression system and has areas that are not in compliance with ADA requirements.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	385,000	277,000	10,000	10,000	10,000	78,000	0	0	0
Construction	2,616,000	0	0	0	0	0	2,616,000	0	0
Inspection	0	0	0	0	0	0	0	0	0
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Utilities	0	0	0	0	0	0	0	0	0
Total Cost	3,001,000	277,000	10,000	10,000	10,000	78,000	2,616,000	0	0

Funding Sources:

General Fund	68,100	68,100	0	0	0	0	0	0	0
Tax Supported Bond	869,000	0	0	0	0	78,000	791,000	0	0
Excise Tax - Library	63,900	33,900	10,000	10,000	10,000	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
State Grant	1,460,000	175,000	0	0	0	0	1,285,000	0	0
Contributions	540,000	0	0	0	0	0	540,000	0	0
Total Funding	3,001,000	277,000	10,000	10,000	10,000	78,000	2,616,000	0	0

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General Government

*General Government
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027*

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
General Government										
120	Contingency - General Fund	1,109,305	124,305	100,000	98,000	99,000	98,000	98,000	99,000	393,000
121	Bond Issuance Costs	1,105,000	122,000	98,000	98,000	99,000	98,000	98,000	99,000	393,000
122	Financial System Management & Upgrades	1,769,796	846,796	444,000	208,000	32,000	32,000	33,000	34,000	140,000
123	General - Equipment and Vehicle Replacement Program	4,837,589	397,589	408,000	416,000	424,000	432,000	440,000	448,000	1,872,000
124	Demolition of Structures on Various County Properties	110,000	10,000	100,000	0	0	0	0	0	0
125	County Administration Building Exterior Enhancements and Site Improvements	1,014,000	357,000	357,000	300,000	0	0	0	0	0
126	Building Renovations 33-35 W. Washington Street	1,097,000	587,000	510,000	0	0	0	0	0	0
127	Information Systems Replacement Program	2,230,285	168,285	153,000	166,000	180,000	194,000	209,000	224,000	936,000
128	Broadband Wireless Network Infrastructure	270,856	133,856	36,000	10,000	11,000	11,000	11,000	11,000	47,000
129	GIS Planimetric Data Update	150,000	0	74,000	76,000	0	0	0	0	0
130	Systemic Improvements-Buildings	2,412,828	592,828	49,000	197,000	196,000	197,000	197,000	196,000	788,000
131	Tree Forestation	173,548	49,548	0	21,000	0	22,000	0	22,000	59,000
General Government Total		16,280,207	3,389,207	2,329,000	1,590,000	1,041,000	1,084,000	1,086,000	1,133,000	4,628,000
Funding Sources										
	General Fund	13,383,672	1,127,672	1,732,000	1,552,000	1,041,000	1,084,000	1,086,000	1,133,000	4,628,000
	Tax Supported Bond	1,476,000	966,000	510,000	0	0	0	0	0	0
	Capital Reserve - General	1,345,535	1,295,535	50,000	0	0	0	0	0	0
	Federal Grant	75,000	0	37,000	38,000	0	0	0	0	0
		16,280,207	3,389,207	2,329,000	1,590,000	1,041,000	1,084,000	1,086,000	1,133,000	4,628,000

Project Title: Contingency - General Fund

Project Number: 1

Account Number: ADM002

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project serves as a reserve to provide for emergency or unanticipated expenditures for all categories.

Assumptions & Justifications:

Due to the inherent uncertainty in estimating capital project costs, it is the written policy of the County to maintain project contingency. It is also good management practice to increase the Contingency due to the increase of Capital Program requests and rising number of individual projects, as one project overrun or unanticipated project could use all available funds. In the event that the capital contingency accounts have excess funds, the annual appropriation for that purpose may be modified to reflect the source of funds as determined through the budget process.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Contingency	1,109,305	124,305	100,000	98,000	99,000	98,000	98,000	99,000	393,000
Other	0	0	0	0	0	0	0	0	0
Total Cost	1,109,305	124,305	100,000	98,000	99,000	98,000	98,000	99,000	393,000

Funding Sources:

General Fund	1,109,305	124,305	100,000	98,000	99,000	98,000	98,000	99,000	393,000
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	1,109,305	124,305	100,000	98,000	99,000	98,000	98,000	99,000	393,000

Project Title: Bond Issuance Costs

Project Number: 2

Account Number: ADM001

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project is for costs associated with the sale of bonds. The costs include fees for printing, financial advisor, bond counsel, discounts, and rating agency fees.

Assumptions & Justifications:

Bond issuance is required to finance the capital improvement plan.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Bond Issuance Expense	1,105,000	122,000	98,000	98,000	99,000	98,000	98,000	99,000	393,000
Other	0	0	0	0	0	0	0	0	0
Total Cost	1,105,000	122,000	98,000	98,000	99,000	98,000	98,000	99,000	393,000

Funding Sources:

General Fund	1,083,000	100,000	98,000	98,000	99,000	98,000	98,000	99,000	393,000
Tax Supported Bond	22,000	22,000	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	1,105,000	122,000	98,000	98,000	99,000	98,000	98,000	99,000	393,000

Project Title: Financial System Management & Upgrades

Project Number: 969

Account Number: COM019

Projected Annual FTE's: 0

Projected Operating Costs: \$20,000

Description:

Integrated financial system (general ledger, human resources, payroll, financial, purchasing, utility, and budget) is used for county-wide operations to process all financials, human resource, payroll, and purchasing functions for the County.

Assumptions & Justifications:

Provides for more efficient use of time and money as systems, employees, and financial management expand to meet demands in the future.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Hardware/Software	1,769,796	846,796	444,000	208,000	32,000	32,000	33,000	34,000	140,000
Total Cost	1,769,796	846,796	444,000	208,000	32,000	32,000	33,000	34,000	140,000

Funding Sources:

General Fund	1,184,963	261,963	444,000	208,000	32,000	32,000	33,000	34,000	140,000
Capital Reserve - General	584,833	584,833	0	0	0	0	0	0	0
Total Funding	1,769,796	846,796	444,000	208,000	32,000	32,000	33,000	34,000	140,000

Project Title: General - Equipment and Vehicle Replacement Program

Project Number: 1174

Account Number: VEH008

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will serve to replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well-managed organization, the County wants to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

- State's Attorney - 10220 - Vehicle - \$20,470
- Public Relations - 10310 - 7 Passenger Minivan - \$21,310
- Wireless Communications - 11540 - 4x4 Ext Cab Pickup Truck - \$25,800
- Plan Review - 11610- Mid-Size/Compact SUV - \$24,500
- Construction - 11630 - 3 Mid-Size/Compact SUV - \$24,500 ea.; 1/2 Ton Pickup Truck - \$24,800
- Parks & Facilities - 1 Ton Pickup w/ Plow - \$76,000; Dump Truck - \$130,000; Wood Chipper - \$48,000

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide County-wide services within Washington County. The County's equipment and vehicle inventory consists of approximately 2,300 items.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	0	0	0	0	0	0	0	0	0
Vehicles	4,837,589	397,589	408,000	416,000	424,000	432,000	440,000	448,000	1,872,000
Total Cost	4,837,589	397,589	408,000	416,000	424,000	432,000	440,000	448,000	1,872,000

Funding Sources:

General Fund	4,583,000	193,000	358,000	416,000	424,000	432,000	440,000	448,000	1,872,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	254,589	204,589	50,000	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	4,837,589	397,589	408,000	416,000	424,000	432,000	440,000	448,000	1,872,000

Project Title: Demolition of Structures on Various County Properties

Project Number: 1111

Account Number: LDI041

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

Washington County has acquired properties at various locations in the county for future capital improvements. These properties have associated buildings/structures that are expected to be demolished for upcoming county projects.

Assumptions & Justifications:

The existing properties are not completely conducive for future county work without demolition of these structures.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	110,000	10,000	100,000	0	0	0	0	0	0
Total Cost	110,000	10,000	100,000	0	0	0	0	0	0

Funding Sources:

General Fund	110,000	10,000	100,000	0	0	0	0	0	0
Total Funding	110,000	10,000	100,000	0	0	0	0	0	0

Project Title:

County Administration Building Exterior Enhancements and Site Improvements

Project Number:

1300

Account Number:

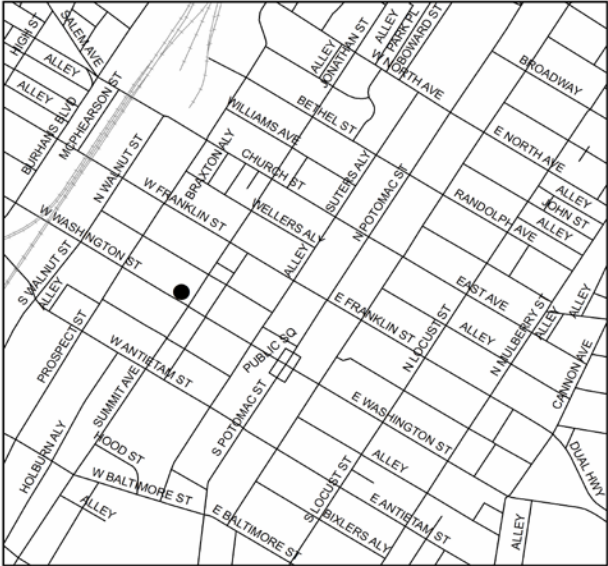
BLD091

Projected Annual FTE's:

0

Projected Operating Costs:

\$0



Description:

The project is for exterior enhancements to the County Administration Building and property at 100 West Washington Street. The project includes cleaning, sealing, painting, and repairs to the building, entrances, and elevators as well as site improvements to the property including providing additional parking facilities.

Assumptions & Justifications:

Exterior enhancements and site improvements are required to maintain the functionality of the building and property.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	51,000	51,000	0	0	0	0	0	0	0
Construction	963,000	306,000	357,000	300,000	0	0	0	0	0
Total Cost	1,014,000	357,000	357,000	300,000	0	0	0	0	0

Funding Sources:

General Fund	657,000	0	357,000	300,000	0	0	0	0	0
Tax Supported Bond	357,000	357,000	0	0	0	0	0	0	0
Total Funding	1,014,000	357,000	357,000	300,000	0	0	0	0	0

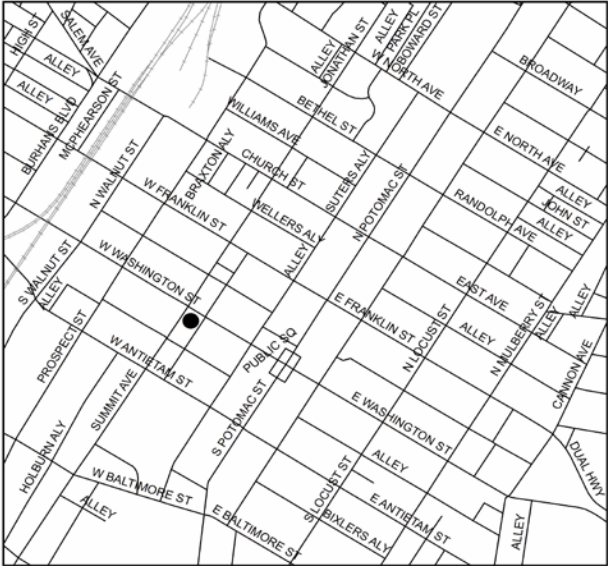
Project Title: Building Renovations 33-35 W. Washington Street

Project Number: 1304

Account Number: BLD092

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project involves the relocation of the Register of Wills from the Circuit Courthouse to the 2nd Floor of 33 West Washington Street and allows for a new Master Court in the location left unoccupied in the Circuit Courthouse. Work includes renovations to 4,400 SF of office space at 33 West Washington Street including construction of an orphans courtroom and relocation of high density filing as well as renovations to 2,900 SF of office space at the Circuit Courthouse left unoccupied.

Assumptions & Justifications:

The renovations at 33 West Washington Street provide additional space for the Orphans Court and the area left unoccupied at the Circuit Court will provide space for a second Master Court.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	77,000	77,000	0	0	0	0	0	0	0
Construction	1,020,000	510,000	510,000	0	0	0	0	0	0
Total Cost	1,097,000	587,000	510,000	0	0	0	0	0	0

Funding Sources:

Tax Supported Bond	1,097,000	587,000	510,000	0	0	0	0	0	0
Total Funding	1,097,000	587,000	510,000	0	0	0	0	0	0

Project Title: Information Systems Replacement Program

Project Number: 3

Account Number: COM011

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The Information System Replacement Program focuses on the investment in infrastructure hardware and software that provide the foundation on which the business and enterprise systems reside. The Information Technology area currently maintains more than 40 business applications and additionally includes the County's telecommunications (telephone) system.

Assumptions & Justifications:

The systems and software serve the departments and typically reach the end of their useful life-expectancy between 3 and 8 years, at which point the systems become increasingly costly to maintain and difficult to exchange information with other systems. Priorities for determining which applications to replace first are driven by age, criticality of the system to operations, and availability of ongoing support from the applications vendor.

The goal of the Information Systems Replacement Program is to keep the County's existing business systems refreshed or replaced on a reasonably expected system life-cycle so the systems remain useful, operable, and responsive to business needs.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Hardware/Software	2,230,285	168,285	153,000	166,000	180,000	194,000	209,000	224,000	936,000
Other	0	0	0	0	0	0	0	0	0
Total Cost	2,230,285	168,285	153,000	166,000	180,000	194,000	209,000	224,000	936,000

Funding Sources:

General Fund	2,215,000	153,000	153,000	166,000	180,000	194,000	209,000	224,000	936,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	15,285	15,285	0	0	0	0	0	0	0
Utility Fund	0	0	0	0	0	0	0	0	0
Total Funding	2,230,285	168,285	153,000	166,000	180,000	194,000	209,000	224,000	936,000

Project Title: Broadband Wireless Network Infrastructure

Project Number: 984

Account Number: COM021

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The Washington County Broadband Wireless Network Infrastructure System provides fixed broadband (high speed) primary and redundant connectivity for County facilities (i.e. WTP; WwTP, and Pump Station) to network services and a resilient and redundant pathway for the County's fiber network infrastructure. Additionally, this system is available to County divisions and departments and the Washington County Public Network (WCPN) partners that include agencies such as the Washington County Public Schools, Washington County Free Library, 911 Emergency Services, Sheriff's Department, City of Hagerstown Police Department and other City departments and agencies.

Assumptions & Justifications:

Wireless communication technology typically reach the end of their useful life-expectancy between 5 and 8 years, at which point the systems become increasingly costly to maintain and difficult to find acceptable replacement technology that meet or exceed bandwidth needs.

The goal of the Washington County Broadband Wireless Network Infrastructure System is to provide for the efficient and cost effective communication between the sixty (60) plus County Environmental Management facilities and to provide for a resilient and redundant pathway for the County's fiber network infrastructure.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	71,520	71,520	0	0	0	0	0	0	0
Hardware/Software	199,336	62,336	36,000	10,000	11,000	11,000	11,000	11,000	47,000
Total Cost	270,856	133,856	36,000	10,000	11,000	11,000	11,000	11,000	47,000

Funding Sources:

General Fund	225,856	88,856	36,000	10,000	11,000	11,000	11,000	11,000	47,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	45,000	45,000	0	0	0	0	0	0	0
Total Funding	270,856	133,856	36,000	10,000	11,000	11,000	11,000	11,000	47,000

Project Title: GIS Planimetric Data Update

Project Number: 1323

Account Number: COM028

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

Washington County's existing topographic data set acquired in 2005 needs updated. The State of Maryland will be flying new aerial photos in the spring of 2017 and an opportunity exists to purchase additional data products from the vendor via a competitively bid Maryland State contract. The topographic data set would include building footprints, edge of roads, paved and unpaved lanes and parking areas, sidewalks, etc.

Assumptions & Justifications:

Pending grant approval, application is being made through the Appalachian Regional Commission for a 50% matching grant. The City of Hagerstown would also benefit from the updated topographic data and may also make a contribution to the project.

A significant amount of development has occurred over the past twelve (12) years since the current topography data was acquired. An update of this data would benefit many County departments, such as, the Division of Environmental Management to calculate areas of impervious surfaces to meet state and federal regulations; the Division of Emergency Services in order to meet the requirements of the Next Generation 911 mandate; the Division of Engineering and Construction for use in preliminary engineering, plan review, and permitting.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	150,000	0	74,000	76,000	0	0	0	0	0
Total Cost	150,000	0	74,000	76,000	0	0	0	0	0

Funding Sources:

General Fund	75,000	0	37,000	38,000	0	0	0	0	0
Federal Grant	75,000	0	37,000	38,000	0	0	0	0	0
Total Funding	150,000	0	74,000	76,000	0	0	0	0	0

Project Title: Systemic Improvements-Buildings

Project Number: 1148

Account Number: BLD078

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project includes a variety of upgrades and/or replacements including, but not limited to, air conditioning, weatherproofing, roofing and other building improvements.

Assumptions & Justifications:

Pending general fund monies availability.

Renovations are required to maintain the functionality of the buildings.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	2,412,828	592,828	49,000	197,000	196,000	197,000	197,000	196,000	788,000
Total Cost	2,412,828	592,828	49,000	197,000	196,000	197,000	197,000	196,000	788,000

Funding Sources:

General Fund	1,967,000	147,000	49,000	197,000	196,000	197,000	197,000	196,000	788,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	445,828	445,828	0	0	0	0	0	0	0
Total Funding	2,412,828	592,828	49,000	197,000	196,000	197,000	197,000	196,000	788,000

Project Title: Tree Forestation

Project Number: 1126

Account Number: LDI043

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will plant trees to construct forested areas to meet the Total Maximum Daily Load (TMDL) / Watershed Implementation Plan (WIP) requirements.

Assumptions & Justifications:

The project will be coordinated with the Soil Conservation District. Land is to be provided at no cost.

This project is requested to meet the regulatory requirements imposed by the EPA and MDE relating to the TMDL and NPDES permit.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	173,548	49,548	0	21,000	0	22,000	0	22,000	59,000
Total Cost	173,548	49,548	0	21,000	0	22,000	0	22,000	59,000

Funding Sources:

General Fund	173,548	49,548	0	21,000	0	22,000	0	22,000	59,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Self Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	173,548	49,548	0	21,000	0	22,000	0	22,000	59,000

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Parks & Recreation

Parks & Recreation
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Project Costs											
<u>Parks & Recreation</u>											
134	BR Capital Equipment Replacement Program	560,666	5,666	51,000	52,000	53,000	54,000	55,000	56,000	234,000	
135	North Central County Park	93,000	0	0	0	0	0	0	0	93,000	
136	Regional Park Equip. Replacement	133,000	41,000	92,000	0	0	0	0	0	0	
137	Chestnut Grove Park, Overlay Parking Lot	42,000	0	0	42,000	0	0	0	0	0	
138	Tennis Courts, Resurfacing	179,300	117,300	20,000	21,000	21,000	0	0	0	0	
139	Ag Center Land Acquisition Development	156,000	0	51,000	52,000	53,000	0	0	0	0	
140	MLS Pool Sun Shades	10,000	0	10,000	0	0	0	0	0	0	
Parks & Recreation Total		1,173,966	163,966	224,000	167,000	127,000	54,000	55,000	56,000	327,000	
Funding Sources											
General Fund		763,946	24,946	86,000	82,000	79,000	54,000	55,000	56,000	327,000	
State Grant		410,020	139,020	138,000	85,000	48,000	0	0	0	0	
		1,173,966	163,966	224,000	167,000	127,000	54,000	55,000	56,000	327,000	

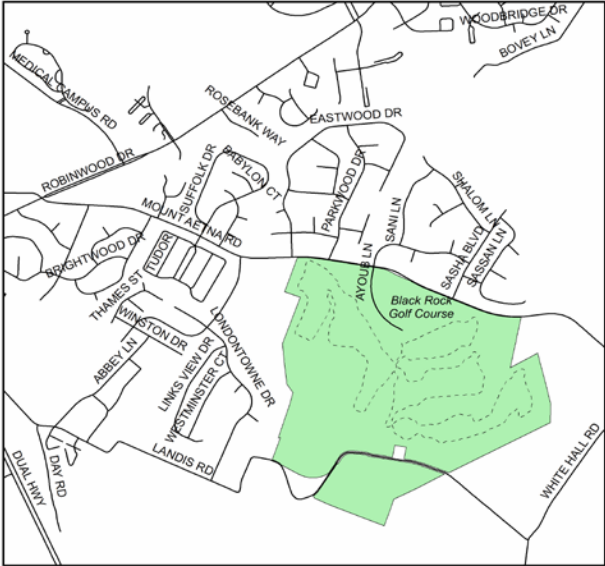
Project Title:BR Capital Equipment Replacement Program

Project Number:935

Account Number:EQP053

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The program allows for the purchase of replacement equipment used for services directly related to Black Rock Golf Course.

Assumptions & Justifications:

The goal of the replacement program is to balance replacement costs versus maintenance costs. In line with the objectives of a well-managed organization, Black Rock Golf Course strives to establish an equipment replacement program that will set the equipment replacement cycle in line with best practices, minimizing maintenance costs.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	0	0	0	0	0	0	0	0	0
Equipment/Furniture	555,000	0	51,000	52,000	53,000	54,000	55,000	56,000	234,000
Vehicles	5,666	5,666	0	0	0	0	0	0	0
Total Cost	560,666	5,666	51,000	52,000	53,000	54,000	55,000	56,000	234,000

Funding Sources:

General Fund	560,666	5,666	51,000	52,000	53,000	54,000	55,000	56,000	234,000
Excise Tax - Other	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	560,666	5,666	51,000	52,000	53,000	54,000	55,000	56,000	234,000

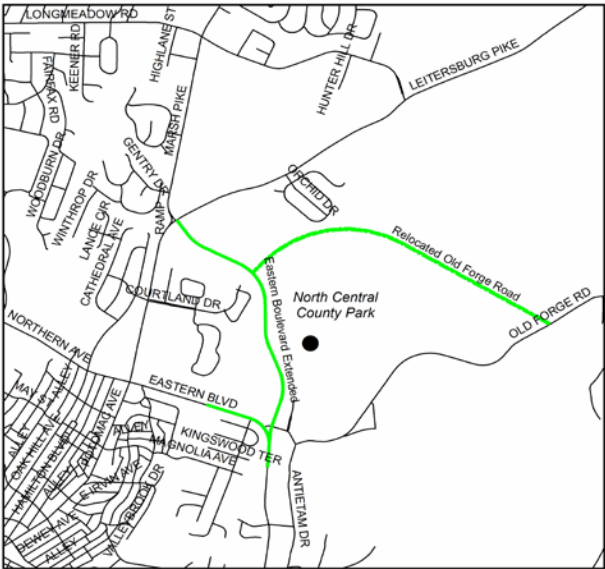
Project Title: North Central County Park

Project Number: 1123

Account Number:

Projected Annual FTE's: 2

Projected Operating Costs: \$81,000



Description:

This project involves a multi-phased development of a regional park along the north side of Eastern Boulevard Extended. Phase 1 work will include construction of an entrance road, parking lot, grading for soccer/ball fields, and an 8' wide paved pedestrian/bike path with street/park lighting. Future phases include pavilion buildings, restrooms, playground equipment and other park and recreation amenities.

Assumptions & Justifications:

This project assumes that Eastern Blvd Extended (Project 21) is completed.

This project provides additional recreational opportunities in the north end of the County. The land is currently under lease for a 99 year period.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Construction	93,000	0	0	0	0	0	0	0	93,000
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	93,000	0	0	0	0	0	0	0	93,000

Funding Sources:

General Fund	93,000	0	0	0	0	0	0	0	93,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Excise Tax - Other	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	93,000	0	0	0	0	0	0	0	93,000

Project Title: Regional Park Equip. Replacement

Project Number: 1149

Account Number: REC037

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will replace the existing Modular Playground Structure near Pavilion #2.

Assumptions & Justifications:

Pending POS Funding

The existing Playground structure is over 20 years old and is showing signs of degradation due to weather and usage.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	133,000	41,000	92,000	0	0	0	0	0	0
Total Cost	133,000	41,000	92,000	0	0	0	0	0	0

Funding Sources:

General Fund	14,000	5,000	9,000	0	0	0	0	0	0
State Grant	119,000	36,000	83,000	0	0	0	0	0	0
Total Funding	133,000	41,000	92,000	0	0	0	0	0	0

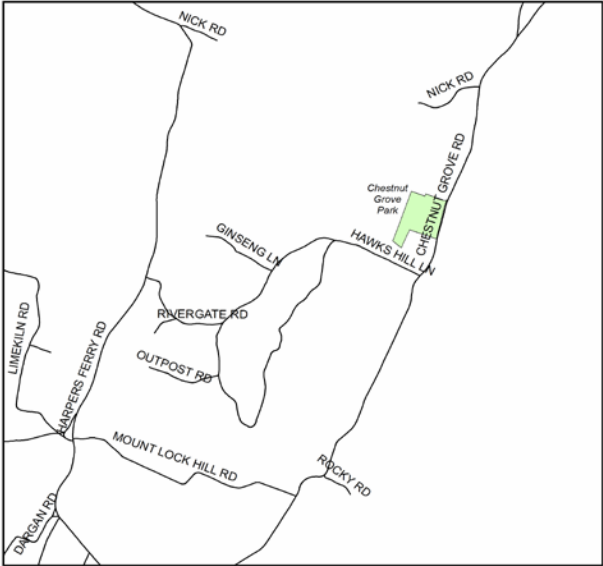
Project Title: Chestnut Grove Park, Overlay Parking Lot

Project Number: 1150

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project consists of prep work, deep patching, and overlay of the existing parking lot and access road.

Assumptions & Justifications:

Pending POS Funding (at this time the State is hesitant to fund overlay projects)

The existing park entrance and parking lot was built around 1987 which makes the asphalt approximately 28 years old and is showing signs of degradation due to ultra violet effects and weather conditions.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	42,000	0	0	42,000	0	0	0	0	0
Total Cost	42,000	0	0	42,000	0	0	0	0	0

Funding Sources:

General Fund	4,000	0	0	4,000	0	0	0	0	0
State Grant	38,000	0	0	38,000	0	0	0	0	0
Total Funding	42,000	0	0	42,000	0	0	0	0	0

Project Title: Tennis Courts, Resurfacing

Project Number: 1177

Account Number: LDI046

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project consists of cleaning, crack sealing, repainting and striping of multiple courts over several years.

Assumptions & Justifications:

General fund monies needed to perform remaining tennis court work due to changes at DNR operations. This project is no longer POS eligible.

The tennis courts were rebuilt approximately 8 to 9 years ago and in need of resurfacing which should be done every 5 to 8 years to keep the elements from getting into the sub base and creating more damage. This will be an ongoing project.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	179,300	117,300	20,000	21,000	21,000	0	0	0	0
Total Cost	179,300	117,300	20,000	21,000	21,000	0	0	0	0

Funding Sources:

General Fund	76,280	14,280	20,000	21,000	21,000	0	0	0	0
State Grant	103,020	103,020	0	0	0	0	0	0	0
Total Funding	179,300	117,300	20,000	21,000	21,000	0	0	0	0

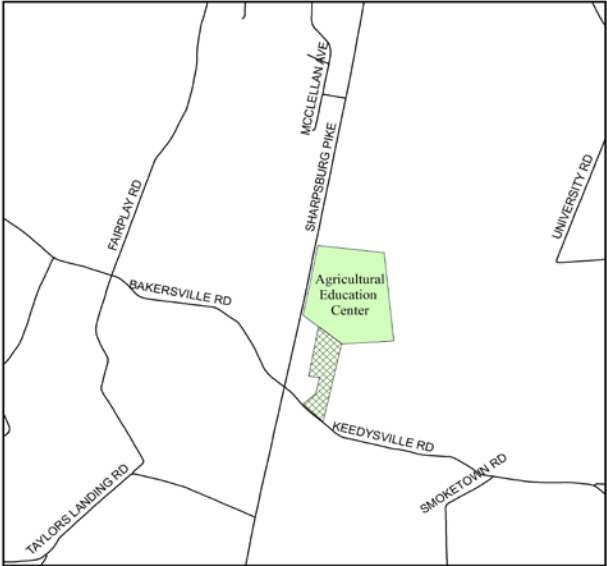
Project Title: Ag Center Land Acquisition Development

Project Number: 1290

Account Number: LDI057

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will develop the site to accommodate construction of the Equestrian Center. The project will include design plans, storm water improvements, and installation of water, sewer and electric.

Assumptions & Justifications:

Pending POS Approval

The property was acquired to relocate the Equestrian Center from the present location.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	156,000	0	51,000	52,000	53,000	0	0	0	0
Total Cost	156,000	0	51,000	52,000	53,000	0	0	0	0

Funding Sources:

General Fund	15,000	0	5,000	5,000	5,000	0	0	0	0
State Grant	141,000	0	46,000	47,000	48,000	0	0	0	0
Total Funding	156,000	0	51,000	52,000	53,000	0	0	0	0

Project Title: MLS Pool Sun Shades

Project Number: 1311

Account Number: REC039

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will install shade structures at Marty Snook Pool.

Assumptions & Justifications:

Pending POS approval.

The structures will provide shade and protect patrons from the sun.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	10,000	0	10,000	0	0	0	0	0	0
Total Cost	10,000	0	10,000	0	0	0	0	0	0

Funding Sources:

General Fund	1,000	0	1,000	0	0	0	0	0	0
State Grant	9,000	0	9,000	0	0	0	0	0	0
Total Funding	10,000	0	10,000	0	0	0	0	0	0

Public Safety

Public Safety
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
Public Safety										
142	Communication Tower(s) various locations	522,000	204,000	102,000	0	106,000	0	110,000	0	0
143	Motorola Portable Radio Replacement Program	1,212,000	102,000	102,000	104,000	106,000	108,000	110,000	112,000	468,000
144	Detention Center - Systemic Projects	3,215,000	500,000	255,000	260,000	265,000	270,000	275,000	280,000	1,110,000
145	Police, Fire and Emerg Svcs Training Facility	5,000,000	612,000	3,328,000	1,060,000	0	0	0	0	0
146	Emergency Svcs Equip & Vehicle Program	3,038,183	1,039,183	200,000	200,000	200,000	200,000	200,000	200,000	799,000
147	County Rescue Fleet Replacement	10,080,000	0	0	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000
148	Volunteer Fire Services Apparatus Reserve Fleet	2,220,000	0	204,000	208,000	212,000	216,000	220,000	224,000	936,000
149	Law Enforcement - Vehicle and Equipment Replacement Program	8,285,422	657,422	616,000	603,000	683,000	702,000	726,000	795,000	3,503,000
Public Safety Total		33,572,605	3,114,605	4,807,000	3,475,000	2,632,000	2,576,000	2,741,000	2,731,000	11,496,000
Funding Sources										
	General Fund	26,106,922	770,922	1,350,000	2,386,000	2,603,000	2,382,000	2,533,000	2,702,000	11,380,000
	Tax Supported Bond	6,100,000	1,368,000	3,328,000	1,060,000	0	165,000	179,000	0	0
	Transfer Tax	100,000	0	100,000	0	0	0	0	0	0
	Excise Tax - Other	319,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	116,000
	Capital Reserve - General	946,683	946,683	0	0	0	0	0	0	0
		33,572,605	3,114,605	4,807,000	3,475,000	2,632,000	2,576,000	2,741,000	2,731,000	11,496,000

Project Title: **Communication Tower(s) various locations**

Project Number: **1166**

Account Number: **COM027**

Projected Annual FTE's: **0**

Projected Operating Costs: **\$0**

Description:

The project includes the construction of new and replacement of old public safety communication towers at various sites.

Assumptions & Justifications:

Towers will hold public safety communications equipment and County wireless broad band equipment.

Existing towers were constructed in the 1970's and are structurally and functionally inadequate.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	522,000	204,000	102,000	0	106,000	0	110,000	0	0
Total Cost	522,000	204,000	102,000	0	106,000	0	110,000	0	0

Funding Sources:

General Fund	318,000	0	102,000	0	106,000	0	110,000	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	204,000	204,000	0	0	0	0	0	0	0
Total Funding	522,000	204,000	102,000	0	106,000	0	110,000	0	0

Project Title: Motorola Portable Radio Replacement Program

Project Number: 1297

Account Number: EQP060

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The Motorola Portable Radio Replacement Program focuses on the investment in Motorola portable radios used exclusively by Washington County government's public safety first responders (Sheriff's Office & Emergency Services personnel) to provide personal communication infrastructure in conjunction with the County's Motorola UHF Public Safety trunked radio system.

Assumptions & Justifications:

The Motorola portable radios provide the County's first responders with reliable communications to the County's 911 Dispatch Center and with other public safety talk groups and have a useful life-expectancy between 12 and 13 years, at which point these radios become increasingly costly to maintain and to remain interoperable with the County's Motorola UHF Public Safety trunked radio system which is refreshed every three to five years. Ninety percent of the current portable radio inventory was purchased during the initial phase of the implementation project in 2007.

The goal of the Motorola Portable Radio Replacement Program is to keep the County's Motorola UHF Public Safety trunked safety radio system useful, operable and responsive to the County's public safety needs and interoperable with Maryland's new 700 MHz state-wide public safety communications network.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	1,212,000	102,000	102,000	104,000	106,000	108,000	110,000	112,000	468,000
Total Cost	1,212,000	102,000	102,000	104,000	106,000	108,000	110,000	112,000	468,000

Funding Sources:

General Fund	1,212,000	102,000	102,000	104,000	106,000	108,000	110,000	112,000	468,000
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	1,212,000	102,000	102,000	104,000	106,000	108,000	110,000	112,000	468,000

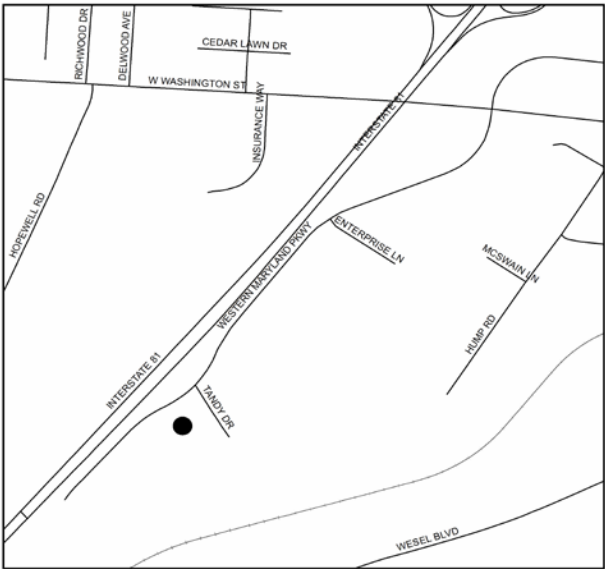
Project Title: Detention Center - Systemic Projects

Project Number: 1094

Account Number: BLD089

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project allows for major repairs and/or building improvements as needed for the Detention Center.

Assumptions & Justifications:

The Detention Center is an aging facility that is starting to need major repairs to maintain functionality and compliance.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Construction	50,000	50,000	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Other	3,165,000	450,000	255,000	260,000	265,000	270,000	275,000	280,000	1,110,000
Total Cost	3,215,000	500,000	255,000	260,000	265,000	270,000	275,000	280,000	1,110,000

Funding Sources:

General Fund	2,271,000	0	155,000	260,000	265,000	105,000	96,000	280,000	1,110,000
Tax Supported Bond	794,000	450,000	0	0	0	165,000	179,000	0	0
Transfer Tax	100,000	0	100,000	0	0	0	0	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Capital Reserve - General	50,000	50,000	0	0	0	0	0	0	0
Total Funding	3,215,000	500,000	255,000	260,000	265,000	270,000	275,000	280,000	1,110,000

Project Title: Police, Fire and Emerg Svcs Training Facility

Project Number: 955

Account Number: BLD093

Projected Annual FTE's: 1

Projected Operating Costs: \$207,000

Description:

As the need for police, fire, and emergency services continues to grow, the need for a facility for training emergency personnel grows as well. Such a facility would be centralized to the area, easily accessible, and utilized by state, county and local police departments, correctional guards, and security guards. Classroom training for fire and emergency services departments, that predominantly takes place currently in local fire houses, would be held in this facility. With the potential to utilize previously owned County property, the facility would allow for local law enforcement and Fire/EMS programs to migrate from the HCC facilities and have a designated public safety campus. The project would be constructed over several phases ranging from the main building to other necessary training structures.

Assumptions & Justifications:

This facility will provide a needed local service to the large number of police, fire, correctional, and other emergency services personnel serving in and around Washington County, as well as provide training to people planning to enter those fields. As the area continues to grow, this will help meet the increasing demand for trained EMS personnel.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	612,000	612,000	0	0	0	0	0	0	0
Construction	3,328,000	0	3,328,000	0	0	0	0	0	0
Equipment/Furniture	1,060,000	0	0	1,060,000	0	0	0	0	0
Total Cost	5,000,000	612,000	3,328,000	1,060,000	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	5,000,000	612,000	3,328,000	1,060,000	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Contributions	0	0	0	0	0	0	0	0	0
Total Funding	5,000,000	612,000	3,328,000	1,060,000	0	0	0	0	0

Project Title: Emergency Svcs Equip & Vehicle Program

Project Number: 1214

Account Number: VEH009

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project is a 10-year capital equipment and vehicle replacement program for the County's Division of Emergency Services. DES needs to have a sustainable plan to replace critical vehicles utilized for emergency response.

Assumptions & Justifications:

- Special Operations - 11430 - Rescue Boat - \$20,000
- Fire & Rescue Operations - 11520 - Large SUV - \$45,000; Computer - \$1,500; Carport - \$2,000
- Fire Operations - 11525 - Large SUV - \$45,000

Emergency services capital equipment and vehicle program is designed to graduate funding over a period of time, reduce maintenance cost and operational downtime due to age, mileage, and repair costs versus book values.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Vehicles	3,038,183	1,039,183	200,000	200,000	200,000	200,000	200,000	200,000	799,000
Total Cost	3,038,183	1,039,183	200,000	200,000	200,000	200,000	200,000	200,000	799,000

Funding Sources:

General Fund	2,039,500	40,500	200,000	200,000	200,000	200,000	200,000	200,000	799,000
Tax Supported Bond	306,000	306,000	0	0	0	0	0	0	0
Capital Reserve - General	692,683	692,683	0	0	0	0	0	0	0
Total Funding	3,038,183	1,039,183	200,000	200,000	200,000	200,000	200,000	200,000	799,000

Project Title: County Rescue Fleet Replacement

Project Number: 1331

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will provide the CIP funding necessary for County Government to aid in the procurement of fire and rescue apparatus that is needed in the provision of fire and rescue services. The Division of Emergency Services will manage funds from the program, identifying the vehicles to be purchased from the CIP budget. Vehicles purchased by these CIP funds will remain under the ownership of the County.

Assumptions & Justifications:

Currently, there are no State or Federal grant programs available to support this project, however the Division of Emergency Services will continue to seek grant or funding opportunities that support the intent of this project.

The Division of Emergency Services will also work to identify the total number of assets needed to include the most appropriate placement of those assets throughout the County. It is expected that the adoption and funding of a County Reserve Fleet Program will also produce an identified ability to reduce the total number of CIP assets that each volunteer company will require.

As the cost for larger fire and rescue apparatus continues to escalate and the existing vehicle fleet continues to age, the ability of the volunteer corporations to replace or purchase these larger fire and rescue apparatus is no longer sustainable. The goal of this CIP is to begin to plan and undertake the financial burden which in turn will aid in promoting the volunteer services and their ability to serve their community.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Vehicles	10,080,000	0	0	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000
Total Cost	10,080,000	0	0	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000

Funding Sources:

General Fund	10,080,000	0	0	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000
Total Funding	10,080,000	0	0	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000

Project Title: Volunteer Fire Services Apparatus Reserve Fleet

Project Number: 1332

Account Number: VEH012

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The program will purchase (3) engine/tankers and (3) ambulances that will be utilized as a county-wide apparatus reserve fleet. The Reserve Apparatus Vehicle Program will allow the volunteer departments to utilize the apparatus during times when their primary apparatus is not available due to scheduled maintenance or various mechanical issues.

Assumptions & Justifications:

As larger fire and rescue apparatus cost continue to escalate, the need to identify reductions in total fleet needs becomes paramount. Most of the 15 volunteer companies in the County now own and maintain (2) class A fire engines to accommodate times when the apparatus is out of service. One goal of this program is to decrease the dependency on any individual company to maintain it's own apparatus reserves, utilizing the efficiency of a central repository for a smaller number of the same apparatus that can deliver like assurances of availability.

With the establishment of the Consolidated Public Safety Training Center (CPSTC), the apparatus could be utilized for training purposes at Center itself. To meet the needs of the CPSTC, it will require the volunteer stations to detail a larger apparatus to the Center during times when volunteer operators may not routinely be available.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Vehicles	2,220,000	0	204,000	208,000	212,000	216,000	220,000	224,000	936,000
Total Cost	2,220,000	0	204,000	208,000	212,000	216,000	220,000	224,000	936,000

Funding Sources:

General Fund	2,220,000	0	204,000	208,000	212,000	216,000	220,000	224,000	936,000
Total Funding	2,220,000	0	204,000	208,000	212,000	216,000	220,000	224,000	936,000

Project Title: Law Enforcement - Vehicle and Equipment Replacement Program

Project Number: 1118

Account Number: VEH006

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project is for the replacement of public safety fleet inventory.

Assumptions & Justifications:

The Sheriff's operations has approximately 136 vehicles maintained by its fleet maintenance department. A vehicle replacement program has been implemented and designed to reduce maintenance and operational downtime due to vehicle age, mileage, and repair cost versus book value.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Vehicles	8,285,422	657,422	616,000	603,000	683,000	702,000	726,000	795,000	3,503,000
Total Cost	8,285,422	657,422	616,000	603,000	683,000	702,000	726,000	795,000	3,503,000

Funding Sources:

General Fund	7,966,422	628,422	587,000	574,000	654,000	673,000	697,000	766,000	3,387,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Other	319,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	116,000
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Total Funding	8,285,422	657,422	616,000	603,000	683,000	702,000	726,000	795,000	3,503,000

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Railroad Crossings

Railroad Crossings
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program				
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
<u>Railroad Crossings</u>										
152	Railroad Crossing Improvements	1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000
Railroad Crossings Total		1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000
Funding Sources										
General Fund		1,716,000	134,000	0	279,000	0	0	295,000	300,000	708,000
Capital Reserve - General		256,837	256,837	0	0	0	0	0	0	0
		1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000

Project Title: Railroad Crossing Improvements

Project Number: 1140

Account Number: RRX003

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will provide crossing improvements based on a priority ranking of all crossings in the County. Improvements will include flattening the approach roadway grades and improving the alignment, installing signs and pavement markings, improving sight distance by removing trees/brush/rock outcroppings, and utility relocations.

Assumptions & Justifications:

The railroad study utilizes methodologies set forth in the Railroad Highway Grade Crossing Handbook published by the Federal Railroad Administration (FRA). In addition to analyzing each intersection for potential collision and sight distance hazards, other factors such as accident records, development potential in the area surrounding the crossing, number of school buses, and the overall condition of the crossing and the surrounding pavement will be taken into account in assessing the need for improvements to the crossing. The first phase of the work will involve installing passive warning devices (signs and pavement markings) to be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD) and FRA. The second phase of work will involve providing road improvements. Some crossings may require installation of active warning devices (flashing lights, automatic gates, etc.). These improvements will be coordinated with the railroad companies.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	112,000	112,000	0	0	0	0	0	0	0
Construction	1,650,837	256,837	0	279,000	0	0	295,000	112,000	708,000
Inspection	188,000	0	0	0	0	0	0	188,000	0
Utilities	22,000	22,000	0	0	0	0	0	0	0
Total Cost	1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000

Funding Sources:

General Fund	1,716,000	134,000	0	279,000	0	0	295,000	300,000	708,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Capital Reserve - General	256,837	256,837	0	0	0	0	0	0	0
Total Funding	1,972,837	390,837	0	279,000	0	0	295,000	300,000	708,000

Road Improvements

*Road Improvement
Capital Improvement Ten Year Summary
Fiscal Year 2018 – 2027*

Page	Project	Total	Prior Appr.	Budget Year		Ten Year Capital Program					Future
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Project Costs											
Road Improvement											
155	Pavement Maintenance and Rehab Program	58,170,178	9,077,178	4,080,000	5,000,000	5,000,000	5,000,000	5,001,000	5,000,000	20,012,000	
156	Longmeadow Road	529,000	0	0	0	0	0	0	0	529,000	
157	Eastern Boulevard Extended	9,686,000	0	0	0	0	0	1,100,000	2,912,000	5,674,000	
158	Southern Boulevard Phase I	9,818,100	9,544,100	274,000	0	0	0	0	0	0	
159	E. Oak Ridge Drive/South Pointe Signal	332,000	0	0	0	111,000	0	221,000	0	0	
160	Eastern Boulevard Widening Phase II	5,272,300	1,836,300	0	780,000	2,359,000	297,000	0	0	0	
161	Transportation ADA	1,108,450	268,450	83,000	83,000	83,000	82,000	83,000	84,000	342,000	
162	Halfway Boulevard Extended Phase I	2,049,000	0	900,000	1,000,000	149,000	0	0	0	0	
163	Eastern Blvd at Antietam Drive Improvements	2,506,000	2,256,000	250,000	0	0	0	0	0	0	
164	Showalter Road Extended East	510,000	0	510,000	0	0	0	0	0	0	
165	Colonel Henry K Douglas Drive Extended Bridge	2,785,000	0	0	0	0	0	0	0	2,785,000	
166	Professional Boulevard Extended - Phase II	5,465,200	1,414,200	1,200,000	531,000	2,028,000	292,000	0	0	0	
167	Professional Boulevard Bridge - Phase I	8,607,000	6,081,000	759,000	1,767,000	0	0	0	0	0	
168	Marsh Pike from MD60 to Longmeadow	1,837,000	0	0	0	0	0	0	0	1,837,000	
169	Mt Aetna Road Spot Improvements	2,399,000	0	0	0	0	0	0	0	2,399,000	
170	Burnside Bridge Road Spot Improvements	544,000	0	0	0	0	0	0	0	544,000	
171	Valley Mall Area Road Improvements Phase II	992,000	0	0	0	0	0	825,000	167,000	0	
172	Medical Campus Road Signal	423,000	0	423,000	0	0	0	0	0	0	
173	Bucky Avenue	355,000	0	0	0	0	0	0	0	355,000	
174	Colonel Henry K. Douglas Drive Extended Phase I	3,220,000	1,020,000	2,200,000	0	0	0	0	0	0	
175	Professional Boulevard Extended - Phase III	1,693,000	0	0	0	0	640,000	1,053,000	0	0	
176	Professional Boulevard Extended - Phase IV	1,826,000	0	0	0	0	0	0	224,000	1,602,000	
177	Crayton Boulevard Extended	3,304,000	2,165,000	800,000	88,000	251,000	0	0	0	0	
178	Halfway Boulevard Extended Bridge / Phase II	2,000,000	0	0	0	0	0	0	0	2,000,000	
179	HWY Equip and Vehicle Replacement Program	11,573,144	473,144	1,020,000	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000	
180	Highway Maintenance Shop - Western Section	374,000	241,000	133,000	0	0	0	0	0	0	
181	HWY Western Section - Fuel Tank Replacement	847,000	198,000	96,000	192,000	193,000	168,000	0	0	0	
Road Improvement Total		138,225,372	34,574,372	12,728,000	10,481,000	11,234,000	7,559,000	9,383,000	9,507,000	42,759,000	

Page	Project	Budget Year				Ten Year Capital Program				
		Total	Prior Appr.	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Funding Sources										
	General Fund	20,151,690	12,519,690	216,000	773,000	854,000	737,000	758,000	754,000	3,540,000
	Highway Fund	5,169,000	225,000	466,000	542,000	593,000	593,000	425,000	450,000	1,875,000
	Hotel Rental Fund	533,000	533,000	0	0	0	0	0	0	0
	Tax Supported Bond	74,157,500	10,492,500	6,220,000	5,990,000	7,611,000	4,053,000	6,024,000	6,127,000	27,640,000
	Transfer Tax	21,451,000	1,451,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000
	Excise Tax - Roads	1,530,320	270,320	126,000	126,000	126,000	126,000	126,000	126,000	504,000
	Excise Tax - Non-Residential	550,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	200,000
	Capital Reserve - General	4,707,182	4,057,182	650,000	0	0	0	0	0	0
	Federal Grant	6,155,680	3,355,680	1,800,000	1,000,000	0	0	0	0	0
	State Grant	2,320,000	1,120,000	1,200,000	0	0	0	0	0	0
	Contributions	1,500,000	500,000	0	0	0	0	0	0	1,000,000
		138,225,372	34,574,372	12,728,000	10,481,000	11,234,000	7,559,000	9,383,000	9,507,000	42,759,000

Project Title: Pavement Maintenance and Rehab Program

Project Number: 13

Account Number: RDI024

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project includes the modification of county-wide pavement maintenance program targeting rehabilitation of county highway pavement, as required. Techniques may include but not be limited to road reclamation, bituminous concrete overlay, crack sealing, and surface treatment. Individual projects will be determined on an annual basis consistent with the County's overall Pavement Management Program.

Assumptions & Justifications:

Financial and engineering analysis has determined that at least an \$8M per year investment is necessary to keep up with pavement deterioration.

The project is needed to launch an aggressive overall highway pavement rehabilitation program to address major pavement deficiencies throughout our existing highway system. This program will result in longer service life of our pavements and improved service using the most cost effective treatment at the appropriate time.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	57,550,824	8,670,824	4,080,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	19,800,000
Inspection	619,354	406,354	0	0	0	0	1,000	0	212,000
Total Cost	58,170,178	9,077,178	4,080,000	5,000,000	5,000,000	5,000,000	5,001,000	5,000,000	20,012,000

Funding Sources:

General Fund	1,549,740	1,549,740	0	0	0	0	0	0	0
Highway Fund	40,000	40,000	0	0	0	0	0	0	0
Tax Supported Bond	29,730,000	2,397,000	1,904,000	2,824,000	2,824,000	2,824,000	2,825,000	2,824,000	11,308,000
Transfer Tax	21,451,000	1,451,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	8,000,000
Excise Tax - Roads	1,386,000	126,000	126,000	126,000	126,000	126,000	126,000	126,000	504,000
Excise Tax - Other	0	0	0	0	0	0	0	0	0
Excise Tax - Non-Residential	550,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	200,000
APFO Fees - Roads	0	0	0	0	0	0	0	0	0
Capital Reserve - General	3,463,438	3,463,438	0	0	0	0	0	0	0
Total Funding	58,170,178	9,077,178	4,080,000	5,000,000	5,000,000	5,000,000	5,001,000	5,000,000	20,012,000

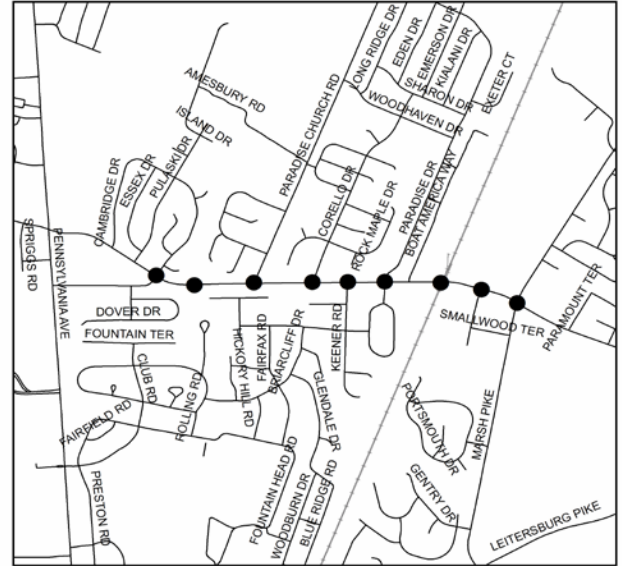
Project Title: Longmeadow Road

Project Number: 20

Account Number: RDI037

Projected Annual FTE's: 0

Projected Operating Costs: \$4,000



Description:

The project will provide capacity and safety enhancement to Longmeadow Road between Halifax Drive and Marsh Pike. The project includes widening Longmeadow Road to a three lane roadway and the construction of a traffic signal at the intersection with Paradise Church Road and/or Halifax Drive if warranted. The roadway will be a combination of open and closed section roadway with one lane in each direction and a continuous center left turn lane.

Assumptions & Justifications:

County funding is shown, however, private developer contributions will be sought for the signals if a private developer project is initiated in the area.

Current traffic volume on Longmeadow Road exceeds 12,000 vehicles per day, and is anticipated to continue to climb based on development. The roadway and intersections operate at unacceptable levels of service.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Planning	49,000	0	0	0	0	0	0	0	49,000
Engineering/Design	480,000	0	0	0	0	0	0	0	480,000
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Equipment/Furniture	0	0	0	0	0	0	0	0	0
Utilities	0	0	0	0	0	0	0	0	0
Utility relocation	0	0	0	0	0	0	0	0	0
Total Cost	529,000	0	0	0	0	0	0	0	529,000

Funding Sources:

General Fund	393,000	0	0	0	0	0	0	0	393,000
Tax Supported Bond	136,000	0	0	0	0	0	0	0	136,000
Excise Tax - Roads	0	0	0	0	0	0	0	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
APFO Fees - Roads	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	529,000	0	0	0	0	0	0	0	529,000

Project Title: Eastern Boulevard Extended**Project Number:** 21**Account Number:** RDI039**Projected Annual FTE's:** 0**Projected Operating Costs:** \$4,000**Description:**

The project involves the construction of a new roadway connecting Eastern Boulevard at Antietam Drive and Leithsburg Pike at Marsh Pike. The road is approximately 6,000' in length and will connect with the new intersection at Antietam Drive and involve intersection improvements at MD 60/Marsh Pike that will include construction of a traffic signal or roundabout. The project also includes construction of a major drainage culvert.

Assumptions & Justifications:

The majority of the right-of-way is donated. The project assumes remaining lands necessary for completion can be obtained within budgeted values. The project involves construction of a three lane roadway (one lane in each direction with a continuous center left turn lane). SHA may require significant road widening along MD 60.

The project will relieve Eastern Blvd at Leithsburg Pike intersection congestion. The project provides significant enhancement to the transportation network increasing capacity, improving safety and providing access to developable land including a parcel planned for a future County park.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	112,000	0	0	0	0	0	0	112,000	0
Land Acquisition	280,000	0	0	0	0	0	0	280,000	0
Construction	8,454,000	0	0	0	0	0	550,000	2,520,000	5,384,000
Inspection	290,000	0	0	0	0	0	0	0	290,000
Utilities	550,000	0	0	0	0	0	550,000	0	0
Total Cost	9,686,000	0	0	0	0	0	1,100,000	2,912,000	5,674,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	9,686,000	0	0	0	0	0	1,100,000	2,912,000	5,674,000
Excise Tax - Roads	0	0	0	0	0	0	0	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Federal Grant	0	0	0	0	0	0	0	0	0
Total Funding	9,686,000	0	0	0	0	0	1,100,000	2,912,000	5,674,000

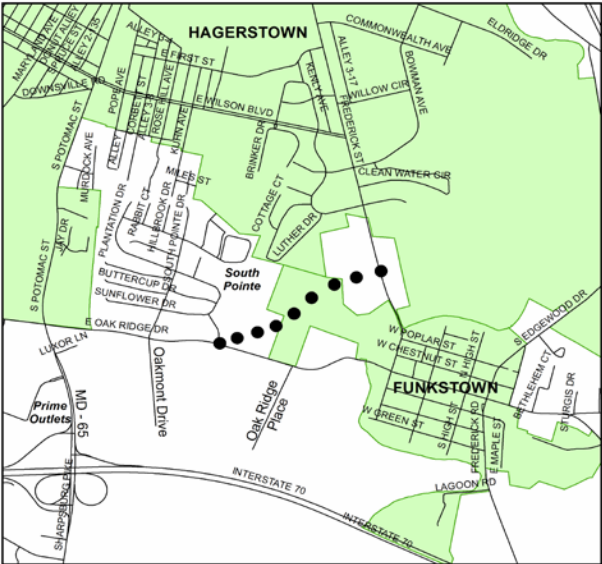
Project Title: Southern Boulevard Phase I

Project Number: 26

Account Number: RDI040

Projected Annual FTE's: 0

Projected Operating Costs: \$3,000



Description:

The project involves the construction of Southern Boulevard between East Oak Ridge Drive near South Pointe Drive to Frederick Street (US 40A). The project includes construction of a two or four lane divided open section roadway and new intersections at each extent of the project, a roundabout at Frederick Street and a roundabout at East Oak Ridge Drive.

Assumptions & Justifications:

No new water and/or sewer network is included in this cost estimate.

The project is needed to provide congestion relief through Funkstown and will help accommodate increased traffic volumes from ongoing development in this area. The project will enhance the transportation system and improve safety. The project is part of the overall county-wide transportation plan.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Planning	20,000	20,000	0	0	0	0	0	0	0
Engineering/Design	393,000	393,000	0	0	0	0	0	0	0
Land Acquisition	1,111,000	1,111,000	0	0	0	0	0	0	0
Construction	7,755,500	7,481,500	274,000	0	0	0	0	0	0
Inspection	134,600	134,600	0	0	0	0	0	0	0
Utilities	404,000	404,000	0	0	0	0	0	0	0
Total Cost	9,818,100	9,544,100	274,000	0	0	0	0	0	0

Funding Sources:

General Fund	5,279,000	5,279,000	0	0	0	0	0	0	0
Tax Supported Bond	3,995,000	3,721,000	274,000	0	0	0	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Roads	0	0	0	0	0	0	0	0	0
Capital Reserve - General	544,100	544,100	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Federal Funding	0	0	0	0	0	0	0	0	0
State Funding	0	0	0	0	0	0	0	0	0
Total Funding	9,818,100	9,544,100	274,000	0	0	0	0	0	0

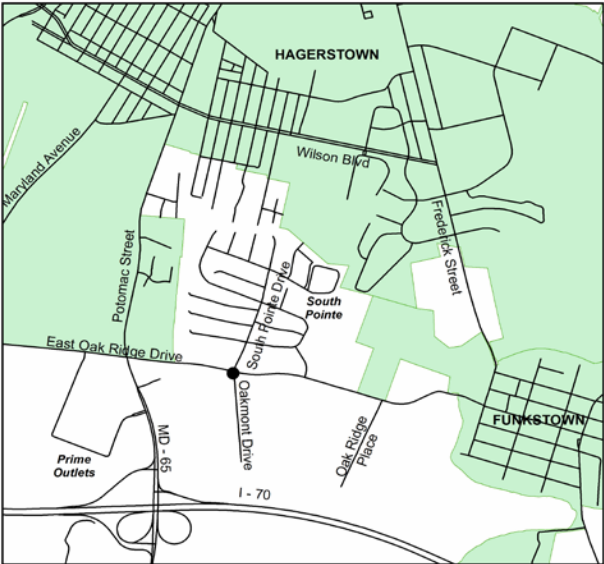
Project Title: E. Oak Ridge Drive/South Pointe Signal

Project Number: 964

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$1,000



Description:

This project will construct a traffic signal at the intersection of E. Oak Ridge Drive and South Pointe Drive/Oakmont Drive.

Assumptions & Justifications:

Traffic volume increases in this area are making turning movements at this location more difficult and potentially unsafe. Once volumes warrant the signal, safety and traffic flow will be improved.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	37,000	0	0	0	37,000	0	0	0	0
Land Acquisition	21,000	0	0	0	21,000	0	0	0	0
Construction	193,000	0	0	0	0	0	193,000	0	0
Inspection	28,000	0	0	0	0	0	28,000	0	0
Utilities	53,000	0	0	0	53,000	0	0	0	0
Total Cost	332,000	0	0	0	111,000	0	221,000	0	0

Funding Sources:

General Fund	111,000	0	0	0	111,000	0	0	0	0
Tax Supported Bond	221,000	0	0	0	0	0	221,000	0	0
Total Funding	332,000	0	0	0	111,000	0	221,000	0	0

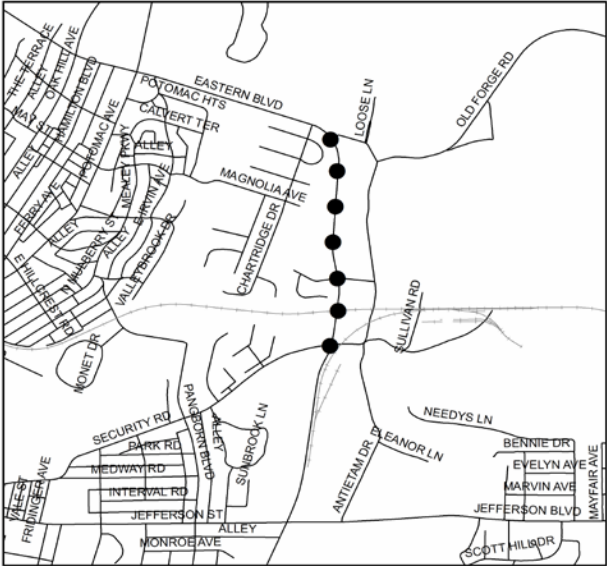
Project Title: Eastern Boulevard Widening Phase II

Project Number: 972

Account Number: RDI044

Projected Annual FTE's: 0

Projected Operating Costs: \$2,000



Description:

The project serves to rehabilitate and widen Eastern Boulevard from Security Road to Antietam Drive from the existing 2-lane roadway to a 4-lane divided roadway, including drainage improvements and an at grade railroad crossing.

Assumptions & Justifications:

This project assumes design and construction of an at grade railroad crossing.

Existing traffic volumes on Eastern Boulevard exceed capacity and land development activity is anticipated in the area. Regional growth in the greater Hagerstown area will cause traffic volumes to increase.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	500,000	500,000	0	0	0	0	0	0	0
Land Acquisition	336,300	336,300	0	0	0	0	0	0	0
Construction	4,171,000	1,000,000	0	780,000	2,094,000	297,000	0	0	0
Inspection	265,000	0	0	0	265,000	0	0	0	0
Total Cost	5,272,300	1,836,300	0	780,000	2,359,000	297,000	0	0	0

Funding Sources:

General Fund	1,195,000	1,195,000	0	0	0	0	0	0	0
Tax Supported Bond	3,577,300	141,300	0	780,000	2,359,000	297,000	0	0	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Roads	144,320	144,320	0	0	0	0	0	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Federal Grant	355,680	355,680	0	0	0	0	0	0	0
Total Funding	5,272,300	1,836,300	0	780,000	2,359,000	297,000	0	0	0

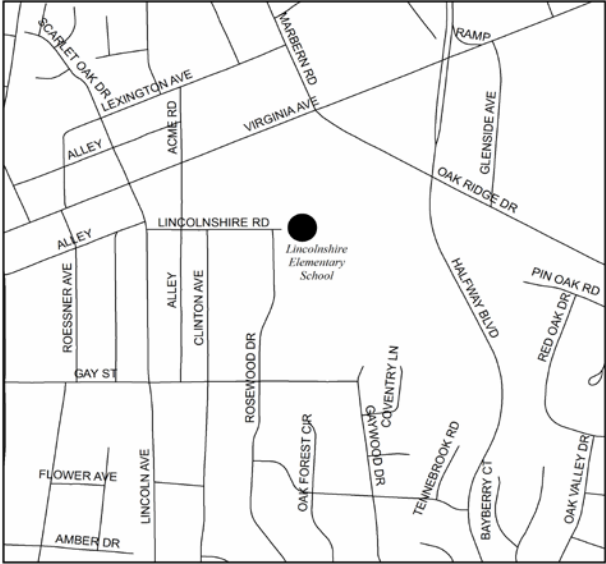
Project Title: Transportation ADA

Project Number: 1023

Account Number: LDI037

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will provide upgrades to existing street crossings and facilities to comply with Americans with Disabilities (ADA) requirements. This includes providing pavement markings, signs, sidewalks, ramps, and accessible pedestrian signals as necessary to bring the existing conditions into compliance.

Assumptions & Justifications:

The project consists of a multi-year plan to achieve full compliance. The project received an APFO contribution for improvements in Maugansville.

State and local governments must maintain accessible features in operable working condition to comply with Title II of ADA. At a minimum, government entities need to comply with certain administrative requirements, conduct a self-evaluation, involve the public, develop/implement a transition plan, and provide accessibility during construction. FHWA is now requiring sub-recipient entities to have and implement a transition plan to bring the transportation system into full compliance.

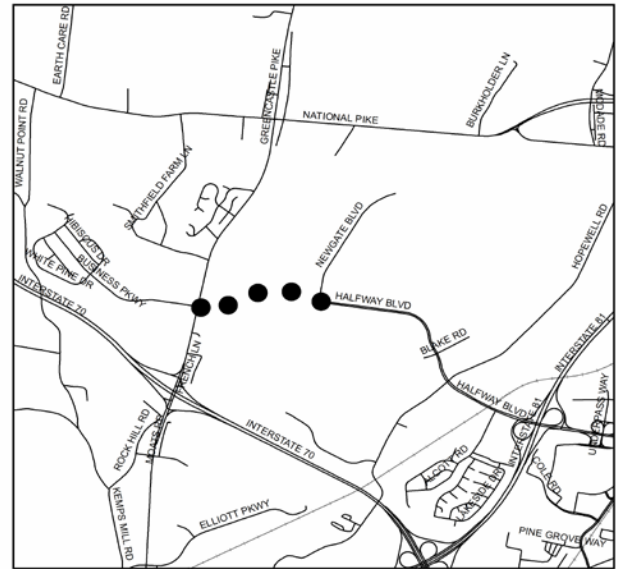
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Planning	0	0	0	0	0	0	0	0	0
Construction	1,108,450	268,450	83,000	83,000	83,000	82,000	83,000	84,000	342,000
Total Cost	1,108,450	268,450	83,000	83,000	83,000	82,000	83,000	84,000	342,000

Funding Sources:

General Fund	1,108,450	268,450	83,000	83,000	83,000	82,000	83,000	84,000	342,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	1,108,450	268,450	83,000	83,000	83,000	82,000	83,000	84,000	342,000

Project Title: Halfway Boulevard Extended Phase I**Project Number:** 1026**Account Number:** RDI069**Projected Annual FTE's:** 0**Projected Operating Costs:** \$2,000**Description:**

The project involves the construction of a new four lane open section roadway connecting Halfway Boulevard Extended to MD Route 63. Intersection improvements at Halfway Boulevard extended and MD Route 63 include providing a traffic signal.

Assumptions & Justifications:

An ARC grant in the amount of \$1,000,000 is being secured for this project. This project assumes developer contribution for land acquisition and a portion of the road cost.

The project is needed to provide additional road capacity and alternate routes resulting from continued and forecasted development in this area. The project provides an alternate access route to MD Route 63 and Interstate 70 for heavy truck traffic from industrial park on Halfway Boulevard Extended.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	100,000	0	100,000	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	1,800,000	0	800,000	1,000,000	0	0	0	0	0
Inspection	149,000	0	0	0	149,000	0	0	0	0
Total Cost	2,049,000	0	900,000	1,000,000	149,000	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	249,000	0	100,000	0	149,000	0	0	0	0
Federal Grant	1,800,000	0	800,000	1,000,000	0	0	0	0	0
Total Funding	2,049,000	0	900,000	1,000,000	149,000	0	0	0	0

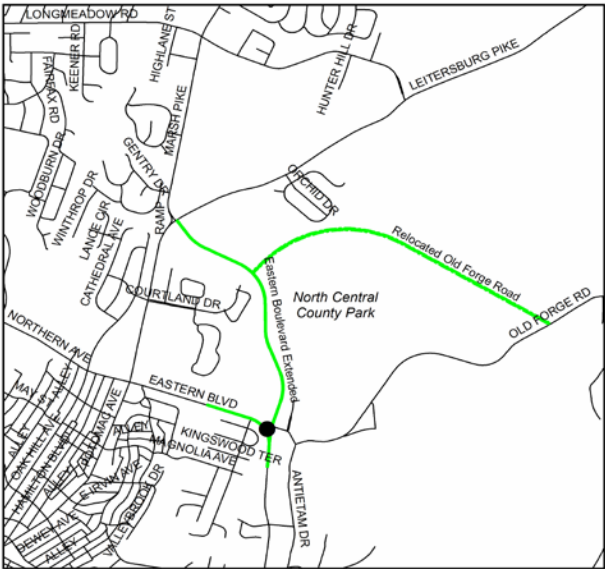
Project Title:Eastern Blvd at Antietam Drive Improvements

Project Number:1038

Account Number:RDI051

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The project will provide intersection improvements at Antietam Drive. This project will connect the Eastern Boulevard Widening Phase II project with the Eastern Boulevard Extended project.

Assumptions & Justifications:

Existing traffic volumes on Eastern Boulevard exceed capacity and land development activity is anticipated in the area. Regional growth in the greater Hagerstown area will cause traffic volumes to increase. Advancing this intersection project will enhance traffic safety and reduce travel speeds in the area.

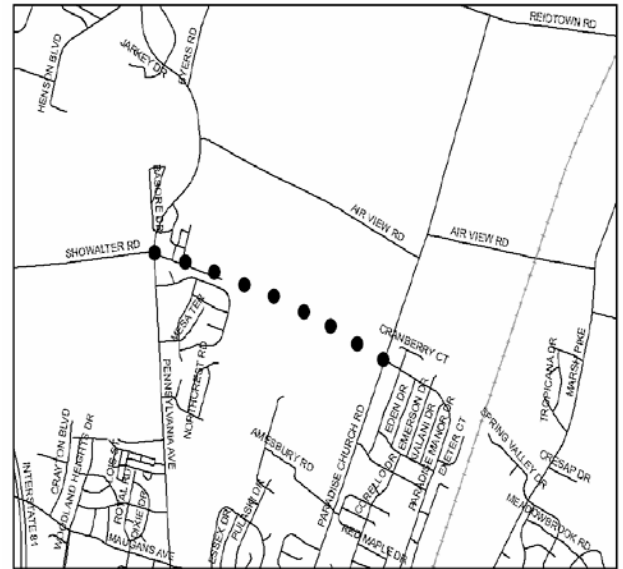
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	300,000	300,000	0	0	0	0	0	0	0
Land Acquisition	202,000	202,000	0	0	0	0	0	0	0
Construction	1,882,000	1,632,000	250,000	0	0	0	0	0	0
Inspection	122,000	122,000	0	0	0	0	0	0	0
Total Cost	2,506,000	2,256,000	250,000	0	0	0	0	0	0

Funding Sources:

General Fund	502,000	502,000	0	0	0	0	0	0	0
Tax Supported Bond	2,004,000	1,754,000	250,000	0	0	0	0	0	0
Excise Tax - Roads	0	0	0	0	0	0	0	0	0
Total Funding	2,506,000	2,256,000	250,000	0	0	0	0	0	0

Project Title: Showalter Road Extended East**Project Number:** 1060**Account Number:** RDI068**Projected Annual FTE's:** 0**Projected Operating Costs:** \$4,000**Description:**

The project involves the extension of Showalter Road from US 11 to Paradise Church Road. The proposed road length is approximately 5,800 LF. Intersection improvements are included at each end of the project.

Assumptions & Justifications:

The project involves construction of a two lane roadway. No new water and/or sewer network is included in this cost estimate.

The project is needed to accommodate increased traffic volumes from ongoing development in this area.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	102,000	0	102,000	0	0	0	0	0	0
Land Acquisition	408,000	0	408,000	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	510,000	0	510,000	0	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	510,000	0	510,000	0	0	0	0	0	0
Total Funding	510,000	0	510,000	0	0	0	0	0	0

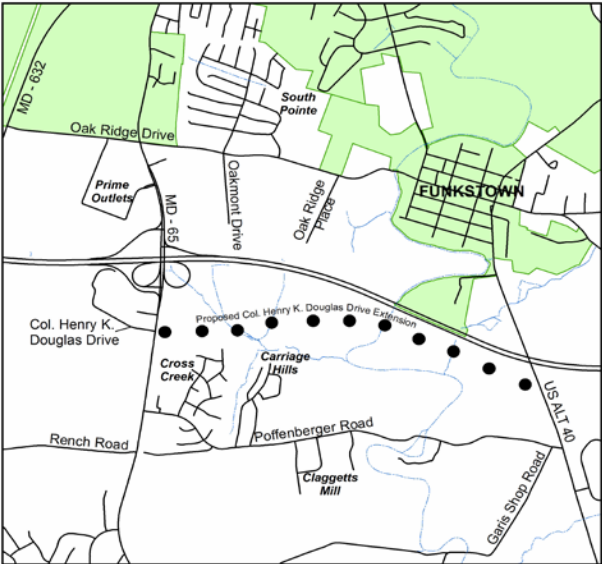
Project Title: Colonel Henry K Douglas Drive Extended Bridge

Project Number: 1066

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$2,000



Description:

The project involves the construction of a bridge over the Antietam Creek on Colonel Henry K Douglas Drive Extended (ADC Map 21, E-12). This project will connect Colonel Henry K Douglas Drive Extended Phase I (roadway on the west side of the Antietam Creek from Sharpsburg Pike to the bridge) to Colonel Henry K Douglas Drive Phase II (roadway on the east side of the Antietam Creek to Alternate 40).

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project has been identified as an economic opportunity for the County.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	433,000	0	0	0	0	0	0	0	433,000
Land Acquisition	1,167,000	0	0	0	0	0	0	0	1,167,000
Construction	1,185,000	0	0	0	0	0	0	0	1,185,000
Inspection	0	0	0	0	0	0	0	0	0
Total Cost	2,785,000	0	0	0	0	0	0	0	2,785,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	2,785,000	0	0	0	0	0	0	0	2,785,000
Total Funding	2,785,000	0	0	0	0	0	0	0	2,785,000

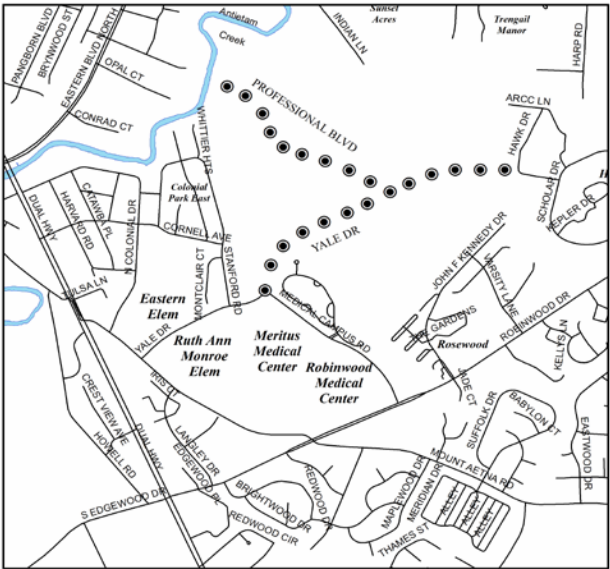
Project Title: Professional Boulevard Extended - Phase II

Project Number: 1071

Account Number: RDI056

Projected Annual FTE's: 0

Projected Operating Costs: \$3,000



Description:

The project involves the extension of Professional Court from a point 200 feet east of the proposed Antietam Creek Bridge (Project 1072) to Yale Drive Extended (Project 1093). The roadway length is approximately 2,700 feet. The project includes construction of a four lane closed section divided roadway that will connect into the roundabout intersection at Yale Drive.

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment). The County is currently seeking a state/federal grant to assist in covering construction costs. Includes ARC grant of \$1M for a portion of Phase II, referred to as Phase II-A. Also includes \$1.2M in State Aid for Phase II.

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic development opportunity for the County.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	312,200	312,200	0	0	0	0	0	0	0
Land Acquisition	102,000	102,000	0	0	0	0	0	0	0
Construction	4,786,000	1,000,000	1,200,000	531,000	1,763,000	292,000	0	0	0
Inspection	265,000	0	0	0	265,000	0	0	0	0
Total Cost	5,465,200	1,414,200	1,200,000	531,000	2,028,000	292,000	0	0	0

Funding Sources:

General Fund	125,000	125,000	0	0	0	0	0	0	0
Tax Supported Bond	3,140,200	289,200	0	531,000	2,028,000	292,000	0	0	0
Federal Grant	1,000,000	1,000,000	0	0	0	0	0	0	0
State Grant	1,200,000	0	1,200,000	0	0	0	0	0	0
Contributions	0	0	0	0	0	0	0	0	0
Total Funding	5,465,200	1,414,200	1,200,000	531,000	2,028,000	292,000	0	0	0

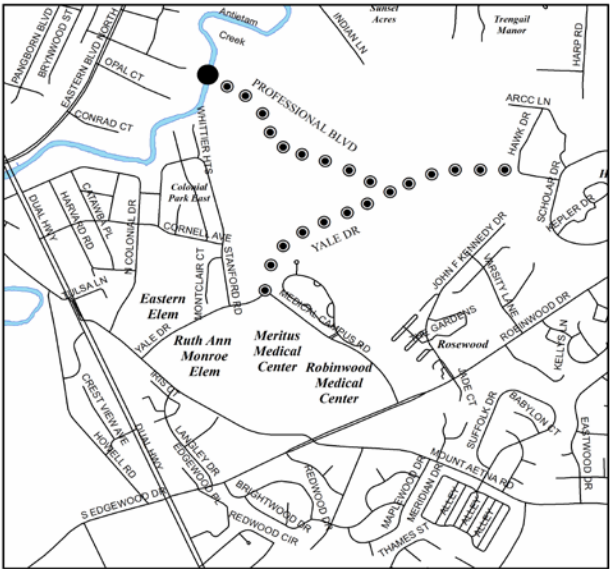
Project Title:Professional Boulevard Bridge - Phase I

Project Number:1072

Account Number:RDI055

Projected Annual FTE's:0

Projected Operating Costs:\$1,000



Description:

The project involves the extension of Professional Court over Antietam Creek to a point 200' east of the proposed bridge. This project will connect to the proposed Professional Boulevard Extended Phase II (Project 1071) roadway that connects to Yale Drive Extended (Project 1093). The project length is approximately 1,000 LF (including bridge). The project includes construction of a four lane closed section roadway and the construction of a four lane bridge over Antietam Creek.

Assumptions & Justifications:

A state grant was received from the Secretary of the Maryland Department of Transportation for design of the bridge (\$1,120,000). No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic opportunity for the City/County.

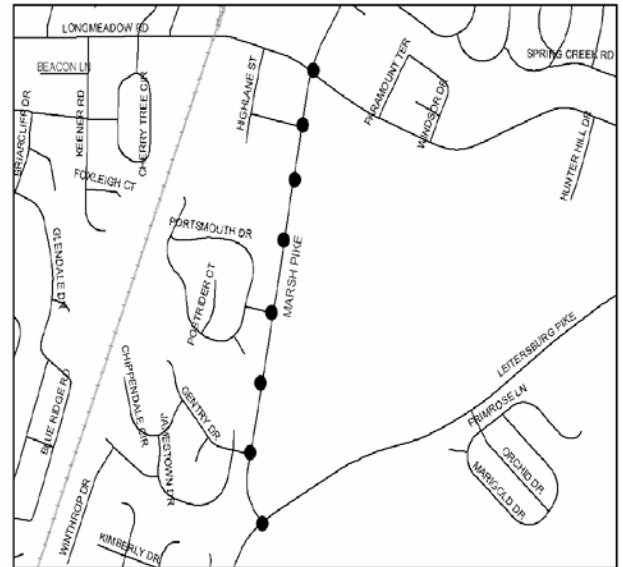
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	1,522,000	1,522,000	0	0	0	0	0	0	0
Land Acquisition	612,000	612,000	0	0	0	0	0	0	0
Construction	6,234,000	3,947,000	759,000	1,528,000	0	0	0	0	0
Inspection	239,000	0	0	239,000	0	0	0	0	0
Total Cost	8,607,000	6,081,000	759,000	1,767,000	0	0	0	0	0

Funding Sources:

General Fund	3,025,000	3,025,000	0	0	0	0	0	0	0
Hotel Rental Fund	423,000	423,000	0	0	0	0	0	0	0
Tax Supported Bond	4,039,000	1,513,000	759,000	1,767,000	0	0	0	0	0
Federal Grant	0	0	0	0	0	0	0	0	0
State Grant	1,120,000	1,120,000	0	0	0	0	0	0	0
Contributions	0	0	0	0	0	0	0	0	0
Total Funding	8,607,000	6,081,000	759,000	1,767,000	0	0	0	0	0

Project Title: Marsh Pike from MD60 to Longmeadow**Project Number:** 1091**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$2,000**Description:**

The project will provide road capacity and safety enhancement on Marsh Pike between Leithsburg Pike (MD 60) and Longmeadow Road. The project includes widening of Marsh Pike and will connect Eastern Boulevard Extended to the new intersection at Marsh Pike and Longmeadow Road. The roadway will be a four lane closed section roadway.

Assumptions & Justifications:

Although full County funding is shown, it is possible that developer contributions may be forthcoming due to APFO obligations. No new water and/or sewer network is included in this cost estimate.

The project is needed to provide additional road capacity resulting from continued development in this area.

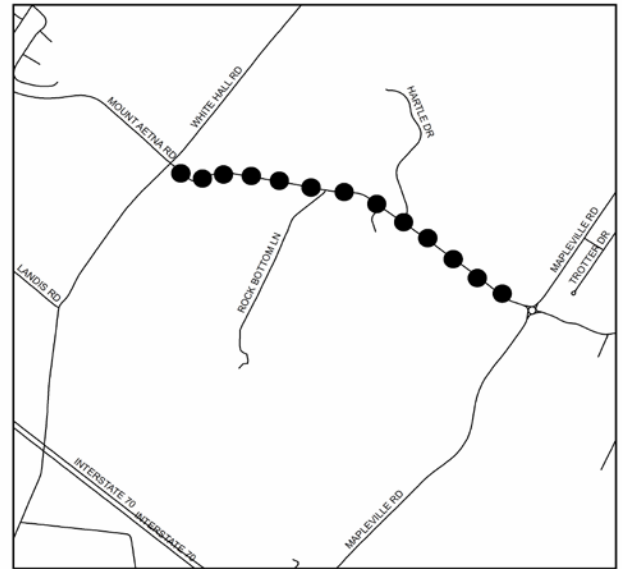
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	177,000	0	0	0	0	0	0	0	177,000
Land Acquisition	590,000	0	0	0	0	0	0	0	590,000
Construction	480,000	0	0	0	0	0	0	0	480,000
Inspection	0	0	0	0	0	0	0	0	0
Utilities	590,000	0	0	0	0	0	0	0	590,000
Total Cost	1,837,000	0	0	0	0	0	0	0	1,837,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,837,000	0	0	0	0	0	0	0	1,837,000
Transfer Tax	0	0	0	0	0	0	0	0	0
Excise Tax - Roads	0	0	0	0	0	0	0	0	0
Total Funding	1,837,000	0	0	0	0	0	0	0	1,837,000

Project Title: Mt Aetna Road Spot Improvements**Project Number:** 1108**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$3,000**Description:**

The project includes providing spot improvements to Mt Aetna Road to improve sight distance, and vertical/horizontal curves.

Assumptions & Justifications:

Mt Aetna Road has several locations that have been identified as inadequate as defined in the "Road Adequacy Policy". Development in the vicinity has caused an increase in traffic.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	59,000	0	0	0	0	0	0	0	59,000
Construction	2,269,000	0	0	0	0	0	0	0	2,269,000
Inspection	71,000	0	0	0	0	0	0	0	71,000
Total Cost	2,399,000	0	0	0	0	0	0	0	2,399,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	2,399,000	0	0	0	0	0	0	0	2,399,000
Total Funding	2,399,000	0	0	0	0	0	0	0	2,399,000

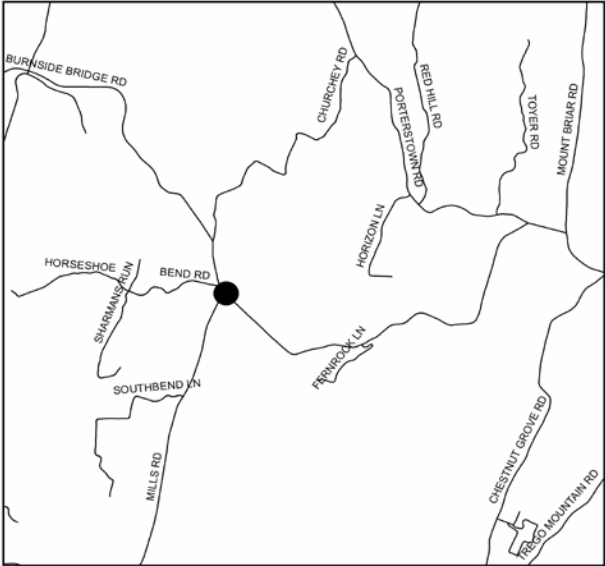
Project Title: Burnside Bridge Road Spot Improvements

Project Number: 1130

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will provide for spot road improvements to Burnside Bridge Road at the intersection with Mills Road. The project includes correcting vertical curves and horizontal curves (blind hills).

Assumptions & Justifications:

Burnside Bridge Road at Mills Road intersection has been identified as inadequate as defined in the Road Adequacy Policy.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	89,000	0	0	0	0	0	0	0	89,000
Land Acquisition	30,000	0	0	0	0	0	0	0	30,000
Construction	295,000	0	0	0	0	0	0	0	295,000
Inspection	71,000	0	0	0	0	0	0	0	71,000
Utilities	59,000	0	0	0	0	0	0	0	59,000
Total Cost	544,000	0	0	0	0	0	0	0	544,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	544,000	0	0	0	0	0	0	0	544,000
Total Funding	544,000	0	0	0	0	0	0	0	544,000

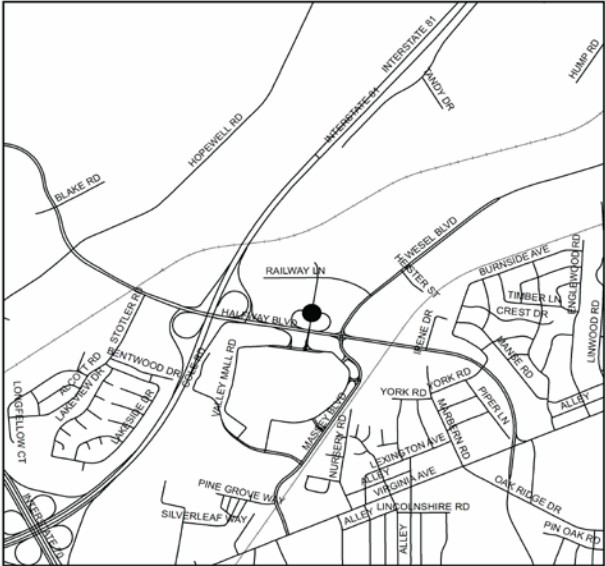
Project Title: Valley Mall Area Road Improvements Phase II

Project Number: 1167

Account Number: RDI062

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project includes intersection reconstruction on Underpass Way at the on/off ramps to/from Halfway Blvd. The project will convert a stop controlled intersection to a roundabout intersection.

Assumptions & Justifications:

The intersection operates at an unacceptable level of service. Poor level of service is preventing further economic development in the area.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	992,000	0	0	0	0	0	825,000	167,000	0
Utilities	0	0	0	0	0	0	0	0	0
Total Cost	992,000	0	0	0	0	0	825,000	167,000	0

Funding Sources:

Hotel Rental Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	992,000	0	0	0	0	0	825,000	167,000	0
Transfer Tax	0	0	0	0	0	0	0	0	0
Total Funding	992,000	0	0	0	0	0	825,000	167,000	0

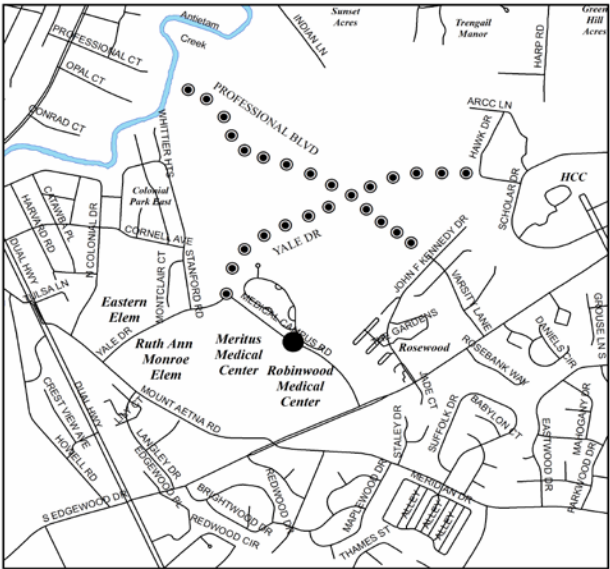
Project Title: Medical Campus Road Signal

Project Number: 1197

Account Number: EQP064

Projected Annual FTE's: 0

Projected Operating Costs: \$1,000



Description:

The project involves the construction of a traffic signal with left turn lanes at the intersection of Medical Campus Road and Tranquility Circle.

Assumptions & Justifications:

Recent grade adjustments made to the Tranquility Circle entrance has improved sight distance significantly.

Traffic volume increases in this area may be mitigated by the construction of Yale Drive Extended and Professional Boulevard. Future spending on this project will be based on traffic signal warrants and engineering studies.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	408,000	0	408,000	0	0	0	0	0	0
Inspection	15,000	0	15,000	0	0	0	0	0	0
Total Cost	423,000	0	423,000	0	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Hotel Rental Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	423,000	0	423,000	0	0	0	0	0	0
Total Funding	423,000	0	423,000	0	0	0	0	0	0

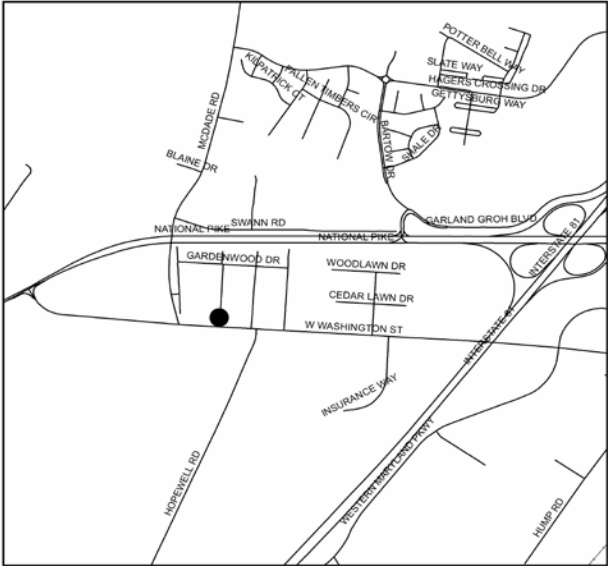
Project Title: Bucky Avenue

Project Number: 1249

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project involves the extension of Bucky Avenue to Maryland Route 144 (ADC Map 20, G-4). Additionally, drainage and intersection improvements will be made as part of this project.

Assumptions & Justifications:

This work will improve traffic safety in this area.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Land Acquisition	24,000	0	0	0	0	0	0	0	24,000
Construction	236,000	0	0	0	0	0	0	0	236,000
Inspection	71,000	0	0	0	0	0	0	0	71,000
Utilities	24,000	0	0	0	0	0	0	0	24,000
Total Cost	355,000	0	0	0	0	0	0	0	355,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	355,000	0	0	0	0	0	0	0	355,000
Total Funding	355,000	0	0	0	0	0	0	0	355,000

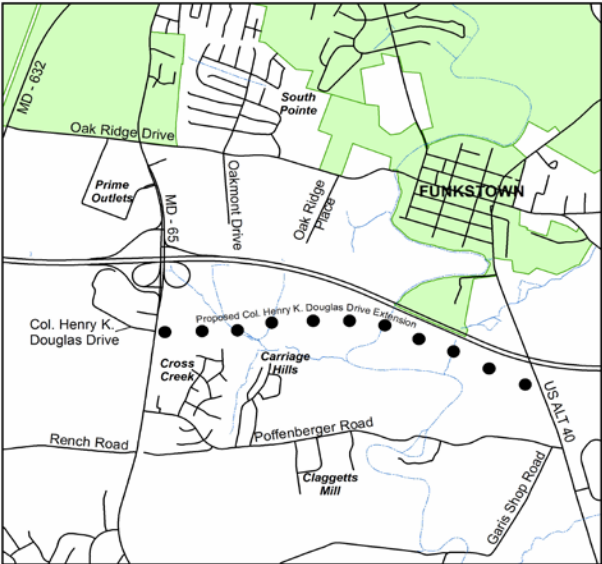
Project Title: Colonel Henry K. Douglas Drive Extended Phase I

Project Number: 1250

Account Number: RDI067

Projected Annual FTE's: 0

Projected Operating Costs: \$1,000



Description:

The project involves the extension of Colonel Henry K. Douglas Drive from Sharpsburg Pike (Maryland Route 65) to the north side of the Cross Creek development (ADC Map 21, D-12). The roadway is approximately one-quarter mile long and will include construction of a four lane closed section roadway.

Assumptions & Justifications:

ARC grants in the amount of \$2,000,000 have been secured for this project. No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic development opportunity for the County.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0
Construction	3,016,000	1,020,000	1,996,000	0	0	0	0	0	0
Inspection	204,000	0	204,000	0	0	0	0	0	0
Total Cost	3,220,000	1,020,000	2,200,000	0	0	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,220,000	20,000	1,200,000	0	0	0	0	0	0
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Federal Grant	2,000,000	1,000,000	1,000,000	0	0	0	0	0	0
Total Funding	3,220,000	1,020,000	2,200,000	0	0	0	0	0	0

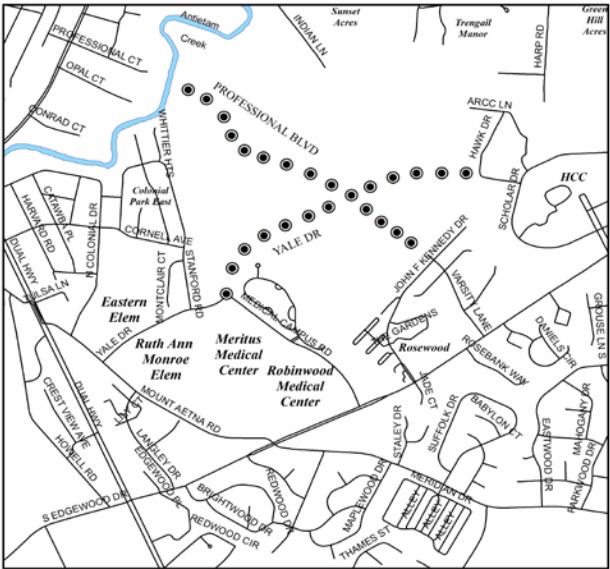
Project Title: Professional Boulevard Extended - Phase III

Project Number: 1254

Account Number: RDI064

Projected Annual FTE's: 0

Projected Operating Costs: \$1,000



Description:

The project involves the construction of a segment of Professional Boulevard south from the second Yale Drive roundabout continuing southeast towards Phase IV and Robinwood Drive. The roadway length is approximately 900 feet. The project includes construction of a four lane closed section roadway.

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic development opportunity for the County.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	1,531,000	0	0	0	0	478,000	1,053,000	0	0
Inspection	162,000	0	0	0	0	162,000	0	0	0
Total Cost	1,693,000	0	0	0	0	640,000	1,053,000	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,693,000	0	0	0	0	640,000	1,053,000	0	0
Excise Tax - Non-Residential	0	0	0	0	0	0	0	0	0
Total Funding	1,693,000	0	0	0	0	640,000	1,053,000	0	0

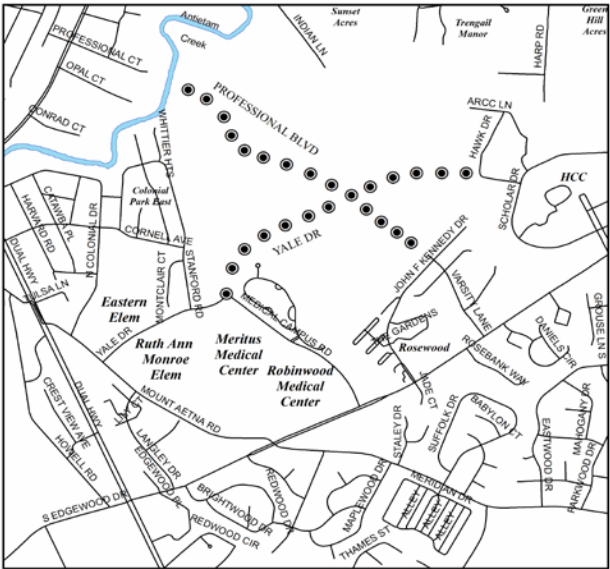
Project Title: Professional Boulevard Extended - Phase IV

Project Number: 1255

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$1,000



Description:

The project involves the construction of a segment of Professional Boulevard south of Yale Drive continuing from Phase III southeast towards Robinwood Drive. The roadway length is approximately 900 feet. The project includes construction of a four lane closed section roadway.

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment).

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project area has been identified as an economic development opportunity for the County.

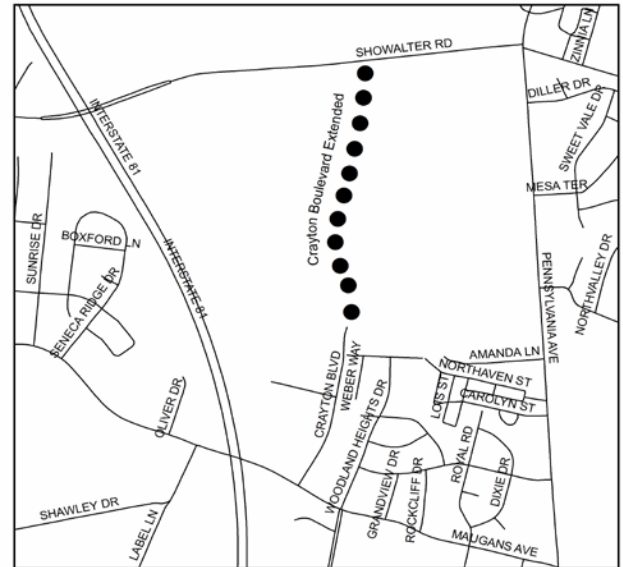
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	1,678,000	0	0	0	0	0	0	224,000	1,454,000
Inspection	148,000	0	0	0	0	0	0	0	148,000
Total Cost	1,826,000	0	0	0	0	0	0	224,000	1,602,000

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Tax Supported Bond	1,826,000	0	0	0	0	0	0	224,000	1,602,000
Total Funding	1,826,000	0	0	0	0	0	0	224,000	1,602,000

Project Title: Crayton Boulevard Extended**Project Number:** 1259**Account Number:** RDI065**Projected Annual FTE's:** 0**Projected Operating Costs:** \$1,000**Description:**

The project involves the construction of Crayton Boulevard between Maugans Avenue and Showalter Road. The project includes construction of a three lane closed section roadway (one lane in each direction with a continuous center left turn lane) and construction of new curb along existing Crayton Boulevard. The project length is approximately 2,000 LF.

Assumptions & Justifications:

No new water and/or sewer network is included in these costs and must be funded from other sources (other project or private sector investment). An ARC grant in the amount of \$1,000,000 is being secured for this project. This project assumes \$500,000 in private developer contributions.

Regional traffic is anticipated to significantly increase requiring more transportation connectivity in this area. The project has been identified as an economic development opportunity for the County.

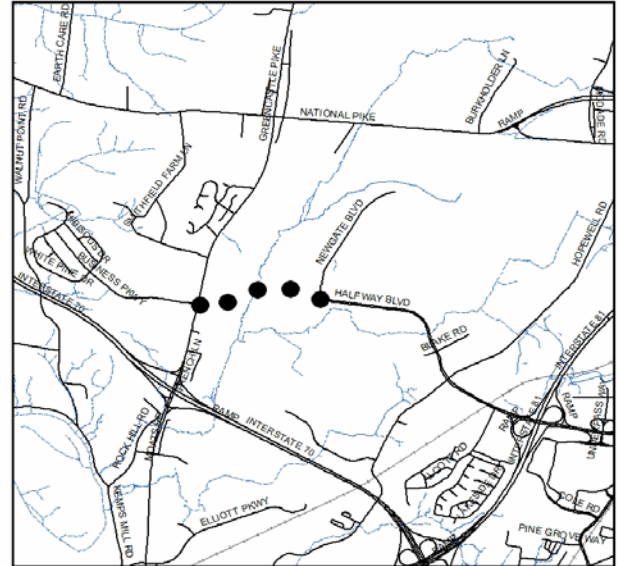
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	51,000	51,000	0	0	0	0	0	0	0
Construction	3,103,000	1,964,000	800,000	88,000	251,000	0	0	0	0
Inspection	150,000	150,000	0	0	0	0	0	0	0
Total Cost	3,304,000	2,165,000	800,000	88,000	251,000	0	0	0	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Hotel Rental Fund	110,000	110,000	0	0	0	0	0	0	0
Tax Supported Bond	1,694,000	555,000	800,000	88,000	251,000	0	0	0	0
Federal Grant	1,000,000	1,000,000	0	0	0	0	0	0	0
Contributions	500,000	500,000	0	0	0	0	0	0	0
Total Funding	3,304,000	2,165,000	800,000	88,000	251,000	0	0	0	0

Project Title: Halfway Boulevard Extended Bridge / Phase II**Project Number:** 1330**Account Number:****Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

The project involves the construction of a new bridge and a portion of the four lane roadway connecting Halfway Boulevard Extended to MD Route 63.

Assumptions & Justifications:

This project assumes developer contribution for a portion of the bridge/road cost.

The project is needed to provide additional road capacity and alternate routes resulting from continued and forecasted development in this area. The project provides an alternate access route to MD Route 63 and Interstate 70 for heavy truck traffic from industrial park on Halfway Boulevard Extended.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	2,000,000	0	0	0	0	0	0	0	2,000,000
Total Cost	2,000,000	0	0	0	0	0	0	0	2,000,000

Funding Sources:

Tax Supported Bond	1,000,000	0	0	0	0	0	0	0	1,000,000
Contributions	1,000,000	0	0	0	0	0	0	0	1,000,000
Total Funding	2,000,000	0	0	0	0	0	0	0	2,000,000

Project Title: HWY Equip and Vehicle Replacement Program

Project Number: 1119

Account Number: EQP042

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will replace vehicles and heavy/specialized equipment for maintenance and construction activity.

Assumptions & Justifications:

Recommendation for replacement is based on a review of policy, equipment condition, and consideration of funding levels that exist.

The County maintains an inventory of specialized and heavy equipment for maintenance and construction activities. Each year, the Public Works Department analyzes the condition of this equipment to identify candidates for replacement. This analysis is conducted in conjunction with the user departments and focuses on factors such as age, mileage and/or hours, and life-to-date repair history.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	11,573,144	473,144	1,020,000	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000
Total Cost	11,573,144	473,144	1,020,000	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000

Funding Sources:

General Fund	6,428,500	273,500	0	690,000	660,000	655,000	675,000	670,000	2,805,000
Highway Fund	4,445,000	150,000	370,000	350,000	400,000	425,000	425,000	450,000	1,875,000
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	699,644	49,644	650,000	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	11,573,144	473,144	1,020,000	1,040,000	1,060,000	1,080,000	1,100,000	1,120,000	4,680,000

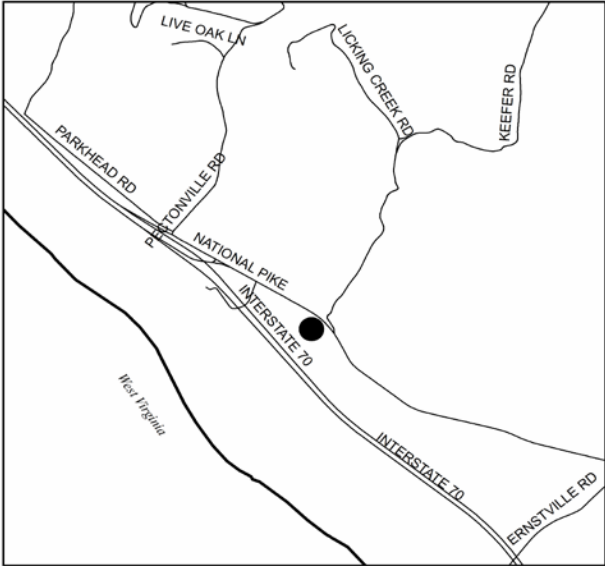
Project Title: Highway Maintenance Shop - Western Section

Project Number: 1122

Account Number: BLD084

Projected Annual FTE's: 0

Projected Operating Costs: \$3,000



Description:

This project will provide for the construction of a 1,500 SF building addition to the garage area at the western section highway maintenance shop. Additional space is needed to perform maintenance on vehicles, which currently must occur outside (including during inclement weather).

Assumptions & Justifications:

The site is a highway maintenance facility in a remote area critical for winter weather operations and response to public emergency situations.

Highway maintenance is a core county service.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	37,000	37,000	0	0	0	0	0	0	0
Construction	306,000	204,000	102,000	0	0	0	0	0	0
Inspection	31,000	0	31,000	0	0	0	0	0	0
Total Cost	374,000	241,000	133,000	0	0	0	0	0	0

Funding Sources:

General Fund	184,000	51,000	133,000	0	0	0	0	0	0
Highway Fund	88,000	88,000	0	0	0	0	0	0	0
Tax Supported Bond	102,000	102,000	0	0	0	0	0	0	0
Total Funding	374,000	241,000	133,000	0	0	0	0	0	0

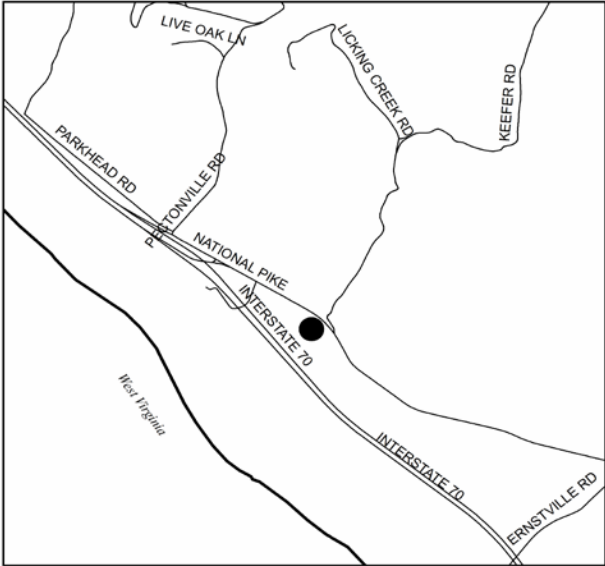
Project Title:HWY Western Section - Fuel Tank Replacement

Project Number:1234

Account Number:EQP056

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The project will replace the existing diesel fuel center and add a gasoline fuel center at the western highway maintenance facility. The existing underground diesel storage tanks are old style steel tanks under impressed current cathodic protection. The addition of new gasoline tanks will provide 24 hour 7 days a week access for all county vehicles including Sheriff's Office and Board of Education vehicles operating in the western part of the County. The project includes modernizing the existing pump, addition of new pump, adding controlled access and integrated software systems to match existing fuel center systems used elsewhere in County government to provide connectivity to the central section highway shop software tracking system for billing and data collection. The project also includes a motorized entrance gate.

Assumptions & Justifications:

Tanks are 20+ years old and present an increased liability of an environmental release. This project will reduce operating expenses associated with fuel usage and vehicle maintenance.

This project will dramatically reduce the environmental threat of a leaking underground tank and pipes. This project will allow vehicles and employees operating in the western portion of the County, including law enforcement officers to remain in the area of service. By constructing this facility, these employees will not be taken out of their coverage area to refuel their vehicle.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	20,000	20,000	0	0	0	0	0	0	0
Construction	776,000	127,000	96,000	192,000	193,000	168,000	0	0	0
Inspection	51,000	51,000	0	0	0	0	0	0	0
Total Cost	847,000	198,000	96,000	192,000	193,000	168,000	0	0	0

Funding Sources:

Highway Fund	847,000	198,000	96,000	192,000	193,000	168,000	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	847,000	198,000	96,000	192,000	193,000	168,000	0	0	0

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Solid Waste

Solid Waste
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Total	Prior Appr.	Budget		Ten Year Capital Program					Future
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023		
Project Costs											
Solid Waste											
184	Contingency - Solid Waste	147,000	87,000	0	0	0	0	0	0	60,000	
185	Close Out Cap - Rubble Fill	2,092,000	0	0	0	0	0	100,000	1,992,000	0	
186	40 West Truck Loading Facility Rehab & Upgrades	106,000	0	0	0	106,000	0	0	0	0	
187	40 West Pavement Rehab and Bridge Repair	696,000	0	0	0	0	0	0	0	696,000	
188	Seal Coating Closed Facilities	783,000	0	0	0	0	0	783,000	0	0	
189	40 West Partial Capping	3,051,000	0	0	0	0	3,051,000	0	0	0	
190	City County Upgrades	2,340,000	0	0	0	0	0	0	0	2,340,000	
191	City County Gas Mitigation	1,674,000	822,000	852,000	0	0	0	0	0	0	
192	Kaetzel Transfer Station Retaining Wall Replacement	177,000	0	0	177,000	0	0	0	0	0	
193	SW Equip/Vehicle Replacement Program	347,000	67,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000	
194	Resh Road Pavement Rehabilitation	1,060,000	0	0	0	1,060,000	0	0	0	0	
195	Transfer Station Upgrades	232,000	0	0	0	0	0	0	0	232,000	
Solid Waste Total		12,705,000	976,000	878,000	203,000	1,193,000	3,078,000	911,000	2,020,000	3,446,000	
Funding Sources											
General Fund		41,000	41,000	0	0	0	0	0	0	0	
Solid Waste Fund		453,000	113,000	26,000	26,000	27,000	27,000	28,000	28,000	178,000	
Self Supported Bond		12,211,000	822,000	852,000	177,000	1,166,000	3,051,000	883,000	1,992,000	3,268,000	
		12,705,000	976,000	878,000	203,000	1,193,000	3,078,000	911,000	2,020,000	3,446,000	

Project Title: Contingency - Solid Waste

Project Number: 97

Account Number: ADM009

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The purpose of this project is to maintain a budgetary reserve to provide for emergency or unanticipated expenditures.

Assumptions & Justifications:

Due to the inherent uncertainty in estimating capital project costs, it is the policy of the County to maintain project contingency. In the event that the capital contingency accounts have excess funds, the annual appropriation for that purpose may be modified to reflect the source of funds as determined through the budget process.

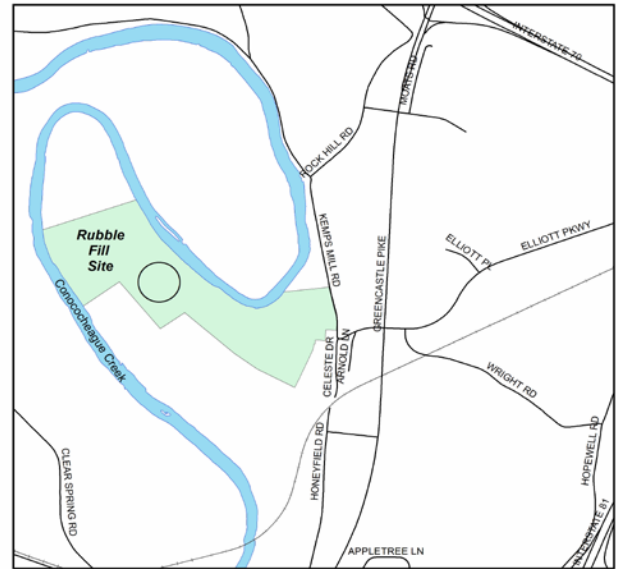
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Contingency	147,000	87,000	0	0	0	0	0	0	60,000
Other	0	0	0	0	0	0	0	0	0
Total Cost	147,000	87,000	0	0	0	0	0	0	60,000

Funding Sources:

Solid Waste Fund	147,000	87,000	0	0	0	0	0	0	60,000
Self Supported Bond	0	0	0	0	0	0	0	0	0
Total Funding	147,000	87,000	0	0	0	0	0	0	60,000

Project Title: Close Out Cap - Rubble Fill**Project Number:** 105**Account Number:** CAP003**Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

The purpose of the project is to design and construct a close out cap for the Rubble landfill.

Assumptions & Justifications:

At this point in time it is not known if a gas collection system will be required. If so, it will be a minimal passive system and should be considered included in the budget provided herein. Discussions with MDE staff indicate the facility permit can be routinely renewed, but the site kept inactive, as long as the facility is properly maintained. MDE stated they will not require capping to be installed prior to 2019 if no maintenance or compliance issues arise.

The work is required to comply with State regulations and the facility permit. Federal regulations do not apply to rubble fill sites.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	191,000	0	0	0	0	0	100,000	91,000	0
Construction	1,730,000	0	0	0	0	0	0	1,730,000	0
Inspection	171,000	0	0	0	0	0	0	171,000	0
Total Cost	2,092,000	0	0	0	0	0	100,000	1,992,000	0

Funding Sources:

General Fund	0	0	0	0	0	0	0	0	0
Solid Waste Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	2,092,000	0	0	0	0	0	100,000	1,992,000	0
Bond Proceeds	0	0	0	0	0	0	0	0	0
Revenue Bond Proceeds	0	0	0	0	0	0	0	0	0
Reappropriated Funds	0	0	0	0	0	0	0	0	0
Total Funding	2,092,000	0	0	0	0	0	100,000	1,992,000	0

Project Title: 40 West Truck Loading Facility Rehab & Upgrades

Project Number: 1127

Account Number: BLD072

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

Rehabilitation and upgrades to the existing leachate pump station at 40 West Landfill to address concerns with aging infrastructure.

Assumptions & Justifications:

The infrastructure was constructed in 2000; the rehabilitation and upgrades will be per manufacturer's recommendations.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	106,000	0	0	0	106,000	0	0	0	0
Total Cost	106,000	0	0	0	106,000	0	0	0	0

Funding Sources:

Self Supported Bond	106,000	0	0	0	106,000	0	0	0	0
Capital Reserve - Solid Waste	0	0	0	0	0	0	0	0	0
Total Funding	106,000	0	0	0	106,000	0	0	0	0

Project Title:40 West Pavement Rehab and Bridge Repair

Project Number:1129

Account Number:

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The project includes milling and paving roads and parking lots at the 40 West Landfill. This project will include any maintenance that may be required on the Earthcare Road Bridge.

Assumptions & Justifications:

Roads, parking lots and bridge will have been in service for 20+ years and will need rehabilitation.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:									
Construction	696,000	0	0	0	0	0	0	0	696,000
Total Cost	696,000	0	0	0	0	0	0	0	696,000
Funding Sources:									
Self Supported Bond	696,000	0	0	0	0	0	0	0	696,000
Total Funding	696,000	0	0	0	0	0	0	0	696,000

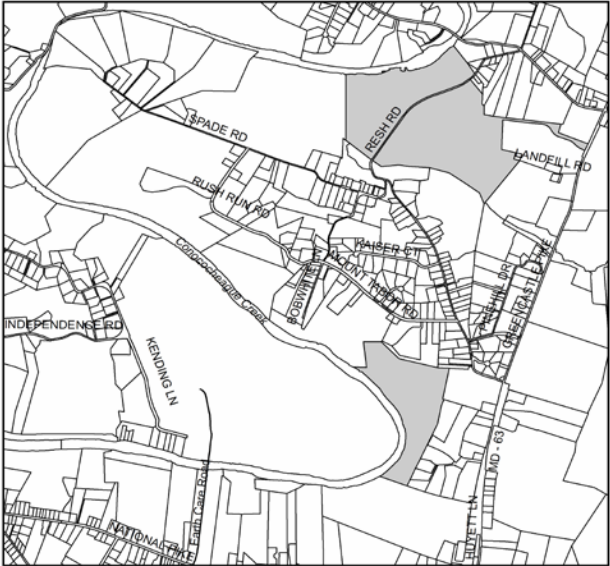
Project Title: Seal Coating Closed Facilities

Project Number: 1138

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will seal coat Resh Road and City/County Landfill pavement.

Assumptions & Justifications:

Existing pavements at the closed facilities will be in need of pavement maintenance. The pavement needs to be maintained for maintenance vehicles and leachate hauling vehicles.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	783,000	0	0	0	0	0	783,000	0	0
Total Cost	783,000	0	0	0	0	0	783,000	0	0

Funding Sources:

Self Supported Bond	783,000	0	0	0	0	0	783,000	0	0
Total Funding	783,000	0	0	0	0	0	783,000	0	0

Project Title:40 West Partial Capping

Project Number:1139

Account Number:

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

The project provides for partial capping of the 40 West Landfill to reduce leachate generation.

Assumptions & Justifications:

Original project was divided into three projects over three years. Reducing the project from three projects to one reduces the overall cost of the construction, design and inspection. The capping material was changed to a rain cover which also reduced cost. This change was made since the Material Recovery Facility will be mining the trash from the existing cells. Only a temporary cap is needed.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	189,000	0	0	0	0	189,000	0	0	0
Construction	2,700,000	0	0	0	0	2,700,000	0	0	0
Inspection	162,000	0	0	0	0	162,000	0	0	0
Total Cost	3,051,000	0	0	0	0	3,051,000	0	0	0

Funding Sources:

Self Supported Bond	3,051,000	0	0	0	0	3,051,000	0	0	0
Total Funding	3,051,000	0	0	0	0	3,051,000	0	0	0

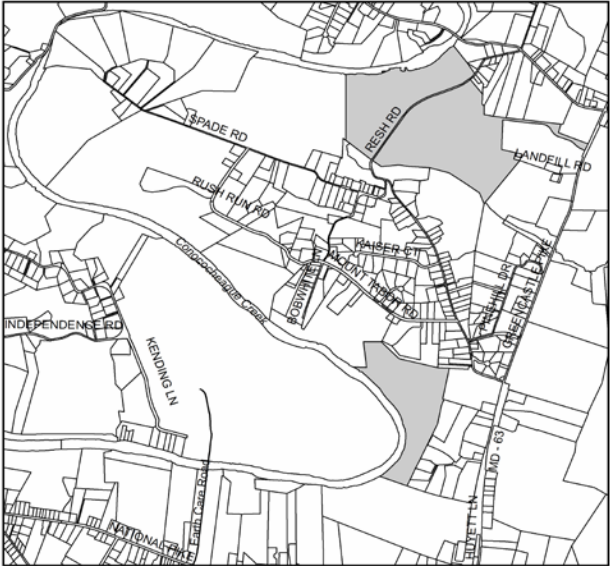
Project Title:City County Upgrades

Project Number:1241

Account Number:

Projected Annual FTE's:0

Projected Operating Costs:\$0



Description:

This project will upgrade and maintain existing infrastructure at the City/County Landfill to ensure compliance with state and federal regulations. Upgrades may include but are not limited to, pumping systems maintenance, leachate tank maintenance or adding cover material.

Assumptions & Justifications:

The project will ensure that the County remain in compliance with Federal and State regulation.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	2,340,000	0	0	0	0	0	0	0	2,340,000
Total Cost	2,340,000	0	0	0	0	0	0	0	2,340,000

Funding Sources:

Self Supported Bond	2,340,000	0	0	0	0	0	0	0	2,340,000
Total Funding	2,340,000	0	0	0	0	0	0	0	2,340,000

Project Title: City County Gas Mitigation

Project Number: 1280

Account Number: LDI056

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

In 2015, a gas study was done to determine if there is, and the extent, of gas migration at the City/County Landfill. The study showed there is gas migration and recommends a gas mitigation system be constructed.

Assumptions & Justifications:

Based on regulations, the County is required to prevent any gas generated by a landfill from migrating off the landfill property to adjacent properties.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	1,674,000	822,000	852,000	0	0	0	0	0	0
Total Cost	1,674,000	822,000	852,000	0	0	0	0	0	0

Funding Sources:

Self Supported Bond	1,674,000	822,000	852,000	0	0	0	0	0	0
Total Funding	1,674,000	822,000	852,000	0	0	0	0	0	0

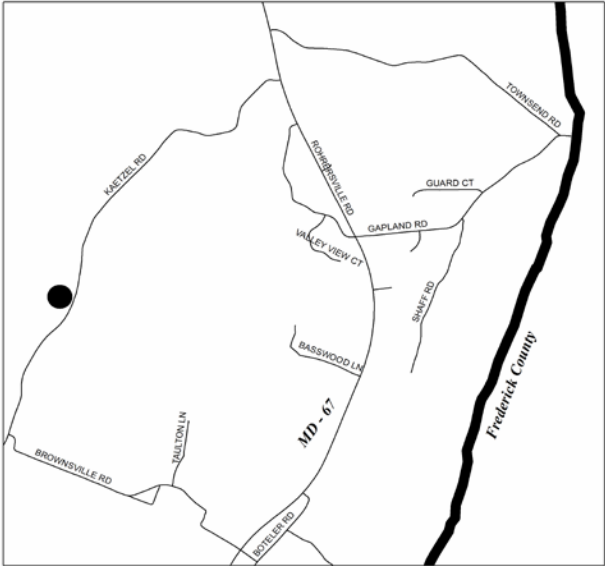
Project Title: Kaetzel Transfer Station Retaining Wall Replacement

Project Number: 1282

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will replace the retaining wall at the Kaetzel Road Transfer Station.

Assumptions & Justifications:

The retaining wall at the citizen drop off area at the Kaetzel Transfer Station is showing signs of wear and instability and is in need of replacement.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	177,000	0	0	177,000	0	0	0	0	0
Total Cost	177,000	0	0	177,000	0	0	0	0	0

Funding Sources:

Self Supported Bond	177,000	0	0	177,000	0	0	0	0	0
Total Funding	177,000	0	0	177,000	0	0	0	0	0

Project Title: SW Equip/Vehicle Replacement Program

Project Number: 1305

Account Number: VEH011

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well managed organization, Solid Waste wants to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide services.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Vehicles	347,000	67,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Total Cost	347,000	67,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000

Funding Sources:

General Fund	41,000	41,000	0	0	0	0	0	0	0
Solid Waste Fund	306,000	26,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Total Funding	347,000	67,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000

Project Title: Resh Road Pavement Rehabilitation

Project Number: 1312

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project is for the rehabilitation of the Resh Road Landfill access road.

Assumptions & Justifications:

A portion of the existing access road was constructed on areas where trash was buried. Since closing the landfill, the access road has continued to subside and is in need of major rehabilitation. The access road must remain open and passible for the leachate trucks to have access to the tanks for leachate removal.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	106,000	0	0	0	106,000	0	0	0	0
Construction	901,000	0	0	0	901,000	0	0	0	0
Inspection	53,000	0	0	0	53,000	0	0	0	0
Total Cost	1,060,000	0	0	0	1,060,000	0	0	0	0

Funding Sources:

Self Supported Bond	1,060,000	0	0	0	1,060,000	0	0	0	0
Total Funding	1,060,000	0	0	0	1,060,000	0	0	0	0

Project Title: Transfer Station Upgrades

Project Number: 1313

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will upgrade the attendant office facilities at each transfer station.

Assumptions & Justifications:

The existing buildings (sheds) at the four transfer stations are approximately 15-20 years old. It is anticipated the buildings will need replaced within the next ten years. Along with the replacement, electrical upgrades will be needed.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	29,000	0	0	0	0	0	0	0	29,000
Construction	203,000	0	0	0	0	0	0	0	203,000
Total Cost	232,000	0	0	0	0	0	0	0	232,000

Funding Sources:

Self Supported Bond	232,000	0	0	0	0	0	0	0	232,000
Total Funding	232,000	0	0	0	0	0	0	0	232,000

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Transit

Transit
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027

Page	Project	Budget Year				Ten Year Capital Program				
		Total	Prior Appr.	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
	<u>Transit</u>									
198	Fixed Route Bus Replacement Program	4,748,000	0	2,994,000	0	1,037,000	0	717,000	0	0
199	ADA Bus Replacement	544,915	137,915	0	0	0	97,000	0	101,000	209,000
200	Vehicle Maintenance Program	4,176,000	291,000	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000
	Transit Total	9,468,915	428,915	3,351,000	364,000	1,408,000	475,000	1,102,000	493,000	1,847,000
Funding Sources										
	General Fund	938,090	39,090	335,000	36,000	140,000	47,000	109,000	49,000	183,000
	Federal Grant	7,580,030	347,030	2,681,000	291,000	1,127,000	380,000	882,000	395,000	1,477,000
	State Grant	950,795	42,795	335,000	37,000	141,000	48,000	111,000	49,000	187,000
		9,468,915	428,915	3,351,000	364,000	1,408,000	475,000	1,102,000	493,000	1,847,000

Project Title: Fixed Route Bus Replacement Program

Project Number: 134

Account Number: VEH003

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

FY 18 - Replace nine (9) fixed-route transit buses, Units 701 - 709 which will become 715 - 723
FY 20 - Replace three (3) fixed-route transit buses, Units 710 -712 which will become 724- 726
FY 22 - Replace two (2) fixed-route transit buses, Units 713 - 714 which will become 727 - 728
FY 28 - Replace nine (9) fixed-route transit buses, Units 715- 723 which will become 729 - 737
FY 30 - Replace three (3) fixed-route transit buses, Units 724 -726 which will become 738 - 740
FY 32 - Replace two (2) fixed-route transit buses, Units 727 - 728 which will become 741 - 742

Assumptions & Justifications:

All out-year procurements will be based on available grant funds from MTA and local match approval. Dollar figures shown are provided by MTA based on the current small/mid-size bus contract. The project funding assumes 80% Federal, 10% State, 10% Local.

Following the Maryland Transit Administration (MTA) useful life criteria, MTA provides grant funding to replace existing vehicles when they reach the end of the useful life criteria. Out years are projected based on the current useful life schedule.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	0	0	0	0	0	0	0	0	0
Vehicles	4,748,000	0	2,994,000	0	1,037,000	0	717,000	0	0
Total Cost	4,748,000	0	2,994,000	0	1,037,000	0	717,000	0	0

Funding Sources:

General Fund	474,000	0	300,000	0	103,000	0	71,000	0	0
Federal Grant	3,799,000	0	2,395,000	0	830,000	0	574,000	0	0
State Grant	475,000	0	299,000	0	104,000	0	72,000	0	0
Total Funding	4,748,000	0	2,994,000	0	1,037,000	0	717,000	0	0

Project Title: ADA Bus Replacement

Project Number: 138

Account Number: VEH005

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

FY 21 - Replace one (1) ADA Program bus (Unit 505) becomes 508
FY 23 - Replace one (1) ADA Program bus (Unit 506) becomes 509
FY 24 - Replace one (1) ADA Program bus (Unit 507) becomes 510
FY 26 - Replace one (1) ADA Program bus (Unit 508) becomes 511
FY 28 - Replace one (1) ADA Program bus (Unit 509) becomes 512
FY 29 - Replace one (1) ADA Program bus (Unit 510) becomes 513
FY 31 - Replace one (1) ADA Program bus (Unit 511) becomes 514
FY 33 - Replace one (1) ADA Program bus (Unit 512) becomes 515
FY 34 - Replace one (1) ADA Program bus (Unit 513) becomes 516
FY 35 - Replace one (1) ADA Program bus (Unit 516) becomes 519

Assumptions & Justifications:

All out-year procurements will be based on available grant funds from MTA and local match approval. Dollar figures shown are provided by MTA based on the current small/mid-size bus contract. The project funding assumes 80% Federal, 10% State, 10% Local.

Following the Maryland Transit Administration (MTA) useful life criteria, MTA provides grant funding to replace existing vehicles when they reach the end of the useful life criteria. Out years are projected based on the current useful life schedule.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	544,915	137,915	0	0	0	97,000	0	101,000	209,000
Total Cost	544,915	137,915	0	0	0	97,000	0	101,000	209,000

Funding Sources:

General Fund	49,090	10,090	0	0	0	9,000	0	10,000	20,000
Federal Grant	440,030	114,030	0	0	0	78,000	0	81,000	167,000
State Grant	55,795	13,795	0	0	0	10,000	0	10,000	22,000
Total Funding	544,915	137,915	0	0	0	97,000	0	101,000	209,000

Project Title: Vehicle Maintenance Program

Project Number: 1083

Account Number: EQP021

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will provide for preventative maintenance and repairs of transit vehicles and facilities.

Assumptions & Justifications:

The project assumes funding 80% Federal, 10% State, 10% Local and is contingent on grant funding. Federal Transit Administration (FTA) determinations now allow for expenses such as tools, equipment, repair materials, and preventative care for the fleet of transit vehicles and transit facilities to be capitalized.

Maintaining federally funded assets is a priority to the Federal Transit Administration (FTA), Maryland Transit Administration (MTA) and Washington County Transit (WCT).

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	4,176,000	291,000	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000
Total Cost	4,176,000	291,000	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000

Funding Sources:

General Fund	415,000	29,000	35,000	36,000	37,000	38,000	38,000	39,000	163,000
Capital Reserve - General	0	0	0	0	0	0	0	0	0
Federal Grant	3,341,000	233,000	286,000	291,000	297,000	302,000	308,000	314,000	1,310,000
State Grant	420,000	29,000	36,000	37,000	37,000	38,000	39,000	39,000	165,000
Total Funding	4,176,000	291,000	357,000	364,000	371,000	378,000	385,000	392,000	1,638,000

Water Quality

*Water Quality
Capital Improvement Ten Year Summary
Fiscal Year 2018 - 2027*

Page	Project	Total	Prior Appr.	Budget		Ten Year Capital Program				
				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Future
Project Costs										
Water Quality										
202	General Building Improvements	1,393,000	101,000	0	520,000	594,000	25,000	24,000	25,000	104,000
203	Laboratory Rehab of Ventilation System	255,000	0	255,000	0	0	0	0	0	0
204	WQ Equip/Vehicle Replacement Program	1,377,234	224,234	94,000	96,000	98,000	99,000	102,000	103,000	561,000
205	SCADA Replacement	300,000	0	0	0	0	0	0	0	300,000
206	Lab Equipment Replacement	285,000	47,000	26,000	31,000	21,000	22,000	22,000	22,000	94,000
207	Smithsburg WwTP - ENR Upgrades	12,694,387	1,495,387	408,000	0	5,391,000	5,400,000	0	0	0
208	Pump Station Upgrades - Various Stations	1,909,683	1,024,683	0	0	0	0	0	0	885,000
209	Replace PO 2 Pump Station	1,426,000	0	0	0	0	0	0	1,426,000	0
210	Potomac Edison Pump Station & Force Main	1,632,000	0	0	0	0	0	0	1,632,000	0
211	Antietam WwTP - ENR Upgrades	4,152,000	622,000	0	0	0	0	0	0	3,530,000
212	General WwTP Improvements	3,286,000	0	0	0	0	0	986,000	0	2,300,000
213	Collection System Rehabilitation Project	3,755,087	13,087	357,000	780,000	0	0	275,000	560,000	1,770,000
214	Sandy Hook WwTP	770,000	0	0	0	0	0	770,000	0	0
215	Heavy Sewer EQP and VEH Replacement	912,000	315,000	88,000	95,000	74,000	39,000	39,000	40,000	222,000
216	Replace Grinder Pumps	761,000	26,000	26,000	26,000	47,000	82,000	84,000	85,000	385,000
217	Capacity Management Project	9,723,000	1,173,000	510,000	520,000	3,180,000	3,240,000	1,100,000	0	0
218	WQ Water Meter Replacement	557,095	161,095	50,000	50,000	50,000	50,000	32,000	32,000	132,000
219	General WTP Improvements	884,325	62,325	0	0	0	242,000	0	0	580,000
220	Sharpsburg Water Treatment Plant	794,000	0	204,000	0	0	0	0	0	590,000
221	Mt Aetna Water System Improvements	729,000	0	0	130,000	0	599,000	0	0	0
222	Highfield/Sharpsburg Water Storage Tank	330,000	0	0	0	0	0	330,000	0	0
223	WQ Main Replacement	3,588,000	0	0	0	0	0	0	616,000	2,972,000
Water Quality Total		51,513,811	5,264,811	2,018,000	2,248,000	9,455,000	9,798,000	3,764,000	4,541,000	14,425,000
Funding Sources										
	Utility Admin Fund	325,234	325,234	0	0	0	0	0	0	0
	Water Fund	161,095	161,095	0	0	0	0	0	0	0
	Sewer Fund	2,766,157	2,766,157	0	0	0	0	0	0	0
	Self Supported Bond	37,021,325	1,592,325	1,734,000	1,925,000	8,035,000	9,431,000	3,461,000	888,000	9,955,000
	Capital Reserve - General	3,438,000	0	0	0	0	0	0	566,000	2,872,000
	Capital Reserve - Utility	1,616,000	47,000	120,000	127,000	119,000	146,000	148,000	150,000	759,000
	Capital Reserve - Sewer	1,705,000	373,000	114,000	121,000	121,000	121,000	123,000	125,000	607,000
	Capital Reserve - Water	396,000	0	50,000	50,000	50,000	50,000	32,000	32,000	132,000
	State Grant	1,765,000	0	0	25,000	1,130,000	50,000	0	460,000	100,000
	Contributions	2,320,000	0	0	0	0	0	0	2,320,000	0
		51,513,811	5,264,811	2,018,000	2,248,000	9,455,000	9,798,000	3,764,000	4,541,000	14,425,000

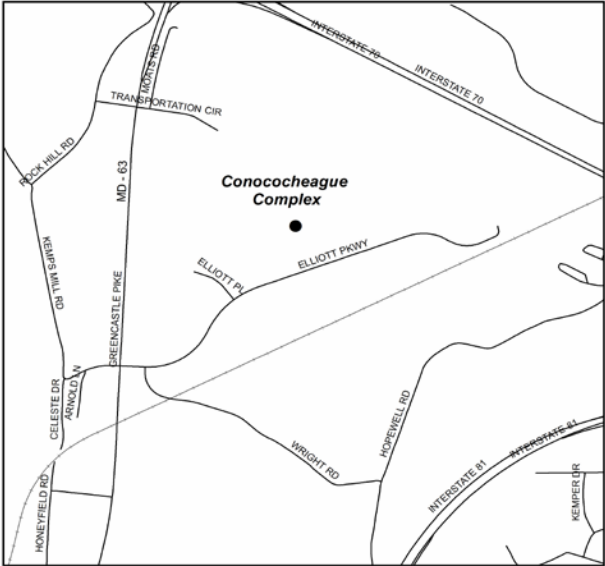
Project Title: General Building Improvements

Project Number: 113

Account Number: BLD073

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will provide for general building improvements to the administration office building and maintenance buildings and associated paving on the Conococheague Complex.

Assumptions & Justifications:

The buildings are in need of improvements due to normal aging and recommendations by the manufacturer of the building.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	1,393,000	101,000	0	520,000	594,000	25,000	24,000	25,000	104,000
Total Cost	1,393,000	101,000	0	520,000	594,000	25,000	24,000	25,000	104,000

Funding Sources:

Utility Admin Fund	101,000	101,000	0	0	0	0	0	0	0
Self Supported Bond	1,114,000	0	0	520,000	594,000	0	0	0	0
Capital Reserve - Utility	178,000	0	0	0	0	25,000	24,000	25,000	104,000
Total Funding	1,393,000	101,000	0	520,000	594,000	25,000	24,000	25,000	104,000

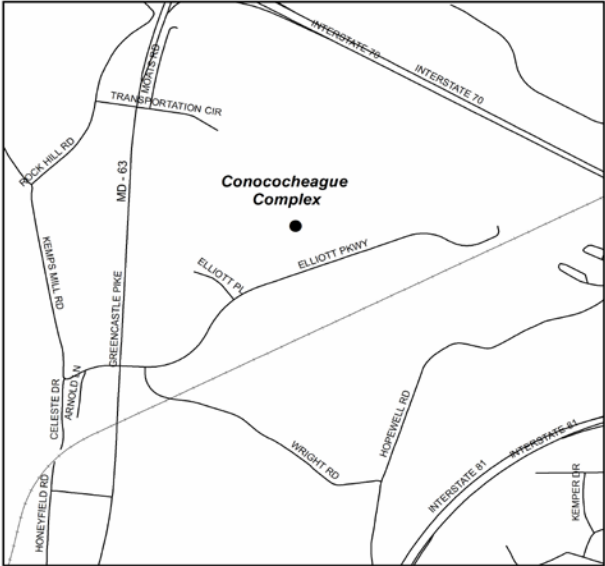
Project Title: Laboratory Rehab of Ventilation System

Project Number: 1162

Account Number: BLD096

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will upgrade the existing ventilation system within the laboratory.

Assumptions & Justifications:

The existing ventilation system will reach its useful life and will need to be replaced.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	255,000	0	255,000	0	0	0	0	0	0
Total Cost	255,000	0	255,000	0	0	0	0	0	0

Funding Sources:

Self Supported Bond	255,000	0	255,000	0	0	0	0	0	0
Total Funding	255,000	0	255,000	0	0	0	0	0	0

Project Title: WQ Equip/Vehicle Replacement Program

Project Number: 1175

Account Number: VEH007

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well-managed organization, Water Quality wants to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide services within the Water Quality service areas.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	323,000	43,000	26,000	26,000	27,000	27,000	28,000	28,000	118,000
Vehicles	1,054,234	181,234	68,000	70,000	71,000	72,000	74,000	75,000	443,000
Total Cost	1,377,234	224,234	94,000	96,000	98,000	99,000	102,000	103,000	561,000

Funding Sources:

Utility Admin Fund	224,234	224,234	0	0	0	0	0	0	0
Water Fund	0	0	0	0	0	0	0	0	0
Sewer Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - Utility	1,153,000	0	94,000	96,000	98,000	99,000	102,000	103,000	561,000
Total Funding	1,377,234	224,234	94,000	96,000	98,000	99,000	102,000	103,000	561,000

Project Title: SCADA Replacement

Project Number: 1314

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project involves the replacement / upgrades to the existing SCADA equipment at water and wastewater treatment plant and pump stations.

Assumptions & Justifications:

The replacement / upgrades are required to address aging equipment and insure that emergency conditions can be reported immediately to staff to prevent environmental and/or health issues from occurring.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	300,000	0	0	0	0	0	0	0	300,000
Total Cost	300,000	0	0	0	0	0	0	0	300,000

Funding Sources:

Self Supported Bond	300,000	0	0	0	0	0	0	0	300,000
Total Funding	300,000	0	0	0	0	0	0	0	300,000

Project Title: Lab Equipment Replacement

Project Number: 1315

Account Number: EQP063

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace / upgrade existing lab testing equipment.

Assumptions & Justifications:

The existing lab equipment has reached it's useful life and needs to replaced / upgraded.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	285,000	47,000	26,000	31,000	21,000	22,000	22,000	22,000	94,000
Total Cost	285,000	47,000	26,000	31,000	21,000	22,000	22,000	22,000	94,000

Funding Sources:

Utility Admin Fund	0	0	0	0	0	0	0	0	0
Capital Reserve - Utility	285,000	47,000	26,000	31,000	21,000	22,000	22,000	22,000	94,000
Total Funding	285,000	47,000	26,000	31,000	21,000	22,000	22,000	22,000	94,000

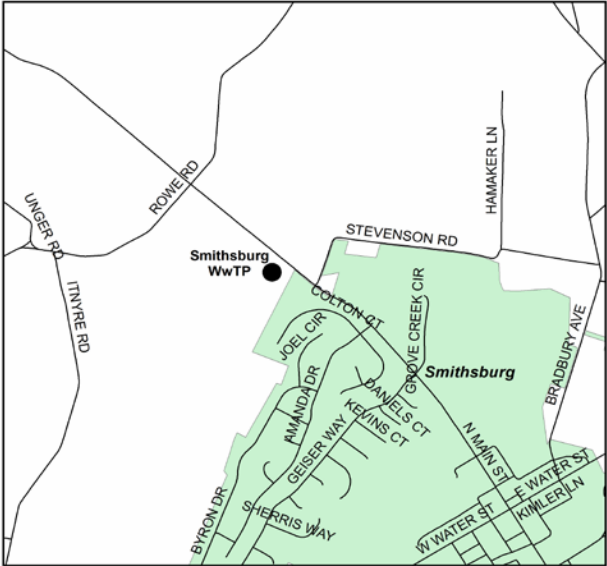
Project Title: Smithsburg WwTP - ENR Upgrades

Project Number: 115

Account Number: TRP021

Projected Annual FTE's: 0

Projected Operating Costs: \$10,000



Description:

The project will upgrade the facility to address Maryland Department of the Environment (MDE) strategy for Enhanced Nutrient Removal (ENR) and expand capacity to address growth needs of the area.

Assumptions & Justifications:

Pending grant funding approval.

The upgrade is required to meet MDE's ENR strategy and to prepare for anticipated development in the area.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	843,470	435,470	408,000	0	0	0	0	0	0
Construction	11,850,917	1,059,917	0	0	5,391,000	5,400,000	0	0	0
Total Cost	12,694,387	1,495,387	408,000	0	5,391,000	5,400,000	0	0	0

Funding Sources:

Sewer Fund	1,495,387	1,495,387	0	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Self Supported Bond	10,069,000	0	408,000	0	4,261,000	5,400,000	0	0	0
Excise Tax - Other	0	0	0	0	0	0	0	0	0
State Grant	1,130,000	0	0	0	1,130,000	0	0	0	0
Total Funding	12,694,387	1,495,387	408,000	0	5,391,000	5,400,000	0	0	0

Project Title: Pump Station Upgrades - Various Stations

Project Number: 117

Account Number: LIN034

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project includes electrical and equipment upgrades.

Assumptions & Justifications:

Upgrades are required to address aging equipment issues.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	1,909,683	1,024,683	0	0	0	0	0	0	885,000
Total Cost	1,909,683	1,024,683	0	0	0	0	0	0	885,000

Funding Sources:

Sewer Fund	4,683	4,683	0	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Self Supported Bond	1,905,000	1,020,000	0	0	0	0	0	0	885,000
Total Funding	1,909,683	1,024,683	0	0	0	0	0	0	885,000

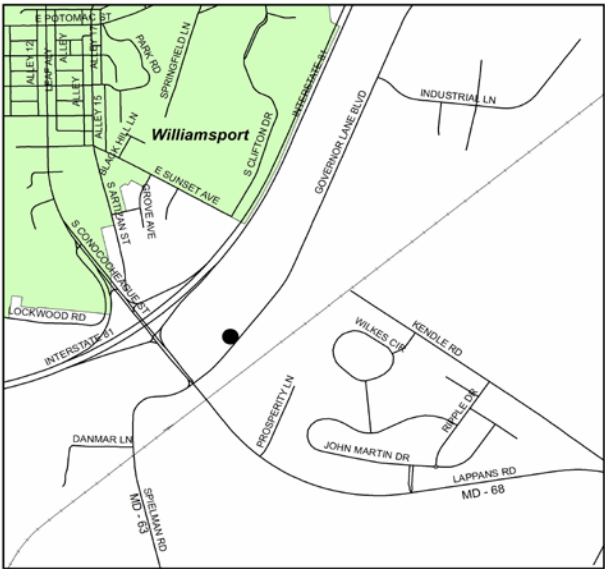
Project Title: Replace PO 2 Pump Station

Project Number: 120

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project involves replacement of the PO 2 pump station.

Assumptions & Justifications:

Pending developer contributions.

The current pump station will be unable to handle future sewage flow attributed to development in the service area. Therefore, the pump station will need to be replaced at the developer’s expense to handle the projected flows.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	1,426,000	0	0	0	0	0	0	1,426,000	0
Total Cost	1,426,000	0	0	0	0	0	0	1,426,000	0

Funding Sources:

Self Supported Bond	153,000	0	0	0	0	0	0	153,000	0
Contributions	1,273,000	0	0	0	0	0	0	1,273,000	0
Total Funding	1,426,000	0	0	0	0	0	0	1,426,000	0

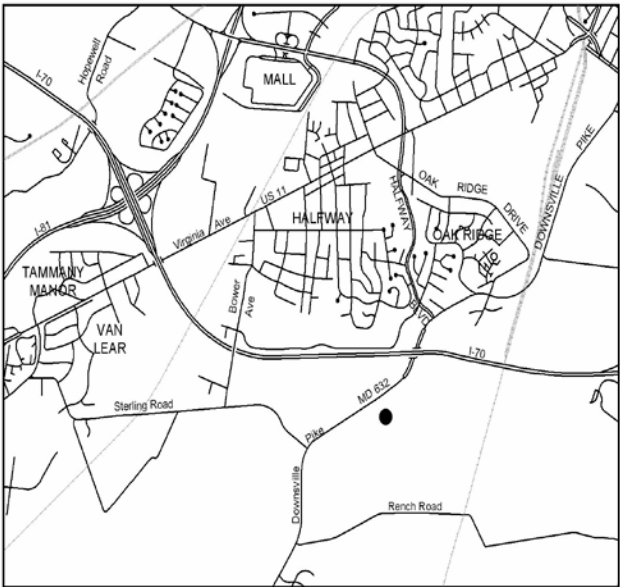
Project Title: Potomac Edison Pump Station & Force Main

Project Number: 121

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will provide for the relocation of the existing force main and the Potomac Edison pump station.

Assumptions & Justifications:

Pending grant funding approval and developer contributions.

Relocation of the Potomac Edison pump station and force main is required to facilitate service of the properties in the revised Urban Growth Area Boundary.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	1,632,000	0	0	0	0	0	0	1,632,000	0
Total Cost	1,632,000	0	0	0	0	0	0	1,632,000	0

Funding Sources:

Self Supported Bond	175,000	0	0	0	0	0	0	175,000	0
State Grant	410,000	0	0	0	0	0	0	410,000	0
Contributions	1,047,000	0	0	0	0	0	0	1,047,000	0
Total Funding	1,632,000	0	0	0	0	0	0	1,632,000	0

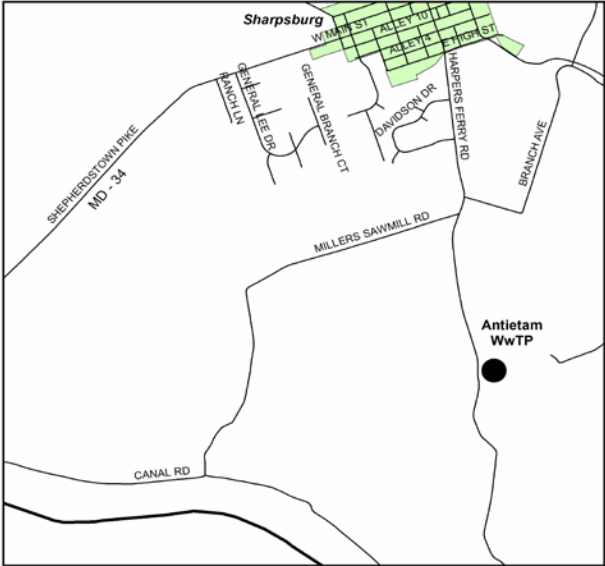
Project Title: Antietam WwTP - ENR Upgrades

Project Number: 122

Account Number: TRP017

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project will upgrade the facility to meet current and future EPA and MDE permit requirements.

Assumptions & Justifications:

The project will upgrade the facility to address deteriorating conditions of the infrastructure due to aging and meet MDE's ENR Strategy requirements.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	127,000	70,000	0	0	0	0	0	0	57,000
Construction	4,025,000	552,000	0	0	0	0	0	0	3,473,000
Total Cost	4,152,000	622,000	0	0	0	0	0	0	3,530,000

Funding Sources:

Sewer Fund	112,000	112,000	0	0	0	0	0	0	0
Tax Supported Bond	0	0	0	0	0	0	0	0	0
Self Supported Bond	4,040,000	510,000	0	0	0	0	0	0	3,530,000
Excise Tax - Other	0	0	0	0	0	0	0	0	0
State Grant	0	0	0	0	0	0	0	0	0
Total Funding	4,152,000	622,000	0	0	0	0	0	0	3,530,000

Project Title: General WwTP Improvements

Project Number: 1078

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project involves general upgrades including electrical systems and equipment as required to address aging infrastructure and regulatory requirements.

Assumptions & Justifications:

Upgrades are required to address aging infrastructure and equipment. Some of these upgrades may not have been accomplished under previous projects due to grant funding restrictions.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	114,000	0	0	0	0	0	0	0	114,000
Construction	3,172,000	0	0	0	0	0	986,000	0	2,186,000
Total Cost	3,286,000	0	0	0	0	0	986,000	0	2,300,000

Funding Sources:

Self Supported Bond	3,286,000	0	0	0	0	0	986,000	0	2,300,000
Total Funding	3,286,000	0	0	0	0	0	986,000	0	2,300,000

Project Title: Collection System Rehabilitation Project

Project Number: 1159

Account Number: LIN040

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

This project will rehabilitate existing sewer lines.

Assumptions & Justifications:

The Collection Systems in the County are aging and showing normal deterioration which requires repairs, slip lining or replacement to reduce the amount of Inflow and Infiltration (I&I) entering the system and to reduce the potential of line breaks and sewer overflows. I&I impacts the budget by increasing the amount of water requiring treatment without increasing the revenue to pay for this expense. Sewer line breaks and sewer overflows cause environmental issues.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	3,755,087	13,087	357,000	780,000	0	0	275,000	560,000	1,770,000
Total Cost	3,755,087	13,087	357,000	780,000	0	0	275,000	560,000	1,770,000

Funding Sources:

Sewer Fund	13,087	13,087	0	0	0	0	0	0	0
Self Supported Bond	3,742,000	0	357,000	780,000	0	0	275,000	560,000	1,770,000
Total Funding	3,755,087	13,087	357,000	780,000	0	0	275,000	560,000	1,770,000

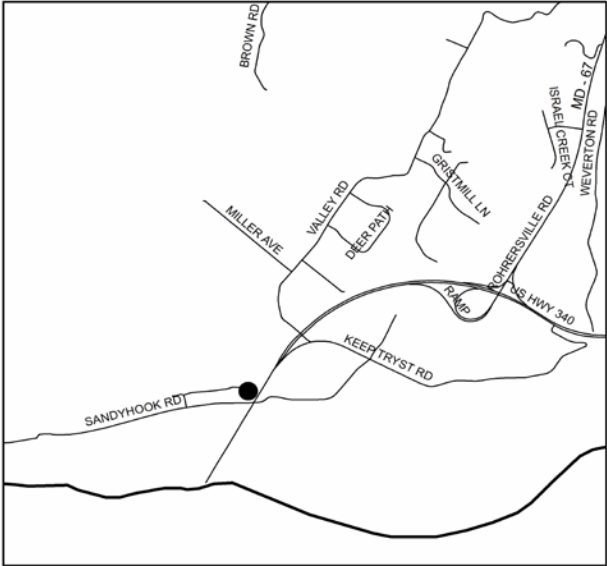
Project Title: Sandy Hook WwTP

Project Number: 1172

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

This project will provide for the treatment plant upgrade.

Assumptions & Justifications:

Aging equipment will be reaching the manufacturer's useful life and will require upgrades or repairs.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	110,000	0	0	0	0	0	110,000	0	0
Construction	660,000	0	0	0	0	0	660,000	0	0
Total Cost	770,000	0	0	0	0	0	770,000	0	0

Funding Sources:

Self Supported Bond	770,000	0	0	0	0	0	770,000	0	0
Total Funding	770,000	0	0	0	0	0	770,000	0	0

Project Title: Heavy Sewer EQP and VEH Replacement

Project Number: 1215

Account Number: VEH010

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace heavy equipment and vehicles that are beyond their useful life, which are typically the most costly to maintain. In line with the objectives of a well-managed organization, Water Quality strives to establish an equipment and fleet replacement program that will, in time, set the vehicle and equipment replacement cycle in line with best practices, minimizing operating and maintenance costs.

Assumptions & Justifications:

The goal of the replacement program is to strike a balance for minimizing replacement costs versus maintenance and fuel costs. The program allows for the purchase of replacement vehicles and equipment used to provide services within the Water Quality service areas.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	126,000	84,000	3,000	3,000	4,000	4,000	4,000	4,000	20,000
Vehicles	786,000	231,000	85,000	92,000	70,000	35,000	35,000	36,000	202,000
Total Cost	912,000	315,000	88,000	95,000	74,000	39,000	39,000	40,000	222,000

Funding Sources:

Sewer Fund	315,000	315,000	0	0	0	0	0	0	0
Capital Reserve - Sewer	597,000	0	88,000	95,000	74,000	39,000	39,000	40,000	222,000
Total Funding	912,000	315,000	88,000	95,000	74,000	39,000	39,000	40,000	222,000

Project Title: Replace Grinder Pumps

Project Number: 1251

Account Number: EQP055

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will provide the replacement of core units of aging infrastructure and will extend the life of the system.

Assumptions & Justifications:

Some of the existing grinder pumps have reached their life expectancy and need to be replaced.

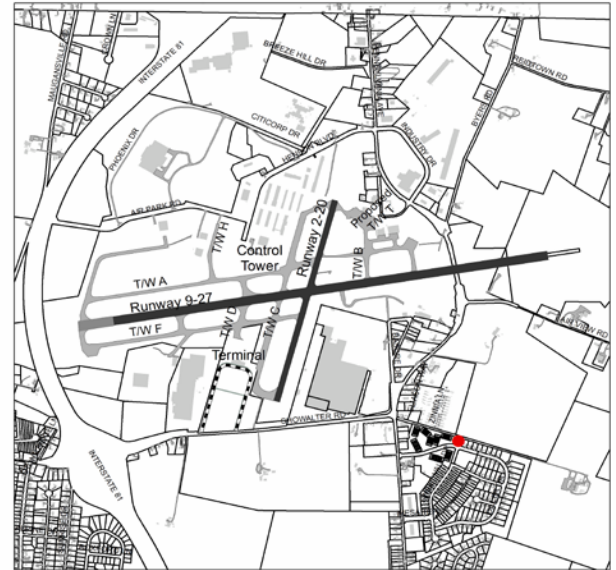
10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Equipment/Furniture	761,000	26,000	26,000	26,000	47,000	82,000	84,000	85,000	385,000
Total Cost	761,000	26,000	26,000	26,000	47,000	82,000	84,000	85,000	385,000

Funding Sources:

Sewer Fund	26,000	26,000	0	0	0	0	0	0	0
Capital Reserve - Sewer	735,000	0	26,000	26,000	47,000	82,000	84,000	85,000	385,000
Total Funding	761,000	26,000	26,000	26,000	47,000	82,000	84,000	85,000	385,000

Project Title: Capacity Management Project**Project Number:** 1286**Account Number:** LIN042**Projected Annual FTE's:** 0**Projected Operating Costs:** \$0**Description:**

Capacity Management has been expanded to include the following:

Phase I – Construct a new regional pump station to service the Maugansville area. The new pump station will pump the sewage to the Cedar Lawn area where it will be discharged into the County's gravity collection system. Gravity lines will be constructed from the new station to Maugansville and Maugans Meadow's pump stations. Once the new station is on-line the existing Maugansville and Maugans Meadow's pump stations will be taken off-line.

Phase II – Construct a new gravity line from the regional station to the Garden Spot pump station. At this time, the Garden Spot pump station will be taken off-line.

Phase III – Construct a new gravity line from Garden Spot pump station to Freedom Hills pump station. At this time, the Freedom Hill pump station will be taken off-line.

Assumptions & Justifications:

Currently the Maugansville Collection area is approaching its design capacity. This project will redirect flow from this area to another drainage area providing capacity relief and facilitating economic growth in the drainage area.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Engineering/Design	306,000	0	306,000	0	0	0	0	0	0
Land Acquisition	724,000	0	204,000	520,000	0	0	0	0	0
Construction	8,693,000	1,173,000	0	0	3,180,000	3,240,000	1,100,000	0	0
Total Cost	9,723,000	1,173,000	510,000	520,000	3,180,000	3,240,000	1,100,000	0	0

Funding Sources:

Sewer Fund	800,000	800,000	0	0	0	0	0	0	0
Self Supported Bond	8,550,000	0	510,000	520,000	3,180,000	3,240,000	1,100,000	0	0
Capital Reserve - Sewer	373,000	373,000	0	0	0	0	0	0	0
Total Funding	9,723,000	1,173,000	510,000	520,000	3,180,000	3,240,000	1,100,000	0	0

Project Title: WQ Water Meter Replacement

Project Number: 130

Account Number: LIN004

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace aging water meters in various water distribution systems.

Assumptions & Justifications:

Replacement is needed due to the age and deterioration of the water meters.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	557,095	161,095	50,000	50,000	50,000	50,000	32,000	32,000	132,000
Total Cost	557,095	161,095	50,000	50,000	50,000	50,000	32,000	32,000	132,000

Funding Sources:

Water Fund	161,095	161,095	0	0	0	0	0	0	0
Self Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - Water	396,000	0	50,000	50,000	50,000	50,000	32,000	32,000	132,000
Total Funding	557,095	161,095	50,000	50,000	50,000	50,000	32,000	32,000	132,000

Project Title: General WTP Improvements

Project Number: 132

Account Number: TRP025

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project involves general upgrades to water treatment plants including electrical systems and equipment.

Assumptions & Justifications:

Upgrades are required to address aging equipment, maintain a high level of water quality, and address Federal and State regulations.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	884,325	62,325	0	0	0	242,000	0	0	580,000
Total Cost	884,325	62,325	0	0	0	242,000	0	0	580,000

Funding Sources:

Water Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	884,325	62,325	0	0	0	242,000	0	0	580,000
Total Funding	884,325	62,325	0	0	0	242,000	0	0	580,000

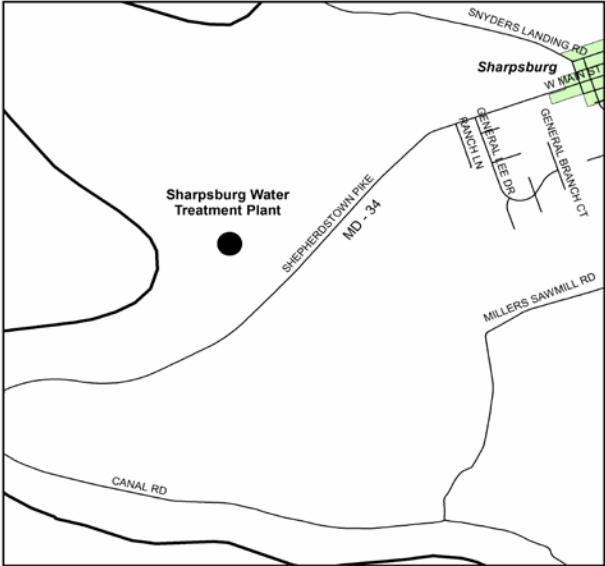
Project Title: Sharpsburg Water Treatment Plant

Project Number: 1161

Account Number: TRP023

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project includes Sharpsburg Water Treatment Plant upgrades required by Federal and State regulations.

Assumptions & Justifications:

Regulations continue to become more restrictive, thus requiring the plant to be upgraded to insure compliance with Drinking Water Regulations.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	794,000	0	204,000	0	0	0	0	0	590,000
Total Cost	794,000	0	204,000	0	0	0	0	0	590,000

Funding Sources:

Self Supported Bond	794,000	0	204,000	0	0	0	0	0	590,000
Total Funding	794,000	0	204,000	0	0	0	0	0	590,000

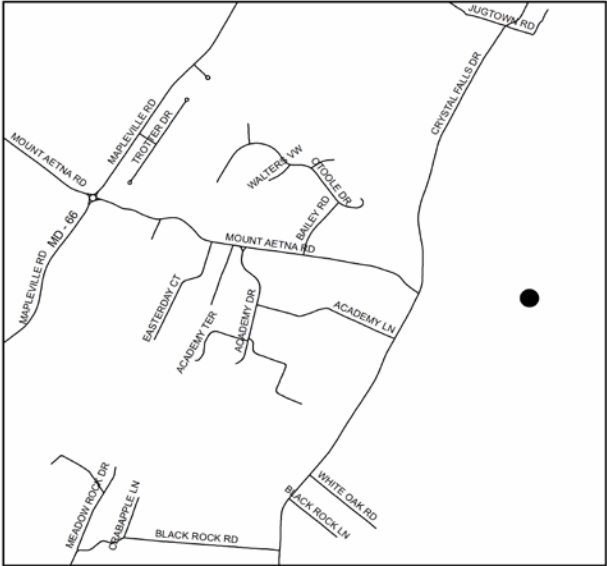
Project Title: Mt Aetna Water System Improvements

Project Number: 1169

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project includes general plant and system improvements.

Assumptions & Justifications:

Will seek grant funding from MDE

The project includes the replacement and upgrade of aging infrastructure and manufacturer recommendations.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	729,000	0	0	130,000	0	599,000	0	0	0
Total Cost	729,000	0	0	130,000	0	599,000	0	0	0

Funding Sources:

Self Supported Bond	654,000	0	0	105,000	0	549,000	0	0	0
State Grant	75,000	0	0	25,000	0	50,000	0	0	0
Total Funding	729,000	0	0	130,000	0	599,000	0	0	0

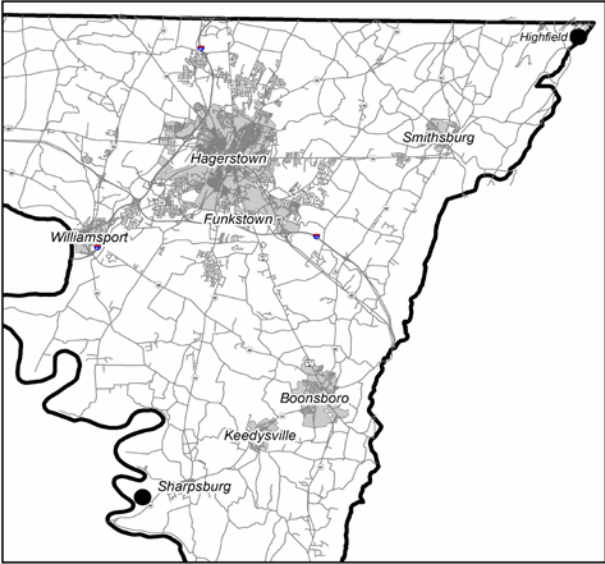
Project Title: Highfield/Sharpsburg Water Storage Tank

Project Number: 1170

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0



Description:

The project includes rehabilitation of the existing water storage tanks.

Assumptions & Justifications:

Rehabilitation of the tank structures is required as they age to extend their life expectancy and for the continuation of operation.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	330,000	0	0	0	0	0	330,000	0	0
Total Cost	330,000	0	0	0	0	0	330,000	0	0

Funding Sources:

Self Supported Bond	330,000	0	0	0	0	0	330,000	0	0
Total Funding	330,000	0	0	0	0	0	330,000	0	0

Project Title: WQ Main Replacement

Project Number: 1307

Account Number:

Projected Annual FTE's: 0

Projected Operating Costs: \$0

Description:

The project will replace aging water mains in various water distribution systems.

Assumptions & Justifications:

Pending grant funding approval.

Replacement is needed due to the age and deterioration of the water mains.

10 year plan	Total	Prior Years	2018	2019	2020	2021	2022	2023	Future
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Project Costs:

Construction	3,588,000	0	0	0	0	0	0	616,000	2,972,000
Total Cost	3,588,000	0	0	0	0	0	0	616,000	2,972,000

Funding Sources:

Water Fund	0	0	0	0	0	0	0	0	0
Self Supported Bond	0	0	0	0	0	0	0	0	0
Capital Reserve - General	3,438,000	0	0	0	0	0	0	566,000	2,872,000
State Grant	150,000	0	0	0	0	0	0	50,000	100,000
Total Funding	3,588,000	0	0	0	0	0	0	616,000	2,972,000

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