

# Capital Improvements Program and Debt Management

Back

Stafford County FY17 Adopted Budget

This section provides information related to the Capital Improvement Program (CIP) and the County's debt management practices and projected capital financing needs.



The Jeff Rouse Swim and Sport Center, an indoor recreation facility is located at the new Embrey Mill Park. This 76,000 square foot indoor recreation facility has three pools, one of which is a 50 meter x 25 yards, that will accommodate high level championship swim meets. The center also offers a fitness center, aerobics and spinning classes, two basketball courts and classrooms.

## Who are We?

### Capital Improvement Program

- Formulated using the more stringent debt limitations (3.0% debt to assessed value and 10.0% debt service to expenditures) as the Board works toward its goal of achieving a higher bond rating.
- Provides an overview of the CIP program, a summary of all projects, and detailed sheets for all projects.

### Debt Management

- Analysis of Outstanding Debt for Fiscal Years 2016-2025
- Displays the principal amounts owed at the current time.
- Included in this section are tables that describe the purpose and payment schedules for each existing General Government bond and lease debt obligations, and for the Utilities Fund bond obligations.

## Purpose and Benefits of Capital Programming are:

- Provides a budgeting tool which anticipates expenditure levels several years in advance to determine revenue needs and appropriate financing strategies;
- Provides a concise central source of information for citizens and land developers to accurately anticipate facilities in Stafford and to make their investment decisions accordingly;
- Assists in the implementation of the Comprehensive Plan; and
- Provides a sound and stable financial program.
- Overall, the CIP provides a foundation for coordinating and managing programs and expenditures, and assisting the local government in maintaining an excellent level of service to the citizens of Stafford, now and in the future.



The fitness room located at the new Jeff Rouse Swim and Sport Center

## Who are we?

County government provides needed and desired services to the public. In order to provide these services, the County must furnish and maintain capital facilities and equipment, such as roads, parks and schools. The Capital Improvement Program (CIP) is a proposed schedule for the expenditure of funds to acquire or construct needed improvements over the next ten-year period.

The CIP is an important component of the County's long range planning process. The first year of the CIP becomes the capital budget and the remaining years provide an estimated, but unfunded, cost of the proposed projects and their anticipated funding sources. The CIP is reviewed annually and the priorities re-evaluated based on conditions and requirements of the community.

Capital Improvement projects are items for which the purchase, construction, renovation, expansion, or the acquisition represents a public betterment and adds to the total physical worth of Stafford. Projects include, but are not limited to, expenditures for land, new structures, major repairs and renovations; maintenance of existing real property; and expenditures for machinery, equipment and vehicles. Each project should have a total cost of \$500,000 or more and a useful life of one year or more. Scope of project includes all professional services (land acquisition, legal, planning, design, project management) and construction costs.

## Development of the Capital Improvement Program

The Department of Finance and Budget provides information concerning the County's past, present and future financial resources. The department prepares and distributes the package utilized by departments and agencies to submit project requests. As the program develops, Finance and Budget also assists in the review and evaluation of project submissions.

### Project Request

Each year, representatives of County departments, offices and agencies are asked to submit a Capital Improvements Project (CIP) request form. Projects are submitted to the Department of Finance and Budget to establish priorities and to suggest a schedule for implementation. The completed forms provide a detailed project description, justification, cost projections, and a statement of impact on the County's operating budget. The project request form also presents a connection to the County's policies and goals.

Projected costs are determined using historical or current costs for similar projects based on engineering or architectural estimates when available. A 4% average annual escalation assumption is included for all projects.

### CIP Recommendation

The CIP committee evaluates the project requests individually to determine whether the project is appropriate. The recommendations of the CIP Committee are forwarded to the County Administrator. The County Administrator reviews the recommendations and prepares his recommended CIP.

### Adoption of CIP

After considering the recommendation of the County Administrator, and following a public hearing, the Board of Supervisors adopts the CIP. The projects approved for funding in the current budget year become that year's Capital Budget. Those projects approved for funding in the subsequent years will serve as a guide to ongoing project planning and preparation of the following year's CIP.

### Project Approval

The CIP is adopted for planning purposes only. Approval of the CIP does not authorize issuance of debt or expenditure of funds.

Authority to proceed is granted by the Board on a project-by-project basis. For each individual project, the Board will be asked to take action which will:

1. approve the project,
2. approve the funding source, and
3. appropriate the project budget.

### Impact of Capital Projects on the Operating Budget

The future fiscal impact on the operating budget is outlined in each capital project proposal. Each proposal includes an estimated impact on the operating budget.

# Capital Improvements Program

## Funding Sources

Stafford County FY17 Adopted Budget

There are a number of different funding sources available for the various types of projects included in the Capital Improvements Program (CIP). This section outlines some of the more common funding sources used in the CIP.

### Bonds

Bonds are usually for projects requiring initial capital outlays which exceed current revenue available in the short term. Bonds include general obligation debt, which requires a referendum, as well as lease/revenue bonds, which require only authorization by the Board of Supervisors after a public hearing. Stafford County voters approved a \$70 million road bond referendum in November 2008 and a \$29 million Parks & Recreation bond referendum in November 2009. Future referenda are envisioned for additional transportation, public safety and parks projects in the later years of the planning period.

Virginia Public School Authority (VPSA) funds can only be used to support the construction of school facilities. Similarly, Literary Fund allocations, when available, can be designated to projects for new school construction.

### Cash Capital or Pay-as-you-go

Cash capital funding comes from annual appropriations and is part of the adopted operating budget. Projects that are typically smaller in scale such as minor renovations and upgrades are likely candidates for Cash Capital funding as long as the project has an expected useful life of at least five years or more. This type of funding provides the greatest flexibility since it:

- Has no debt service cost to be paid on the expenditure
- Is available at the start of the fiscal year
- Does not have to be approved through a referendum
- Can be carried over at the end of each fiscal year

### Master Lease

Master Lease financing represents another source of capital financing to acquire equipment, vehicles, and technology purchases that have useful lives ranging from three to ten years. Master lease financing is very flexible, allowing the County to finance projects with minimal transaction costs and on an “as needed” basis over the term of the master lease. Because of the short-term maturities of master lease financing, interest rates are typically lower than rates on long-term bonds.

# Capital Improvements Program Funding Sources

Stafford County FY17 Adopted Budget

## Revenue Sharing

The Revenue Sharing Program provides additional funding for use by a county, city, or town to construct, reconstruct, or improve the highway systems within each locality and for eligible rural additions in certain counties of the Commonwealth. Locality funds are matched with state funds, with statutory limitations on the amount of state funds authorized per locality. The program is administered by the Department of Transportation in cooperation with the participating localities, under the authority of Section 33.11-23.05 of the Code of Virginia. An annual allocation of funds for this program is designated by the Commonwealth Transportation Board. A locality may apply for a maximum of \$10 million in matching allocations for each year.

## PPTA

The Public-Private Transportation Act of 1995 is the legislative framework enabling the Commonwealth of Virginia, qualifying local governments and certain other political entities to enter into agreements authorizing private entities to acquire, construct, improve, maintain, and/or operate qualifying transportation facilities.

## Other Revenue Sources

Other sources of revenue include State and Federal grants, private funds, transient occupancy taxes for tourism purposes, transportation service districts revenues, traffic impact fees and others. These funds are utilized to support a variety of projects to maximize available state revenue sharing based on the County's available funding.

State and federal government funding can support any project depending on its availability. Resources from the Potomac Rappahannock Transportation Commission (PRTC), motor fuels taxes, are limited to transportation-related projects, while water and sewer availability fees and pro rata fees can only be utilized for water and sewer projects.



The Jeff Rouse Swim and Sport Center

There are three pools at the swim center. A therapy pool (pictured to the left), a warm up pool and a competition pool (pictured to the right). The competition pool is a 50 meter pool that accommodates high level championship swim meets.



New debt requires the County operating budget to absorb the increased debt service and any operating costs associated with the capital project. Prior to the issuance of any new debt, consideration will be given to current economic and budgetary conditions. The County is working to reduce reliance on debt by increasing other types of funding for capital projects. The County has established the following policies to assist management with financial decisions.

## CAPITAL IMPROVEMENT PROGRAM (CIP) AND BONDED DEBT SERVICE AFFORDABILITY GUIDELINES

- A five-year CIP allocating capital improvement funds between the Schools and General Government will be adopted annually.
- Debt-funded CIP projects for County and Schools will be no less than \$500,000 each and will have a useful life that meets or exceeds the life of any debt issuance.
- Capital Improvement projects for County and Schools are items for which the purchase, construction, renovation, non-recurring replacement, expansion, or the acquisition represents a public betterment and adds to the total physical worth of Stafford. Projects include, but are not limited to, expenditures for land, new structures, major repairs and renovations; maintenance of existing structures; and expenditures for machinery, equipment and vehicles. Each project should have a total cost of \$500,000 or more. Scope of project includes all professional services (land acquisition, legal, planning, design) and construction costs.

## Debt Limitations

The financial policies define the County's maximum debt. As part of the efforts to improve the County's bond rating, the Board amended its financial policies in November 2015. Debt limitations are as follows:

- General obligation debt shall not exceed 3% of the assessed valuation of taxable real property.
- General fund debt service expenditures (County and Schools) shall not exceed 10% of the general government and schools operating budgets.
- Debt ratios do not include debt to be repaid from identified revenue sources outside the General Fund. In the case of special service districts, the Board of Supervisors intends to set tax rates to cover any debt to be funded with the revenue.
- Capital lease debt service shall not exceed 1% of the general government budget. Capital lease debt may only be used if all the following four criteria are met:
  1. Capital lease purchase is eligible under state law for such financing;
  2. Useful life of the purchase equals or exceeds the term of the debt;
  3. Total purchase exceeds \$100,000; and
  4. Sufficient funds are available to service the capital lease debt.

Each year's maximum available debt service will be established by increasing the prior year's actual debt service by the percentage of general fund revenue changes averaged over the last 5 years.

The CIP was formulated to comply with the policy.

The FY2017 - FY2026 CIP builds on the previously approved Capital Improvement Program. Many of the projects in this CIP were included in earlier plans. This year's plan includes some new projects, as well as some changes and updates to projects that were previously approved by the Board.

### Funding

- The Board's bond enhancement strategy includes reducing reliance on debt. To that end, the Board has reduced debt ratios. To further address this goal, the CIP increases the County's cash capital minimum from 1% to 3% of General Fund budget by FY2018. In FY17 3.00% of the County's operating budget is set aside for cash capital projects. Attaining our goal one year early.
- Bond-funded portion for the ten year period is \$9M less than the previous CIP.
- Tentative referenda for future projects.
  - Transportation
  - Parks
  - Public Safety

### New or Updated Projects

#### County Government

##### Public Safety

- New Projects:
  - Computer Aided Dispatch System Replacement
  - Public Safety Command Bus

##### Parks

- New Project:
  - Musselman Park
- Revised Projects:
  - Patawomeck Park Phase 2 moved construction from FY21 to FY23
  - New and Renovated Park Amenities - shifted and increased funding

## Transportation

- The combination of lower debt limits and lower projected fuels tax resulted in a reduction in transportation project funding. Projects in FY22 through FY26 will be funded based on available fuels tax to cover debt service.
- New Projects:
  - Eskimo Hill and Rt. 1
  - Rt. 1 at Woodstock Lane and Telegraph Rd
  - Juggins Road
- Revised Projects:
  - Brooke Road
  - Enon Road
  - Eskimo Hill Road
  - Tech Center Drive

## Schools

- New Projects:
  - Drew Middle School Renovation
    - Design in FY26
  - North Stafford High School Library
    - FY2018
    - \$2.2M - Funded with cash
- Revised Projects:
  - Moncure Elementary School Rebuild
    - Increased funding for new elementary school specifications \$5.5
    - \$2M to be funded with cash
  - Ferry Farm Elementary School Rebuild
    - Increased funding for new elementary school specifications \$4.4
    - Reduced capacity from 950 to 750 students
    - Moved project to right from FY18 to FY19, includes escalation of \$872K
  - Fleet Services
    - Moved design to FY22
    - \$6.6M - Includes total cost of project (School and County)
  - High School #6
    - Moved to the right one year

# SUMMARY OF ALL PROJECTS - ALL FUNDING SOURCES

Stafford County FY17 Proposed Budget

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total This Period	Later Years Funding	Total Project Cost
Public Safety	1,172,330	9,640,670	2,590,000	7,230,150	8,570,000	8,087,000	3,224,000	11,929,000	2,807,000	2,840,000	3,513,000	60,430,820	0	\$61,603,150
Information Technology	0	512,000	525,000	521,000	479,000	553,000	482,000	523,000	473,000	588,000	538,000	5,194,000	0	\$5,194,000
Parks, Recreation and Community Facilities	2,879,100	1,245,000	5,042,000	10,275,000	8,507,000	2,618,000	4,161,000	8,508,000	6,166,800	3,318,000	4,090,000	53,930,800	0	\$56,809,900
Public Works	475,000	6,573,000	500,000	2,850,000	12,623,000	15,028,000	500,000	500,000	500,000	3,016,000	1,530,000	43,620,000	13,154,000	\$57,249,000
Transportation	27,618,087	22,304,225	16,521,838	12,130,300	24,362,068	13,020,600	5,784,998	7,921,189	12,707,971	6,500,000	36,608,478	157,861,667	11,575,000	\$197,054,754
Schools	3,250,000	33,697,000	27,577,587	11,435,000	22,754,000	23,949,000	20,624,415	10,705,000	10,340,000	26,285,000	54,724,000	242,091,002	123,608,000	\$368,949,002
<b>Project Total</b>	<b>\$35,394,517</b>	<b>\$73,971,895</b>	<b>\$52,756,425</b>	<b>\$44,441,450</b>	<b>\$77,295,068</b>	<b>\$63,255,600</b>	<b>\$34,776,413</b>	<b>\$40,086,189</b>	<b>\$32,994,771</b>	<b>\$42,547,000</b>	<b>\$101,003,478</b>	<b>\$563,128,289</b>	<b>\$148,337,000</b>	<b>\$746,859,806</b>

Funding Summary	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total
County	12,688,670	12,481,401	12,315,000	25,475,000	15,828,000	4,910,000	16,365,000	10,433,061	9,116,000	25,909,188	\$145,521,320
Schools	20,297,000	17,648,587	5,350,000	17,364,000	17,419,000	13,219,413	4,900,000	6,135,000	19,700,000	50,564,000	\$172,597,000
<b>Bond</b>	<b>\$32,985,670</b>	<b>\$30,129,988</b>	<b>\$17,665,000</b>	<b>\$42,839,000</b>	<b>\$33,247,000</b>	<b>\$18,129,413</b>	<b>\$21,265,000</b>	<b>\$16,568,061</b>	<b>\$28,816,000</b>	<b>\$76,473,188</b>	<b>\$318,118,320</b>
Master Lease	2,195,000	1,611,000	5,063,150	1,461,000	7,068,000	1,547,000	1,530,000	1,693,000	1,693,000	2,332,000	\$26,193,150
Cash Funded - County	3,396,128	5,311,200	3,490,000	3,243,000	3,390,000	3,310,000	3,565,000	3,031,000	2,953,000	3,709,000	\$35,398,328
Cash Funded - Schools <sup>1</sup>	13,400,000	9,929,000	6,085,000	5,390,000	6,530,000	7,405,002	5,805,000	4,205,000	6,585,000	4,160,000	\$69,494,002
Proffers/Capital Project Reserve	935,856	982,856	1,033,000	0	0	0	0	0	0	25,000	\$2,976,712
Service District Supported GO Bonds	0	0	0	14,200,000	0	0	0	0	0	0	\$14,200,000
Service District	0	1,109,966	0	0	0	0	0	0	0	0	\$1,109,966
Fuel Tax	1,321,264	0	0	0	0	0	0	0	0	0	\$1,321,264
Revenue Sharing	3,435,029	1,117,068	4,600,000	9,600,000	375,000	4,187,449	0	5,210,261	6,800,000	8,891,739	\$44,216,546
State/Federal	1,033,907	387,641	12,858,741	500,000	1,170,600	0	2,926,659	0	0	0	\$18,877,548
Impact Fees	302,506	640,019	0	1,032,921	667,079	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	\$10,642,525
	<b>\$59,005,360</b>	<b>\$51,218,738</b>	<b>\$50,794,891</b>	<b>\$78,265,921</b>	<b>\$52,447,679</b>	<b>\$36,178,864</b>	<b>\$36,691,659</b>	<b>\$32,307,322</b>	<b>\$48,447,000</b>	<b>\$97,190,927</b>	<b>\$542,548,361</b>

Operating Impacts Summary	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	2,219,000	2,291,000	2,366,000	2,757,000	4,012,000	4,447,000	6,252,000	6,601,000	6,803,000
Operating	56,000	936,200	689,408	738,224	2,731,273	1,702,564	1,951,107	1,786,911	1,693,988	1,756,347
Debt Service Bond (cumulative)	0	2,760,000	5,281,000	6,761,000	10,345,000	13,127,000	14,644,000	16,424,000	17,811,000	20,223,000
Debt Service Master Lease (cumulative)	0	291,000	505,000	1,177,534	1,371,534	2,308,534	2,513,534	2,716,534	2,941,534	3,166,534
Service District Debt Service	0	0	0	0	1,188,246	1,188,246	1,188,246	1,188,246	1,188,246	1,188,246
Revenue/Savings	0	(47,000)	(49,000)	(50,000)	(275,000)	(207,277)	(313,100)	(323,433)	(335,776)	(348,129)
<b>Total</b>	<b>\$56,000</b>	<b>\$6,159,200</b>	<b>\$8,717,408</b>	<b>\$10,992,758</b>	<b>\$18,118,053</b>	<b>\$22,131,067</b>	<b>\$24,430,787</b>	<b>\$28,044,258</b>	<b>\$29,899,992</b>	<b>\$32,788,998</b>

# Summary of Bond Funded Projects

Funding for these projects is subject to Board's Principles of High Performance Financial Management Debt Limitations

Agency	Projects	Opening Date (CY)	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total This Period
Public Safety	Fire & Rescue Training Center	2020	0	0	174,000	6,120,000	0	0	0	0	0	0	6,294,000
	Fire & Rescue Station 14	2017	6,540,670	0	0	0	0	0	0	0	0	0	6,540,670
	Fire & Rescue Station - New	2023	0	0	0	0	0	627,000	9,317,000	0	0	0	9,944,000
Parks, Recreation & Community Facilities	Park at Embrey Mill - Phase 3	2019	0	2,963,000	0	0	0	0	0	0	0	0	2,963,000
	Duff McDuff Green Park	2021	0	0	7,466,000	5,932,000	0	0	0	0	0	0	13,398,000
	Patawomeck Park Phase 2	2024	0	0	0	0	0	283,000	3,960,000	0	0	0	4,243,000
	New and Renovated Park Amenities	on-going	0	0	1,300,000	1,300,000	1,300,000	2,600,000	2,600,000	2,600,000	2,600,000	2,600,000	16,900,000
Public Works	Musselman Park	2024	0	0	0	0	0	0	488,000	2,622,800	0	0	3,110,800
	Animal Shelter	2017	5,348,000	0	0	0	0	0	0	0	0	0	5,348,000
	Courthouse Addition	2022	0	0	2,350,000	12,123,000	14,528,000	0	0	0	0	0	29,001,000
Transportation	Library #4	2028	0	0	0	0	0	0	0	0	2,516,000	1,030,000	3,546,000
	Transportation Bonds	on-going	800,000	9,518,401	1,025,000	0	0	1,400,000	0	5,210,261	4,000,000	22,279,188	44,232,850
Subtotal County Projects			\$12,688,670	\$12,481,401	\$12,315,000	\$25,475,000	\$15,828,000	\$4,910,000	\$16,365,000	\$10,433,061	\$9,116,000	\$25,909,188	\$145,521,320
School Projects <sup>1</sup>	Moncure Elementary Rebuild	Sep-18	9,431,000	16,431,000	1,000,000	0	0	0	0	0	0	0	26,862,000
	Ferry Farm Elementary Rebuild	Sep-21	0		1,000,000	13,964,000	13,964,000	1,000,000	0	0	0	0	29,928,000
	Elementary #18	Sep-27										1,000,000	1,000,000
	High School #6	Sep-28									5,000,000	33,319,000	38,319,000
	Mt. View HS Addition	Sep-17	7,316,000										7,316,000
	Hartwood Elementary Renovation	Sep-26								1,000,000	10,000,000	10,795,000	21,795,000
	Drew Middle School Renovation	Sep-28										1,000,000	1,000,000
	Fleet Services	Sep-22						6,637,000					6,637,000
	Infrastructure	on-going	3,550,000	1,217,587	3,350,000	3,400,000	3,455,000	5,582,413	4,900,000	5,135,000	4,700,000	4,450,000	39,740,000
Subtotal Schools Projects			\$20,297,000	\$17,648,587	\$5,350,000	\$17,364,000	\$17,419,000	\$13,219,413	\$4,900,000	\$6,135,000	\$19,700,000	\$50,564,000	\$172,597,000
Total All Projects			\$32,985,670	\$30,129,988	\$17,665,000	\$42,839,000	\$33,247,000	\$18,129,413	\$21,265,000	\$16,568,061	\$28,816,000	\$76,473,188	\$318,118,320

Bond Funded Summary (master lease not included)			FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total
County			\$12,688,670	\$12,481,401	\$12,315,000	\$25,475,000	\$15,828,000	\$4,910,000	\$16,365,000	\$10,433,061	\$9,116,000	\$25,909,188	\$145,521,320
Schools			\$20,297,000	\$17,648,587	\$5,350,000	\$17,364,000	\$17,419,000	\$13,219,413	\$4,900,000	\$6,135,000	\$19,700,000	\$50,564,000	172,597,000
	Total Borrowes		\$32,985,670	\$30,129,988	\$17,665,000	\$42,839,000	\$33,247,000	\$18,129,413	\$21,265,000	\$16,568,061	\$28,816,000	\$76,473,188	\$318,118,320
	Availability Limit		33,261,000	31,377,000	27,292,000	40,942,000	24,304,000	46,348,000	40,199,000	29,854,000	18,992,000	25,653,000	318,222,000
	Cumulative (Deficit)/Surplus		275,330	1,522,342	11,149,342	9,252,342	309,342	28,527,929	47,461,929	60,747,868	50,923,868	103,680	

Debt Service		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Existing Bond Debt Service		42,085,674	40,811,957	39,398,901	37,623,798	35,784,787	34,802,033	32,818,420	30,787,637	29,988,598	29,857,705
New Bond Debt Service		0	2,760,000	5,281,000	6,761,000	10,345,000	13,127,000	14,644,000	16,424,000	17,811,000	20,223,000
Total Bond Debt		\$42,085,674	\$43,571,957	\$44,679,901	\$44,384,798	\$46,129,787	\$47,929,033	\$47,462,420	\$47,211,637	\$47,799,598	\$50,080,705

## Relationship between the Operating and Capital Budgets

There are many elements that distinguish Stafford County's operating budget from its capital budget. The operating budget includes expenses that are generally recurring in nature and are appropriated for one year and provides for the provision of all County services.

The development and implementation of the County's capital budget are usually accompanied with on-going operating costs. A project could require additional expenses beyond those used to construct the facility such as additional personnel, start-up costs, equipment, operating expenses, and in some cases there can be cost savings. Resources for the operating budget are generally provided by taxes and/or user fees.

The County recognizes the need to link the capital and operating budgets together therefore, each project includes a section that identifies knowable operating budget impacts that will be incurred as a result of project implementation. These costs which include one-time start-up costs are incorporated into the County's operating budget and five year financial plan. The purpose of assessing and displaying these operating budget impacts is to:

- Present effect of approving projects in the ten-year span of the CIP
- Provide a basis for prioritization of projects in the CIP based on operating budget impacts
- Identify anticipated demands for operating increases or service delivery
- Display the relationship between CIP project cost and the timing of new or additional operating budget requirements as a result of the project completion

It is important to note that while transportation projects generally have operating costs such as maintenance, these costs are the responsibility of the Virginia Department of Transportation (VDOT) after the improvements are completed by the County in compliance with VDOT standards.

The following table shows the annual operating impact of the CIP.

# Operating and Debt Service Impacts

Stafford County FY17 Proposed Budget

Operating Impacts - The following table illustrates the operating impacts in future years of the ten year plan

Project	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total This Period
Fire & Rescue Training Center	0	0	0	0	1,452,000	84,000	86,000	89,000	91,000	95,000	1,897,000
Fire & Rescue Station 14	0	1,727,000	1,593,000	1,641,000	1,689,000	1,739,000	1,792,000	1,845,000	1,900,000	1,958,000	15,884,000
Fire & Rescue Station New	0	0	0	0	0	0	0	2,037,000	1,876,000	1,933,000	5,846,000
Information Technology	0	5,200	20,408	26,224	32,273	38,564	45,107	51,911	58,988	66,347	345,022
Park at Embrey Mill - Phase 3	0	124,000	59,000	61,000	62,000	64,000	67,000	68,000	71,000	72,000	648,000
Duff McDuff Green Park	0	0	0	0	623,000	104,500	214,000	217,000	222,000	226,000	1,606,500
Patawomeck Park Phase 2	0	0	0	0	0	0	312,000	133,000	138,000	141,000	724,000
New and Renovated Park Amenities	0	0	0	0	0	0	369,000	67,000	137,000	141,000	714,000
Musselman Park	0	0	0	0	0	531,223	338,900	200,567	356,224	363,871	1,790,785
Animal Shelter	0	108,000	46,000	47,000	49,000	50,000	52,000	53,000	55,000	57,000	517,000
Courthouse Addition	0	0	0	0	0	1,540,000	1,379,000	1,420,000	1,463,000	1,507,000	7,309,000
Belmont Ferry Farm Trail	31,000	53,000	54,000	56,000	57,000	59,000	61,000	62,000	64,000	66,000	563,000
Stormwater	25,000	25,000	50,000	50,000	50,000	50,000	50,000	100,000	100,000	100,000	600,000
Mt. View HS Addition	0	1,066,000	1,109,000	1,173,000	1,199,000	1,247,000	1,296,000	1,348,000	1,402,000	1,459,000	11,299,000
Fleet Services	0	0	0	0	0	0	23,000	24,000	25,000	26,000	98,000
	\$56,000	\$3,108,200	\$2,931,408	\$3,054,224	\$5,213,273	\$5,507,287	\$6,085,007	\$7,715,478	\$7,959,212	\$8,211,218	\$49,841,307

# Operating and Debt Service Impacts

Stafford County FY17 Proposed Budget

## Debt Service Impacts

The County's Capital Improvement Program was developed to comply with the Board of supervisors' financial policies.

Project	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total This Period
Fire & Rescue Training Center	0	0	0	15,000	527,000	527,000	527,000	527,000	527,000	527,000	\$3,177,000
Fire & Rescue Station 14	0	547,000	547,000	547,000	547,000	547,000	547,000	547,000	547,000	547,000	\$4,923,000
Fire & Rescue Station New	0	0	0	0	0	0	52,000	832,000	832,000	832,000	\$2,548,000
Park at Embrey Mill - Phase 3	0	0	248,000	248,000	248,000	248,000	248,000	248,000	248,000	248,000	\$1,984,000
Duff McDuff Green Park	0	0	0	625,000	1,121,000	1,121,000	1,121,000	1,121,000	1,121,000	1,121,000	\$7,351,000
Patawomeck Park Phase 2	0	0	0	0	0	0	24,000	355,000	355,000	355,000	\$1,089,000
New and Renovated Park Amenities	0	0	0	109,000	218,000	327,000	545,000	763,000	981,000	1,199,000	\$4,142,000
Musselman Park	0	0	0	0	0	0	0	41,000	260,000	260,000	\$561,000
Animal Shelter	0	448,000	448,000	448,000	448,000	448,000	448,000	448,000	448,000	448,000	\$4,032,000
Courthouse Addition	0	0	0	197,000	1,211,000	2,427,000	2,427,000	2,427,000	2,427,000	2,427,000	\$13,543,000
Library	0	0	0	0	0	0	0	0	0	211,000	\$211,000
Transportation	0	67,000	863,000	949,000	949,000	949,000	1,066,000	1,066,000	1,502,000	1,837,000	\$9,248,000
Moncure Elementary Rebuild	0	789,000	2,164,000	2,248,000	2,248,000	2,248,000	2,248,000	2,248,000	2,248,000	2,248,000	\$18,689,000
Ferry Farm Elementary Rebuild	0	0	0	84,000	1,252,000	2,420,000	2,504,000	2,504,000	2,504,000	2,504,000	\$13,772,000
Elementary School #18	0	0	0	0	0	0	0	0	0	0	\$0
High School #6	0	0	0	0	0	0	0	0	0	418,000	\$418,000
Mt. View HS Addition	0	612,000	612,000	612,000	612,000	612,000	612,000	612,000	612,000	612,000	\$5,508,000
Harwood Elementary Renovation	0	0	0	0	0	0	0	0	84,000	921,000	\$1,005,000
Fleet Services	0	0	0	0	0	0	555,000	555,000	555,000	555,000	\$2,220,000
Infrastructure	0	297,000	399,000	679,000	964,000	1,253,000	1,720,000	2,130,000	2,560,000	2,953,000	\$12,955,000
New Debt Service	\$0	\$2,760,000	\$5,281,000	\$6,761,000	\$10,345,000	\$13,127,000	\$14,644,000	\$16,424,000	\$17,811,000	\$20,223,000	
Existing Debt Service	\$42,085,674	\$40,811,957	\$39,398,901	\$37,623,798	\$35,784,787	\$34,802,033	\$32,818,420	\$30,787,637	\$29,988,598	\$29,857,705	
	\$42,085,674	\$43,571,957	\$44,679,901	\$44,384,798	\$46,129,787	\$47,929,033	\$47,462,420	\$47,211,637	\$47,799,598	\$50,080,705	

Master Lease Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total This Period
Replacement Apparatus	0	291,000	505,000	757,000	951,000	1,218,000	1,423,000	1,626,000	1,851,000	2,076,000	10,698,000
Computer-aided Dispatch System	0	0	0	0	0	584,000	584,000	584,000	584,000	584,000	2,920,000
Public Safety Command Bus	0	0	0	0	0	86,000	86,000	86,000	86,000	86,000	430,000
Cardiac Equipment Replacement	0	0	0	305,534	305,534	305,534	305,534	305,534	305,534	305,534	2,138,737
Aquia Station Rehab	0	0	0	115,000	115,000	115,000	115,000	115,000	115,000	115,000	805,000
New Master Lease	\$0	\$291,000	\$505,000	\$1,177,534	\$1,371,534	\$2,308,534	\$2,513,534	\$2,716,534	\$2,941,534	\$3,166,534	\$16,991,737
Existing Master Lease	2,442,925	2,056,016	1,692,006	1,201,009	1,201,009	449,864	415,196	415,196	0	0	
	\$2,442,925	\$2,347,016	\$2,197,006	\$2,378,543	\$2,572,543	\$2,758,398	\$2,928,730	\$3,131,730	\$2,941,534	\$3,166,534	
Total Debt	\$44,528,600	\$45,918,973	\$46,876,908	\$46,763,341	\$48,702,331	\$50,687,431	\$50,391,150	\$50,343,367	\$50,741,132	\$53,247,239	



## PUBLIC SAFETY

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Later Years Funding	Total Project Cost
Fire & Rescue Replacement Apparatus	0	3,044,000	2,485,000	2,797,000	2,388,000	2,967,000	2,531,000	2,544,000	2,737,000	2,768,000	3,439,000	0	27,700,000
Fire & Rescue Training Center	0	0	0	524,000	6,120,000	0	0	0	0	0	0	0	6,644,000
Fire & Rescue Station 14	1,172,330	6,540,670	0	0	0	0	0	0	0	0	0	0	7,713,000
Fire & Rescue Station - New	0	0	0	0	0	0	627,000	9,317,000	0	0	0	0	9,944,000
Cardiac Equipment Replacement	0	0	0	2,303,000	0	0	0	0	0	0	0	0	2,303,000
Aquia Station Renovations	0	0	47,000	1,546,150	0	0	0	0	0	0	0	0	1,593,150
Computer-Aided Dispatch System	0	0	0	0	0	4,405,000	0	0	0	0	0	0	4,405,000
Command Bus Replacement	0	0	0	0	0	651,000	0	0	0	0	0	0	651,000
Station Renovations	0	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	72,000	74,000	0	650,000
<b>Total</b>	<b>\$1,172,330</b>	<b>\$9,640,670</b>	<b>\$2,590,000</b>	<b>\$7,230,150</b>	<b>\$8,570,000</b>	<b>\$8,087,000</b>	<b>\$3,224,000</b>	<b>\$11,929,000</b>	<b>\$2,807,000</b>	<b>\$2,840,000</b>	<b>\$3,513,000</b>	<b>\$0</b>	<b>\$61,603,150</b>

Funding Sources	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	1,013,708	905,000	932,000	960,000	989,000	1,019,000	1,050,000	1,082,000	1,114,000	1,147,000	1,181,000
Bonds	0	6,540,670	0	174,000	6,120,000	0	627,000	9,317,000	0	0	0
Master Lease	0	2,195,000	1,611,000	5,063,150	1,461,000	7,068,000	1,547,000	1,530,000	1,693,000	1,693,000	2,332,000
Proffers/Capital Project Reserve	158,622	0	47,000	1,033,000	0	0	0	0	0	0	0
<b>Total</b>	<b>\$1,172,330</b>	<b>\$9,640,670</b>	<b>\$2,590,000</b>	<b>\$7,230,150</b>	<b>\$8,570,000</b>	<b>\$8,087,000</b>	<b>\$3,224,000</b>	<b>\$11,929,000</b>	<b>\$2,807,000</b>	<b>\$2,840,000</b>	<b>\$3,513,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	1,505,000	1,550,000	1,597,000	1,706,000	1,757,000	1,810,000	3,638,000	3,747,000	3,860,000
Operating	0	222,000	43,000	44,000	1,490,000	123,000	128,000	395,000	185,000	193,000
Debt Service	0	547,000	547,000	562,000	1,074,000	1,074,000	1,126,000	1,906,000	1,906,000	1,906,000
Debt Service Master Lease	0	291,000	505,000	1,177,534	1,371,534	2,308,534	2,513,534	2,716,534	2,941,534	3,166,534
Revenue	0	0	0	0	(55,000)	(57,000)	(60,000)	(62,000)	(65,000)	(67,000)
<b>Total</b>	<b>\$0</b>	<b>\$2,565,000</b>	<b>\$2,645,000</b>	<b>\$3,380,534</b>	<b>\$5,586,534</b>	<b>\$5,205,534</b>	<b>\$5,517,534</b>	<b>\$8,593,534</b>	<b>\$8,714,534</b>	<b>\$9,058,534</b>

# REPLACEMENT APPARATUS

**Total Project Cost:** \$27,700,000

**Est. Opening Date:** On-going

Links to Board's Strategic Initiatives

- Supports the Principles of High Performance Financial Management
- Response time improvement

## PROGRAM DESCRIPTION

Scheduled replacement due to age, mileage and/or engine hour indication will ensure the viability of the fire and rescue fleet. This program provides for the regular replacement of department apparatus based on service life estimates for each vehicle. This includes replacement of ambulances, engines, and specialty apparatus (ladders, heavy rescue apparatus, tankers, and/or boats). Typical service life is 15 years for boats and tankers; 10 years for engines, ladders, heavy rescues, and pumper/tankers; and five years for ambulances. This plan replaces only primary apparatus and supports fleet reduction by not replacing duplicate apparatus.

## OPERATING IMPACT SUMMARY

There will be additional debt service for equipment purchased using the Master Lease. There will be no additional costs for the operating of the replacement equipment. A review of the department's fleet was revised in FY14. The results of that review have been used to re-configure the apparatus replacement plan and continue efforts to downsize the fleet.



## PROJECT COSTS



Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Ambulance	0	654,000	900,000	928,000	956,000	984,000	1,012,000	1,044,000	1,076,000	1,108,000	1,140,000
Engines	0	1,256,000	1,294,000	666,000	686,000	707,000	728,000	1,500,000	0	796,000	820,000
Specialty Apparatus	0	1,134,000	291,000	1,203,000	746,000	1,276,000	791,000	0	1,661,000	864,000	1,479,000
<b>Total</b>	\$0	\$3,044,000	\$2,485,000	\$2,797,000	\$2,388,000	\$2,967,000	\$2,531,000	\$2,544,000	\$2,737,000	\$2,768,000	\$3,439,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	849,000	874,000	900,000	927,000	955,000	984,000	1,014,000	1,044,000	1,075,000	1,107,000
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	2,195,000	1,611,000	1,897,000	1,461,000	2,012,000	1,547,000	1,530,000	1,693,000	1,693,000	2,332,000
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$3,044,000	\$2,485,000	\$2,797,000	\$2,388,000	\$2,967,000	\$2,531,000	\$2,544,000	\$2,737,000	\$2,768,000	\$3,439,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Master Lease	0	291,000	505,000	757,000	951,000	1,218,000	1,423,000	1,626,000	1,851,000	2,076,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$291,000	\$505,000	\$757,000	\$951,000	\$1,218,000	\$1,423,000	\$1,626,000	\$1,851,000	\$2,076,000

# TRAINING CENTER

**Total Project Cost:** \$6,644,000

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives  
 • Response time improvement

**PROGRAM DESCRIPTION**

A training facility for the Fire and Rescue Department is needed to meet mandated live fire and multi-company training and to house the training props, equipment storage and repair functions of the department. This would replace the boat facility currently used by the Department and add the ability to conduct live fire and multi-company training. The proposed facility would be approximately 16,000 square feet. Project includes site development, classroom building, two vehicle maintenance bays, logistics support warehouse, construction of a drill tower with burn room and training props for technical rescue and water drafting and drivers training. The facility would provide the means to accomplish mandatory training for new and existing career and volunteer personnel. Operating our own facility would allow a convenient location that could be used on nights and weekends to meet the training demands of our volunteers.

**OPERATING IMPACT SUMMARY**

There would be one time start up costs for the facility to include instructional supplies such as smart boards, copy machine, fax machine, projectors, and computers. Other start up costs for the facility include kitchen and janitorial supplies. There will also be a need for a one time start up cost for the construction of a burn building. The burn building will be used for live fire training.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	524,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	5,580,000	0	0	0	0	0	0
Contingency	0	0	0	0	540,000	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$524,000</b>	<b>\$6,120,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	174,000	6,120,000	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	350,000	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$524,000</b>	<b>\$6,120,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	61,000	63,000	65,000	67,000	69,000	71,000
Operating	0	0	0	0	1,446,000	78,000	81,000	84,000	87,000	91,000
Debt Service	0	0	0	15,000	527,000	527,000	527,000	527,000	527,000	527,000
Master Lease	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	(55,000)	(57,000)	(60,000)	(62,000)	(65,000)	(67,000)
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15,000</b>	<b>\$1,979,000</b>	<b>\$611,000</b>	<b>\$613,000</b>	<b>\$616,000</b>	<b>\$618,000</b>	<b>\$622,000</b>

# FIRE AND RESCUE STATION 14

**Total Project Cost:** \$7,713,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives  
• Response Time Improvement

**PROGRAM DESCRIPTION**

The North County Fire and Rescue station is currently a modular building placed on the site in 2013 to replace the original farmhouse on the property. The station currently houses one engine and a crew of three to four career staff. Plans for the permanent station call for it to house an engine, a ladder, a medic unit and a battalion chief.

**OPERATING IMPACT SUMMARY**

Funding for 18 new employees would be needed when operations begin. The 18 new employees are in addition to the 12 employees already stationed at the North County Fire and Rescue station. Current staffing is for an engine crew only. The additional employees would allow for the station to be fully staffed 24/7 with an engine, ladder, medic unit, and battalion chief. Required apparatus is currently in use throughout the County. No new apparatus would be needed. Prior funding includes funds for property acquisition. Property was purchased in FY11. There would also be a need for one time start up costs for the facility.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	172,330	0	0	0	0	0	0	0	0	0	0
Property Acquisition	1,000,000	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	5,994,670	0	0	0	0	0	0	0	0	0
Contingency	0	546,000	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$1,172,330</b>	<b>\$6,540,670</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	1,013,708	0	0	0	0	0	0	0	0	0	0
Bonds	0	6,540,670	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	158,622	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$1,172,330</b>	<b>\$6,540,670</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	1,505,000	1,550,000	1,597,000	1,645,000	1,694,000	1,745,000	1,797,000	1,851,000	1,907,000
Operating	0	222,000	43,000	44,000	44,000	45,000	47,000	48,000	49,000	51,000
Debt Service	0	547,000	547,000	547,000	547,000	547,000	547,000	547,000	547,000	547,000
Master Lease	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$2,274,000</b>	<b>\$2,140,000</b>	<b>\$2,188,000</b>	<b>\$2,236,000</b>	<b>\$2,286,000</b>	<b>\$2,339,000</b>	<b>\$2,392,000</b>	<b>\$2,447,000</b>	<b>\$2,505,000</b>

# FIRE AND RESCUE STATION - NEW

**Total Project Cost:** \$9,944,000

**Est. Opening Date:** 2023

Links to Board's Strategic Initiatives  
 • Response Time Improvement  
 • Comprehensive Plan

**PROGRAM DESCRIPTION**

This facility would be constructed in order to meet fire and rescue service needs as suggested in the Comprehensive Plan. It would assist in reaching response time standards and Board identified service levels. As infill development occurs and density increases, the demand load on existing fire and rescue stations is expected to increase to a point where current fire and rescue stations can no longer serve developing areas of the County. This station would be needed to offset the impact of new development on the existing residents and businesses. The station will house a engine and 1 medic unit.



**OPERATING IMPACT SUMMARY**

Operating impacts associated with this project would begin beyond this planning period and include personnel, operating and one time start up costs.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	627,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	2,016,000	0	0	0
Construction / Project	0	0	0	0	0	0	0	6,672,000	0	0	0
Contingency	0	0	0	0	0	0	0	629,000	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$627,000</b>	<b>\$9,317,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	627,000	9,317,000	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$627,000</b>	<b>\$9,317,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	1,774,000	1,827,000	1,882,000
Operating	0	0	0	0	0	0	0	263,000	49,000	51,000
Debt Service	0	0	0	0	0	0	52,000	832,000	832,000	832,000
Master Lease	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$2,869,000</b>	<b>\$2,708,000</b>	<b>\$2,765,000</b>

# CARDIAC EQUIPMENT REPLACEMENT

**Total Project Cost:** \$2,303,000

**Est. Opening Date:** 2019

Links to Board's Strategic Initiatives

- Supports the BOS Public Safety

## PROGRAM DESCRIPTION

This project will replace all of the Fire and Rescue Department's cardiac monitor/defibrillator and CardioPulmonary Resuscitation (CPR) equipment which was obtained in 2009 on a lease-purchase program. The lease ended in 2014 and the department purchased the equipment at that time. The service life for this equipment is ten years. Cardiac monitor/defibrillator equipment is essential to the department's advanced life support and emergency medical services program. Replacement of the equipment en masse is necessary in order to maintain consistency and provide optimal care.



## OPERATING IMPACT SUMMARY

Replacement of the cardiac monitor/defibrillator equipment will allow field paramedics to utilize the latest technology to provide state of the art care to patients and lower on-going maintenance costs associated with older technology.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	2,303,000	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,303,000</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	2,303,000	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,303,000</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	305,534	305,534	305,534	305,534	305,534	305,534	305,534
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$305,534</b>						

# Aquia Station Renovation

**Total Project Cost:** \$1,593,150

**Est. Opening Date:** 0

[Links to Board's Strategic Initiatives](#)

- Supports the BOS Public Safety Initiative

## PROGRAM DESCRIPTION

The project consists of two phases. The first phase would be a renovation to the existing existing 5000 sq. ft. building and would focus on the second floor living area with minimal renovations to the engine bays below on the first floor. Phase two would be the construction of a two story 50 X 50 addition. The first floor would accommodate an additional 2 bays, bathroom, decon room and laundry room. The second floor would contain classrooms, bathrooms, living area and sleeping area. Funding source may be revised based on the actual scope of projects.



## OPERATING IMPACT SUMMARY

0

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	47,000	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	1,409,450	0	0	0	0	0	0	0
Contingency	0	0	0	136,700	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$47,000	\$1,546,150	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	863,150	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	47,000	683,000	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$47,000	\$1,546,150	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	115,000	115,000	115,000	115,000	115,000	115,000	115,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$115,000	\$115,000	\$115,000	\$115,000	\$115,000	\$115,000	\$115,000

# Computer-Aided Dispatch System

**Total Project Cost:** \$4,405,000

**Est. Opening Date:** 2021

Links to Board's Strategic Initiatives

- Supports the BOS Public Safety Initiative

**PROGRAM DESCRIPTION**

A Computer Aided Dispatch System (CAD) is essential in the processing of emergency calls. Computer-Aided dispatch is hardware and software infrastructure that processes calls and dispatches public safety providers. The current CAD System is technologically outdated which diminishes its operational capabilities, and makes technical support difficult and expensive. The replacement of the system is critical as it is used to dispatch our public safety service providers, A new system will ensure reliability, improve response times, and enhance capabilities.

**OPERATING IMPACT SUMMARY**

There are no additional operating impacts associated with this project.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	4,098,000	0	0	0	0	0
Contingency	0	0	0	0	0	307,000	0	0	0	0	0
Other - Annual Maintenance	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$4,405,000	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	4,405,000	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$4,405,000	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	584,000	584,000	584,000	584,000	584,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$584,000	\$584,000	\$584,000	\$584,000	\$584,000

## Public Safety Command Bus Replacement

**Total Project Cost:** \$651,000

**Est. Opening Date:** 2021

[Links to Board's Strategic Initiatives](#)

- Supports the BOS Public Safety Initiative

### PROGRAM DESCRIPTION

The current command bus is approaching 13 years in service. Most of the technologies purchased as a part of the command bus are also approaching 13 years old and have or will soon reach their end of life. An upgrade approximately 8 years ago extended the life of the bus. This upgrade was made possible through a grant. The command bus continues to operate as an alternate communications center and doubles as a command post for special events, unique and extended investigations, and as a means to continue operations in the face of natural or manmade disasters that can affect operations of the emergency communications center. Newer technologies will make the use of the command bus and its capabilities more efficient and prevent the limitations in functionality currently imposed due to the old technology and limited space. This bus, when needed, supports a critical function that must be system ready at a moments notice, capable of delivering necessary services.



### OPERATING IMPACT SUMMARY

There are no additional operating impacts associated with this project.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	651,000	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$651,000	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	651,000	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$651,000	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	86,000	86,000	86,000	86,000	86,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$86,000	\$86,000	\$86,000	\$86,000	\$86,000

## Station Renovations/Improvements

**Total Project Cost:** \$650,000

**Est. Opening Date:** On-going

Links to Board's Strategic Initiatives  
 • Supports the BOS Public Safety Initiative

**PROGRAM DESCRIPTION**

Many of the fire and rescue stations operated by the volunteer organizations in support of the county's fire and rescue system are significantly aging and in serious need of repairs and upgrades to bring them into compliance with safety codes and federal law such as the Americans with Disabilities Act. Additionally, many of the volunteer stations are in need of modernization of infrastructure to include replacement of HVAC, electrical and plumbing/septic systems and repairs to roofs, concrete apparatus floors and aprons, etc. Funding will be allocated annually based on location needs.



**OPERATING IMPACT SUMMARY**

No additional operating impacts are associated with this project

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	72,000	74,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$56,000</b>	<b>\$58,000</b>	<b>\$60,000</b>	<b>\$62,000</b>	<b>\$64,000</b>	<b>\$66,000</b>	<b>\$68,000</b>	<b>\$70,000</b>	<b>\$72,000</b>	<b>\$74,000</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	56,000	58,000	60,000	62,000	64,000	66,000	68,000	70,000	72,000	74,000
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$56,000</b>	<b>\$58,000</b>	<b>\$60,000</b>	<b>\$62,000</b>	<b>\$64,000</b>	<b>\$66,000</b>	<b>\$68,000</b>	<b>\$70,000</b>	<b>\$72,000</b>	<b>\$74,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## INFORMATION TECHNOLOGY SUMMARY

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Later Years Funding	Total Project Cost
Information Technology Infrastructure	\$0	\$512,000	\$525,000	\$521,000	\$479,000	\$553,000	\$482,000	\$523,000	\$473,000	\$588,000	\$538,000	\$0	\$5,194,000
<b>Total</b>	\$0	\$512,000	\$525,000	\$521,000	\$479,000	\$553,000	\$482,000	\$523,000	\$473,000	\$588,000	\$538,000	\$0	\$5,194,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	512,000	525,000	521,000	479,000	553,000	482,000	523,000	473,000	588,000	538,000
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$512,000	\$525,000	\$521,000	\$479,000	\$553,000	\$482,000	\$523,000	\$473,000	\$588,000	\$538,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	5,200	20,408	26,224	32,273	38,564	45,107	51,911	58,988	66,347
Debt Service	0	0	0	0	0	0	0	0	0	0
Debt Service Master Lease	0	0	0	0	0	0	0	0	0	0
Revenue	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$5,200	\$20,408	\$26,224	\$32,273	\$38,564	\$45,107	\$51,911	\$58,988	\$66,347

# INFORMATION TECHNOLOGY INFRASTRUCTURE

**Total Project Cost:** On-going

**Est. Opening Date:** On-going

[Links to Board's Strategic Initiatives](#)

- Information Technology Strategic Plan
- Principles of High Performance

## PROGRAM DESCRIPTION

Information Technology infrastructure should be upgraded as appropriate to maintain consistent service levels. The Stafford County IT Equipment and Risk Reduction Plan will assist with standardizing the operating environment with current versions of systems software and hardware. The implementation of new technology will reduce cost, improve efficiency, make maintenance and support considerably more efficient and minimize the number of problems with the operational environment.

The Server (Virtual Cluster) and SAN (Storage Area Network) replacement plan supports the replacement and maintenance of the County's central computing infrastructure. The systems are purchased with a four to five year warranty after which replacement would be recommended due to new technology and the demands of the application exceeding the capability of the existing hardware.

The County's risk reduction plan (which provides business continuity in the event of a computer room and or a network operation center disaster) involves hardware redundancy and geographical separation of critical systems and equipment. Redundancy of critical systems in the plan will be co-located in the County Administration and Public Safety buildings.

The current audio/visual equipment in the Board of Supervisors chambers was installed in 2007. The equipment needs to be replaced due to issues with the aged equipment and to take advantage of newer technology such as high definition broadcasting.

Our goal is to extend our fiber network to as many remote sites as possible by utilizing the Schools existing fiber network. Fiber provides a much more stable network for computers and phones than current cable internet providers and it will reduce monthly cable internet costs.

Virtual Desktop virtualization is client-server computing where the desktop is stored on a centralized server and distributed to users through the network. It reduces desktop computer costs and upgrades and provides easier management of operating systems.



## OPERATING IMPACT SUMMARY

There are no additional operating costs associated with this project.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
BOS Audio Visual Equipment	0	82,000	0	0	0	0	0	0	0	0	0
Fiber Project	0	26,000	0	0	29,000	30,000	124,000	0	0	0	0
Firewall/Intrusion Prevention Replacement	0	69,000	0	56,000	0	0	0	0	94,000	0	0
Virtual Server/San Storage Replacement	0	0	0	0	0	318,000	0	0	0	0	538,000
Router/Switch/Server Replacements	0	335,000	106,000	465,000	0	205,000	358,000	523,000	379,000	197,000	0
Virtual Desktop	0	0	419,000	0	450,000	0	0	0	0	391,000	0
<b>Total</b>	\$0	\$512,000	\$525,000	\$521,000	\$479,000	\$553,000	\$482,000	\$523,000	\$473,000	\$588,000	\$538,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	512,000	525,000	521,000	479,000	553,000	482,000	523,000	473,000	588,000	538,000
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$512,000	\$525,000	\$521,000	\$479,000	\$553,000	\$482,000	\$523,000	\$473,000	\$588,000	\$538,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	5,200	20,408	26,224	32,273	38,564	45,107	51,911	58,988	66,347
Debt Service	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$5,200	\$20,408	\$26,224	\$32,273	\$38,564	\$45,107	\$51,911	\$58,988	\$66,347

## INFORMATION TECHNOLOGY INFRASTRUCTURE

	Project Amount
<b>FY2017 Projects</b>	
Wiring Closets Switch Replacement - Admin/PSC	206,000
DMVPN Hub Router Replacement - Admin/PSC	103,000
ASA Firewall Replacement - Admin/PSC	69,000
BOS Audio Visual Equipment Replacement	82,000
Server Replacement	26,000
Fiber Extension from Schools Network	26,000
	26,000
FY2017 Total	\$512,000
<b>FY2018 Projects</b>	
Edge Router Replacement - Admin/PSC	106,000
Virtual Desktop Project	419,000
	419,000
FY2018 Total	\$525,000
<b>FY2019 Projects</b>	
Core Network Distribution Equipment Replacement-Admin/PSC	437,000
Server Replacement	28,000
Intrusion Prevention System Replacement	56,000
	56,000
FY2019 Total	\$521,000
<b>FY2020 Projects</b>	
Virtual Server Cluster Replacement - Admin/PSC	450,000
Fiber Extension from Schools Network	29,000
	29,000
FY2020 Total	\$479,000
<b>FY2021 Projects</b>	
SAN Storage Network Replacement - Admin/PSC	318,000
Backup System Replacement	175,000
Server Replacement	30,000
Fiber Extension from Schools Network	30,000
	30,000
FY2021 Total	\$553,000
<b>FY2022 Projects</b>	
Remote Site Network Equipment Replacement	358,000
Fiber Extension from Schools Network	62,000
Redundant fiber between PSC and Courthouse	62,000
	62,000
FY2022 Total	\$482,000

## INFORMATION TECHNOLOGY INFRASTRUCTURE

### FY2023 Projects

Courthouse Network Equipment Replacement	122,000
Wiring Closets Switch Replacement - Admin/PSC	369,000
Server Replacement	32,000
FY2023 Total	\$523,000

### FY2024 Projects

Wiring Closets Switch Replacement - Admin/PSC	253,000
DMVPN Hub Router Replacement - Admin/PSC	126,000
ASA Firewall Replacement - Admin/PSC	94,000
FY2024 Total	\$473,000

### FY2025 Projects

Edge Router Replacement - Admin/PSC	163,000
Virtual Desktop Infrastructure Replacement	391,000
Server Replacement	34,000
FY2025 Total	\$588,000

### FY2026 Projects

Virtual Server Cluster Replacement - Admin/PSC	538,000
FY2026 Total	\$538,000

Total FY2017 thru FY2026	\$5,194,000
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## PARKS, RECREATION AND COMMUNITY FACILITIES SUMMARY

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Later Years Funding	Total Project Cost
Park at Embrey Mill - Phase 3	2,720,000	0	2,963,000	0	0	0	0	0	0	0	0	0	5,683,000
Duff McDuff Green Park	0	0	0	7,466,000	5,932,000	0	0	0	0	0	0	0	13,398,000
Patawomeck Park Phase 2	0	0	0	0	0	0	283,000	3,960,000	0	0	0	0	4,243,000
New and Renovated Park Amenities	0	0	0	1,300,000	1,300,000	1,300,000	2,600,000	2,600,000	2,600,000	2,600,000	2,600,000	0	16,900,000
Musselman Park	159,100	0	0	0	0	0	0	488,000	2,622,800	0	0	0	3,269,900
Infrastructure	0	1,245,000	2,079,000	1,509,000	1,275,000	1,318,000	1,278,000	1,460,000	944,000	718,000	1,490,000	0	13,316,000
<b>Total</b>	<b>2,879,100</b>	<b>1,245,000</b>	<b>5,042,000</b>	<b>10,275,000</b>	<b>8,507,000</b>	<b>2,618,000</b>	<b>4,161,000</b>	<b>8,508,000</b>	<b>6,166,800</b>	<b>3,318,000</b>	<b>4,090,000</b>	<b>0</b>	<b>56,809,900</b>

Funding Sources	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	159,100	1,245,000	2,079,000	1,509,000	1,275,000	1,318,000	1,278,000	1,460,000	944,000	718,000	1,490,000
Bonds	2,720,000	0	2,963,000	8,766,000	7,232,000	1,300,000	2,883,000	7,048,000	5,222,800	2,600,000	2,600,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$2,879,100</b>	<b>\$1,245,000</b>	<b>\$5,042,000</b>	<b>\$10,275,000</b>	<b>\$8,507,000</b>	<b>\$2,618,000</b>	<b>\$4,161,000</b>	<b>\$8,508,000</b>	<b>\$6,166,800</b>	<b>\$3,318,000</b>	<b>\$4,090,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	69,000	71,000	73,000	328,000	432,000	753,000	667,000	841,000	861,000
Operating	0	102,000	37,000	38,000	577,000	418,000	801,000	280,000	354,000	364,000
Debt Service	0	0	248,000	982,000	1,587,000	1,696,000	1,938,000	2,528,000	2,965,000	3,183,000
Debt Service Master Lease										
Revenue	0	(47,000)	(49,000)	(50,000)	(220,000)	(150,277)	(253,100)	(261,433)	(270,776)	(281,129)
<b>Total</b>	<b>\$0</b>	<b>\$124,000</b>	<b>\$307,000</b>	<b>\$1,043,000</b>	<b>\$2,272,000</b>	<b>\$2,395,723</b>	<b>\$3,238,900</b>	<b>\$3,213,567</b>	<b>\$3,889,224</b>	<b>\$4,126,871</b>

# PARKS, RECREATION AND COMMUNITY FACILITIES INFRASTRUCTURE

**Total Project Cost:** \$13,373,185

**Est. Opening Date:** On-going

[Links to Board's Strategic Initiatives](#)

- Principles of High Performance Financial Management

**PROGRAM DESCRIPTION**

Replace, repair or upgrade various County assets. See attached summary

**OPERATING IMPACT SUMMARY**

There are no operating costs associated with these projects.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
HVAC/Mechanical	0	150,000	499,000	0	290,000	0	76,000	0	0	327,000	0
Roof Replacement/Repairs	0	124,000	256,000	0	0	0	0	0	380,000	0	499,000
Asphalt/Parking/Roads/Signs	0	0	0	617,000	0	0	431,000	0	0	0	496,000
ADA/Security/Master Plan	0	0	151,000	0	0	0	478,000	94,000	0	0	0
Building Replace/Repairs	0	447,000	194,000	425,000	0	717,000	0	745,000	130,000	0	0
Site Improvements/Fields/Trails	0	581,185	979,000	467,000	985,000	601,000	293,000	621,000	434,000	391,000	495,000
<b>Total</b>	<b>\$0</b>	<b>\$1,302,185</b>	<b>\$2,079,000</b>	<b>\$1,509,000</b>	<b>\$1,275,000</b>	<b>\$1,318,000</b>	<b>\$1,278,000</b>	<b>\$1,460,000</b>	<b>\$944,000</b>	<b>\$718,000</b>	<b>\$1,490,000</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	1,302,185	2,079,000	1,509,000	1,275,000	1,318,000	1,278,000	1,460,000	944,000	718,000	1,490,000
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$1,302,185</b>	<b>\$2,079,000</b>	<b>\$1,509,000</b>	<b>\$1,275,000</b>	<b>\$1,318,000</b>	<b>\$1,278,000</b>	<b>\$1,460,000</b>	<b>\$944,000</b>	<b>\$718,000</b>	<b>\$1,490,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## PARKS, RECREATION AND COMMUNITY FACILITIES INFRASTRUCTURE

### FY2017 Projects

Courthouse Roof replacement	124,000	
Porter Library Renovation	166,685	
Gymnastic Center	447,000	
Safety equipment/ floating dock Lake Mooney	111,500	
IT server room redundant AC	124,000	
Tower site air conditioners	26,000	
Station Maintenance and Repairs	148,000	
Baseball Foul netting	155,000	
	155,000	
	<b>FY2017 Total</b>	<b>\$1,302,185</b>

### FY2018 Projects

Curtis Park skate park upgrades	130,000	
Porter Library parking lot repairs	126,000	
Pratt & Brooks replace pavilion	194,000	
Video surveillance systems in various parks	91,000	
Brooks skate park resurface and upgrades	116,000	
Curtis Park master plan	60,000	
Smith Lake stadium for turf fields	289,000	
Courthouse roof replacement	256,000	
Lake Mooney Phase 2	318,000	
Woodlands Dome and air exchanger	499,000	
	499,000	
	<b>FY2018 Total</b>	<b>\$ 2,079,000</b>

### FY2019 Projects

Pratt & Brooks replace pavilion	200,000	
Aquia Landing regrade parking lot and new fence	117,000	
Willowmere resurface parking lots	191,000	
Pratt restroom/concession upgrades	225,000	
Willowmere rectangle field lights	227,000	
Aquia Landing road improvements	309,000	
Lake Mooney Phase 3	218,000	
Fire company stations carpet replacement 2, 10 & 12	22,000	
	22,000	
	<b>FY2019 Total</b>	<b>\$ 1,509,000</b>

### FY2020 Projects

Smith Lake bleachers at turf fields	282,000	
Smith Lake Field #1 turf replacement	478,000	
Lake Mooney Phase 4	225,000	
Public safety building air conditioner replacement	290,000	
	290,000	
	<b>FY2020 Total</b>	<b>\$ 1,275,000</b>

## PARKS, RECREATION AND COMMUNITY FACILITIES INFRASTRUCTURE

### FY2021 Projects

Smith Lake field #2 turf replacement	492,000	
Brooks Pratt maintenance building	239,000	
Curtis Park create restroom at pavilion #7	478,000	
Administration building flooring replacement	109,000	
	1,318,000	FY2021 Total
	\$	1,318,000

### FY2022 Projects

St. Clair Brooks repave parking lot	431,000	
Willowmere install soccer field lights and landscaping - 2	293,000	
ADA accessibility upgrades to public facilities	478,000	
Fire company stations HVAC replacements; 2, 10 & 12	76,000	
	1,278,000	FY2022 Total
	\$	1,278,000

### FY2023 Projects

Patawomeck maintenance facility and fence	253,000	
Grizzle Center master plan	94,000	
Carl Lewis Community Center renovation	492,000	
Administration building pressure wash & paint exterior	221,000	
Chichester building; pressure wash & paint exterior	158,000	
Administration building paint interior	176,000	
Chichester building paint interior	66,000	
	1,460,000	FY2023 Total
	\$	1,460,000

### FY2024 Projects

Courthouse furniture replacement	243,000	
Garage/Storage Building	130,000	
Public Safety Building Roof	380,000	
Woodlands Pool resurfacing	191,000	
	944,000	FY2024 Total
	\$	944,000

### FY2025 Projects

Public Safety Building floors	130,000	
Energy management system upgrades	327,000	
Curits Park Pool resurfacing	261,000	
	718,000	FY2025 Total
	\$	718,000

### FY2026 Projects

Fire & Rescue station roof; Aquia, 2, 10 & 12	499,000	
Replace fence at various diamond fields *	495,000	
Public Safety Parking lot	496,000	
	\$1,490,000	FY2026 Total
	\$	1,490,000
	\$	13,316,500

## Park at Embrey Mill - Phase 3

**Total Project Cost:** \$5,683,000

**Est. Opening Date:** 2019

[Links to Board's Strategic Initiatives](#)  
 •Parks & Rec Commission Facilities Plan

### PROGRAM DESCRIPTION

The Parks Facilities Plan, approved November 5, 2008 and the Parks Utilization Plan (Phase 1 - Athletic Fields) completed in March 2014, identified numerous new construction and major renovation projects which will increase recreational opportunities. The proposed CIP anticipates utilizing remaining park bonds approved in 2009 and funds from a future bond referendum(s) to address these projects beginning in FY17. This project proposes to build-out the park and could include: two full size, two U-8 size, and one U-10 sized grass, lighted, and irrigated rectangular athletic fields; a playground; two small restrooms; a covered storage building; a maintenance building; and parking. This project includes the project management required to implement.



### OPERATING IMPACT SUMMARY

The annual operating impact includes one additional full time park maintenance supervisor required to oversee the maintenance the additional fields. The level of care and maintenance of this new multi-field facility and the heavy use that is expected warrants the need for higher level of care than current park fields receive. Operating costs for the facility and utilities are partially offset by anticipated direct and indirect revenues from rental of the site for tournaments and revenue from concessions.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	42,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	2,441,000	0	2,701,000	0	0	0	0	0	0	0	0
Contingency	237,000	0	262,000	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$2,720,000</b>	<b>\$0</b>	<b>\$2,963,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	2,720,000	0	2,963,000	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$2,720,000</b>	<b>\$0</b>	<b>\$2,963,000</b>	<b>\$0</b>							

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	69,000	71,000	73,000	75,000	77,000	80,000	82,000	85,000	87,000
Operating	0	102,000	37,000	38,000	39,000	40,000	42,000	43,000	44,000	45,000
Debt Service	0	0	248,000	248,000	248,000	248,000	248,000	248,000	248,000	248,000
Revenue/Savings	0	(47,000)	(49,000)	(50,000)	(52,000)	(53,000)	(55,000)	(57,000)	(58,000)	(60,000)
<b>Total</b>	<b>\$0</b>	<b>\$124,000</b>	<b>\$307,000</b>	<b>\$309,000</b>	<b>\$310,000</b>	<b>\$312,000</b>	<b>\$315,000</b>	<b>\$316,000</b>	<b>\$319,000</b>	<b>\$320,000</b>

# Duff McDuff Green Park

**Total Project Cost:** \$13,398,000

**Est. Opening Date:** 2021

Links to Board's Strategic Initiatives  
 •Parks & Rec Commission Facilities Plan

**PROGRAM DESCRIPTION**

The Parks Facilities Plan, approved November 5, 2008 and the Parks Utilization Plan (Phase 1 - Athletic Fields) completed in March 2014, identified numerous new construction and major renovation projects which will increase recreational opportunities. The proposed CIP anticipates future bond referendum(s) to address these projects beginning in FY17. This project proposes developing the approximately 125 acres of new parkland which was donated to the County in 2009 beside the existing Duff McDuff Green Park. A Conceptual plan for this site was prepared in 2013 and augments the amenities already constructed at the existing park. The future park bond project could include: 2 full size, lighted, synthetic turf fields, and 3 additional full size, lighted, irrigated grass rectangular fields, drainage improvements, entrance road, expanded parking, updated signage, trails, and a fenced district maintenance facility. This project includes the project management required to implement.



**OPERATING IMPACT SUMMARY**

The annual operating impact includes three additional full time, two part time, and two seasonal park maintenance workers required to maintain this large facility. Two concession workers are needed. The level of care and maintenance of this new multi-field facility and the heavy use that is expected warrants the need for higher level of care than current park fields receive. One time start up costs for additional equipment to maintain the property and two vehicles. Operating costs for the facility and utilities are partially offset by anticipated direct and indirect revenues from rental of the site for tournaments and revenue from concessions.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	1,534,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	5,393,000	5,393,000	0	0	0	0	0	0
Contingency	0	0	0	539,000	539,000	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$7,466,000	\$5,932,000	\$0	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	7,466,000	5,932,000	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$7,466,000	\$5,932,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	253,000	129,000	264,000	269,000	275,000	281,000
Operating	0	0	0	0	538,000	62,000	128,000	132,000	136,000	140,000
Debt Service	0	0	0	625,000	1,121,000	1,121,000	1,121,000	1,121,000	1,121,000	1,121,000
Revenue/Savings	0	0	0	0	(168,000)	(86,500)	(178,000)	(184,000)	(189,000)	(195,000)
<b>Total</b>	\$0	\$0	\$0	\$625,000	\$1,744,000	\$1,225,500	\$1,335,000	\$1,338,000	\$1,343,000	\$1,347,000

# Patawomeck Park Phase 2

**Total Project Cost:** \$4,243,000

**Est. Opening Date:** 2024

[Links to Board's Strategic Initiatives](#)

•Parks & Rec Commission Facilities Plan

**PROGRAM DESCRIPTION**

The Parks Facilities Plan, approved November 5, 2008 and the Parks Utilization Plan (Phase 1 - Athletic Fields) completed in March 2014, identified numerous new construction and major renovation projects which will increase recreational opportunities. The proposed CIP anticipates future bond referendum(s) to address these projects beginning in FY17. Phase 1 of Patawomeck Park was constructed with 2001 park bond funds and included 2 rectangular fields, 2 diamond fields, a playground, and picnic shelter/restroom. Phase 2 of development of the park could include: 3 additional lighted, irrigated diamond fields, restrooms, expanded parking, updated signage, utility upgrades, and new trails. This project includes the project management required to implement.



**OPERATING IMPACT SUMMARY**

The annual operating impact includes three additional full time, two part time, and two seasonal park maintenance workers required to maintain this large facility. Two concession workers are needed. The level of care and maintenance of this new multi-field facility and the heavy use that is expected warrants the need for higher level of care than current park fields receive. One time start up costs for additional equipment to maintain the property and two vehicles. Operating costs for the facility and utilities are partially offset by anticipated direct and indirect revenues from rental of the site for tournaments and revenue from concessions.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	283,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	3,536,000	0	0	0
Contingency	0	0	0	0	0	0	0	424,000	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$283,000	\$3,960,000	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	283,000	3,960,000	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$283,000	\$3,960,000	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	47,000	97,000	100,000	103,000
Operating	0	0	0	0	0	0	268,000	42,000	44,000	45,000
Debt Service	0	0	0	0	0	0	24,000	355,000	355,000	355,000
Revenue/Savings	0	0	0	0	0	0	(3,000)	(6,000)	(6,000)	(7,000)
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$336,000	\$488,000	\$493,000	\$496,000

## New and Renovated Park Amenities

**Total Project Cost:** \$16,900,000

**Est. Opening Date:** FY2018

Links to Board's Strategic Initiatives

•Parks & Rec Commission Facilities Plan

### PROGRAM DESCRIPTION

The Parks Utilization Plan (Phase1)completed in 2014, and the Parks Utilization Plan (Phase 2) to be completed in 2015, identified numerous new construction and major renovation projects which will increase use of existing parks and provide other recreational opportunities. The proposed CIP anticipates future bond referendum(s) to address these projects beginning in FY17. The improvements funded by this project will provide much needed renovations to parking lots, playgrounds, picnic shelters,restrooms, trails, courts, skate parks, ADA accessibility improvements, signage, and lights in various parks. Also included in this project are the following improvements which have become too expensive to be funded by the Infrastructure project: FY 2017 - Woodlands pool bath house renovations \$510,000, FY 2018 - Willowmere expand parking lot near soccer fields \$628,000 and Chichester large building (12,000 SF) \$705,000, FY2022 - St. Clair Brooks renovations \$614,000, FY2023 - Pratt Park sewage pump station and expand parking lot \$698,000, FY2024 - Duff McDuff Green house renovation \$651,000, FY2025 - Fire & Rescue station roof; Aquia, 2, 10 &12 \$651,000 and Brooks shelter/restroom replacement \$651,000, This project includes the project management required to implement.

### OPERATING IMPACT SUMMARY

The annual operating impact may actually go down on some renovated facilities. Operating costs on new amenities won't be known until the specific amenities are determined. Operating costs for the facility and utilities may be offset by anticipated direct and indirect revenues from rental of the site for tournaments and revenue from concessions or other rentals.



### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0			87,000	87,000	87,000	87,000	87,000	87,000	87,000	87,000
Property Acquisition	0			0	0	0	0	0	0	0	0
Construction / Project	0			1,104,000	1,104,000	1,104,000	2,404,000	2,404,000	2,404,000	2,404,000	2,404,000
Contingency	0			109,000	109,000	109,000	109,000	109,000	109,000	109,000	109,000
Other	0			0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$1,300,000	\$1,300,000	\$1,300,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	1,300,000	1,300,000	1,300,000	2,600,000	2,600,000	2,600,000	2,600,000	2,600,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$1,300,000	\$1,300,000	\$1,300,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	94,000	49,000	100,000	103,000
Operating	0	0	0	0	0	0	281,000	21,000	43,000	45,000
Debt Service	0	0	0	109,000	218,000	327,000	545,000	763,000	981,000	1,199,000
Revenue/Savings	0	0	0	0	0	0	(6,000)	(3,000)	(6,000)	(7,000)
<b>Total</b>	\$0	\$0	\$0	\$109,000	\$218,000	\$327,000	\$914,000	\$830,000	\$1,118,000	\$1,340,000

# Musselman Park

**Total Project Cost:** \$3,269,900

**Est. Opening Date:** 2024

[Links to Board's Strategic Initiatives](#)

•Parks & Rec Commission Facilities Plan

## PROGRAM DESCRIPTION

This project plans the long range use of the 42 acres of property located off Truslow Road. The plan will identify the scope of phase 1 development which may include the provision of one grass baseball field and one grass rectangular field, both lighted, a restroom building, picnic shelter, playground, trails, and parking. Due to the growth of the County and the needs of the Parks, Recreation and Community Facilities Department additional park space for active recreation is necessary. Sports field location, type and size will align with the approved Parks Utilization Plan (Phase 1-Athletic fields).

## OPERATING IMPACT SUMMARY

Annual operating impact include 2 full-time and 2 part-time park maintenance worker positions and one time start up costs for additional equipment to maintain the property. Operating costs for the facility and utilities are offset by anticipated direct and indirect revenues from rental of a proposed picnic shelter.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	159,100	0	0	0	0	0	0	488,000	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	2,341,800	0	0
Contingency	0	0	0	0	0	0	0	0	281,000	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$159,100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$488,000</b>	<b>\$2,622,800</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	159,100	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	488,000	2,622,800	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$159,100</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$488,000</b>	<b>\$2,622,800</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	226,000	268,000	170,000	281,000	287,000
Operating	0	0	0	0	0	316,000	82,000	42,000	87,000	89,000
Debt Service	0	0	0	0	0	0	0	41,000	260,000	260,000
Revenue/Savings	0	0	0	0	0	(10,777)	(11,100)	(11,433)	(11,776)	(12,129)
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$531,223</b>	<b>\$338,900</b>	<b>\$241,567</b>	<b>\$616,224</b>	<b>\$623,871</b>



## PUBLIC WORKS SUMMARY

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Later Years Funding	Total Project Cost
Animal Shelter	400,000	5,348,000	0	0	0	0	0	0	0	0	0	0	5,748,000
Courthouse Addition	0	0	0	2,350,000	12,123,000	14,528,000	0	0	0	0	0	0	29,001,000
Library #4	0	0	0	0	0	0	0	0	0	2,516,000	1,030,000	13,154,000	16,700,000
Belmont Ferry Farm Trail - Phase 6	75,000	925,000	0	0	0	0	0	0	0	0	0	0	1,000,000
Stormwater Compliance	0	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	0	4,800,000
<b>Total</b>	<b>\$475,000</b>	<b>\$6,573,000</b>	<b>\$500,000</b>	<b>\$2,850,000</b>	<b>\$12,623,000</b>	<b>\$15,028,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$3,016,000</b>	<b>\$1,530,000</b>	<b>\$13,154,000</b>	<b>\$57,249,000</b>

Funding Sources	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	400,000	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
Bonds	0	5,348,000	0	2,350,000	12,123,000	14,528,000	0	0	0	2,516,000	1,030,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$475,000</b>	<b>\$6,573,000</b>	<b>\$500,000</b>	<b>\$2,850,000</b>	<b>\$12,623,000</b>	<b>\$15,028,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$3,016,000</b>	<b>\$1,530,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	51,000	52,000	54,000	55,000	1,128,000	1,162,000	1,196,000	1,232,000	1,269,000
Operating	56,000	135,000	98,000	99,000	101,000	571,000	380,000	439,000	450,000	461,000
Debt Service	0	448,000	448,000	645,000	1,659,000	2,875,000	2,875,000	2,875,000	2,875,000	3,086,000
Revenue	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$56,000</b>	<b>\$634,000</b>	<b>\$598,000</b>	<b>\$798,000</b>	<b>\$1,815,000</b>	<b>\$4,574,000</b>	<b>\$4,417,000</b>	<b>\$4,510,000</b>	<b>\$4,557,000</b>	<b>\$4,816,000</b>

# Animal Shelter

**Total Project Cost:** \$5,748,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Conformance to state guidelines

**PROGRAM DESCRIPTION**

A new and modern animal shelter and animal control facility. Building will meet or exceed state guidelines for a municipal pound. Building will include a spay/neuter clinic, separate isolation rooms for different species. Separate pens for adoptable, healthy animals and sick and quarantined animals. The Facility will have sufficient office space to include dispatch/communications room, officers space, crematorium, cleaning stations, sally port and shelter staff space. Reception area will be of sufficient size for animal intake and drop off. Facility will be designed especially to house animals and will be properly ventilated, drained, lighted, and sized. Animal confinement areas will be constructed properly to prevent the spread of disease and be pleasing to the public while visiting the facility. Parking area will be sufficient to allow for the volume of visitors. The facility will be designed to allow for a future expansion to include larger holding areas for animals and a sally port for secure transport of animals. Facility will be placed on 5 acres of a 38 acre County owned parcel adjacent to the Regional Jail.



**OPERATING IMPACT SUMMARY**

Operating impacts include one time start up costs and additional maintenance and operating costs.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	400,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	4,875,000	0	0	0	0	0	0	0	0	0
Contingency	0	473,000	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$400,000</b>	<b>\$5,348,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	400,000	0	0	0	0	0	0	0	0	0	0
Bonds	0	5,348,000	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$400,000</b>	<b>\$5,348,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	108,000	46,000	47,000	49,000	50,000	52,000	53,000	55,000	57,000
Debt Service	0	448,000	448,000	448,000	448,000	448,000	448,000	448,000	448,000	448,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$556,000</b>	<b>\$494,000</b>	<b>\$495,000</b>	<b>\$497,000</b>	<b>\$498,000</b>	<b>\$500,000</b>	<b>\$501,000</b>	<b>\$503,000</b>	<b>\$505,000</b>

# Courthouse Addition

**Total Project Cost:** \$29,001,000

**Est. Opening Date:** 2022

Links to Board's Strategic Initiatives  
 • 2004 space needs

**PROGRAM DESCRIPTION**

Construction of a 45,000 square foot expansion to the existing Courthouse to provide three additional courtrooms for the County's Courts, Clerk's Offices and other associated building improvements. The 2015 space needs analysis identified deficiencies in existing space and future space including a net square feet (nsf) deficiency of 34,315 nsf less than the needs in 2020 and 47,186 nsf less than needs in 2025. The project consists of renovations to the existing courtroom and office space, along with site improvements to provide for prisoner transfer accommodations and significant upgrades to provide improved citizen access including improvements to provide access in accordance with the American's with Disabilities Act.



**OPERATING IMPACT SUMMARY**

Operating costs assumes three additional courtrooms will be in operation. Start up costs include expenses for computers, phones, metal detector and 14 new employees. Ongoing costs include 11 deputies and 1 sergeant for the Sheriff's department. 1 maintenance mechanic II and 2 custodians for Parks, Recreation and Community Facilities department. As courtrooms are added additional personnel would be needed.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	2,350,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	12,123,000	12,129,000	0	0	0	0	0
Contingency	0	0	0	0	0	2,399,000	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$2,350,000	\$12,123,000	\$14,528,000	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	2,350,000	12,123,000	14,528,000	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$2,350,000	\$12,123,000	\$14,528,000	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	1,071,000	1,103,000	1,136,000	1,170,000	1,205,000
Operating	0	0	0	0	0	469,000	276,000	284,000	293,000	302,000
Debt Service	0	0	0	197,000	1,211,000	2,427,000	2,427,000	2,427,000	2,427,000	2,427,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$197,000	\$1,211,000	\$3,967,000	\$3,806,000	\$3,847,000	\$3,890,000	\$3,934,000

# Library #4

**Total Project Cost:** \$16,700,000

**Est. Opening Date:** 2028

Links to Board's Strategic Initiatives  
 • Comprehensive Plan

**PROGRAM DESCRIPTION**

The CRRL Board of Trustees is recommending the opening of a new branch library in the County to meet current unmet demands and to accommodate projected new population growth. High demand for books, programming, meeting rooms, computers and other library services at the Porter and England Run libraries will be relieved by a third library facility in the developing residential/commercial Courthouse area. The facility will be needed to keep pace with population growth and the development of core infrastructure by Stafford County to provide comprehensive education and quality of life opportunities for all County residents. Three options for a new facility could include a traditional branch which would be similar to Porter and England Run libraries, a store front facility which could be located at a retail venue, or a partnership with Germanna Community College.



**OPERATING IMPACT SUMMARY**

No operating costs are associated with the project in this planning period.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	1,030,000
Property Acquisition	0	0	0	0	0	0	0	0	0	2,516,000	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,516,000	\$1,030,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	2,516,000	1,030,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,516,000	\$1,030,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	211,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$211,000

# Belmont Ferry Farm Trail - Phase 6

**Total Project Cost:** \$1,000,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Approved by the voters in the 2009 referendum
- Parks & Rec Commission

**PROGRAM DESCRIPTION**

The project consists of constructing a portion of the Belmont-Ferry Farm Trail. The target segment is phase 6 from the Chatham Bridge to Ferry Farm. Trails are the highest use need as identified by County residents. Design of Phase 6 of the Belmont-Ferry Farm Trail is at the conceptual stage. This project will complete the design, permitting and construction of Phase 6. Identified as a project proposed in the 2009 park bond program. Staff is working to secure grant funding for this entire project.



**OPERATING IMPACT SUMMARY**

Annual operating impact includes one additional full time park maintenance worker position and one time start up costs for equipment to maintain trails.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	75,000	300,000	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	569,000	0	0	0	0	0	0	0	0	0
Contingency	0	56,000	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$75,000</b>	<b>\$925,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	15,000	185,000	0	0	0	0	0	0	0	0	0
State/Federal	60,000	740,000	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$75,000</b>	<b>\$925,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	51,000	52,000	54,000	55,000	57,000	59,000	60,000	62,000	64,000
Operating	31,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$31,000</b>	<b>\$53,000</b>	<b>\$54,000</b>	<b>\$56,000</b>	<b>\$57,000</b>	<b>\$59,000</b>	<b>\$61,000</b>	<b>\$62,000</b>	<b>\$64,000</b>	<b>\$66,000</b>

# Stormwater Compliance

**Total Project Cost:** \$4,800,000

**Est. Opening Date:** On-Going

- Links to Board's Strategic Initiatives
- Compliance with Chesapeake Bay TMDL
  - Compliance with NPDES MS4 Stormwater Discharge

## PROGRAM DESCRIPTION

The U.S. Environmental Protection Agency (EPA) in coordination with the Virginia Department of Conservation and Recreation is developing a Total Maximum Daily Load (TMDL) for the Chesapeake Bay. The TMDL was finalized by EPA on December 31, 2010. The TMDL established a "pollution diet" for the entire Chesapeake Bay watershed to address pollution from nutrients and sediment and require localities to implement water quality improvements to meet water quality standards for the Bay. EPA has identified the retrofit of previously developed land for water quality controls as a key component of the TMDL. It is anticipated that the County's MS4 Stormwater Permit will contain retrofit mandates on a phased basis over 15 years. Retrofits will include construction of new stormwater management facilities and upgrades to existing facilities to meet quality standards. For the first five-year period, the County will be expected to retrofit 5% of the requirement, 30% in the second five-year period, and 65% in the third five-year period. Cost share funding from the U.S. Army Corps of Engineers may be available to lower future Planning/Design costs.

## OPERATING IMPACT SUMMARY

Operating costs will begin with completion of the construction of the first facilities. The stormwater retrofits will be located on both public and private properties. It is assumed that the County will be responsible for the operation and maintenance (O&M) of retrofit facilities. Annual O&M costs were estimated to be 5% of the total cost of facilities constructed to date.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$500,000</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	300,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$500,000</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	25,000	25,000	50,000	50,000	50,000	50,000	50,000	100,000	100,000	100,000
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$25,000</b>	<b>\$25,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>

## TRANSPORTATION SUMMARY

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Later Years Funding	Total Project Cost
(1) Route 1, Jefferson Davis Hwy	0	0	0	300,000	500,000	1,000,000	0	0	0	0	0	0	1,800,000
(2) Route 711 Juggins Road	0	0	300,000	500,000	1,250,000	170,600	0	0	0	0	0	0	2,220,600
(4) Safety Improvements on Route 1 at Woodstock Lane and Telegraph Road	0	0	1,100,000	3,200,000	4,500,000	0	0	0	0	0	0	0	8,800,000
(6) Route 606, Ferry Rd	642,225	605,113	2,744,308	0	0	0	0	0	0	0	0	0	3,991,646
(7) Route 630, Courthouse Rd: Cedar Lane to Winding Creek Rd	9,393,358	14,199,112	12,377,530	0	0	0	0	0	0	0	0	0	35,970,000
(8) Route 630, Courthouse Rd: Winding Creek Rd to Shelton Shop Rd	0	0	0	0	0	0	2,800,000	0	10,420,522	0	12,008,478	2,575,000	27,804,000
(10) Route 652, Truslow Rd, West of I-95 (PPTA)	7,384,440	0	0	0	0	0	0	0	0	0	0	0	7,384,440
(12) Route 627, Mountain View Road Ext. to High School	3,830,000	0	0	0	0	0	0	0	0	0	0	0	3,830,000
(15) Courthouse Road & Route 1 Intersection Improvements	950,000	7,200,000	0	5,130,300	0	0	0	0	0	0	0	0	13,280,300
(18) Enon Road & Route 1 Improvements	610,762	0	0	0	0	200,000	550,000	2,268,738	0	0	0	0	3,629,500
(19) Butler Road	0	0	0	0	0	0	0	412,551	587,449	3,000,000	16,200,000	0	20,200,000
(20) Garrisonville Road Eustace Road to Shelton Shop Rd	0	0	0	3,000,000	14,000,000	11,400,000	0	0	0	0	0	0	28,400,000
(21) Eskimo Hill Road	0	0	0	0	0	250,000	500,000	1,600,000	1,700,000	2,000,000	1,300,000	0	7,350,000
(23) Shelton Shop Road	0	0	0	0	0	0	0	0	0	1,500,000	4,500,000	9,000,000	15,000,000
(25) Berea Church Road	480,000	300,000	0	0	4,112,068	0	0	0	0	0	0	0	4,892,068
(26) Tech Center Drive	0	0	0	0	0	0	0	0	0	0	2,600,000	0	2,600,000
(28) Route 608, Brooke Road, South of Eskimo Hill Road	1,640,002	0	0	0	0	0	1,934,998	3,639,900	0	0	0	0	7,214,900
(29) Route 616, Poplar Road, North of Truslow Road	2,687,300	0	0	0	0	0	0	0	0	0	0	0	2,687,300
<b>Total</b>	<b>\$27,618,087</b>	<b>\$22,304,225</b>	<b>\$16,521,838</b>	<b>\$12,130,300</b>	<b>\$24,362,068</b>	<b>\$13,020,600</b>	<b>\$5,784,998</b>	<b>\$7,921,189</b>	<b>\$12,707,971</b>	<b>\$6,500,000</b>	<b>\$36,608,478</b>	<b>\$11,575,000</b>	<b>\$197,054,754</b>

Funding Sources	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Later Years Funding	Total Project Cost
Bonds	5,948,752	800,000	9,518,401	1,025,000	0	0	1,400,000	0	5,210,261	4,000,000	22,279,188	6,075,000	56,256,602
Cash	470,000	434,128	1,275,200	0	0	0	0	0	0	0	0	0	2,179,328
Proffers	2,475,692	935,856	935,856	0	0	0	0	0	0	0	25,000	0	4,372,404
Service District Supported GO Debt*	0	0	0	0	14,200,000	0	0	0	0	0	0	0	14,200,000
Service District	0	0	1,109,966	0	0	0	0	0	0	0	0	0	1,109,966
Fuel Tax	6,445,071	1,136,264	0	0	0	0	0	0	0	0	0	0	7,581,335
Revenue Sharing	29,855,574	3,435,029	1,117,068	4,600,000	9,600,000	375,000	4,187,449	0	5,210,261	6,800,000	8,891,739	5,500,000	79,572,120
State/Federal	1,964,749	293,907	387,641	12,858,741	500,000	1,170,600	0	2,926,659	0	0	0	0	20,102,297
Impact Fees	1,038,177	302,506	640,019	0	1,032,921	667,079	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	0	11,680,702
<b>Total Funding Sources Identified</b>	<b>48,198,015</b>	<b>7,337,690</b>	<b>14,984,151</b>	<b>18,483,741</b>	<b>25,332,921</b>	<b>2,212,679</b>	<b>7,187,449</b>	<b>4,526,659</b>	<b>12,020,522</b>	<b>12,400,000</b>	<b>32,795,927</b>	<b>11,575,000</b>	<b>197,054,754</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Debt Service	0	67,000	863,000	949,000	949,000	949,000	1,066,000	1,066,000	1,502,000	1,837,000
Service District Debt Service	0	0	0	0	1,188,246	1,188,246	1,188,246	1,188,246	1,188,246	1,188,246
	\$0	\$67,000	\$863,000	\$949,000	\$2,137,246	\$2,137,246	\$2,254,246	\$2,254,246	\$2,690,246	\$3,025,246

# ROUTE 1, JEFFERSON DAVIS HIGHWAY

**Total Project Cost:** \$1,800,000

**Est. Opening Date:** 2021

[Links to Board's Strategic](#)

- Approved by voters in the 2008
- Comprehensive Plan

## PROGRAM DESCRIPTION

Construction of a left-turn lane from southbound Jefferson Davis Highway to Potomac Creek Drive. Completion of this project according to the schedule shown is dependent upon the timing for the receipt of state HB2 funding.

## OPERATING IMPACT SUMMARY

A 2008 Transportation Bond Program project. Upon completion, VDOT becomes the owner of the improvement.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	300,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	500,000	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	1,000,000	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$500,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	300,000	500,000	1,000,000	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$500,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# Juggins Road Reconstruction

**Total Project Cost:** \$2,220,600

**Est. Opening Date:** 2021

[Links to Board's Strategic](#)

•Supports the Board's Education

## PROGRAM DESCRIPTION

Two lane reconstruction of Juggins Road (S.R. 711) from Chadwick Drive to the new Moncure Elementary School location, a distance of approximately .25 mile. Project will also include the rural restoration and surface treatment of Juggins Road from the north entrance to the elementary school to the end of state maintenance, about .3 mile. Bond funds would be included with the VPSA borrow for the school construction as this work is integral to the school construction.



## OPERATING IMPACT SUMMARY

Road improvement necessary to support additional traffic resulting from the Moncure Elementary School relocation. Upon completion, VDOT becomes the owner of the improvement.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	300,000	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	500,000	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	1,250,000	170,600	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$500,000</b>	<b>\$1,250,000</b>	<b>\$170,600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	1,025,000	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	1,025,000	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	170,600	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,025,000</b>	<b>\$1,025,000</b>	<b>\$0</b>	<b>\$170,600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	86,000	86,000	86,000	86,000	86,000	86,000	86,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$86,000</b>						

# SAFETY IMPROVEMENTS ON ROUTE 1 AT WOODSTOCK LANE AND TELEGRAPH ROAD

**Total Project Cost:** \$8,800,000

**Est. Opening Date:** 2020

[Links to Board's Strategic Initiatives](#)

- Approved by Board for HB2 Funding
- Supports Economic Development

## PROGRAM DESCRIPTION

This project consists of roadway reconstruction/realignment, installation of a new traffic signal, turn lane improvements and access management. This project has been approved to receive House Bill 2 (HB2) funding. The timing for the distribution of the HB2 funds is unknown at this time. Initial funding involves the release of Wideswater CDA funding for this project.

## OPERATING IMPACT SUMMARY

No operating impacts are expected for the County since upon completion, VDOT becomes the owner of the improvement.

## PROJECT COSTS



Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	1,100,000	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	3,200,000	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	4,500,000	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$1,100,000	\$3,200,000	\$4,500,000	\$0	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	1,275,200	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	7,524,800	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$1,275,200	\$7,524,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

# ROUTE 606, FERRY ROAD

**Total Project Cost:** \$3,991,646

**Est. Opening Date:** 2018

[Links to Board's Strategic Initiatives](#)

- Approved by voters in the 2008 referendum
- Comprehensive Plan

## PROGRAM DESCRIPTION

Construction of Improvements to the Ferry Road and Kings Highway Intersection to improve peak hour through capacity. Project involves the addition and extension of turn lanes to add stacking capacity, and incorporates road improvements necessary for the improvements to the George Washington Boyhood Home at Ferry Farm. VDOT is administering this project using a combination of state and local funds.

## OPERATING IMPACT SUMMARY

Improvements to Ferry Road were identified in the 2008 Transportation Bond Referendum. Upon completion, VDOT becomes the owner of the improvement.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	642,225	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	605,113	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	2,744,308	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$642,225</b>	<b>\$605,113</b>	<b>\$2,744,308</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	470,000	434,128	0	0	0	0	0	0	0	0	0
Proffers	253,518	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	1,525,823	470,000	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	838,177	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$3,087,518</b>	<b>\$904,128</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# ROUTE 630, COURTHOUSE ROAD: CEDAR LANE TO WINDING CREEK ROAD

**Total Project Cost:** \$35,970,000

**Est. Opening Date:** 2019

[Links to Board's Strategic Initiatives](#)

- Approved by voters in the 2008
- Comprehensive Plan

## PROGRAM DESCRIPTION

Widen Courthouse Road to 4 lanes from Cedar Lane to Winding Creek Road.

## OPERATING IMPACT SUMMARY

A 2008 Transportation Bond Program project. Upon completion, VDOT becomes the owner of the improvement.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	2,375,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	7,018,358	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	14,199,112	12,377,530	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$9,393,358</b>	<b>\$14,199,112</b>	<b>\$12,377,530</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	5,597,752	800,000	9,518,401	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	249,372	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	14,340,677	2,127,354	0	0	0	0	0	0	0	0	0
State/Federal	1,964,749	293,907	387,641	387,641	0	0	0	0	0	0	0
Impact Fees	0	302,506	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$22,152,550</b>	<b>\$3,523,767</b>	<b>\$9,906,042</b>	<b>\$387,641</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	67,000	863,000	863,000	863,000	863,000	863,000	863,000	863,000	863,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$67,000</b>	<b>\$863,000</b>							

# ROUTE 630, COURTHOUSE ROAD: WINDING CREEK ROAD TO SHELTON SHOP ROAD

**Total Project Cost:** \$27,804,000

**Est. Opening Date:** 2024

[Links to Board's Strategic Initiatives](#)

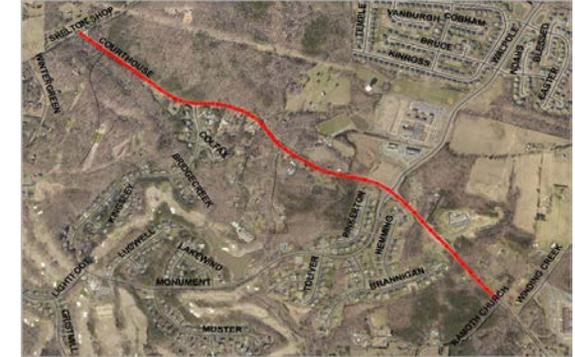
- Approved by voters in the 2008 referendum
- Comprehensive Plan

## PROGRAM DESCRIPTION

Widen Courthouse Road to 4 lanes from Winding Creek Road to Shelton Shop Road. Completes improvements to Courthouse Road from I-95 to Shelton Shop Road. Costs include preliminary engineering and right-of-way acquisition and construction.

## OPERATING IMPACT SUMMARY

A 2008 Transportation Bond project, although bond authority will have expired, requiring another referendum. Upon completion, VDOT becomes the owner of the improvement.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	2,800,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	10,420,522	0	679,478
Construction / Project	0	0	0	0	0	0	0	0	0	0	11,329,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,800,000</b>	<b>\$0</b>	<b>\$10,420,522</b>	<b>\$0</b>	<b>\$12,008,478</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	1,400,000	0	5,210,261	0	4,716,739
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	0	0	0	0	1,400,000	0	5,210,261	0	7,291,739
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,800,000</b>	<b>\$0</b>	<b>\$10,420,522</b>	<b>\$0</b>	<b>\$12,008,478</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	117,000	117,000	553,000	553,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$117,000</b>	<b>\$117,000</b>	<b>\$553,000</b>	<b>\$553,000</b>

# ROUTE 652, TRUSLOW ROAD, WEST OF I-95

**Total Project Cost:** \$7,384,440

**Est. Opening Date:** 2017

[Links to Board's Strategic Initiatives](#)

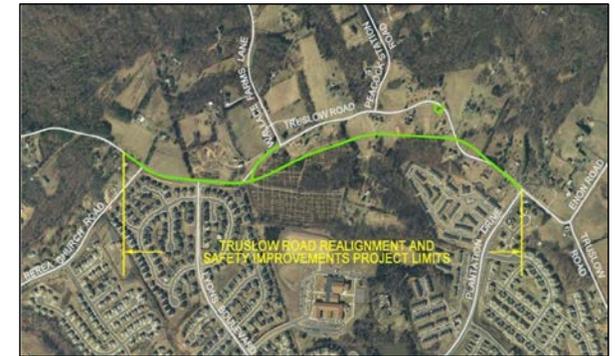
- Approved by voters in the 2008 referendum
- Comprehensive Plan

## PROGRAM DESCRIPTION

Reconstruction of Truslow Road from Plantation Drive to Berea Church Road.

## OPERATING IMPACT SUMMARY

A 2008 Transportation Bond Program project. Upon completion, VDOT becomes the owner of the improvement.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	626,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	2,820,528	0	0	0	0	0	0	0	0	0	0
Construction / Project	3,937,912	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$7,384,440</b>	<b>\$0</b>									

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	351,000	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	1,343,511	0	0	0	0	0	0	0	0	0	0
S D Supported GO	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	1,998,429	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	3,691,500	0	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$7,384,440</b>	<b>\$0</b>									

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# ROUTE 627, MOUNTAIN VIEW ROAD EXTENSION

**Total Project Cost:** \$3,830,000

**Est. Opening Date:** 2016

[Links to Board's Strategic Initiatives](#)

- Approved by voters in the 2008 referendum
- Comprehensive Plan

**PROGRAM DESCRIPTION**

Reconstruction of Mountain View Road from Rose Hill Farm Drive to the Mountain View High School.

**OPERATING IMPACT SUMMARY**

An extension of a 2008 Transportation Bond Program project. Upon completion, VDOT becomes the owner of the improvement.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	290,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	360,000	0	0	0	0	0	0	0	0	0	0
Construction / Project	3,180,000	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$3,830,000</b>	<b>\$0</b>									

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	1,915,000	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	1,524,291	390,709	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$3,439,291</b>	<b>\$390,709</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# ROUTE 1 COURTHOUSE ROAD INTERSECTION IMPROVEMENT

**Total Project Cost:** \$13,280,300

**Est. Opening Date:** 2019

Links to Board's Strategic Initiatives

- Redevelopment Plan
- Economic Development 10 Point Plan
- Comprehensive Plan

**PROGRAM DESCRIPTION**

The intersection of Courthouse Road (S.R. 630) and Jefferson Davis Highway (U.S. Route 1) has a Level of Service of "F" during peak morning and afternoon traffic periods. Furthermore, U.S. Route 1 serves as the primary alternate route for I-95 when there are backups on the Interstate Highway. The proposed improvements to this intersection include additional left and right turn lanes to allow simultaneous traffic movement north and south on Route 1, and east and west on Route 630 to eliminate the current split phasing at that intersection. This will greatly increase the volume of traffic that can pass, and allow more flexibility to adjust signal phasing to accommodate peak hour and emergency signal patterns. The project will also include pedestrian accommodations consistent with the location in the center of the Stafford courthouse area and the future plans for the Courthouse Urban Development Area. The project scope has been expanded to include improvements to Hope Road, funded by approved HB2 revenues. Timing of this phase of the project is contingent upon the timing for the receipt of HB2 funding.



**OPERATING IMPACT SUMMARY**

No operating impacts are expected for the County since upon completion, VDOT becomes the owner of the improvement.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	950,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	7,200,000	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	5,130,300	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$950,000</b>	<b>\$7,200,000</b>	<b>\$0</b>	<b>\$5,130,300</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	323,744	935,856	935,856	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	985,280	1,136,264	0	0	0	0	0	0	0	0	0
Revenue Sharing	4,317,000	0	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	4,646,300	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$5,626,024</b>	<b>\$2,072,120</b>	<b>\$935,856</b>	<b>\$4,646,300</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# ENON ROAD & ROUTE 1 IMPROVEMENTS

**Total Project Cost:** \$3,629,500

**Est. Opening Date:** 2023

Links to Board's Strategic Initiatives

- Redevelopment Plan
- Comprehensive Plan
- Economic Development 10 Point Plan

**PROGRAM DESCRIPTION**

Enon Road has experienced a large increase in vehicle trips per day since the opening of the I-95 interchange at Centreport Parkway. A recent traffic engineering analysis determined that the segment between Route 1 and Stafford Indians Lane currently has 9,000 vehicle trips per day (VPD) and projects over 15,000 VPD in 2020. Furthermore, the study noted deficiencies in the intersection at Route 1. The study recommended construction of a 3-lane section for Enon Road east of the I-95 bridge, and tapering to a 2-lane section just east of the bridge. This project might qualify to receive future House Bill 2 (HB2) funding. The CIP assumes Board approval to submit this project for HB2 funding and approval by the CTB.



**OPERATING IMPACT SUMMARY**

No operating impacts are expected for the County since upon completion, VDOT becomes the owner of the improvement.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	610,762	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	200,000	550,000	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	2,268,738	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$610,762</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$550,000</b>	<b>\$2,268,738</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	105,381	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	305,381	0	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	2,926,659	0	0	0
Impact Fees	200,000	0	0	0	0	92,079	0	0	0	0	0
<b>Total</b>	<b>\$610,762</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$92,079</b>	<b>\$0</b>	<b>\$2,926,659</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# BUTLER ROAD

**Total Project Cost:** \$20,200,000

**Est. Opening Date:** 2026

[Links to Board's Strategic](#)

- Comprehensive Plan
- Transportation Plan

**PROGRAM DESCRIPTION**

Improvements to Butler Road from the termini of the Falmouth Intersection project to the intersection of Castle Rock Drive (across from the YMCA). This improvement will widen the roadway from 2 lanes to four lanes and will include turn lanes, wider shoulders improved sight distance and will meet current VDOT standards. This project will span approximately 0.81 miles.



**OPERATING IMPACT SUMMARY**

No operating impacts are anticipated at this time

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026		
Planning/Design	0	0	0	0	0	0	0	412,551	587,449	1,000,000	0		
Property Acquisition	0	0	0	0	0	0	0	0	0	2,000,000	7,400,000		
Construction / Project	0	0	0	0	0	0	0	0	0	0	8,800,000		
Contingency	0	0	0	0	0	0	0	0	0	0	0		
Other	0	0	0	0	0	0	0	0	0	0	0		
<b>Total</b>	<b>\$0</b>	<b>\$412,551</b>	<b>\$587,449</b>	<b>\$3,000,000</b>	<b>\$16,200,000</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026		
Bonds	0	0	0	0	0	0	0	0	0	0	14,987,449		
Current Revenue	0	0	0	0	0	0	0	0	0	0	0		
Proffers	0	0	0	0	0	0	0	0	0	0	0		
SD Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0		
Service District	0	0	0	0	0	0	0	0	0	0	0		
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0		
Revenue Sharing	0	0	0	0	0	0	0	0	0	1,600,000	1,600,000		
State/Federal	0	0	0	0	0	0	0	0	0	0	0		
Impact Fees	0	0	0	0	0	0	0	412,551	1,600,000	0	0		
<b>Total</b>	<b>\$0</b>	<b>\$412,551</b>	<b>\$1,600,000</b>	<b>\$1,600,000</b>	<b>\$16,587,449</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# ROUTE 610, GARRISONVILLE ROAD EUSTACE ROAD TO SHELTON SHOP

**Total Project Cost:** \$28,400,000

**Est. Opening Date:** 2022

[Links to Board's Strategic Initiatives](#)

- Included in the Transportation Plan

## PROGRAM DESCRIPTION

Widen Garrisonville Road to 6-lanes from Eustace Road to Shelton Shop Road. Project funded by service district revenue and revenue sharing.



## OPERATING IMPACT SUMMARY

Identified in the Transportation Plan. Upon completion, VDOT becomes the owner of the improvement.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	3,000,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	14,000,000	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	11,400,000	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$3,000,000	\$14,000,000	\$11,400,000	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	14,200,000	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	0	4,600,000	9,600,000	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	0	0	0	4,600,000	23,800,000	0	0	0	0	0	0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

# ESKIMO HILL ROAD IMPROVEMENTS

**Total Project Cost:** \$7,350,000

**Est. Opening Date:** 2026

[Links to Board's Strategic Initiatives](#)

- Transportation Plan
- Comprehensive Plan

## PROGRAM DESCRIPTION

Two lane reconstruction of Eskimo Hill Road between Route 1 and Potomac Run Road.

## OPERATING IMPACT SUMMARY

Identified in the Transportation Plan. Upon completion, VDOT becomes the owner of the improvement.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	250,000	500,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	1,600,000	1,700,000	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	2,000,000	1,300,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$250,000	\$500,000	\$1,600,000	\$1,700,000	\$2,000,000	\$1,300,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	0	0	0	375,000	0	0	0	3,200,000	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	575,000	0	0	0	1,600,000	1,600,000
<b>Total</b>	0	0	0	0	0	950,000	0	0	0	4,800,000	1,600,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

# SHELTON SHOP ROAD

**Total Project Cost:** \$15,000,000

**Est. Opening Date:** 2027

Links to Board's Strategic Initiatives  
• Comprehensive Plan

**PROGRAM DESCRIPTION**

Reconstruction of Shelton Shop Road between Garrisonville Road and Mountain View Road to provide a 4-lane divided highway.



**OPERATING IMPACT SUMMARY**

Identified in the Transportation Plan. Upon completion, VDOT becomes the owner of the improvement.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	1,500,000	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	4,500,000
Construction / Project	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$1,500,000</b>	<b>\$4,500,000</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	4,000,000	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	0	0	0	0	0	0	0	2,000,000	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,000,000</b>	<b>0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	335,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$335,000</b>								

# ROUTE 654, BEREA CHURCH ROAD IMPROVEMENTS

**Total Project Cost:** \$4,892,068

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives

- Redevelopment Plan
- Economic Development 10 Point Plan
- Comprehensive Plan

**PROGRAM DESCRIPTION**

Reconstruction of Berea Church Road from Truslow Road to Warrenton Road using VDOT 3R standards. Improvements will include improved shoulders, drainage and wider lanes. Bicycle accommodations will also be included in this project.



**OPERATING IMPACT SUMMARY**

This is a safety improvement, upon completion this will become a part of the VDOT secondary system.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	480,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	300,000	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	4,112,068	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$480,000</b>	<b>\$300,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,112,068</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	302,147	0	0	0	0	0	0	0	0	0	0
S D Supported GO Del	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	1,109,966	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	2,251,000	103,966	92,068	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	1,032,921	0	0	0	0	0	0
<b>Total</b>	<b>\$2,553,147</b>	<b>\$103,966</b>	<b>\$1,202,034</b>	<b>\$0</b>	<b>\$1,032,921</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# TECH CENTER DRIVE

**Total Project Cost:** \$2,600,000

**Est. Opening Date:** 2026

Links to Board's Strategic Initiatives

- Redevelopment Plan
- Comprehensive Plan
- Economic Development 10 Point

**PROGRAM DESCRIPTION**

Road Construction of a new entrance into Quantico Corporate Center, including improvements to the intersection with Telegraph Road.



**OPERATING IMPACT SUMMARY**

This is an Economic Development opportunity for the County.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	2,600,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$2,600,000</b>									

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	2,575,000
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	25,000
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	0	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	0	0	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$2,600,000</b>									

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# Route 608, Brooke Road, South of Eskimo Hill Road

**Total Project Cost:** \$7,214,900

**Est. Opening Date:** 2023

[Links to Board's Strategic Initiatives](#)

- Approved by voters in the 2008 referendum
- Comprehensive Plan

**PROGRAM DESCRIPTION**

Reconstruction of Brooke Road from 0.64 miles south of Eskimo Hill Road to 2.44 miles south of Eskimo Hill Road.

**OPERATING IMPACT SUMMARY**

A 2008 Transportation Bond Program project. Upon completion, VDOT becomes the owner of the improvement



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	650,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	990,002	0	0	0	0	0	1,934,998	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	3,639,900	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$1,640,002</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,934,998</b>	<b>\$3,639,900</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	3,400	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	96,681	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	899,902	0	0	0	0	0	2,787,449	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	640,019	0	0	0	1,600,000	1,187,449	0	0	0
<b>Total</b>	<b>\$999,983</b>	<b>\$0</b>	<b>\$640,019</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,387,449</b>	<b>\$1,187,449</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# Route 616, Poplar Road, North of Truslow Road

**Total Project Cost:** \$2,687,300

**Est. Opening Date:** 2016

Links to Board's Strategic Initiatives

- Approved by voters in the 2008 referendum
- Comprehensive Plan

## PROGRAM DESCRIPTION

Reconstruct Poplar Road from 0.10 miles north of Truslow Road to 0.50 miles north of Truslow Road.



## OPERATING IMPACT SUMMARY

A 2008 Transportation Bond Program project. Upon completion, VDOT becomes the owner of the improvement.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	311,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	844,000	0	0	0	0	0	0	0	0	0	0
Construction / Project	1,532,300	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$2,687,300</b>	<b>\$0</b>									

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Bonds	0	0	0	0	0	0	0	0	0	0	0
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Proffers	0	0	0	0	0	0	0	0	0	0	0
S D Supported GO Debt*	0	0	0	0	0	0	0	0	0	0	0
Service District	0	0	0	0	0	0	0	0	0	0	0
Fuel Tax	1,344,300	0	0	0	0	0	0	0	0	0	0
Revenue Sharing	1,000,000	343,000	0	0	0	0	0	0	0	0	0
State/Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$2,344,300</b>	<b>\$343,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									



## SCHOOLS SUMMARY OF ALL PROJECTS - ALL FUNDING SOURCES

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total This Period	Later Years Funding	Total Project Cost
New Construction	2,500,000	11,431,000	16,431,000	2,000,000	13,964,000	13,964,000	1,000,000	0	0	5,000,000	34,319,000	98,109,000	100,438,000	201,047,000
Renewal - Additions - Renovations	750,000	7,316,000	2,214,000	0	0	0	0	0	1,000,000	10,000,000	11,795,000	32,325,000	23,170,000	56,245,000
Support Facilities - New/Renovations	0	0	0	0	0	0	6,637,000	0	0	0	0	6,637,000	0	6,637,000
Capital Maintenance	0	14,950,000	8,932,587	9,435,000	8,790,000	9,985,000	12,987,415	10,705,000	9,340,000	11,285,000	8,610,000	105,020,002	0	105,020,002
<b>Total</b>	<b>\$3,250,000</b>	<b>\$33,697,000</b>	<b>\$27,577,587</b>	<b>\$11,435,000</b>	<b>\$22,754,000</b>	<b>\$23,949,000</b>	<b>\$20,624,415</b>	<b>\$10,705,000</b>	<b>\$10,340,000</b>	<b>\$26,285,000</b>	<b>\$54,724,000</b>	<b>\$242,091,002</b>	<b>\$123,608,000</b>	<b>\$368,949,002</b>

Funding Sources	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total
Construction Bond Funded Projects	16,747,000	16,431,000	2,000,000	13,964,000	13,964,000	7,637,000	-	1,000,000	15,000,000	46,114,000	132,857,000
Construction Cash Funded Projects	2,000,000	2,214,000	0	0	0	0	0	0	0	0	4,214,000
<b>Total Construction Projects</b>	<b>\$18,747,000</b>	<b>\$18,645,000</b>	<b>\$2,000,000</b>	<b>\$13,964,000</b>	<b>\$13,964,000</b>	<b>\$7,637,000</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$15,000,000</b>	<b>\$46,114,000</b>	<b>\$137,071,000</b>
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
State Federal	0	0	0	0	0	0	0	0	0	0	0
Impact Fees	0	0	0	0	0	0	0	0	0	0	0
In-Kind	0	0	0	0	0	0	0	0	0	0	0
Infrastructure Bond Funded	3,550,000	1,217,587	3,350,000	3,400,000	3,455,000	5,582,413	4,900,000	5,135,000	4,700,000	4,450,000	39,740,000
Infrastructure Cash Funded	11,400,000	7,715,000	6,085,000	5,390,000	6,530,000	7,405,002	5,805,000	4,205,000	6,585,000	4,160,000	65,280,002
<b>Total School Projects</b>	<b>\$33,697,000</b>	<b>\$27,577,587</b>	<b>\$11,435,000</b>	<b>\$22,754,000</b>	<b>\$23,949,000</b>	<b>\$20,624,415</b>	<b>\$10,705,000</b>	<b>\$10,340,000</b>	<b>\$26,285,000</b>	<b>\$54,724,000</b>	<b>\$242,091,002</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	594,000	618,000	642,000	668,000	695,000	722,000	751,000	781,000	813,000
Operating	0	472,000	491,000	531,000	531,000	552,000	597,000	621,000	646,000	672,000
Debt Service	0	1,698,000	3,175,000	3,623,000	5,076,000	6,533,000	7,639,000	8,049,000	8,563,000	10,211,000
Revenue	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$2,764,000</b>	<b>\$4,284,000</b>	<b>\$4,796,000</b>	<b>\$6,275,000</b>	<b>\$7,780,000</b>	<b>\$8,958,000</b>	<b>\$9,421,000</b>	<b>\$9,990,000</b>	<b>\$11,696,000</b>

## SCHOOLS SUMMARY - BOND FUNDED PROJECTS

Projects	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total This Period
Moncure Elementary Rebuild	\$ 9,431,000	\$16,431,000	\$ 1,000,000								26,862,000
Ferry Farm Elementary Rebuild			\$ 1,000,000	\$13,964,000	\$13,964,000	1,000,000					29,928,000
Elementary #18										\$ 1,000,000	1,000,000
High School #6									\$ 5,000,000	\$ 33,319,000	38,319,000
Mt. View HS Addition	\$ 7,316,000										7,316,000
Hartwood Elementary Renovation								\$ 1,000,000	\$10,000,000	\$ 10,795,000	21,795,000
Drew MS Renovation										\$ 1,000,000	1,000,000
Fleet Services						\$ 6,637,000					6,637,000
Infrastructure	\$3,550,000	\$1,217,587	\$3,350,000	\$3,400,000	\$3,455,000	\$5,582,413	\$4,900,000	\$5,135,000	\$4,700,000	\$4,450,000	39,740,000
Total	\$20,297,000	\$17,648,587	\$5,350,000	\$17,364,000	\$17,419,000	\$13,219,413	\$4,900,000	\$6,135,000	\$19,700,000	\$50,564,000	\$172,597,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Debt Service	0	1,698,000	3,175,000	3,623,000	5,076,000	6,533,000	7,639,000	8,049,000	8,563,000	10,211,000
Total	\$0	\$1,698,000	\$3,175,000	\$3,623,000	\$5,076,000	\$6,533,000	\$7,639,000	\$8,049,000	\$8,563,000	\$10,211,000

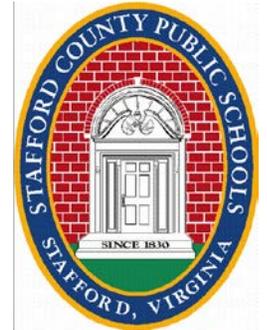
## REBUILD MONCURE ELEMENTARY SCHOOL

**Total Project Cost:** \$31,362,000

**Est. Opening Date:** 2018

**PROGRAM DESCRIPTION**

Construct a 986 student elementary school for grades Pre-K through 5 to replace the existing Moncure Elementary. The Rebuild Moncure Elementary School Project will include the construction of the school building (\$185/SF), the development of the site, all planning & design requirements, all support furnishing, furniture & equipment and technology infrastructure. Juggins Road Improvements will be administered by Stafford County which will enable the County to apply for state Revenue Sharing matching funds. The school will be constructed with classrooms and core facilities to accommodate 986 students and follow the 2015 Stafford County Public Schools Elementary School Education Specification. The school will adhere to the Stafford County Public Schools Facility Design Standards, including pursuing LEED Silver Certification. Site location will be located off Juggins Road. In order to open the new Moncure Elementary School in September 2018 the following milestones must be achieved: Design must start no later than January 2016 and be completed no later than December 2016. School & Site development must start March 2017 and be complete by May 2018. The existing Moncure ES and site will be turned over to Stafford County per School Board/Board of Supervisors approved MOU.



**OPERATING IMPACT SUMMARY**

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**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	800,000	1,724,000	0	0	0	0	0	0	0	0	0
Property Acquisition	1,700,000	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	9,707,000	14,538,000	1,000,000	0	0	0	0	0	0	0
Hardware/Software	0	0	505,000	0	0	0	0	0	0	0	0
Equipment	0	0	631,000	0	0	0	0	0	0	0	0
Contingency	0	0	757,000	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$2,500,000</b>	<b>\$11,431,000</b>	<b>\$16,431,000</b>	<b>\$1,000,000</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	1,700,000	2,000,000	0	0	0	0	0	0	0	0	0
Bonds	800,000	9,431,000	16,431,000	1,000,000	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$2,500,000</b>	<b>\$11,431,000</b>	<b>\$16,431,000</b>	<b>\$1,000,000</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service		789,000	2,164,000	2,248,000	2,248,000	2,248,000	2,248,000	2,248,000	2,248,000	2,248,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$789,000</b>	<b>\$2,164,000</b>	<b>\$2,248,000</b>						

# REBUILD FERRY FARM ELEMENTARY SCHOOL

**Total Project Cost:** \$29,928,000

**Est. Opening Date:** 2021

**PROGRAM DESCRIPTION**

Construct a 786 student elementary school for grades Pre-K through 5 to replace the existing Ferry Farm Elementary School. The Rebuild Ferry Farm Elementary School Project will include construction of the school building (\$185/SF) on the existing campus, the development of the site, including demolition of the existing building and site, all planning & design requirements, all support furnishing, furniture and equipment and technology infrastructure. The school will be constructed with classrooms and core facilities to accommodate 786 students and follow the 2015 Stafford County Public School Elementary School Education Specification. The school will adhere to the Stafford County Public School Facility Design Standards, including pursuing a LEED silver certification. Rebuild will be sited on the existing Ferry Farm Campus in a manner as to allow the Division to keep the existing Ferry Farm Elementary School operational during construction of the new school. In order to open the new of Ferry Farm Elementary School in September 2021, the following milestones must be achieved: Design must start no later than October 2018 and be completed no later than November 2019. School and site development must start March 2020 and building must be complete by May 2021. Existing Ferry Farm Elementary School and parking will be demolished starting July/August 2021 and be completed by July 2022.



**OPERATING IMPACT SUMMARY**

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**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	1,000,000	1,526,000	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	12,438,000	11,817,000	1,000,000	0	0	0	0
Hardware/Software	0	0	0	0	0	758,000	0	0	0	0	0
Equipment	0	0	0	0	0	631,000	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	758,000	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$13,964,000</b>	<b>\$13,964,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	1,000,000	13,964,000	13,964,000	1,000,000	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$13,964,000</b>	<b>\$13,964,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	84,000	1,252,000	2,420,000	2,504,000	2,504,000	2,504,000	2,504,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$84,000</b>	<b>\$1,252,000</b>	<b>\$2,420,000</b>	<b>\$2,504,000</b>	<b>\$2,504,000</b>	<b>\$2,504,000</b>	<b>\$2,504,000</b>

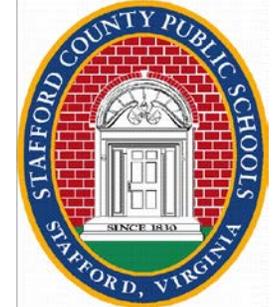
## ELEMENTARY SCHOOL #18

**Total Project Cost:** \$20,516,000

**Est. Opening Date:** 2027

**PROGRAM DESCRIPTION**

Construct a 986 student elementary for grades Pre-K through 5. ES#18 will include the construction of the school building (\$200/SF), development of the site, all planning and design requirements, all support furnishing, furniture and equipment and technology infrastructure. ES #18 will be constructed will accommodate 986 students, The school construction will follow the 2015 SCPS Elementary Education Specifications. The school will adhere to SCPS Facility Design Standards including pursuing LEED Silver certification. Site location is currently identified in the Embrey Mill Subdivision on land proffered to Stafford County Public Schools by the developer. In order to open ES #18 in September 2027, the following milestones must be achieved. Design must be started by November 2024 and completed no later than December 2025. School & site development must start March 2026 and complete by May 2027.



**OPERATING IMPACT SUMMARY**

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**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	1,000,000
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	0
Hardware/Software	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	1,000,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

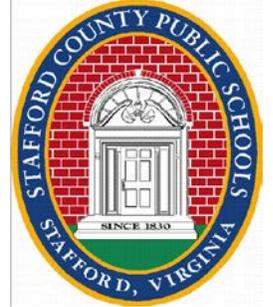
## High School #6

**Total Project Cost:** \$120,323,000

**Est. Opening Date:** 2028

**PROGRAM DESCRIPTION**

Construct a 2100 student high school for grades 9 through 12. A new high school will be needed to accommodate student growth projected in the County. HS #6 will include the construction of the school building, the development of the site including all athletic fields, outbuildings, SWM, parking lots and service roads, all planning and design requirements, all support furnishing, furniture and equipment and technology infrastructure. The school will be constructed with classrooms and core facilities to accommodate 2100 students and follow the most current Stafford County Public School High School Education Specification. The school will adhere to the Stafford County Public School Facility Design Standards including pursuing LEED Silver certification. Site location is currently identified for the Westlake Subdivision on land proffered to Stafford County Public Schools by the developer. In order to open High School #6 in September 2028 the following milestones must be achieved: Design must start no later than September 2024 and be completed no later than November 2025. School and site development must start no later than March 2026 and be completed no later than May 2028. Total SF 290,000 @ \$200/SF and includes site work. Site work is estimated at approximately \$15M.



**OPERATING IMPACT SUMMARY**

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**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	5,000,000	4,704,000
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	28,615,000
Hardware/Software	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$33,319,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	5,000,000	33,319,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$33,319,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	418,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$418,000

## Addition - (Classroom, PE/Health, Security Vestibule & Fine Arts) - Mountain View High School

**Total Project Cost:** \$8,066,000

**Est. Opening Date:** 2017

**PROGRAM DESCRIPTION**

Project includes the construction of classroom, PE/Health, & Fine Arts and security vestibule additions at Mountain View High School. The addition will increase the student design capacity from 1800 students to 2000 students. Mountain View High School Additions will include six (6) additional classrooms, an expansion of the PE Department with two (2) classrooms, and an expanded wellness room and the addition of a third fine arts suite for orchestra and two drama classrooms. There will also be the addition of a security vestibule at the Main Entrance.



**OPERATING IMPACT SUMMARY**

Operating impact includes funding for 8 new teachers and additional energy costs.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	633,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	117,000	6,210,000	0	0	0	0	0	0	0	0	0
Hardware/Software	0	171,000	0	0	0	0	0	0	0	0	0
Equipment	0	245,000	0	0	0	0	0	0	0	0	0
Contingency	0	690,000	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$750,000</b>	<b>\$7,316,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	750,000	7,316,000	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$750,000</b>	<b>\$7,316,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	594,000	618,000	642,000	668,000	695,000	722,000	751,000	781,000	813,000
Operating	0	472,000	491,000	531,000	531,000	552,000	574,000	597,000	621,000	646,000
Debt Service	0	612,000	612,000	612,000	612,000	612,000	612,000	612,000	612,000	612,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$1,678,000</b>	<b>\$1,721,000</b>	<b>\$1,785,000</b>	<b>\$1,811,000</b>	<b>\$1,859,000</b>	<b>\$1,908,000</b>	<b>\$1,960,000</b>	<b>\$2,014,000</b>	<b>\$2,071,000</b>

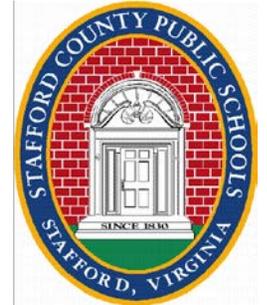
## Renovate Library - North Stafford High School

**Total Project Cost:** \$2,214,000

**Est. Opening Date:** 2018

**PROGRAM DESCRIPTION**

Project includes a comprehensive renovation of North Stafford library area, including the construction of a maker space area for collaboration and project based learning, flexible computer lab and introduction of state of the art technology infrastructure. The renovation will include replacement of all interior finishes including carpet, ceiling and walls, lighting, HVAC system, new furnishings and shelving.



**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	110,000	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	1,820,000	0	0	0	0	0	0	0	0
Hardware/Software	0	0	75,000	0	0	0	0	0	0	0	0
Equipment	0	0	100,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	109,000	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$2,214,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	2,214,000	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$2,214,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

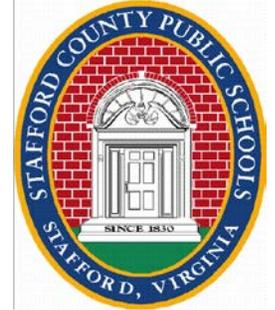
## RENOVATION - HARTWOOD ELEMENTARY SCHOOL (2025 - 2026)

**Total Project Cost:** \$21,795,000

**Est. Opening Date:** 2026

**PROGRAM DESCRIPTION**

Level 3 Renovation of Hartwood ES will include an upgrade and modernization to the following building systems: Life safety deficiencies, building codes to include fire suppression sprinkler system, HVAC systems, electrical systems, architectural (finishes, doors, hardware, windows), ADA, plumbing systems, fire alarm systems, data systems, PA systems, and lighting systems. There will also be a planned Library and Support Area addition. No capacity expansion is currently planned. Renovation will follow 2015 Stafford County Public Schools Elementary Education Specification and adhere to the Stafford County Public Schools Facility Design Standards, including pursuing LEED Silver Certification. \*This project assumes that County water will be available to the site and possibly sanitary sewer at the same time or prior to the Renovation starting in 2024. Modularity to provide swing space to relocate students. Modularity will be leased and included as part of the project cost. \*\*Modular cost includes delivery, set up, and installation of up to ten (10) modulars, site work, permits and systems set up.



**OPERATING IMPACT SUMMARY**

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**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	
Planning/Design	0	0	0	0	0	0	0	0	1,000,000	740,000	0	
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0	
Construction / Project	0	0	0	0	0	0	0	0	0	9,260,000	8,142,000	
Hardware/Software	0	0	0	0	0	0	0	0	0	0	261,000	
Equipment	0	0	0	0	0	0	0	0	0	0	348,000	
Contingency	0	0	0	0	0	0	0	0	0	0	0	
Other	0	0	0	0	0	0	0	0	0	0	2,044,000	
<b>Total</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$10,000,000</b>	<b>\$10,795,000</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	1,000,000	10,000,000	10,795,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$10,000,000</b>	<b>\$10,795,000</b>							

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	84,000	921,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$84,000</b>	<b>\$921,000</b>							

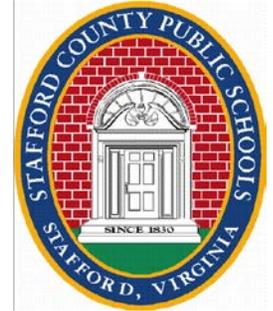
## RENOVATION/ADDITION - DREW MIDDLE SCHOOL 2028

**Total Project Cost:** \$24,170,000

**Est. Opening Date:** 2028

**PROGRAM DESCRIPTION**

Level 3 Renovation of Drew Middle School will include an upgrade and modernization to the following building systems: Life safety deficiencies, building codes to include fire suppression sprinkler system, HVAC systems, electrical systems, architectural (finishes, doors, hardware, windows), ADA, plumbing systems, fire alarm system, data systems, PA system, Library expansion and lighting. A small capacity expansion is planned. Renovation will follow the most current Stafford County Public Schools Middle School Education Specification and adhere to the Stafford County Public Schools Facility Design Standards. \*\*Modular cost includes delivery, set up, and installation of up to ten (10) modulares, site work, permits and systems set up. Modulares to provide swing space to relocate students. Modulares will be leased and included as part of the project cost.



**OPERATING IMPACT SUMMARY**

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**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	1,000,000
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	0
Hardware/Software	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	1,000,000
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

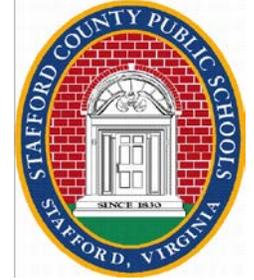
## ADDITION - (VEHICLE MAINTENANCE) FLEET SERVICES

**Total Project Cost:** \$6,637,000

**Est. Opening Date:** 2022

**PROGRAM DESCRIPTION**

Project provides for a new addition to Fleet Services Complex. The proposed addition will be added to the current Fleet Services Building. Addition will include 16,056 SF and include new service area, parts storage, administrative offices and 11,000 SF of heavy duty service area. Fuel Station relocation was completed, however, demolition of existing fueling building will be included in this project. Project design would start in FY21 with Construction starting in FY 22. County is responsible for 30% of the cost of this project. Schools portion is 70%.



**OPERATING IMPACT SUMMARY**

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**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	750,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	5,176,000	0	0	0	0
Hardware/Software	0	0	0	0	0	0	220,000	0	0	0	0
Equipment	0	0	0	0	0	0	276,000	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	215,000	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$6,637,000	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	6,637,000	0	0	0	0
Master Lease	0	0	0	0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$6,637,000	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	23,000	24,000	25,000	26,000
Debt Service	0	0	0	0	0	0	555,000	555,000	555,000	555,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$578,000	\$579,000	\$580,000	\$581,000

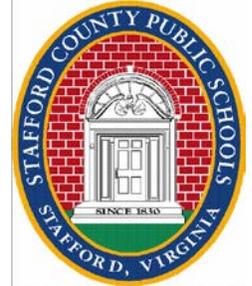
## CAPITAL MAINTENANCE - INFRASTRUCTURE

**Total Project Cost:** \$105,020,002

**Est. Opening Date:** 2017-2026

**PROGRAM DESCRIPTION**

Improvements and upgrades to various schools, facilities, equipment and grounds to correct deficiencies in safety, security, maintenance and repair.



**OPERATING IMPACT SUMMARY**

0

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
School Site Improvements	0	4,490,000	5,877,587	5,450,000	2,145,000	3,155,000	5,037,415	9,155,000	2,530,000	6,510,000	4,210,000
Pavement	0	2,050,000	1,700,000	1,350,000	2,400,000	2,450,000	1,050,000	1,050,000	650,000	550,000	1,050,000
Environmental Upgrades	0	7,810,000	875,000	1,825,000	3,775,000	1,330,000	3,100,000	350,000	3,480,000	4,075,000	1,200,000
Roof Replace/Repair	0	600,000	480,000	810,000	470,000	3,050,000	3,800,000	150,000	2,680,000	150,000	2,150,000
<b>Total</b>	\$0	\$14,950,000	\$8,932,587	\$9,435,000	\$8,790,000	\$9,985,000	\$12,987,415	\$10,705,000	\$9,340,000	\$11,285,000	\$8,610,000

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue		6,200,000	7,415,000	5,835,000	5,190,000	6,330,000	7,205,000	5,605,000	4,005,000	6,385,000	3,960,000
Bonds		3,550,000	1,217,587	3,350,000	3,400,000	3,455,000	5,582,415	4,900,000	5,135,000	4,700,000	4,450,000
Lease		5,000,000		0	0	0	0	0	0	0	0
Proffers/Capital Project Reserve				0	0	0	0	0	0	0	0
Nutrition		0	100,000	50,000	0	0	0	0	0	0	0
Perkins		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
State/Federal		0		0	0	0	0	0	0	0	0
<b>Total</b>		\$14,950,000	\$8,932,587	\$9,435,000	\$8,790,000	\$9,985,000	\$12,987,415	\$10,705,000	\$9,340,000	\$11,285,000	\$8,610,000

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	297,000	399,000	679,000	964,000	1,253,000	1,720,000	2,130,000	2,560,000	2,953,000
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$297,000	\$399,000	\$679,000	\$964,000	\$1,253,000	\$1,720,000	\$2,130,000	\$2,560,000	\$2,953,000

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### School Site Improvements

#### FY2017 Projects

	Project Amount	Funding Source
Repair Gym Floor & Bleachers - NSHS	\$850,000	Bond
Upgrade CTE Labs	\$200,000	Perkins
Replace Walk-In Freezer & Refrigerators - DMS	\$90,000	Current Revenue
Upgrade Fire Alarm Panel - AGWMS/GES	\$250,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$180,000	Current Revenue
Replace Storage Building - CFHS, HES, HOES, RES, RRES	\$235,000	Current Revenue
Construct Stairs at Football Stadium - RTMS	\$130,000	Current Revenue
Repair Stadium Sound System - NSHS	\$100,000	Current Revenue
Repair Bathroom Floor - ABES	\$60,000	Current Revenue
Repair Foundation (Waterproofing) - AYBAC	\$250,000	Current Revenue
Repair Stormwater Management - GMC	\$250,000	Current Revenue
Repair Field Drainage - MS	\$140,000	Current Revenue
Replace Lockers - SMS & BPHS	\$255,000	Current Revenue
Repair Phone, Media Retrieval & PA Systems - HOES	\$400,000	Current Revenue
Repair Phone, Media Retrieval & PA Systems - WCES	\$400,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Replace Generator - HOES	\$400,000	Current Revenue
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
	<hr/>	
<b>FY2017 Total</b>	<b>\$4,490,000</b>	

#### FY2018 Projects

	Project Amount	Funding Source
Repair Interior Finishes - AGWMS/GES - Phase I	\$1,217,587	Bond
Replace Walk-In Freezer & Refrigerators - WES & RES	\$100,000	Nutrition
Upgrade CTE Labs	\$200,000	Perkins
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Repair Exterior Envelope - NSHS	\$1,165,000	Current Revenue
Repair Exterior Envelope (Windows) and Board Room Overhang - AYBAC	\$220,000	Current Revenue
Repair Phone, Media Retrieval & PA Systems - KWBES	\$400,000	Current Revenue
Repair Stormwater Management - Various	\$50,000	Current Revenue
Construct Storage Buildings - TBGMS, WCES, RRES, KWBES, & AYBAC	\$170,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Construct Outdoor Classroom - GVES	\$400,000	Current Revenue
Install Storage Facility- Maintenance Complex	\$125,000	Current Revenue
Replace Generator - Maintenance Complex	\$150,000	Current Revenue
Replace Generator - RES	\$400,000	Current Revenue
Install Messaging Marquee - RTMS	\$50,000	Current Revenue
Repair Phone, Media Retrieval & PA Systems - SMS	\$400,000	Current Revenue
Repair Field Drainage - HS	\$200,000	Current Revenue
Repair Playground and Play Areas - One (1) School	\$80,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Repair Exterior (Paint) - Two (2) schools	\$200,000	Current Revenue
	<hr/>	
<b>FY2018 Total</b>	<b>\$5,877,587</b>	

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### FY2019 Projects

	Project Amount	Funding Source
Repair Gym Floor & Bleachers - AGWMS	\$950,000	Bond
Repair Interior Finishes - AGWMS/GES - Phase II	\$900,000	Bond
Replace Walk-In Freezer & Refrigerators - PRES	\$50,000	Nutrition
Upgrade CTE Labs	\$200,000	Perkins
Repair Exterior (Paint) - Two (2) Schools	\$220,000	Current Revenue
Repair Stormwater Management - Various	\$300,000	Current Revenue
Install Messaging Marquees - AGWMS/GES/RES (Manual)	\$50,000	Current Revenue
Install Turf Field - CFHS	\$900,000	Current Revenue
Replace Generator - WES	\$400,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Replace Generator - PRES	\$400,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Construct Storage Buildings - ABES, GVES & DSMS	\$200,000	Current Revenue
Construct Exterior Bleachers - DSMS	\$300,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - PRES	\$400,000	Current Revenue
Repair Playground & Play Area - ES	\$80,000	Current Revenue
	\$5,450,000	
<b>FY2019 Total</b>		

### FY2020 Projects

	Project Amount	Funding Source
Upgrade CTE Labs	\$200,000	Perkins
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - HES	\$400,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems- RRES	\$175,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Upgrade Aimee Building - SHS	\$250,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Repair Stormwater Management - Various	\$50,000	Current Revenue
Replace Generator - SMS	\$400,000	Current Revenue
Repair Playground & Play Area - ES	\$80,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$240,000	Current Revenue
	\$2,145,000	
<b>FY2020 Total</b>		

### FY2021 Projects

	Project Amount	Funding Source
Repair Interior Finishes - HHPMS - Phase I	\$500,000	Bond
Upgrade CTE Labs	\$200,000	Perkins
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - CFHS	\$250,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - TBGMS	\$200,000	Current Revenue
Repair Stormwater Management - Various	\$250,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Repair Exterior Envelope - WES	\$500,000	Current Revenue
Replace Generator - One (1) School	\$400,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Repair Phone Systems - VOIP - One (1) Location	\$150,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$275,000	Current Revenue
Repair Playground & Play Area - ES	\$80,000	Current Revenue
	\$3,155,000	
<b>FY2021 Total</b>		

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### FY2022 Projects

	Project Amount	Funding Source
Repair Interior Finishes - RES	\$1,182,415	Bond
Repair Interior Finishes - HHPMS - Phase II	\$1,400,000	Bond
Upgrade CTE Labs	\$200,000	Perkins
Repair Exterior Envelope - RES	\$500,000	Current Revenue
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - One School	\$250,000	Current Revenue
Repair Stormwater Management - Various	\$250,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Repair Phone Systems - VOIP - One (1) Location	\$150,000	Current Revenue
Replace Generator - One (1) School	\$400,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$275,000	Current Revenue
Repair Playground & Play Area - ES	\$80,000	Current Revenue
<b>FY2022 Total</b>	<b>\$5,037,415</b>	

### FY2023 Projects

	Project Amount	Funding Source
Repair Interior Finishes - BPHS	\$2,945,000	Bond
Repair Exterior Envelope - HHPMS	\$900,000	Bond
Repair Interior Finishes - PRES	\$1,055,000	Bond
Upgrade CTE Labs	\$200,000	Perkins
Repair Athletic Fields & Install Turf Field - NSHS	\$1,500,000	Current Revenue
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Repair Exterior Envelope - AGWMS-GES	\$500,000	Current Revenue
Repair Exterior Envelope - HOES	\$500,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - One School	\$250,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Repair Phone Systems - VOIP - One (1) Location	\$150,000	Current Revenue
Repair Stormwater Management - Various	\$50,000	Current Revenue
Repair Playground & Play Area - ES	\$80,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$275,000	Current Revenue
Replace Generator - One (1) School	\$400,000	Current Revenue
<b>FY2023 Total</b>	<b>\$9,155,000</b>	

### FY2024 Projects

	Project Amount	Funding Source
Upgrade CTE Labs	\$200,000	Perkins
Repair Athletic Fields - MVHS	\$500,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - One School	\$250,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Repair Phone Systems - VOIP - One (1) Location	\$150,000	Current Revenue
Repair Stormwater Management - Various	\$320,000	Current Revenue
Repair Playground & Play Area - ES	\$85,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$275,000	Current Revenue
Replace Generator - One (1) School	\$400,000	Current Revenue
<b>FY2024 Total</b>	<b>\$2,530,000</b>	

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### FY2025 Projects

	Project Amount	Funding Source
Repair Interior Finishes - WCES	\$1,000,000	Bond
Upgrade CTE Labs	\$200,000	Perkins
Repair Athletic Fields - BPHS	\$500,000	Current Revenue
Repair Interior Finishes - RTMS	\$1,700,000	Current Revenue
Repair Playground & Play Area - ES	\$85,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Repair Stormwater Management - SHS	\$1,500,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Repair Stormwater Management - Various	\$50,000	Current Revenue
Repair Phone Systems - VOIP - One (1) Location	\$150,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - One School	\$250,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$275,000	Current Revenue
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Replace Generator - One (1) School	\$450,000	Current Revenue
	<b>FY2025 Total</b>	
	<b>\$6,510,000</b>	

### FY2026 Projects

	Project Amount	Funding Source
Repair Interior Finishes - SMS	\$1,650,000	Bond
Upgrade CTE Labs	\$200,000	Perkins
Repair Playground & Play Area - ES	\$85,000	Current Revenue
Repair Stormwater Management - Various	\$300,000	Current Revenue
Repair Library - One (1) School	\$50,000	Current Revenue
Repair Stage Curtains	\$50,000	Current Revenue
Repair Phone Systems - VOIP - One (1) Location	\$150,000	Current Revenue
Replace Phone, Media Retrieval & PA Systems - One School	\$250,000	Current Revenue
Repair Athletic Fields - CFHS	\$500,000	Current Revenue
Repair Exterior (Paint) - Two (2) Schools	\$275,000	Current Revenue
Replacement of CCTV Cameras - Various Schools (IT)	\$250,000	Current Revenue
Replace Generator - One (1) School	\$450,000	Current Revenue
	<b>FY2026 Total</b>	
	<b>\$4,210,000</b>	
	<b>School Site Improvements FY2017-2026 Total</b>	
	<b>\$48,560,002</b>	

## Pavement

### FY2017 Projects

	Project Amount	Funding Source
Repair Pavement - GMC	\$500,000	Current Revenue
Construct Turn Lane - FES	\$50,000	Current Revenue
Repair Track - CFHS	\$700,000	Current Revenue
Repair Tracks (Miscellaneous) - MS	\$50,000	Current Revenue
Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)	\$400,000	Current Revenue
Repair Tennis Court - NSHS	\$350,000	Current Revenue
	<b>FY2017 Total</b>	
	<b>\$2,050,000</b>	

### FY2018 Projects

	Project Amount	Funding Source
Repair Track - MVHS	\$700,000	Current Revenue
Repair Tennis Courts - MS	\$100,000	Current Revenue
Repair Tennis Courts - MVHS	\$350,000	Current Revenue
Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)	\$400,000	Current Revenue
Repair Tracks (Miscellaneous) - MS-ES	\$150,000	Current Revenue
	<b>FY2018 Total</b>	
	<b>\$1,700,000</b>	

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### FY2019 Projects

Construct Bus Parking - Phase I - Fueling Station & Salt Storage - (TBD)  
 Repair Tracks (Miscellaneous) - MS-ES  
 Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)

	Project Amount	Funding Source
	\$800,000	Current Revenue
	\$150,000	Current Revenue
	\$400,000	Current Revenue
<b>FY2019 Total</b>	<b>\$1,350,000</b>	

### FY2020 Projects

Repair Pavement - PRES  
 Repair Pavement - SMS  
 Repair Pavement - AYBAC  
 Repair Tracks (Miscellaneous) - MS-ES  
 Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)  
 Repair Tennis Courts - CFHS

	Project Amount	Funding Source
	\$500,000	Current Revenue
	\$500,000	Current Revenue
	\$500,000	Current Revenue
	\$150,000	Current Revenue
	\$400,000	Current Revenue
	\$350,000	Current Revenue
<b>FY2020 Total</b>	<b>\$2,400,000</b>	

### FY2021 Projects

Repair Pavement - NSHS (Student Lot)  
 Repair Pavement - One (1) School  
 Construct Bus Parking - Phase II (TBD)  
 Repair Tracks (Miscellaneous) - MS-ES  
 Repair Tennis Courts - MS  
 Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)

	Project Amount	Funding Source
	\$600,000	Current Revenue
	\$500,000	Current Revenue
	\$700,000	Current Revenue
	\$150,000	Current Revenue
	\$100,000	Current Revenue
	\$400,000	Current Revenue
<b>FY2021 Total</b>	<b>\$2,450,000</b>	

### FY2022 Projects

Repair Tracks (Miscellaneous) - MS-ES  
 Repair Pavement One (1) School  
 Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)

	Project Amount	Funding Source
	\$150,000	Current Revenue
	\$500,000	Current Revenue
	\$400,000	Current Revenue
<b>FY2022 Total</b>	<b>\$1,050,000</b>	

### FY2023 Projects

Repair Pavement - One (1) School  
 Repair Tracks (Miscellaneous) - MS-ES  
 Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)

	Project Amount	Funding Source
	\$500,000	Current Revenue
	\$150,000	Current Revenue
	\$400,000	Current Revenue
<b>FY2023 Total</b>	<b>\$1,050,000</b>	

### FY2024 Projects

Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)  
 Repair Tracks (Miscellaneous) - MS-ES  
 Repair Tennis Courts - MS

	Project Amount	Funding Source
	\$400,000	Current Revenue
	\$150,000	Current Revenue
	\$100,000	Current Revenue
<b>FY2024 Total</b>	<b>\$650,000</b>	

### FY2025 Projects

Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)  
 Repair Tracks (Miscellaneous) - MS-ES

	Project Amount	Funding Source
	\$400,000	Current Revenue
	\$150,000	Current Revenue
<b>FY2025 Total</b>	<b>\$550,000</b>	

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### FY2026 Projects

Repair Pavement (Crack Seal, Pothole Repair, Paint Striping)  
 Repair Tracks (Miscellaneous) - MS-ES  
 Repair Pavement - One (1) School

	Project Amount	Funding Source
	\$400,000	Current Revenue
	\$150,000	Current Revenue
	\$500,000	Current Revenue
<b>FY2026 Total</b>	<b>\$1,050,000</b>	
<b>Pavement FY2017-2026 Total</b>	<b>\$14,300,000</b>	

### Environmental Upgrades

### FY2017 Projects

Repair Mechanical Systems (Rooftop Units) - GMC  
 Repair Mechanical Systems (HWH-Elevator-Boiler-Chiller-Univents) - HHPMS - Phase II  
 Energy Performance Program - Phase III  
 Repair Mechanical Systems - Various

	Project Amount	Funding Source
	\$500,000	Bond
	\$2,200,000	Bond
	\$5,000,000	Lease
	\$110,000	Current Revenue
<b>FY2017 Total</b>	<b>\$7,810,000</b>	

### FY2018 Projects

Repair Mechanical Systems (Chiller) - PRES  
 Repair Mechanical Systems - Various  
 Repair Mechanical Systems (Replace Building Automation Controls) - Various

	Project Amount	Funding Source
	\$250,000	Current Revenue
	\$325,000	Current Revenue
	\$300,000	Current Revenue
<b>FY2018 Total</b>	<b>\$875,000</b>	

### FY2019 Projects

Repair Mechanical Systems (AHU-VAV-Chiller-Kitchen A/C) - RES  
 Repair Mechanical Systems - Various

	Project Amount	Funding Source
	\$1,500,000	Bond
	\$325,000	Current Revenue
<b>FY2019 Total</b>	<b>\$1,825,000</b>	

### FY2020 Projects

Repair Mechanical Systems (VAV-Boilers-AHU-BAS-Elevator) - BPHS Phase I  
 Replace Package Units - FLEET  
 Repair Mechanical Systems - Various

	Project Amount	Funding Source
	\$3,400,000	Bond
	\$50,000	Current Revenue
	\$325,000	Current Revenue
<b>FY2020 Total</b>	<b>\$3,775,000</b>	

### FY2021 Projects

Repair Mechanical Systems (VAV-Boilers-AHU-BAS-Elevator) - BPHS Phase II  
 Repair Mechanical Systems - Various  
 Replace CTE Dust Collection Systems-Variou

	Project Amount	Funding Source
	\$755,000	Bond
	\$325,000	Current Revenue
	\$250,000	Current Revenue
<b>FY2021 Total</b>	<b>\$1,330,000</b>	

### FY2022 Projects

Repair Mechanical Systems (VAV-Chiller-AHU-Kitchen A/C) - PRES  
 Install Kitchen A/C - HOES  
 Install Kitchen A/C - WES  
 Repair Mechanical Systems -Various

	Project Amount	Funding Source
	\$2,000,000	Bond
	\$375,000	Current Revenue
	\$375,000	Current Revenue
	\$350,000	Current Revenue
<b>FY2022 Total</b>	<b>\$3,100,000</b>	

### FY2023 Projects

Repair Mechanical Systems -Various

	Project Amount	Funding Source
	\$350,000	Current Revenue
<b>FY2023 Total</b>	<b>\$350,000</b>	

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### FY2024 Projects

Repair Mechanical Systems (HWH-Heat pumps) - WCES  
 Repair Mechanical Systems - SMS  
 Install Kitchen A/C - AGWMS/GES  
 Repair Mechanical Systems -Various

	Project Amount	Funding Source
	\$1,255,000	Bond
	\$1,350,000	Bond
	\$500,000	Current Revenue
	\$375,000	Current Revenue
<b>FY2024 Total</b>	<b>\$3,480,000</b>	

### FY2025 Projects

Repair Mechanical Systems (Include Kitchen A/C) - NSHS Phase I  
 Repair Mechanical Systems (AHU, Chiller, Fans) - KWBES  
 Repair Mechanical Systems - AYBAC  
 Repair Mechanical Systems -Various

	Project Amount	Funding Source
	\$1,400,000	Bond
	\$1,650,000	Bond
	\$650,000	Bond
	\$375,000	Current Revenue
<b>FY2025 Total</b>	<b>\$4,075,000</b>	

### FY2026 Projects

Repair Mechanical Systems (Include Kitchen A/C) - NSHS Phase II  
 Repair Mechanical Systems -Various

	Project Amount	Funding Source
	\$800,000	Bond
	\$400,000	Current Revenue
<b>FY2026 Total</b>	<b>\$1,200,000</b>	

Environmental Upgrades FY2017-2026 Total **\$27,820,000**

## Roofs

### FY2017 Projects

Repair Roof - HES Area D & E Outbuilding (SS)  
 Repair Roof - HOES & GMC

	Project Amount	Funding Source
	\$450,000	Current Revenue
	\$150,000	Current Revenue
<b>FY2017 Total</b>	<b>\$600,000</b>	

### FY2018 Projects

Replace Roof - WES (Area B SS)  
 Repair Roof - Various

	Project Amount	Funding Source
	\$330,000	Current Revenue
	\$150,000	Current Revenue
<b>FY2018 Total</b>	<b>\$480,000</b>	

### FY2019 Projects

Replace Roof - FES (SS)  
 Replace Roof - RES (Area A SS)  
 Repair Roof - Various

	Project Amount	Funding Source
	\$320,000	Current Revenue
	\$340,000	Current Revenue
	\$150,000	Current Revenue
<b>FY2019 Total</b>	<b>\$810,000</b>	

### FY2020 Projects

Replace Roof - SES (Area E & Outbuildings SS)  
 Repair Roof - Various

	Project Amount	Funding Source
	\$320,000	Current Revenue
	\$150,000	Current Revenue
<b>FY2020 Total</b>	<b>\$470,000</b>	

### FY2021 Projects

Replace Roof - AGWMS/GES  
 Repair Roof - BPHS (Standing seam & Outbuildings)  
 Repair Roof - Various

	Project Amount	Funding Source
	\$2,200,000	Bond
	\$700,000	Current Revenue
	\$150,000	Current Revenue
<b>FY2021 Total</b>	<b>\$3,050,000</b>	

## CAPITAL MAINTENANCE - INFRASTRUCTURE

### FY2022 Projects

Repair Roof - AYBAC  
 Replace Roof - RTMS (SS-All areas)  
 Replace Roof - PRES (SS)  
 Repair Roof - Various

	Project Amount	Funding Source
	\$1,000,000	Bond
	\$2,300,000	Current Revenue
	\$350,000	Current Revenue
	\$150,000	Current Revenue
FY2022 Total	\$3,800,000	

### FY2023 Projects

Repair Roof - Various

	Project Amount	Funding Source
	\$150,000	Current Revenue
FY2023 Total	\$150,000	

### FY2024 Projects

Replace Roof - CFHS (Area A, B, & D-All outbuildings SS)  
 Repair Roof - Various

	Project Amount	Funding Source
	\$2,530,000	Bond
	\$150,000	Current Revenue
FY2024 Total	\$2,680,000	

### FY2025 Projects

Repair Roof - Various

	Project Amount	Funding Source
	\$150,000	Current Revenue
FY2025 Total	\$150,000	

### FY2026 Projects

Repair Roof - HOES (SS-All Areas)  
 Repair Roof - Various

	Project Amount	Funding Source
	\$2,000,000	Bond
	\$150,000	Current Revenue
FY2026 Total	\$2,150,000	
ROOFS FY2017-2026 Total	\$14,340,000	
CIP FY2017-2026 Grand Total	\$105,020,002	

The FY2017 - FY2026 CIP builds on the previously approved Capital Improvement Program. Many of the projects in this CIP were included in earlier plans. This year's plan includes the following new and updated projects.

## New or Updated Projects

### Utilities

- Additions: (additional \$8.2 M)
  - Abel Lake Dam Improvements
  - Austin Run Sewer Replacement through Stafford Village
  - Route 1 Sewer (Hidden Valley to Potomac Hills)
  - Maintenance equipment for operations
- Projects Accelerated
  - 370 Zone water PS and Centreport Water Tank - (2024 to 2019)
  - Aquia Creek PS and FM - (2022/25 to 2018/19)
- Project Removed or delayed to allow for additions/advances
  - Potomac Creek PS and FM - delayed
  - Radio Read Meter Program - removed

On December 18, 2014, Lake Mooney Reservoir and Water Treatment Facility began operation. The reservoir supplies water to the southern end of Stafford County and is the third source of water for the county. The lake provides a total of 12 million gallons per day.



Utilities Summary

Projects	Prior Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total CIP (FY17-26)	Later Years Funding	Total Project Cost
Water Projects	\$6,341,000	\$5,506,000	\$8,332,000	\$11,706,000	\$9,439,449	\$589,000	\$6,575,477	\$19,713,195	\$8,101,983	\$690,000	\$718,000	\$71,371,104	\$0	\$77,712,104
Wastewater Projects	4,719,000	10,334,000	17,904,295	15,419,346	6,351,000	13,112,000	4,458,569	17,932,900	5,700,727	5,935,509	6,168,774	\$103,317,120	0	\$108,036,120
Both Water/Wastewater	1,268,950	1,605,800	1,818,000	2,256,000	1,476,700	895,200	1,164,800	9,778,300	745,500	613,200	585,300	\$20,938,800	0	\$22,207,750
Total	\$12,329,000	\$17,445,800	\$28,054,295	\$29,381,346	\$17,267,149	\$14,596,200	\$12,198,846	\$47,424,395	\$14,548,210	\$7,238,709	\$7,472,074	\$195,627,000	\$0	\$207,956,000

Operating Impacts Summary	Existing Debt Service	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total Debt Service
Debt Service	\$7,556,214	\$494,946	\$1,244,838	\$1,575,962	\$0	\$378,147	\$179,528	\$3,189,538	\$126,486	\$0	\$0	
Total	\$7,556,214	\$8,051,160	\$9,295,999	\$10,871,961	\$10,871,961	\$11,250,107	\$11,429,635	\$14,619,173	\$14,745,659	\$14,745,659	\$14,745,659	\$14,745,659

Project Funding	Prior Funding	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total CIP (FY17-26)	Later Years	Total Project Cost
Availability Funded Projects	\$2,149,000	\$1,370,500	\$3,400,500	\$564,000	\$1,356,000	\$2,830,500	\$2,514,626	\$592,000	\$4,602,983	\$640,000	\$653,000	\$18,524,109	\$0	\$20,673,109
Bond Funded Projects	9,515,000	7,214,000	14,876,295	18,833,346	0	4,519,000	2,145,426	38,116,195	1,511,557	0	0	\$87,215,819	0	\$96,730,819
ProRata Funded Projects	329,000	609,500	3,260,500	5,033,500	4,981,500	3,910,000	1,141,000	773,450	546,364	562,755	579,637	21,398,205	0	\$21,727,205
Operations /User Fees	3,386,950	8,251,800	6,517,000	4,950,500	10,929,649	3,336,700	6,397,795	7,942,750	7,887,307	6,035,955	6,239,437	68,488,892	0	\$71,875,842
Total	\$15,380,000	\$17,445,800	\$28,054,295	\$29,381,346	\$17,267,149	\$14,596,200	\$12,198,846	\$47,424,395	\$14,548,210	\$7,238,709	\$7,472,074	\$195,627,000	\$0	\$211,007,000

(in millions of dollars)

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total CIP (FY17-26)	Later Years Funding	Total Project Cost
320 Zone Water Improvements	0	0	0	0	0	0	0	0	330,000	0	0	330,000	0	330,000
342 Zone Water System Imp. - Phase 1	0	0	7,800,000	7,800,000	0	0	0	0	0	0	0	15,600,000	0	15,600,000
342 Zone Water System Imp. - Phase 2	5,000,000	0	0	0	0	0	0	0	0	0	0	0	0	5,000,000
370N Water Booster Pump Station	0	0	0	120,000	1,070,000	0	0	0	0	0	0	1,190,000	0	1,190,000
Lake Mooney WTF Upgrade/Expansion	0	0	0	0	0	0	1,437,626	18,850,195	3,656,983	0	0	23,944,804	0	23,944,804
Abel Lake Dam Improvements	0	4,250,000	0	0	0	0	0	0	0	0	0	4,250,000	0	4,250,000
Centreport Water Tank	0	0	0	168,000	3,304,000	0	0	0	0	0	0	3,472,000	0	3,472,000
Moncure Water Booster Pump Station	0	0	105,000	1,609,000	0	0	0	0	0	0	0	1,714,000	0	1,714,000
Berea Water Tank Removal	0	200,000	0	0	0	0	0	0	0	0	0	200,000	0	200,000
Regional Water Interconnection	0	0	0	0	0	0	0	225,000	3,451,000	0	0	3,676,000	0	3,676,000
Small Water Projects	234,000	0	0	546,000	0	0	234,000	0	0	0	0	780,000	0	1,014,000
Smith Lake Distribution PS Upgrade	0	0	73,000	1,095,000	0	0	0	0	0	0	0	1,168,000	0	1,168,000
Smith Lake WTF Filter Replacements	780,000	716,000	0	0	0	0	0	0	0	0	0	716,000	0	1,496,000
Water Distribution System Rehab Program	104,000	108,000	112,000	116,000	304,000	316,000	329,000	342,000	356,000	370,000	385,000	2,738,000	0	2,842,000
Water Extension Projects	223,000	232,000	242,000	252,000	262,000	273,000	284,000	296,000	308,000	320,000	333,000	2,802,000	0	3,025,000
320 Zone Extension	0	0	0	0	774,179	0	0	0	0	0	0	774,179	0	774,179
320 Zone Elevated Storage Tank	0	0	0	0	1,845,547	0	0	0	0	0	0	1,845,547	0	1,845,547
342 Zone Piping	0	0	0	0	1,879,723	0	0	0	0	0	0	1,879,723	0	1,879,723
Truslow Road Piping	0	0	0	0	0	0	4,290,851	0	0	0	0	4,290,851	0	4,290,851
<b>Total</b>	<b>\$6,341,000</b>	<b>\$5,506,000</b>	<b>\$8,332,000</b>	<b>\$11,706,000</b>	<b>\$9,439,449</b>	<b>\$589,000</b>	<b>\$6,575,477</b>	<b>\$19,713,195</b>	<b>\$8,101,983</b>	<b>\$690,000</b>	<b>\$718,000</b>	<b>\$71,371,104</b>	<b>\$0</b>	<b>\$77,712,104</b>

## 320 ZONE WATER IMPROVEMENTS

**Total Project Cost:** \$330,000

**Est. Opening Date:** 2024

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

### PROGRAM DESCRIPTION

Replacement of 1,540 feet of 8" water line with a 12" line.



### OPERATING IMPACT SUMMARY

The Water & Sewer Master Plan recommends replacing the existing 8" line along Route 3 from Cool Spring Road to Ferry Road with a 12" line to improve fire flows and water service.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	27,000	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	303,000	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$330,000</b>	<b>\$0</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	330,000	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$330,000</b>	<b>\$0</b>	<b>\$0</b>							

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## 342 ZONE WATER SYSTEM IMPROVEMENTS - PHASE 1

**Total Project Cost:** \$15,600,000

**Est. Opening Date:** 2019

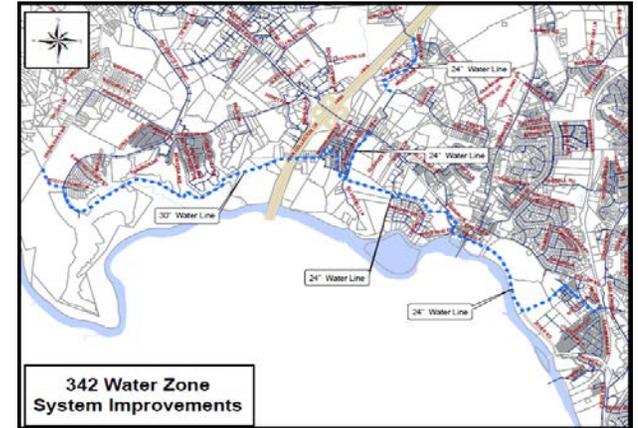
Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

### PROGRAM DESCRIPTION

The Water and Sewer Master Plan recommends construction of new 30" and 24" water lines from the new Lake Mooney Water Treatment Facility as well as replacement of older undersized water lines in the 342 water pressure zone to facilitate the transfer of water into the water distribution system. The project consists of 3 phases; phase 3 was started in FY14.

Phase 1 - construction of 15,300 feet of 24-inch water line to the east from Olde Forge Drive along Warrenton Road and Butler Road to Cool Spring Road and along Beagle Road, south of Truslow Road  
 Phase 2 - 17,600 feet of 30-inch water line from the intersection of Sanford Drive and Greenbank Road to the intersection of Olde Forge Drive and Warrenton Road



### OPERATING IMPACT SUMMARY

These improvements are critical to get water from the new Rocky Pen Run Water Treatment Facility into the distribution system as well as to provide adequate piping to transfer water as needed throughout the pressure zone. The project will be partially funded with water and sewer revenue bonds.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	7,800,000	7,800,000	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,800,000</b>	<b>\$7,800,000</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	7,800,000	7,800,000	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,800,000</b>	<b>\$7,800,000</b>	<b>\$0</b>						

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	478,854	957,708	957,708	957,708	957,708	957,708	957,708	957,708
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$478,854</b>	<b>\$957,708</b>						

## 342 ZONE WATER SYSTEM IMPROVEMENTS - PHASE 2

**Total Project Cost:** \$5,000,000

**Est. Opening Date:** 2019

Links to Board's Strategic Initiatives

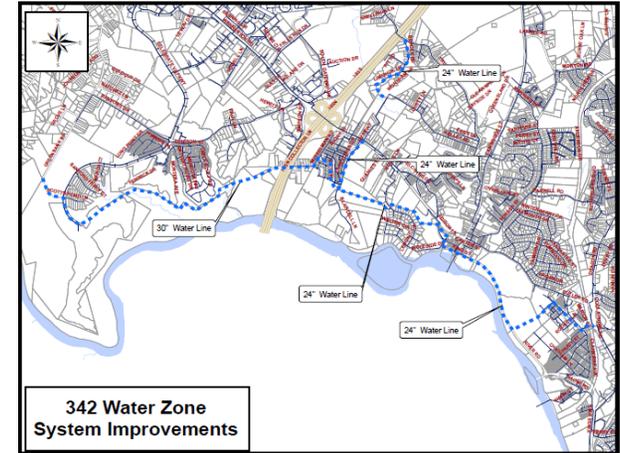
- Water and Sewer Master Plan

### PROGRAM DESCRIPTION

The Water and Sewer Master Plan recommends construction of new 30" and 24" water lines from the new Lake Mooney Water Treatment Facility as well as replacement of older undersized water lines in the 342 water pressure zone to facilitate the transfer of water into the water distribution system. The project consists of 3 phases; phase 3 was started in FY14.

Phase 1 - construction of 15,300 feet of 24-inch water line to the east from Olde Forge Drive along Warrenton Road and Butler Road to Cool Spring Road and along Beagle Road, south of Truslow Road

Phase 2 - 17,600 feet of 30-inch water line from the intersection of Sanford Drive and Greenbank Road to the intersection of Olde Forge Drive and Warrenton Road



### OPERATING IMPACT SUMMARY

These improvements are critical to get water from the new Rocky Pen Run Water Treatment Facility into the distribution system as well as to provide adequate piping to transfer water as needed throughout the pressure zone. The project will be partially funded with water and sewer revenue bonds.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	5,000,000	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$5,000,000</b>	<b>\$0</b>									

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	5,000,000	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$5,000,000</b>	<b>\$0</b>									

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## 370N WATER BOOSTER PUMP STATION

**Total Project Cost:** \$1,190,000

**Est. Opening Date:** 2020

### PROGRAM DESCRIPTION

Construction of a 2.0 million gallons per day water pump station near Mountain View Road and Centreport Parkway to move water from the 342 water pressure zone to the 370N water pressure zone.

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan



### OPERATING IMPACT SUMMARY

The Water & Sewer Master Plan recommends the construction of a new water booster pump station after completion of the Lake Mooney Water Treatment Facility to move water into the 370N water pressure zone. (Project 370N-201)

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	120,000	1,070,000	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$120,000</b>	<b>\$1,070,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	60,000	535,000	0	0	0	0	0	0
Availability Fees	0	0	0	60,000	535,000	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$120,000</b>	<b>\$1,070,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# LAKE MOONEY WTF UPGRADE AND EXPANSION

**Total Project Cost:** \$23,944,804

**Est. Opening Date:** 2024

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

**PROGRAM DESCRIPTION**

This project will expand the Lake Mooney Water Treatment Facility by constructing an addition to the process building to house additional Super Pulsator Filters and other equipment. Also, additional filter modules will be added to increase the water production capacity to 15 or 20 million gallons per day. Prior to proceeding with this project, a more current analysis will be made to determine whether expansion of Lake Mooney or replacement of the Abel Lake Water Treatment Facility is the better course of action given the circumstances at the time.



**OPERATING IMPACT SUMMARY**

Project will provide additional water treatment capacity necessary to continue to meet average and peak day water demands.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	1,437,626	18,850,195	3,656,983	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,437,626</b>	<b>\$18,850,195</b>	<b>\$3,656,983</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	18,850,195	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	1,437,626	0	3,656,983	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,437,626</b>	<b>\$18,850,195</b>	<b>\$3,656,983</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	1,157,243	1,157,243	1,157,243
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$1,157,243</b>	<b>\$1,157,243</b>	<b>\$1,157,243</b>						

# ABEL LAKE DAM IMPROVEMENTS

**Total Project Cost:** \$4,250,000

**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

**PROGRAM DESCRIPTION**

Due to changes in the State Code relating to Inundation Zones, State Mandates require that we improve the spillways of the Abel Lake dam to eliminate the possibility of erosion during a Maximum Probable Flow event. This includes design and recommendations for armoring the spillway and construction of the recommended improvements. These improvements will be required as a part of our Certificate to Operate the dam. This source of water will be required sometime between 2025 and 2030; therefore, it is important to maintain this dam and water source.



**OPERATING IMPACT SUMMARY**

The purpose of this project is to meet required federal regulations.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	250,000	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	4,000,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$4,250,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	4,250,000	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$4,250,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# CENTREPORT WATER TANK

**Total Project Cost:** \$3,472,000

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

New 1 million gallon water storage tank to be located in the Centreport area to serve the 370N water pressure zone.

**OPERATING IMPACT SUMMARY**

Along with the new Courthouse Area Water Tank, this will provide two tanks serving the 370N water pressure zone. This will provide additional fire suppression capabilities and increased water pressure in the area around the Stafford Regional Airport and Centreport. In addition, the new tank will provide a second water storage facility for the 370N water pressure zone which will allow one tank to be taken out of service for maintenance or painting without affecting the reliability of the water distribution system.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	168,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	3,304,000	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$168,000</b>	<b>\$3,304,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	84,000	1,652,000	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	84,000	1,652,000	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$168,000</b>	<b>\$3,304,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# MONCURE WATER BOOSTER PUMP STATION

**Total Project Cost:** \$1,714,000

**Est. Opening Date:** 2019

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Upgrade of water booster pump station to meet increased water demands in the 433 and 472 water pressure zones which serve the northern part of the county as well as the Camp Barrett area of Quantico.



**OPERATING IMPACT SUMMARY**

Upgrade will provide additional pumping capacity and pump redundancy to maintain our ability to meet increased water demands.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	105,000	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	1,609,000	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$105,000</b>	<b>\$1,609,000</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	105,000	804,500	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	804,500	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$105,000</b>	<b>\$1,609,000</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# BEREA WATER TANK REMOVAL

**Total Project Cost:** \$200,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

The Berea Water Tank has come to the end of its useful life and will be removed after the completion of the Celebrate Virginia Water Tank. This process will include the removal of any lead based paint before demolition.

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	200,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	200,000	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0

# REGIONAL WATER INTERCONNECTION

**Total Project Cost:** \$3,676,000

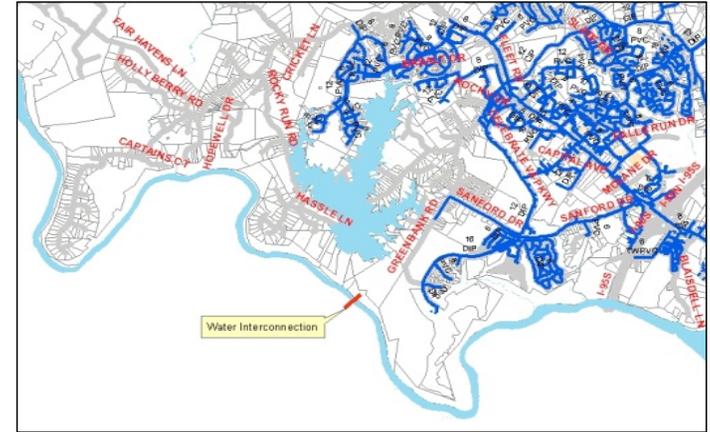
**Est. Opening Date:** 2024

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

## PROGRAM DESCRIPTION

Emergency water interconnection with Spotsylvania County in the vicinity of the Rocky Pen Run Water Treatment Facility and the Motts Run Water Treatment Facility. This will enable the transfer of treated water from one locality to the other at up to 5 to 10 MGD. Stafford and Spotsylvania are expected to each cover 40% of the total project cost, and Fredericksburg is expected to cover the remaining 20% of the cost. This CIP project is for Stafford's 40% of the total cost.



## OPERATING IMPACT SUMMARY

The project will greatly increase our capability to transfer treated water to or from Spotsylvania on an emergency basis and will enhance the reliability of each locality's water distribution system. We are currently limited to a transfer capacity of approximately 1.5 mgd through the existing Chatham and Falmouth interconnections with the City of Fredericksburg.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	225,000	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	3,451,000	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$225,000</b>	<b>\$3,451,000</b>	<b>\$0</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	225,000	3,451,000	0	0
<b>Total</b>	<b>\$0</b>	<b>\$225,000</b>	<b>\$3,451,000</b>	<b>\$0</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## SMALL WATER PROJECTS

**Total Project Cost:** \$1,014,000

**Est. Opening Date:** Various

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

### PROGRAM DESCRIPTION

1. Washington Gardens Water Line - construction of 800 feet of 12" water line to connect the 12" main on Cambridge Street to the 12" main on Lightning Maple Lane at an estimated cost of \$234,000 - FY22
2. 480/410 Zone Pressure Reducing Valves - installation of pressure reducing valve vaults to provide for transfer of water from the 480 water pressure zone to the 410 water pressure zone as needed at an estimated cost of \$546,000 - FY19

### OPERATING IMPACT SUMMARY

These projects improve fire suppression flows and provide additional water transmission capacity.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	234,000	0	0	546,000	0	0	234,000	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$234,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$546,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$234,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	117,000	0	0	273,000	0	0	117,000	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	117,000	0	0	273,000	0	0	117,000	0	0	0	0
<b>Total</b>	<b>\$234,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$546,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$234,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	0	0	0	0	0	0	0	0
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>									



# SMITH LAKE DISTRIBUTION PUMP STATION UPGRADE

**Total Project Cost:** \$1,168,000

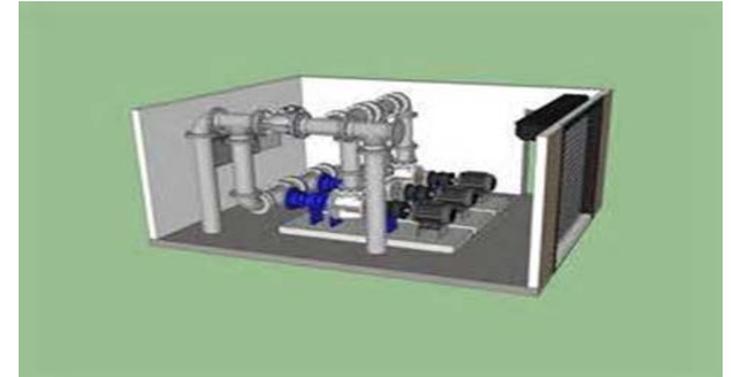
**Est. Opening Date:** 2019

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

## PROGRAM DESCRIPTION

Upgrades to the Smith Lake Distribution Pump Station are needed due to age and also due to the need to increase the pumping capacity from 13 MGD to 15 MGD. This pump station pumps all of the water produced at the Smith Lake Water Treatment Facility out into the water distribution system.



## OPERATING IMPACT SUMMARY

The upgrade of this water pump station is critical to maintaining our ability to meet water demand, even on peak usage days.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	73,000	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	1,095,000	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$73,000</b>	<b>\$1,095,000</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	36,500	547,500	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	36,500	547,500	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$73,000</b>	<b>\$1,095,000</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# SMITH LAKE WATER TREATMENT FACILITY FILTER REPLACEMENTS

**Total Project Cost:** \$1,496,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

## PROGRAM DESCRIPTION

Replacement of Greenleaf filters. The existing filters are 22 years old, and need to be replaced to maintain filtration performance.



## OPERATING IMPACT SUMMARY

Replacement of the existing filters should result in increased run times and reduced backwash water needs.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	780,000	716,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$780,000</b>	<b>\$716,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	780,000	716,000	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$780,000</b>	<b>\$716,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# WATER DISTRIBUTION SYSTEM REHABILITATION PROGRAM

**Total Project Cost:** \$2,842,000

**Est. Opening Date:** Ongoing Program

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

Replacement of deteriorating, corroded and under-sized water mains to avoid pipe failures, minimize water quality complaints and enhance the ability to move water where it is needed in a timely manner. Also, installation of additional valves and fire hydrants to minimize the number of customers affected by water breaks and improve fire suppression capabilities. Will maintain water distribution system reliability and enhance fire suppression capabilities.



## OPERATING IMPACT SUMMARY

Improvements will avoid pipe failures and subsequent interruptions in service to our customers as well as minimize water quality complaints.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	104,000	108,000	112,000	116,000	304,000	316,000	329,000	342,000	356,000	370,000	385,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$104,000</b>	<b>\$108,000</b>	<b>\$112,000</b>	<b>\$116,000</b>	<b>\$304,000</b>	<b>\$316,000</b>	<b>\$329,000</b>	<b>\$342,000</b>	<b>\$356,000</b>	<b>\$370,000</b>	<b>\$385,000</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	104,000	108,000	112,000	116,000	304,000	316,000	329,000	342,000	356,000	370,000	385,000
<b>Total</b>	<b>\$104,000</b>	<b>\$108,000</b>	<b>\$112,000</b>	<b>\$116,000</b>	<b>\$304,000</b>	<b>\$316,000</b>	<b>\$329,000</b>	<b>\$342,000</b>	<b>\$356,000</b>	<b>\$370,000</b>	<b>\$385,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# WATER EXTENSION PROJECTS

**Total Project Cost:** \$3,025,000

**Est. Opening Date:** Ongoing

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Short Water Extension Projects, Neighborhood Projects, and Large Scale Projects that qualify for the extension of water service under the County's Water & Sewer Line Extension Policy (R10-217).



**OPERATING IMPACT SUMMARY**

Provides a solution for residents with wells who may be experiencing problems with well water quantities or quality.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	223,000	232,000	242,000	252,000	262,000	273,000	284,000	296,000	308,000	320,000	333,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$223,000</b>	<b>\$232,000</b>	<b>\$242,000</b>	<b>\$252,000</b>	<b>\$262,000</b>	<b>\$273,000</b>	<b>\$284,000</b>	<b>\$296,000</b>	<b>\$308,000</b>	<b>\$320,000</b>	<b>\$333,000</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	223,000	232,000	242,000	252,000	262,000	273,000	284,000	296,000	308,000	320,000	333,000
<b>Total</b>	<b>\$223,000</b>	<b>\$232,000</b>	<b>\$242,000</b>	<b>\$252,000</b>	<b>\$262,000</b>	<b>\$273,000</b>	<b>\$284,000</b>	<b>\$296,000</b>	<b>\$308,000</b>	<b>\$320,000</b>	<b>\$333,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# 320 ZONE EXTENSION

**Total Project Cost:** \$774,179

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

This project involves design and construction of a 16-inch main from the existing 12-inch main along Kings Highway to the proposed water storage tank along Sherwood Forest Farm Road (3,219 feet). Typically, connecting pipes serving the water tanks are at least 16-inch or larger.

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

A 16-inch connecting pipe is proposed to provide flow to the 12-inch north and south of the connection on Kings Highway. The length of the water main serving the storage tank will be dependent on the location of the storage tank as determine by future siting studies.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	774,179	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$774,179</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	774,179	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$774,179</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## 320 ZONE ELEVATED WATER TANK

**Total Project Cost:** \$1,845,547

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

### PROGRAM DESCRIPTION

This is a 0.5 Million Gallon Storage Tank on Kings Highway near Sherwood Forest Farm Road.



### OPERATING IMPACT SUMMARY

The purpose of this tank is to enhance reliability and provide adequate fire flows (2,500 gpm) in the vicinity of the tank.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	1,845,547	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,845,547</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	1,845,547	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,845,547</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## 342 ZONE PIPING

**Total Project Cost:** \$1,879,723

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

### PROGRAM DESCRIPTION

This project includes design and construction of a 24-inch main along RV Parkway and Beagle Road to Truslow Road (5,579 feet).



### OPERATING IMPACT SUMMARY

The purpose of the project is to convey flows from the 30-inch main from Lake Mooney Water Treatment Plant to the 342 and 370N Zones.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	1,879,723	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,879,723</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	1,879,723	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,879,723</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# TRUSLOW ROAD PIPING

**Total Project Cost:** \$4,290,851

**Est. Opening Date:** 2022

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

**PROGRAM DESCRIPTION**

This project includes design and construction of a 24-inch water main along Truslow Road to Hulls Chapel Road (8,209 feet).



**OPERATING IMPACT SUMMARY**

The purpose of the project is to convey large quantities of flow from the Lake Mooney WTP to both the southern and northern zones in the water system. This project significantly increases both the reliability and flexibility of the overall system.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	4,290,851	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,290,851</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	2,145,426	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	2,145,426	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,290,851</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

Utilities Wastewater

Stafford County FY17 Adopted Budget

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total CIP (FY17-26)	Later Years Funding	Total Project Cost
Claiborne Run PS Parallel Force Main	0	381,000	5,833,000	0	0	0	0	0	0	0	0	6,214,000	0	6,214,000
Claiborne Run Pump Station Replacement	0	0	405,000	6,195,000	0	0	0	0	0	0	0	6,600,000	0	6,600,000
Country Ridge Pump Station Replacement	0	0	0	0	0	0	31,000	486,000	0	0	0	517,000	0	517,000
Equipment Replacement - Aquia WWTF	965,000	1,069,000	0	0	0	0	0	0	0	0	0	1,069,000	0	2,034,000
Falls Run Pump Station Replacement	0	0	0	0	280,000	4,282,000	0	0	0	0	0	4,562,000	0	4,562,000
Falls Run Sewer Interceptor Replacement - Phase 2	1,200,000	0	362,000	5,549,000	0	0	0	0	0	0	0	5,911,000	0	7,111,000
Austin Run Gravity Sewer Replacement	0	0	0	0	314,000	4,806,000	0	0	0	0	0	5,120,000	0	5,120,000
Austin Run Gravity Sewer Replacement through Stafford Village	85,000	300,000	0	0	0	0	0	0	0	0	0	300,000	0	385,000
Little Falls Run WWTF - 3rd Treatment Train	0	0	0	0	0	0	1,018,000	15,590,000	0	0	0	16,608,000	0	16,608,000
Olde Concord to Wayside 18" Gravity Construct	150,000	1,200,000	0	0	0	0	0	0	0	0	0	1,200,000	0	1,350,000
Construct Lower Accokeek PS	100,000	2,300,000	0	0	0	0	0	0	0	0	0	2,300,000	0	2,400,000
18" Gravity Accokeek Creek	100,000	1,050,000	435,000	0	0	0	0	0	0	0	0	1,485,000	0	1,585,000
Lower Accokeek FM	0	200,000	1,400,000	0	0	0	0	0	0	0	0	1,600,000	0	1,600,000
8" Gravity Trunk SE Quadrant	0	0	580,000	0	0	0	0	0	0	0	0	580,000	0	580,000
8" Extension of Existing Gravity from Stafford Hospital to PS	0	0	1,000,000	0	0	0	0	0	0	0	0	1,000,000	0	1,000,000
Rowser 10" Gravity Line	0	0	175,000	0	0	0	0	0	0	0	0	175,000	0	175,000
Wyche Rd 12" Gravity Line	0	0	350,000	0	0	0	0	0	0	0	0	350,000	0	350,000
Venture to Wyche Rd 12" Gravity Replacement	0	0	200,000	0	0	0	0	0	0	0	0	200,000	0	200,000
8" Extension of Existing Gravity North of Stafford Hospital	0	0	260,000	0	0	0	0	0	0	0	0	260,000	0	260,000
Potomac Creek Pump Station & Force Main Replacement	800,000	0	0	155,000	2,251,000	2,251,000	0	0	0	0	0	4,657,000	0	5,457,000
Sewer Extension Projects	223,000	232,000	242,000	252,000	262,000	273,000	284,000	296,000	308,000	320,000	320,000	2,789,000	0	3,012,000
Small Sewer Projects	347,000	438,000	0	0	0	0	0	0	0	0	0	438,000	0	785,000
Wastewater Collection System Rehabilitation Projects	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000	0	2,750,000
Wastewater Pump Station Rehabilitation Program	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000	0	2,750,000
Wastewater Pump Station Replacements	0	0	0	0	0	1,000,000	1,030,000	1,060,900	1,092,727	1,125,509	1,159,274	6,468,410	0	6,468,410
Wayside Sewer Interceptor Replacement	0	0	0	179,000	2,744,000	0	0	0	0	0	0	2,923,000	0	2,923,000
Hilldrup Pump Station	175,000	1,339,000	0	0	0	0	0	0	0	0	0	1,339,000	0	1,514,000
Hilldrup PS Force Main	74,000	1,125,000	0	0	0	0	0	0	0	0	0	1,125,000	0	1,199,000
Route 1 Sewer (Hidden Valley to Potomac Hills-5600 LF of 30")	0	200,000	3,400,000	0	0	0	0	0	0	0	0	3,600,000	0	3,600,000
Aquia Creek Force Main Replacement	0	0	0	2,589,346	0	0	0	0	0	0	0	2,589,346	0	2,589,346
Aquia Creek PS Expansion	0	0	2,762,295	0	0	0	0	0	0	0	0	2,762,295	0	2,762,295
Austin Run Interceptor Section Replacement	0	0	0	0	0	0	0	0	3,800,000	3,990,000	4,189,500	11,979,500	0	11,979,500
Camp Barrett SPS FM	0	0	0	0	0	0	1,595,569	0	0	0	0	1,595,569	0	1,595,569
<b>Total</b>	<b>\$4,719,000</b>	<b>\$10,334,000</b>	<b>\$17,904,295</b>	<b>\$15,419,346</b>	<b>\$6,351,000</b>	<b>\$13,112,000</b>	<b>\$4,458,569</b>	<b>\$17,932,900</b>	<b>\$5,700,727</b>	<b>\$5,935,509</b>	<b>\$6,168,774</b>	<b>\$103,317,120</b>	<b>\$0</b>	<b>\$108,036,120</b>

# CLAIBORNE RUN PUMP STATION PARALLEL FORCE MAIN

**Total Project Cost:** \$6,214,000

**Est. Opening Date:** 2018

**PROGRAM DESCRIPTION**

Construction of 35,600 feet of new parallel 24-inch force main. Additional capacity needed to accommodate flows from Southern Gateway and Falmouth Redevelopment Areas as well as Urban Development Areas in southern Stafford. Provides additional wastewater pumping capacity to convey higher wastewater volumes from the southern part of the County to the Little Falls Run Wastewater Treatment Facility.

**OPERATING IMPACT SUMMARY**

This pump station pumps all of the flow from south Stafford to the Little Falls Run Wastewater Treatment Facility. The additional force main is necessary to provide additional capacity needed to handle increased flows expected from the urban development and redevelopment areas in the southern part of the county. The project will be funded with water and sewer revenue bond proceeds.

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	381,000	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	5,670,000	0	0	0	0	0	0	0	0
Contingency	0	0	163,000	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$381,000</b>	<b>\$5,833,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	190,500	2,916,500	0	0	0	0	0	0	0	0
Availability fees	0	190,500	2,916,500	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$381,000</b>	<b>\$5,833,000</b>	<b>\$0</b>							

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# CLAIBORNE RUN PUMP STATION REPLACEMENT

**Total Project Cost:** \$6,600,000

**Est. Opening Date:** 2019

**PROGRAM DESCRIPTION**

Replacement of existing 8.1 MGD pump station with a new 30 MGD pump station. Original pump station was constructed in 1978 and is nearing end of its useful life. Additional capacity needed to accommodate flows from Southern Gateway and Falmouth Redevelopment Areas as well as Urban Development Areas in southern Stafford. Provides additional wastewater pumping capacity to convey higher wastewater volumes from the southern part of the county to the Little Falls Run Wastewater Treatment Facility. All of the wastewater generated in south Stafford passes through this pump station on its way to the Little Falls Run Wastewater Treatment Facility.

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

This pump station pumps all of the flow from south Stafford to the Little Falls Run Wastewater Treatment Facility. This project is necessary to provide additional capacity needed to handle increased flows expected from the urban development and redevelopment areas in the southern part of the county. This project will be funded with water and sewer revenue bond proceeds.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	78,000	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	327,000	6,195,000	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$405,000</b>	<b>\$6,195,000</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	202,500	3,097,500	0	0	0	0	0	0	0
ProRata Fees	0	0	202,500	3,097,500	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$405,000</b>	<b>\$6,195,000</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	15,567	253,691	253,691	253,691	253,691	253,691	253,691	253,691
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15,567</b>	<b>\$253,691</b>						

# COUNTRY RIDGE PUMP STATION REPLACEMENT

**Total Project Cost:** \$517,000

**Est. Opening Date:** 2023

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

Replacement of existing pump station due to condition and capacity issues. Project will include providing better access to the pump station as well as additional landscaping to minimize the station's impact on the surrounding community.

## OPERATING IMPACT SUMMARY

This project will not only provide better access to the pump station, but it will enable us to enhance the site the pump station is located on to lessen any adverse impact on the surrounding homes.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	31,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	472,000	0	0	0
Contingency	0	0	0	0	0	0	0	14,000	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$31,000</b>	<b>\$486,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	243,000	0	0	0
Availability	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	31,000	243,000	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$31,000</b>	<b>\$486,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	0	0	0	0	0	0	0	0
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>									

# EQUIPMENT REPLACEMENT - AQUIA WASTEWATER TREATMENT FACILITY

**Total Project Cost:** \$2,034,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Replacement of sludge dewatering centrifuges



**OPERATING IMPACT SUMMARY**

Maintains reliability of the wastewater treatment facility.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	965,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	1,069,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$965,000</b>	<b>\$1,069,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	965,000	1,069,000	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$965,000</b>	<b>\$1,069,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# FALLS RUN PUMP STATION REPLACEMENT

**Total Project Cost:** \$4,562,000

**Est. Opening Date:** 2021

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

Current pump station is rated at 9.4 MGD. Replacement station would be rated at 15.5 MGD. Additional capacity will be needed to accommodate flows from the Southern Gateway and Falmouth Redevelopment Areas. This project will convey increased wastewater volumes from the Warrenton Road corridor to the Claiborne Run Pump Station and ultimately to the Little Falls Run Wastewater Treatment Facility.

## OPERATING IMPACT SUMMARY

This project will provide the additional capacity necessary to handle increased wastewater flows from the Southern Gateway UDA and the Falmouth Redevelopment Area.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	280,000	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	4,282,000	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$280,000</b>	<b>\$4,282,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	140,000	2,141,000	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	140,000	2,141,000	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$280,000</b>	<b>\$4,282,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## FALLS RUN SEWER INTERCEPTOR REPLACEMENT - PHASE 2

**Total Project Cost:** \$7,111,000

**Est. Opening Date:** 2019

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

### PROGRAM DESCRIPTION

Project includes corrective work and upgrades to the sewer interceptor under I-95 in FY15 and replacement of 13,100 linear feet of 12" and 15" gravity sewer main along Falls Run with 24" pipe from the terminus of the 30" main near Stanstead Road near I-95 to the vicinity of Pennsbury Court in Cardinal Forest. The existing sewer interceptor was constructed in the 1970s of materials susceptible to hydrogen sulfide damage, a constituent commonly found in sewer systems. Changes in stream alignment have left some sections of the existing sewer interceptor exposed and/or subject to wash-out from high stream flow events. Upgrade will provide additional capacity for flows from the Southern Gateway Redevelopment Area. This project will provide additional capacity for future development west of I-95 and will also substantially reduce the likelihood of pipe failure and subsequent pollution of Falls Run.

### OPERATING IMPACT SUMMARY

Any additional development to the west of Cardinal Forest will necessitate replacement of the upper portion of the Falls Run Sewer Interceptor to increase the pipe size and capacity. The project will be funded with water and sewer revenue bond proceeds.



### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	1,200,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	362,000	5,549,000	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$1,200,000</b>	<b>\$0</b>	<b>\$362,000</b>	<b>\$5,549,000</b>	<b>\$0</b>						

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	1,200,000	0	362,000	5,549,000	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$1,200,000</b>	<b>\$0</b>	<b>\$362,000</b>	<b>\$5,549,000</b>	<b>\$0</b>						

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	27,829	454,415	454,415	454,415	454,415	454,415	454,415	454,415
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$27,829</b>	<b>\$454,415</b>						

# AUSTIN RUN GRAVITY SEWER REPLACEMENT

**Total Project Cost:** \$5,120,000

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

Replace 3,550 feet of existing asbestos cement sewer pipe with 36" diameter sewer adjacent to Austin Run. (General Sewer Improvement Plan Project A-18)

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**OPERATING IMPACT SUMMARY**

The Water and Sewer Master Plan recommends replacing this section of aging pipe operating near capacity with new pipe of modern materials and sized for buildout conditions to reduce chances of failure and meet expected commercial and residential demands from the service area along Route 610. The upgrade is also needed to accommodate increased flows expected from the Camp Barrett area of Quantico.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Planning/Design	0	0	0	0	314,000	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	4,666,000	0	0	0	0	0
Contingency	0	0	0	0	0	140,000	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$314,000</b>	<b>\$4,806,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	4,519,000	0	0	0	0	0
ProRata Fees	0	0	0	0	157,000	143,500	0	0	0	0	0
Availability Fees	0	0	0	0	157,000	143,500	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$314,000</b>	<b>\$4,806,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	347,403	347,403	347,403	347,403	347,403
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$347,403</b>	<b>\$347,403</b>	<b>\$347,403</b>	<b>\$347,403</b>	<b>\$347,403</b>

# AUSTIN RUN GRAVITY SEWER REPLACEMENT THROUGH STAFFORD VILLAGE

**Total Project Cost:** \$385,000

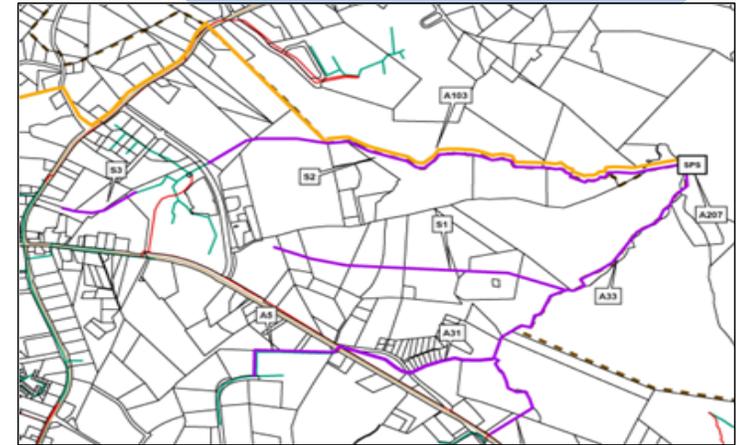
**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

Replacement of 1,850 LF of existing undersized 10" gravity sewer with 18" gravity sewer to accommodate commercial growth along the Garrisonville Road corridor.

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

The purpose of the project is to promote economic growth along Garrisonville Road corridor.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	85,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	300,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$85,000</b>	<b>\$300,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	85,000	300,000	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$85,000</b>	<b>\$300,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# LITTLE FALLS RUN WWTF - THIRD TREATMENT TRAIN

**Total Project Cost:** \$16,608,000

**Est. Opening Date:** 2023

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Upgrade and expand facility to provide a firm 8 mgd capacity - the ability to treat up to 8 million gallons per day with one entire treatment train out of service. Denitrification tanks will be constructed to meet nutrient discharge limits at higher flow rates. With the addition of additional aeration capacity, the facility can potentially be increased to a capacity of 10 mgd like the Aquia WWTF.



**OPERATING IMPACT SUMMARY**

Will enable treatment facility to accommodate future flow increases and enhance the reliability of the facility.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	1,018,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	15,136,000	0	0	0
Contingency	0	0	0	0	0	0	0	454,000	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,018,000</b>	<b>\$15,590,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	15,590,000	0	0	0
ProRata Fees	0	0	0	0	0	0	509,000	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	509,000	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,018,000</b>	<b>\$15,590,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	1,198,499	1,198,499	1,198,499
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$1,198,499</b>	<b>\$1,198,499</b>	<b>\$1,198,499</b>						

# OLDE CONCORD TO WAYSIDE 18" GRAVITY CONSTRUCT

**Total Project Cost:** \$1,350,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include This project includes design and construction of an 18-inch gravity main along unnamed tributary from Olde Concord Road to interceptor along Jefferson Davis Highway near Carnaby Street (5,833 feet). The purpose of the project is to serve future customers east of Jefferson Davis Highway near Somerset Lane. The timing for construction of this project is dependent on the timing of flows in this area which is anticipated to be in the near-term (through 2010). The force main from the Courthouse PS should be connected to this 18-inch gravity main in the future to alleviate future capacity issues associated with the gravity sewers downstream of the existing force main serving the Courthouse PS. In the future, this project will convey flows from the force main serving the Lower Accokeek PS.



## OPERATING IMPACT SUMMARY

Provides for economic development in the area

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	150,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	1,200,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$150,000</b>	<b>\$1,200,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	1,200,000	0	0	0	0	0	0	0	0	0
ProRata Fees	75,000	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	75,000	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$150,000</b>	<b>\$1,200,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	92,251	92,251	92,251	92,251	92,251	92,251	92,251	92,251	92,251
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$92,251</b>								

# Construct Lower Accokeek PS

**Total Project Cost:** \$2,400,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include the following:  
Construct Lower Accokeek PS



**OPERATING IMPACT SUMMARY**

Provides for economic development in the area

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	100,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	2,300,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$100,000</b>	<b>\$2,300,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	2,300,000	0	0	0	0	0	0	0	0	0
ProRata Fees	100,000	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$100,000</b>	<b>\$2,300,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	176,815	176,815	176,815	176,815	176,815	176,815	176,815	176,815	176,815
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$176,815</b>								

# 18"GRAVITY ACCOKEEK CREEK PS

**Total Project Cost:** \$1,585,000

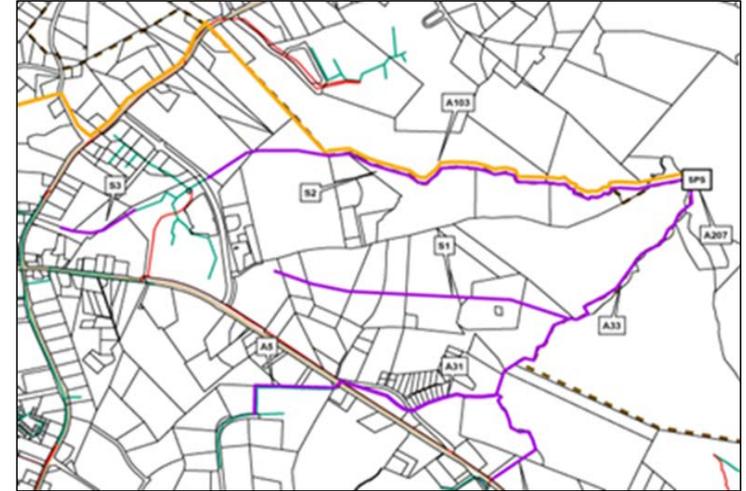
**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

**PROGRAM DESCRIPTION**

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include the following:  
 Construct 18-inch gravity main along Accokeek Creek from vicinity of Jumping Branch Road to Lower Accokeek PS (4,737 feet)



**OPERATING IMPACT SUMMARY**

Provides for economic development in the area

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	100,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	1,050,000	435,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$100,000</b>	<b>\$1,050,000</b>	<b>\$435,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	100,000	1,050,000	435,000	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$100,000</b>	<b>\$1,050,000</b>	<b>\$435,000</b>	<b>\$0</b>							

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		7,688	88,408	121,849	121,849	121,849	121,849	121,849	121,849	121,849	121,849
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$7,688</b>	<b>\$88,408</b>	<b>\$121,849</b>							

# CONSTRUCT LOWER ACCOKEEK FM TO EXISTING SEWER

**Total Project Cost:** \$1,600,000

**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives  
 • Water and Sewer Master Plan

**PROGRAM DESCRIPTION**

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include the following:  
 Construct 18-inch gravity main along unnamed tributary from Olde Concord Road to interceptor along Jefferson Davis Highway near Carnaby Street (5,833 feet)



**OPERATING IMPACT SUMMARY**

Provides for economic development in the area

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	200,000	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	1,400,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$200,000	\$1,400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	1,400,000	0	0	0	0	0	0	0	0
ProRata Fees	0	200,000	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$200,000	\$1,400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

## 8"GRAVITY TRUNK SE QUADRANT

**Total Project Cost:** \$580,000

**Est. Opening Date:** 2018

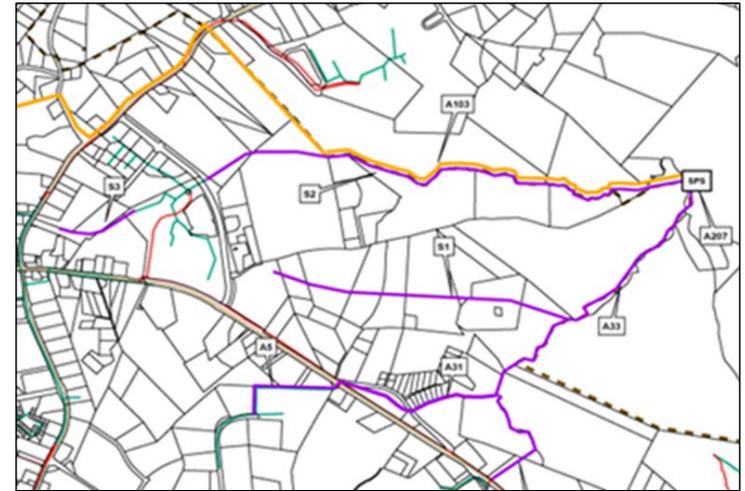
Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

### PROGRAM DESCRIPTION

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include the following:

8" Gravity Trunk Sewer to serve Economic Development in SE quadrant.



### OPERATING IMPACT SUMMARY

Provides for economic development in the area

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	580,000	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$580,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	580,000	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$580,000</b>	<b>\$0</b>							

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$29,000</b>							

## 8" EXTENSION of EX GRAVITY FROM HOSPITAL TO PS

**Total Project Cost:** \$1,000,000

**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives  
 • Water and Sewer Master Plan

**PROGRAM DESCRIPTION**

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include the following:  
 8" Extension of ex gravity sewer downstream from hospital



**OPERATING IMPACT SUMMARY**

Provides for economic development in the area

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	1,000,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	1,000,000	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$0</b>							

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	76,876	76,876	76,876	76,876	76,876	76,876	76,876	76,876
Revenue/Savings		0	0	0	(125,355)	(127,862)	(130,420)	(133,028)	(135,688)	(138,402)	(141,170)
<b>Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$76,876</b>	<b>(\$48,479)</b>	<b>(\$50,986)</b>	<b>(\$53,544)</b>	<b>(\$56,152)</b>	<b>(\$58,812)</b>	<b>(\$61,526)</b>	<b>(\$64,294)</b>

# ROWSER 10" GRAVITY LINE

**Total Project Cost:** \$175,000

**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

This project includes design and construction of a 10-inch gravity main from Rowser PS to interceptor along Accokeek Creek (626 feet). The purpose of the project is to eliminate the Rowser PS and serve future customers downstream of the Rowser PS.

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

Provides for economic development in the area

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	175,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	175,000	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175,000</b>	<b>\$0</b>							

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	13,453	13,453	13,453	13,453	13,453	13,453	13,453	13,453
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$13,453</b>							

# WYCHE ROAD 12" GRAVITY LINE

**Total Project Cost:** \$350,000

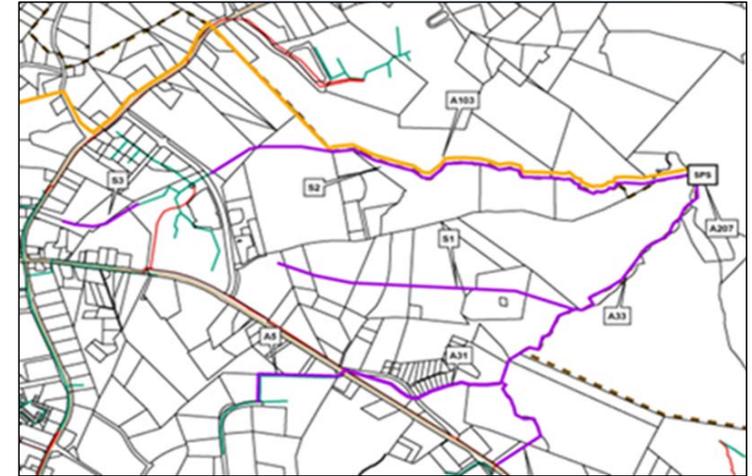
**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

This project includes design and construction of a 12-inch gravity main along unnamed tributary to Accokeek Creek from Wyche Road PS to interceptor along Accokeek Creek (1,638 feet). The purpose of the project is to eliminate the Wyche Road PS and serve future customers downstream of the Wyche Road PS.



**OPERATING IMPACT SUMMARY**

Provides for Economic Development in the area

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	350,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$350,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	350,000	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$350,000</b>	<b>\$0</b>							

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	26,907	26,907	26,907	26,907	26,907	26,907	26,907	26,907
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$26,907</b>							

# VENTURE ROAD TO WYCHE ROAD PS 12" GRAVITY REPLACEMENT

**Total Project Cost:** \$200,000

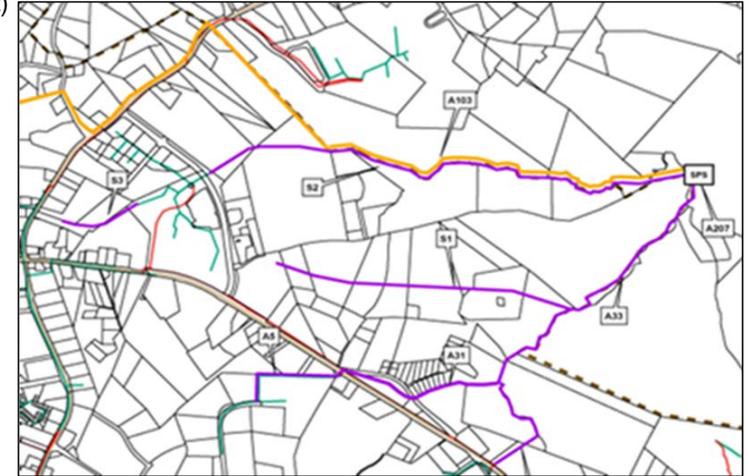
**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include replacing the 8-inch with 12-inch gravity main from Venture Road to Wyche Road PS (1,190 feet)

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

Provides for Economic Development in the area

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	200,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	200,000	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$0</b>							

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	0	0	0	0	0	0	0	0
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>									

## 8" EXTENSION OF EX GRAVITY SEWER

**Total Project Cost:** \$260,000

**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

Construct sewer upgrades to provide service for the south east quadrant of the Courthouse redevelopment area to include the following:

8" Extension of ex gravity sewer upstream from hospital.

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

Provides for Economic Development in the area.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	260,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$260,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	260,000	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$260,000</b>	<b>\$0</b>							

Operating Impacts		FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel		0	0	0	0	0	0	0	0	0	0
Operating		0	0	0	0	0	0	0	0	0	0
Debt Service		0	0	0	0	0	0	0	0	0	0
Revenue/Savings		0	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>\$0</b>									

# POTOMAC CREEK PUMP STATION & FORCE MAIN REPLACEMENT

**Total Project Cost:** \$4,657,000

**Est. Opening Date:** 2021

Links to Board's Strategic Initiatives

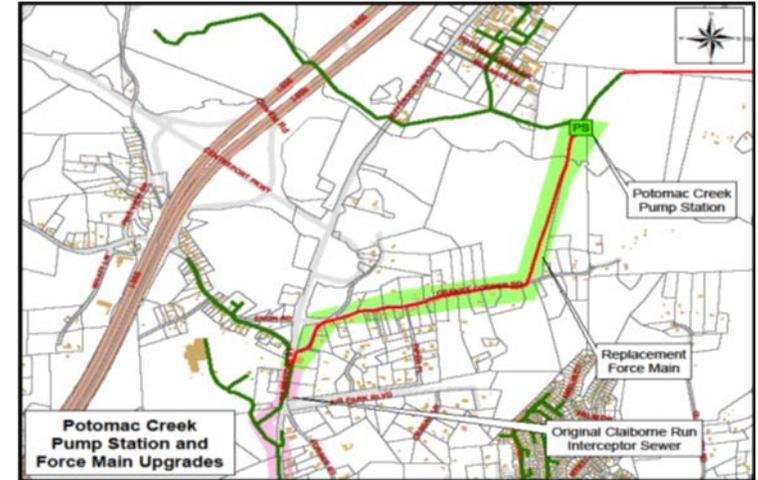
- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

Replacement of the existing pumping station with a new 4.34 MGD station and replacement of the existing force main with 16" force main. (General Sewer Improvement Projects LFR-129 and LFR-226). The Water and Sewer Master Plan recommends increasing the capacity of the existing facilities to handle buildout flows.

## OPERATING IMPACT SUMMARY

Additional wastewater pumping and transmission capacity is necessary to serve the commercial and residential development.



## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	155,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	2,251,000	2,251,000	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$155,000</b>	<b>\$2,251,000</b>	<b>\$2,251,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	77,500	1,125,500	1,125,500	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	77,500	1,125,500	1,125,500	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$155,000</b>	<b>\$2,251,000</b>	<b>\$2,251,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# SEWER EXTENSION PROJECTS

**Total Project Cost:** \$3,012,000

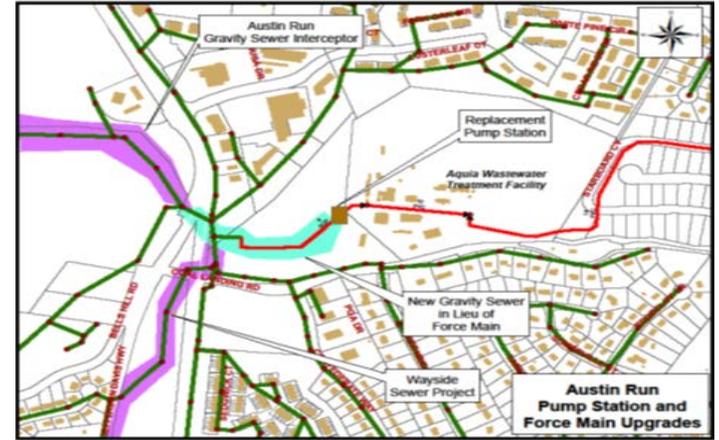
**Est. Opening Date:** Ongoing

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

**PROGRAM DESCRIPTION**

Short Sewer Extension Projects, Neighborhood Projects, and Large Scale Projects that qualify for the extension of sewer service under the County's Water & Sewer Line Extension Policy (R10-217).



**OPERATING IMPACT SUMMARY**

Provides a solution for residents with on-site septic systems who may be experiencing drainfield problems.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	223,000	232,000	242,000	252,000	262,000	273,000	284,000	296,000	308,000	320,000	320,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$223,000</b>	<b>\$232,000</b>	<b>\$242,000</b>	<b>\$252,000</b>	<b>\$262,000</b>	<b>\$273,000</b>	<b>\$284,000</b>	<b>\$296,000</b>	<b>\$308,000</b>	<b>\$320,000</b>	<b>\$320,000</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	223,000	232,000	242,000	252,000	262,000	273,000	284,000	296,000	308,000	320,000	320,000
<b>Total</b>	<b>\$223,000</b>	<b>\$232,000</b>	<b>\$242,000</b>	<b>\$252,000</b>	<b>\$262,000</b>	<b>\$273,000</b>	<b>\$284,000</b>	<b>\$296,000</b>	<b>\$308,000</b>	<b>\$320,000</b>	<b>\$320,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# SMALL SEWER PROJECTS

**Total Project Cost:** \$785,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

1. Bosun Cove / Brentsmill Sewer - gravity sewer line that will eliminate one pump station in Aquia Harbour - \$178,000 in FY17
2. Denrich / Brentsmill Sewer - gravity sewer line that will eliminate pump station adjacent to Widewater Elementary School - \$250,000 in FY17
3. Claiborne Run Interceptor - Replacement of 650 feet of Gravity Sewer in the upper reach of the Claiborne Run Sewer Interceptor - larger pipe needed to accommodate growth - \$347,000 in FY16.



**OPERATING IMPACT SUMMARY**

These projects will take advantage of VDOT initiatives to minimize project costs and reduce future impacts on the roads. In addition, two of these projects will eliminate pump stations and the related operations and maintenance costs.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	347,000	438,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$347,000</b>	<b>\$438,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	219,000	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	347,000	219,000	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$347,000</b>	<b>\$438,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# WASTEWATER COLLECTION SYSTEM REHABILITATION PROJECTS

**Total Project Cost:** \$2,750,000

**Est. Opening Date:** Ongoing

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Ongoing rehabilitation program for the County's 415 miles of gravity sewers, 55 miles of pump station force mains, and 14 miles of low pressure sewer lines. Program systematically provides upgrades to reduce the amount of inflow of surface water and infiltration of groundwater into the sanitary sewer system. The program also seeks to identify and replace deteriorated conditions before catastrophic failures can occur. Reductions in inflow and infiltration can reduce the current treatment capacities needed at the two wastewater treatment facilities and provide additional capacity for growth without requiring upgrades to the wastewater collection and/or treatment systems.



**OPERATING IMPACT SUMMARY**

This project will replace or repair aging and deteriorated sewer infrastructure to enhance the overall reliability of the wastewater collection system.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$250,000</b>										

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
<b>Total</b>	<b>\$250,000</b>										

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# WASTEWATER PUMP STATION REHABILITATION PROGRAM

**Total Project Cost:** \$2,750,000

**Est. Opening Date:** Ongoing

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan

## PROGRAM DESCRIPTION

Ongoing rehabilitation program for the County's 89 wastewater pump stations. Program systematically upgrades all outdated pumping stations with modern mechanical, electrical and control equipment. This program reinforces the County's efforts to minimize the chances for sewage overflows or spillages due to failure of one of its pump stations. Redundant equipment is installed to provide additional reliability and alarms are maintained to provide notice of an impending problem in order that it can be corrected prior to any overflow or spillage of sewage.



## OPERATING IMPACT SUMMARY

This program will enhance the reliability and extend the life of our wastewater pump stations to lessen the chance of system failures and potential overflows.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$250,000</b>										

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
<b>Total</b>	<b>\$250,000</b>										

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# WASTEWATER PUMP STATION REPLACEMENTS

**Total Project Cost:** \$6,468,410

**Est. Opening Date:** Ongoing

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

This program will identify and replace wastewater pump stations based on condition and/or capacity issues to prevent the likelihood of pump station failures, sewage overflows, etc. Each year the stations in need of replacement will be prioritized and addressed as funding is available.



**OPERATING IMPACT SUMMARY**

A number of the wastewater pump stations have exceeded their expected useful lives due to rehabilitation performed by our mechanics. However, this is not sustainable, and these stations will soon need to be replaced due to condition and/or capacity issues. Failure to address these issues in a timely manner will result in mechanical failures, sewage overflows, and potential fines from the regulatory agencies.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	1,000,000	1,030,000	1,060,900	1,092,727	1,125,509	1,159,274
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$1,030,000</b>	<b>\$1,060,900</b>	<b>\$1,092,727</b>	<b>\$1,125,509</b>	<b>\$1,159,274</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	500,000	515,000	530,450	546,364	562,755	579,637
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	500,000	515,000	530,450	546,364	562,755	579,637
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$1,030,000</b>	<b>\$1,060,900</b>	<b>\$1,092,727</b>	<b>\$1,125,509</b>	<b>\$1,159,274</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# WAYSIDE SEWER INTERCEPTOR REPLACEMENT

**Total Project Cost:** \$2,923,000

**Est. Opening Date:** 2020

Links to Board's Strategic Initiatives

**PROGRAM DESCRIPTION**

Replacement of 3,017 feet of existing undersized 10" asbestos cement sewer line. The Water & Sewer Master Plan recommends replacing the existing 10" line with a new 18" diameter line along the wayside between Austin Run south to Allatoona Lane to accommodate growing commercial demands in the central Stafford area.

- Water and Sewer Master Plan
- Utilities Fiscal Plan



**OPERATING IMPACT SUMMARY**

The project will serve future customers along the Jefferson Davis Highway corridor south of Aquia WWTP.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	179,000	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	2,744,000	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$179,000</b>	<b>\$2,744,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	89,500	1,372,000	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	89,500	1,372,000	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$179,000</b>	<b>\$2,744,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

# HILLDRUP'S PUMP STATION REPLACEMENT

**Total Project Cost:** \$1,514,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

Construct a new pump station at Quantico Corporate Center to accommodate existing flows as well as new flows from prospective customers such as data centers, corporate office complexes, etc. Pump station needs to be sized for current 100,000 gallons per day plus 500,000 gallons per day for a data center plus another 100,000 gallons per day for future office space. That equates to a pump station capacity of 1,700 gallons per minute using our current 3.5 peaking factor. A new and larger emergency generator will also be required.



## OPERATING IMPACT SUMMARY

Replacement of the existing Hilldrup's Pump Station is a key need to accommodate continued growth in Quantico Corporate Center.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	175,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	1,339,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$175,000</b>	<b>\$1,339,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	58,000	1,339,000	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	117,000	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$175,000</b>	<b>\$1,339,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	102,937	102,937	102,937	102,937	102,937	102,937	102,937	102,937	102,937
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$102,937</b>								

# HILLDRUP'S PUMP STATION FORCE MAIN REPLACEMENT

**Total Project Cost:** \$1,199,000

**Est. Opening Date:** 2017

Links to Board's Strategic Initiatives

## PROGRAM DESCRIPTION

Replacement of the existing 8-inch diameter force main from the Hilldrup's Pump Station is needed to accommodate construction of a new pump station at Quantico Corporate Center. The new force main needs to be 16 inches in diameter and about 8,400 feet long.

- Water and Sewer Master Plan
- Utilities Fiscal Plan



## OPERATING IMPACT SUMMARY

Replacement of the existing Hilldrup's Pump Station is a key need to accommodate continued growth in Quantico Corporate Center. In order to handle the increased flow, the 8-inch diameter force main from the pump station to the gravity sewer needs to be replaced with a 16-inch diameter line.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	74,000	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	1,125,000	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$74,000</b>	<b>\$1,125,000</b>	<b>\$0</b>								

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	1,125,000	0	0	0	0	0	0	0	0	0
ProRata Fees	37,000	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	37,000	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$74,000</b>	<b>\$1,125,000</b>	<b>\$0</b>								

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	86,486	86,486	86,486	86,486	86,486	86,486	86,486	86,486	86,486
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$86,486</b>								

## ROUTE 1 SEWER (HIDDEN VALLEY TO POTOMAC HILLS)

**Total Project Cost:** \$3,600,000

**Est. Opening Date:** 2,018

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

### PROGRAM DESCRIPTION

Replace 5,600 LF of existing undersized 10 Asbestos Cement gravity sewer with 30" gravity sewer to accommodate commercial growth in the Boswell's Corner area.



### OPERATING IMPACT SUMMARY

The purpose of this project is to promote economic and commercial growth in the area.

### PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	200,000	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	3,400,000	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$3,400,000</b>	<b>\$0</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	200,000	1,398,000	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	2,002,000	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$3,400,000</b>	<b>\$0</b>							

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	15,375	122,848	122,848	122,848	122,848	122,848	122,848	122,848	122,848
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$15,375</b>	<b>\$122,848</b>							

# AQUIA CREEK FORCE MAIN REPLACEMENT

**Total Project Cost:** \$2,589,346

**Est. Opening Date:** 2019

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

This project will replace the force mains from the Aquia Creek pump station to Aquia Drive, and from the Aquia at the Bridge pump station to Starboard Cove Lane.



**OPERATING IMPACT SUMMARY**

The purpose of this project is to increase the conveyance capacity and provide needed replacement of deteriorated lines.

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	2,589,346	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$2,589,346	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	2,386,846	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	\$0	\$0	\$0	\$202,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	\$2,589,346	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	(183,492)	(183,492)	(183,492)	(183,492)	(183,492)	(183,492)	(183,492)
Revenue/Savings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$0	(\$183,492)	(\$183,492)	(\$183,492)	(\$183,492)	(\$183,492)	(\$183,492)	(\$183,492)

# AQUIA CREEK PS EXPANSION

**Total Project Cost:** \$2,762,295

**Est. Opening Date:** 2018

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

This project includes expansion of the Aquia Creek PS from 2.88 MGD to 4.68 MGD.



**OPERATING IMPACT SUMMARY**

Flow projections and modeling indicate that the pumping station will have insufficient capacity to meet near-term flows. .

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	2,762,295	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$2,762,295	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	1,173,795	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	1,588,500	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$2,762,295	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	90,237	90,237	90,237	90,237	90,237	90,237	90,237	90,237
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$90,237	\$90,237	\$90,237	\$90,237	\$90,237	\$90,237	\$90,237	\$90,237

# AUSTIN RUN INTERCEPTOR SECTION REPLACEMENT

**Total Project Cost:** \$11,979,500

**Est. Opening Date:** 2026

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

This project includes replacement of the existing 10-inch and 12-inch with 18-inch gravity main along Garrisonville Road and unnamed tributary to Whitsons Run from Onville Road to interceptor along Whitsons Run (5,050 feet). This project also includes replacement of the existing 18-inch with 24-inch gravity main along Whitsons Run from vicinity of Highpointe Boulevard to interceptor along Austin Run (6,890 feet).



## OPERATING IMPACT SUMMARY

The purpose of the project is to increase the conveyance capacity of the existing gravity mains to handle flows from Quantico Marine Corps Base.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	3,800,000	3,990,000	4,189,500
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$3,800,000</b>	<b>\$3,990,000</b>	<b>\$4,189,500</b>							

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	1,511,557	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	2,288,443	3,990,000	4,189,500
<b>Total</b>	<b>\$0</b>	<b>\$3,800,000</b>	<b>\$3,990,000</b>	<b>\$4,189,500</b>							

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	116,203	116,203
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$116,203</b>	<b>\$116,203</b>							

# CAMP BARRETT SPS FM

**Total Project Cost:** \$1,595,569

**Est. Opening Date:** 2022

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

This project will replace the Camp Barrett force main from the Camp Barrett pump station to Garrisonville Road.



## OPERATING IMPACT SUMMARY

The purpose of the project is to increase the conveyance capacity of the existing force main to handle flows from Quantico Marine Corps Base.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	1,595,569	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$1,595,569	\$0	\$0	\$0	\$0

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	1,595,569	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$1,595,569	\$0	\$0	\$0	\$0

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

# Utilities Other

Projects	Prior Funding	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	Total CIP (FY17-26)	Later Years Funding	Total Project Cost
Stafford County Complex	0	0	0	0	0	0	423,000	6,484,000	0	0	0	6,907,000	0	6,907,000
Vehicles & Equipment Replacements	350,000	475,000	675,000	879,000	891,000	443,000	426,000	662,000	383,000	458,000	400,000	5,692,000	0	6,042,000
Contingency Allowance	918,950	1,130,800	1,143,000	1,377,000	585,700	452,200	315,800	2,632,300	362,500	155,200	185,300	8,339,800	0	9,258,750
Total	\$1,268,950	\$1,605,800	\$1,818,000	\$2,256,000	\$1,476,700	\$895,200	\$1,164,800	\$9,778,300	\$745,500	\$613,200	\$585,300	\$20,938,800	\$0	\$22,207,750

# STAFFORD COUNTY COMPLEX

Total Project Cost: \$6,907,000

Est. Opening Date: 2023

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

## PROGRAM DESCRIPTION

Funding is included in the planning period to evaluate and potentially construct facilities on land owned by the County near the regional jail for use by Fire & Rescue, Parks and Recreation and the Department of Utilities. For the Department of Utilities, the need would be for additional area to store pipe and other materials and enhance our ability to make bulk purchases and achieve cost savings. Space is also needed to provide indoor storage for the vac trucks to prevent freezing issues in cold weather. In addition, centralized office space is needed to consolidate operations and eliminate the need to lease office space.



## OPERATING IMPACT SUMMARY

Cost savings will include approximately \$215,000 per year to lease office space plus additional cost savings derived from the ability to make larger quantity purchases of pipe and other repair and maintenance supplies at reduced unit prices.

## PROJECT COSTS

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	423,000	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	6,484,000	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$423,000</b>	<b>\$6,484,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	3,676,000	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	423,000	2,808,000	0	0	0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$423,000</b>	<b>\$6,484,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	282,597	282,597	282,597
Revenue/Savings	0	0	0	0	0	0	(133,028)	(135,688)	(138,402)	(141,170)
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>(\$133,028)</b>	<b>\$146,909</b>	<b>\$144,195</b>	<b>\$141,427</b>

# VEHICLES AND EQUIPMENT REPLACEMENTS

**Total Project Cost:** \$6,042,000

**Est. Opening Date:** Ongoing

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Replacement of vehicles and major pieces of equipment due to high mileage, excess repair and maintenance costs, or condition issues.

**OPERATING IMPACT SUMMARY**

These vehicles and equipment allow us to respond in a timely manner to address problems in the water distribution and wastewater collection system. When they are needed, they must be ready to go.



**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	350,000	475,000	675,000	879,000	891,000	443,000	426,000	662,000	383,000	458,000	400,000
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$350,000</b>	<b>\$475,000</b>	<b>\$675,000</b>	<b>\$879,000</b>	<b>\$891,000</b>	<b>\$443,000</b>	<b>\$426,000</b>	<b>\$662,000</b>	<b>\$383,000</b>	<b>\$458,000</b>	<b>\$400,000</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability Fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	350,000	475,000	675,000	879,000	891,000	443,000	426,000	662,000	383,000	458,000	400,000
<b>Total</b>	<b>\$350,000</b>	<b>\$475,000</b>	<b>\$675,000</b>	<b>\$879,000</b>	<b>\$891,000</b>	<b>\$443,000</b>	<b>\$426,000</b>	<b>\$662,000</b>	<b>\$383,000</b>	<b>\$458,000</b>	<b>\$400,000</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

## CONTINGENCY ALLOWANCE

**Total Project Cost:** \$9,258,750

**Est. Opening Date:** Ongoing

Links to Board's Strategic Initiatives

- Water and Sewer Master Plan
- Utilities Fiscal Plan

**PROGRAM DESCRIPTION**

Funding is included in the planning period to provide contingent allowance for all capital projects.



**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Planning/Design	0	0	0	0	0	0	0	0	0	0	0
Property Acquisition	0	0	0	0	0	0	0	0	0	0	0
Construction / Project	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Other	918,950	1,130,800	1,143,000	1,377,000	585,700	452,200	315,800	2,632,300	362,500	155,200	185,300
<b>Total</b>	<b>\$918,950</b>	<b>\$1,130,800</b>	<b>\$1,143,000</b>	<b>\$1,377,000</b>	<b>\$585,700</b>	<b>\$452,200</b>	<b>\$315,800</b>	<b>\$2,632,300</b>	<b>\$362,500</b>	<b>\$155,200</b>	<b>\$185,300</b>

Funding Sources	Prior Year	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Current Revenue	0	0	0	0	0	0	0	0	0	0	0
Bonds	0	0	0	0	0	0	0	0	0	0	0
ProRata Fees	0	0	0	0	0	0	0	0	0	0	0
Availability fees	0	0	0	0	0	0	0	0	0	0	0
User Fees	918,950	1,130,800	1,143,000	1,377,000	585,700	452,200	315,800	2,632,300	362,500	155,200	185,300
<b>Total</b>	<b>\$918,950</b>	<b>\$1,130,800</b>	<b>\$1,143,000</b>	<b>\$1,377,000</b>	<b>\$585,700</b>	<b>\$452,200</b>	<b>\$315,800</b>	<b>\$2,632,300</b>	<b>\$362,500</b>	<b>\$155,200</b>	<b>\$185,300</b>

Operating Impacts	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Personnel	0	0	0	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0	0	0	0
Debt Service	0	0	0	0	0	0	0	0	0	0
Revenue/Savings	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>\$0</b>									

The objective in Debt Management is:

- to keep the level of indebtedness within available resources. Stafford is presently meeting this objective and fully expects to continue doing so.



Newly rebuilt Stafford High School.

## Who Are We?

- Virginia counties, unlike cities, do not have a legal debt limit.
- Revenue and refunding bonds and bonds for school capital projects are sold through the State's Literary Fund or the Virginia Public School Authority,
- Bonds sold through the Virginia Resource Authority or other state agency as prescribed by law requires a public hearing and approval by the Board of Supervisors.
- General Obligation bond sales must be approved by voter referendum. This requirement does not apply to "moral obligation issues," such as Certificates of Participation, which do not commit Stafford's full faith and credit and ad valorem taxing power, but instead, require annual appropriation by the Board of Supervisors.

## Bond Rating

The County's bond ratings are shown below:

	<b>Moody's</b>	<b>Standard &amp; Poor's</b>	<b>Fitch</b>
General Obligation	Aa1	AAA	AA+
Lease Revenue	A1	A+	AA-
Water & Sewer	Aa2	AA	Not Rated

In April, 2015 Stafford County received positive financial news when Moody's Investors Service upgraded the County's bond rating to Aa1 from Aa2. This upgrade comes just two years after Moody's upgraded Stafford's outlook from stable to positive in 2013. Also in 2013, Standard & Poor's upgraded the County's bond rating from AA to an AA+, and Fitch Ratings upgraded the bond rating from AA to AA+.

In July, 2015 after years of unwavering adherence to strict financial management and strong reserve levels established by the Board of Supervisors, Stafford County received a AAA bond rating by Standard & Poors' Rating Services.

Standard & Poors' said in a statement that the AAA upgrade is "due to the County's maintenance of strong budgetary performance and very strong reserves, supported by very strong management conditions through the recent economic recession."

Rating agencies focus on four major areas when reviewing a community's financial standing: the economy, finances, debt and financial management, and governance. A high bond rating means that the County can borrow money at a lower cost, saving taxpayer money.

"The AAA validates our steadfast commitment to being a fiscally responsible and accountable government," said Supervisor Bob Thomas, George Washington District representative and chairman of the Board's Finance, Audit and Budget Committee. "Through all of our challenges, we have found innovative ways to provide services to our citizens, and I applaud the partnership among the Board of Supervisors, the Stafford County School Board, staff, businesses, and citizens to help us reach this long-standing goal.

Other factors that influenced Standard & Poors' rating for Stafford included the County's very strong economy, strong management, strong budgetary performance, with operating surpluses in the general fund, budgetary flexibility, strong liquidity, and adequate debt. The Board will continue its work toward further enhancing the County's bond rating.

## Debt Management Policy Statement

The Government Finance Officers Association's Committee on Governmental Debt and Fiscal Policy issued a statement regarding Recommended Practice on Debt Policy Management in 1995, and revised it in 2003. The following comments were made in the introduction to the statement:

“Debt management policies are written guidelines and restrictions that affect the amount and type of debt issued by a state or local government, the issuance process, and the management of a debt portfolio. A debt management policy improves the quality of decisions, provides justification for the structure of debt issuance, identifies policy goals, and demonstrates a commitment to long-term financial planning, including a multi-year capital plan. Adherence to a debt management policy signals to rating agencies and the capital markets that a government is well managed and should meet its obligations in a timely manner. Debt levels and their related annual costs are important long-term obligations that must be managed within available resources. An effective debt management policy provides guidelines for a government to manage its debt program in line with those resources.”

Accordingly, Stafford County examined its debt program and the Board of Supervisors adopted debt policy limits to ensure that no undue burden is placed on the County and its citizens. The County's debt policies are included in the Board's Principles of High Performance Financial Management. Updated in November 2015, the debt limitations are as follows:

- General obligation debt shall not exceed 3.0% of the assessed valuation of taxable real property.
- General fund debt service expenditures (County and Schools) shall not exceed 10% of the general government and schools operating budgets.
- Capital lease debt service shall not exceed 1% of the general government budget. Capital lease debt may only be used if the following four criteria are met:
  1. Capital lease purchase is eligible under state law for such financing; and,
  2. Useful life of the purchase equals or exceeds the term of the debt; and,
  3. Total purchase exceeds \$100,000; and,
  4. Sufficient funds are available to service the capital lease debt.

In March 2013, the Board strengthened their financial policies, to include increasing cash capital to 3% by FY2018 to reduce its reliance on debt. The County complied with the policy and reached the goal one year early. The FY17 Adopted Budget includes additional funds for infrastructure projects. See Capital Projects in the General Government section for a list of projects.

The adopted CIP fully complies with the financial policies.

## DEPARTMENTAL GOALS/OBJECTIVES

- Further enhancing the County's General Obligation Bond rating to promote financial integrity
- Maintain cash capital at 3% of the operating budget
- Ensure fiscal integrity by achieving and maintaining our goal of a 10% debt service to general fund expenditures ratio by 2015
- Maintain and/or update our well-diversified management planning tools and policies in such areas as financials, land use, economic development.
- Maintain our revenue stabilization, capital projects and opportunity fund reserves

The above goals support the Principles of High Performance Financial Management and the Board of Supervisors Priorities for the community.

## SERVICE LEVELS

	FY2015 Actual	FY2016 Budget	FY2017 Plan
<b>Outcomes</b>			
Debt Service	\$41,190,206	\$42,945,990	45,011,954
Debt Service per Capita	\$294	\$302	\$311
Maintain current rating with a goal to achieve the highest possible GO bond rating from all three rating agencies - Goal - AAA			
Standard & Poor's	AA+	AA+	AAA
Moody's	Aa1	Aa1	Aa
Fitch	AA+	AA+	AA+

## DEPARTMENTAL ACCOMPLISHMENTS

- April 2015 Moody's upgraded the County's bond rating from Aa2 to Aa1.
- July 2015 Standard & Poor's upgraded the County's bond rating to AAA.
- The goal to increase the cash capital budget to 3% of the operating budget by FY2018 was accomplished in the FY17 adopted budget. The goal was met one year early.

# Analysis of Outstanding Debt

## Stafford County FY17 Adopted Budget

### General Obligation Bonds

#### School Bond - VPSA

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	291,330,270	17,947,122	273,383,148
2018	273,383,148	18,123,499	255,259,649
2019	255,259,649	18,125,996	237,133,653
2020	237,133,653	17,471,214	219,662,439
2021	219,662,439	16,680,408	202,982,031

#### Bonds for County Projects

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	39,420,000	1,613,872	37,806,128
2018	34,960,000	1,603,872	33,356,128
2019	30,510,000	1,598,872	28,911,128
2020	24,285,000	1,590,989	22,694,011
2021	22,350,000	1,590,989	20,759,011

### Revenue Bonds

#### Lease Revenue Bonds

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	9,280,000	2,500,000	6,780,000
2018	6,780,000	2,500,000	4,280,000
2019	4,280,000	2,500,000	1,780,000
2020	0	-	0
2021	0	-	0

#### General Government - Financing Lease - VRA Refunding

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	6,312,258	462,409	5,849,849
2018	5,849,849	462,409	5,387,440
2019	5,376,744	462,409	4,914,335
2020	4,892,694	462,409	4,430,285
2021	4,397,447	462,409	3,935,038

### Other Debt

#### Other- Landfill

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	1,855,000	195,000	1,660,000
2018	1,660,000	205,000	1,455,000
2019	1,455,000	215,000	1,240,000
2020	1,240,000	225,000	1,015,000
2021	1,015,000	235,000	780,000

### Literary Fund Loans

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	1,796,888	466,149	1,330,739
2018	1,330,739	466,149	864,590
2019	864,590	216,149	648,441
2020	648,441	216,149	432,292
2021	432,292	216,149	216,143

### Total General Obligation Bonds

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	332,547,158	20,027,143	312,520,015
2018	309,673,887	20,193,520	289,480,367
2019	286,634,239	19,941,017	266,693,222
2020	262,067,094	19,278,352	242,788,742
2021	242,444,731	18,487,546	223,957,185

### General Government - Financing Lease - Crow's Nest

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	6,312,258	462,409	5,849,849
2018	5,849,849	473,106	5,376,744
2019	5,376,744	484,050	4,892,694
2020	4,892,694	495,247	4,397,447
2021	4,397,447	506,703	3,890,745

### Other Debt

#### Other- Equipment Leases- County Equipment

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	12,331,567	2,513,676	9,817,892
2018	9,817,892	2,513,676	7,304,216
2019	7,243,218	2,513,676	4,729,543
2020	4,974,236	2,513,676	2,460,560
2021	3,587,669	2,513,676	1,073,993

# Analysis of Outstanding Debt

## Utilities Fund

### Revenue Bonds

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	101,019,503	3,314,651	97,704,852
2018	97,704,852	3,417,042	94,287,810
2019	94,287,810	3,529,851	90,757,959
2020	90,757,959	3,643,087	87,114,872
2021	87,114,872	3,756,760	83,358,112

### Total Utilities Debt

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	101,019,503	3,314,651	97,704,852
2018	97,704,852	3,417,042	94,287,810
2019	94,287,810	3,529,851	90,757,959
2020	90,757,959	3,643,087	87,114,872
2021	87,114,872	3,756,760	83,358,112

## All Funds

### Total All Funds Debt

Fiscal Year	Balance July 1	Principal Payments	Balance June 30
2017	461,490,487	28,817,879	432,672,608
2018	429,826,480	29,097,343	400,729,137
2019	397,822,011	28,968,593	368,853,418
2020	362,691,983	25,930,362	336,761,622
2021	337,544,720	25,264,685	312,280,035

# General Fund Bond Debt

Stafford County FY17 Adopted Budget

General Government Lease-Revenue Bonds, Series 2008 - 2033  
 England Run Library, Patawomeck Park, Courthouse Renovations,  
 Public Safety Communications System, JDR Courthouse Design,  
 Artificial Turf Fields

Virginia Resource Authority 2014B, Refunding of Series 2006 and  
 2008, Embrey Mill Park Improvements and Indoor Recreation  
 Center

Fiscal Year	Principal	Interest	Total	Balance
2008	\$0	\$0	\$0	\$28,030,000
2009	290,000	4,406,346	4,696,346	27,740,000
2010	2,810,000	4,298,944	7,108,944	24,930,000
2011	2,825,000	4,123,744	6,948,744	22,105,000
2012	2,835,000	3,974,644	6,809,644	19,270,000
2013	2,505,000	3,823,744	6,328,744	16,765,000
2014	2,505,000	3,684,544	6,189,544	14,260,000
2015	2,475,000	1,693,113	4,168,113	11,785,000
2016	2,505,000	520,450	3,025,450	9,280,000
2017	2,500,000	420,250	2,920,250	6,780,000
2018	2,500,000	320,250	2,820,250	4,280,000
2019	2,500,000	214,000	2,714,000	1,780,000
2020	0	89,000	89,000	1,780,000
2021	0	89,000	89,000	1,780,000
2022	0	89,000	89,000	1,780,000
2023	0	89,000	89,000	1,780,000
2024	0	89,000	89,000	1,780,000
2025	0	89,000	89,000	1,780,000
2026	0	89,000	89,000	1,780,000
2027	0	89,000	89,000	1,780,000
2028	0	89,000	89,000	1,780,000
2029	0	89,000	89,000	1,780,000
2030	0	89,000	89,000	1,780,000
2031	0	89,000	89,000	1,780,000
2032	890,000	89,000	979,000	890,000
2033	890,000	44,500	934,500	0
	<u>\$28,030,000</u>	<u>\$28,681,527</u>	<u>\$56,711,527</u>	

Fiscal Year	Principal	Interest	Total	Balance
2015	\$0	\$2,034,800	\$2,034,800	64,335,000
2016	1,300,000	2,826,863	\$4,126,863	63,035,000
2017	1,340,000	2,788,831	\$4,128,831	61,695,000
2018	1,395,000	2,729,547	\$4,124,547	60,300,000
2019	1,460,000	2,660,663	\$4,120,663	58,840,000
2020	4,095,000	2,526,641	\$6,621,641	54,745,000
2021	4,175,000	2,327,122	\$6,502,122	50,570,000
2022	4,265,000	2,117,097	\$6,382,097	46,305,000
2023	4,365,000	1,895,953	\$6,260,953	41,940,000
2024	2,830,000	1,711,581	\$4,541,581	39,110,000
2025	2,920,000	1,568,763	\$4,488,763	36,190,000
2026	3,020,000	1,422,975	\$4,442,975	33,170,000
2027	3,115,000	1,276,966	\$4,391,966	30,055,000
2028	3,215,000	1,133,659	\$4,348,659	26,840,000
2029	3,315,000	985,878	\$4,300,878	23,525,000
2030	3,420,000	833,494	\$4,253,494	20,105,000
2031	3,515,000	691,959	\$4,206,959	16,590,000
2032	2,685,000	578,791	\$3,263,791	13,905,000
2033	2,790,000	477,813	\$3,267,813	11,115,000
2034	2,885,000	372,109	\$3,257,109	8,230,000
2035	2,995,000	262,572	\$3,257,572	5,235,000
2036	2,560,000	156,219	\$2,716,219	2,675,000
2037	2,675,000	52,828	\$2,727,828	0
	<u>64,335,000</u>	<u>33,433,122</u>	<u>97,768,122</u>	

\* Years 2020 through 2033 include funding for Courthouse area improvements, England Run Library and Patawomeck Park only

# General Fund Bond Debt

Stafford County FY17 Adopted Budget

## General Government - Crows Nest Series 2008

Fiscal Year	Principal	Interest	Total	Balance
2008	\$0	\$0	\$0	\$9,500,001
2009	352,741	269,707	622,448	9,147,260
2010	363,402	271,713	635,115	8,783,858
2011	374,386	260,729	635,115	8,409,472
2012	385,702	249,413	635,115	8,023,770
2013	397,360	237,755	635,115	7,626,410
2014	420,460	184,487	604,947	7,205,950
2015	441,736	163,211	604,947	6,764,214
2016	451,954	152,993	604,947	6,312,260
2017	462,409	142,538	604,947	5,849,851
2018	473,106	131,841	604,947	5,376,745
2019	484,050	120,897	604,947	4,892,695
2020	495,247	109,700	604,947	4,397,448
2021	506,703	98,244	604,947	3,890,745
2022	518,424	86,523	604,947	3,372,321
2023	530,416	74,530	604,946	2,841,905
2024	542,686	62,261	604,947	2,299,219
2025	555,240	49,707	604,947	1,743,979
2026	568,084	36,863	604,947	1,175,895
2027	581,225	23,722	604,947	594,670
2028	594,670	10,277	604,947	0
	<u>\$9,500,001</u>	<u>\$2,737,111</u>	<u>\$12,237,112</u>	

## General Government General Obligation Bonds, Refunding Series 2012

Fiscal Year	Principal	Interest	Total	Balance
	\$0	\$0	\$0	\$4,810,000
2013	0	191,595	191,595	4,810,000
2014	700,000	205,325	905,325	4,110,000
2015	695,000	177,578	872,578	3,415,000
2016	505,000	148,878	653,878	2,910,000
2017	500,000	125,375	625,375	2,410,000
2018	490,000	102,256	592,256	1,920,000
2019	485,000	79,447	564,447	1,435,000
2020	480,000	56,894	536,894	955,000
2021	480,000	32,294	512,294	475,000
2022	475,000	9,997	484,997	0
	<u>\$4,810,000</u>	<u>\$1,129,639</u>	<u>\$5,939,639</u>	

# General Fund Bond Debt

Stafford County FY17 Adopted Budget

## General Government General Obligation Bonds, Parks, Recreation and Transportation Series 2013

Fiscal Year	Principal	Interest	Total	Balance
				18,785,000
2015	935,000	436,923	1,371,923	17,850,000
2016	935,000	840,825	1,775,825	16,915,000
2017	940,000	808,100	1,748,100	15,975,000
2018	940,000	765,900	1,705,900	15,035,000
2019	940,000	718,900	1,658,900	14,095,000
2020	940,000	671,900	1,611,900	13,155,000
2021	940,000	624,900	1,564,900	12,215,000
2022	940,000	577,900	1,517,900	11,275,000
2023	940,000	530,900	1,470,900	10,335,000
2024	940,000	483,900	1,423,900	9,395,000
2025	940,000	436,900	1,376,900	8,455,000
2026	940,000	389,900	1,329,900	7,515,000
2027	940,000	342,900	1,282,900	6,575,000
2028	940,000	295,900	1,235,900	5,635,000
2029	940,000	248,900	1,188,900	4,695,000
2030	940,000	206,600	1,146,600	3,755,000
2031	940,000	169,000	1,109,000	2,815,000
2032	940,000	131,400	1,071,400	1,875,000
2033	940,000	93,800	1,033,800	935,000
2034	935,000	56,200	991,200	0
	<u>18,785,000</u>	<u>8,831,648</u>	<u>27,616,648</u>	

## Transportation Service District General Obligation Bonds, Garrisonville District Series 2013

Fiscal Year	Principal	Interest	Total	Balance
2014		123,076	\$123,076	5,290,000
2015	260,000	236,900	496,900	5,030,000
2016	260,000	227,800	487,800	4,770,000
2017	265,000	215,975	480,975	4,505,000
2018	265,000	202,725	467,725	4,240,000
2019	265,000	189,475	454,475	3,975,000
2020	265,000	176,225	441,225	3,710,000
2021	265,000	162,975	427,975	3,445,000
2022	265,000	149,725	414,725	3,180,000
2023	265,000	136,475	401,475	2,915,000
2024	265,000	123,225	388,225	2,650,000
2025	265,000	109,975	374,975	2,385,000
2026	265,000	96,725	361,725	2,120,000
2027	265,000	83,475	348,475	1,855,000
2028	265,000	70,225	335,225	1,590,000
2029	265,000	58,300	323,300	1,325,000
2030	265,000	47,700	312,700	1,060,000
2031	265,000	37,100	302,100	795,000
2032	265,000	26,500	291,500	530,000
2033	265,000	15,900	280,900	265,000
2034	265,000	5,300	270,300	0
	<u>5,290,000</u>	<u>2,372,700</u>	<u>7,662,700</u>	

# General Fund Bond Debt

Stafford County FY17 Adopted Budget

## General Government General Obligation Bonds - Series 2015, Parks, Recreation

## General Government General Obligation Bonds Series 2015, Transportation

Fiscal Year	Principal	Interest	Total	Balance
2016	-	113,557	113,557	5,947,629
2017	299,832	235,977	535,809	5,647,797
2018	299,832	226,982	526,814	5,347,965
2019	299,832	214,989	514,821	5,048,133
2020	296,949	200,069	497,018	4,751,184
2021	296,949	185,222	482,171	4,454,235
2022	296,949	170,374	467,323	4,157,286
2023	296,949	155,527	452,476	3,860,337
2024	296,949	140,680	437,629	3,563,388
2025	296,949	125,832	422,781	3,266,439
2026	296,949	110,985	407,934	2,969,490
2027	296,949	96,137	393,086	2,672,541
2028	296,949	81,290	378,239	2,375,592
2029	296,949	69,412	366,361	2,078,643
2030	296,949	60,503	357,452	1,781,694
2031	296,949	51,595	348,544	1,484,745
2032	296,949	42,686	339,635	1,187,796
2033	296,949	33,592	330,541	890,847
2034	296,949	24,313	321,262	593,898
2035	296,949	14,847	311,796	296,949
2036	296,949	5,011	301,960	-
	<u>5,947,629</u>	<u>2,359,582</u>	<u>8,307,211</u>	

Fiscal Year	Principal	Interest	Total	Balance
2016		83,386	\$83,386	4,367,371
2017	220,168	173,279	\$393,447	4,147,203
2018	220,168	166,674	\$386,842	3,927,035
2019	220,168	157,867	\$378,035	3,706,867
2020	218,051	146,912	\$364,963	3,488,816
2021	218,051	136,009	\$354,060	3,270,765
2022	218,051	125,107	\$343,158	3,052,714
2023	218,051	114,204	\$332,255	2,834,663
2024	218,051	103,302	\$321,353	2,616,612
2025	218,051	92,399	\$310,450	2,398,561
2026	218,051	81,497	\$299,548	2,180,510
2027	218,051	70,594	\$288,645	1,962,459
2028	218,051	59,691	\$277,742	1,744,408
2029	218,051	50,969	\$269,020	1,526,357
2030	218,051	44,428	\$262,479	1,308,306
2031	218,051	37,886	\$255,937	1,090,255
2032	218,051	31,345	\$249,396	872,204
2033	218,051	24,667	\$242,718	654,153
2034	218,051	17,853	\$235,904	436,102
2035	218,051	10,903	\$228,954	218,051
2036	218,051	3,680	\$221,731	-
	<u>4,367,371</u>	<u>1,732,652</u>	<u>6,100,023</u>	

\* Years 2020 through 2033 include funding for Courthouse area improvements, England Run Library and Patawomeck Park only

# General Fund Lease Debt

## Communications System

Fiscal Year	Principal	Interest	Total	Balance
	\$0	\$0	\$0	\$8,707,998
2012	845,765	269,390	1,115,155	7,862,233
2013	880,846	234,309	1,115,155	6,981,387
2014	908,562	206,593	1,115,155	6,072,825
2015	937,149	178,006	1,115,155	5,135,676
2016	966,636	148,519	1,115,155	4,169,040
2017	997,051	118,104	1,115,155	3,171,990
2018	1,028,423	86,732	1,115,155	2,143,567
2019	692,504	58,641	751,145	1,451,062
2020	714,294	36,851	751,145	736,769
2021	736,769	14,376	751,145	0
	<u>\$8,707,998</u>	<u>\$1,351,522</u>	<u>\$10,059,520</u>	

## Fire Rescue Self-Contained Breathing Apparatus (SCBA), Fire Rescue Heavy Rescue, Public Safety Computer Aided Dispatch

Fiscal Year	Principal	Interest	Total	Balance
				5,980,906
2015	776,915	129,278	906,193	5,203,991
2016	792,808	113,386	906,193	4,411,183
2017	809,044	97,149	906,193	3,602,139
2018	825,634	80,560	906,193	2,776,506
2019	842,583	63,610	906,193	1,933,923
2020	366,915	48,281	415,196	1,567,008
2021	376,591	38,605	415,196	1,190,416
2022	386,523	28,674	415,196	803,894
2023	396,716	18,480	415,196	407,178
2024	407,178	8,018	415,196	0
	<u>5,980,906</u>	<u>626,042</u>	<u>6,606,948</u>	

## Radio System FCC Mandated Upgrade to TDMA

Fiscal Year	Principal	Interest	Total	Balance
	\$0	\$0	\$0	\$2,100,000
2017	405,709	33,511	439,220	1,694,291
2018	412,732	26,488	439,220	1,281,560
2019	419,876	19,344	439,220	861,684
2020	427,145	12,075	439,220	434,539
2021	434,539	4,681	439,220	0
	<u>\$2,100,000</u>	<u>\$96,100</u>	<u>\$5,575,775</u>	

## Fire Rescue Heavy Rescue

Fiscal Year	Principal	Interest	Total	Balance
				3,028,339
2017	276,506	58,209	334,715	2,751,833
2018	282,049	52,665	334,715	2,469,784
2019	287,704	47,011	334,715	2,182,080
2020	293,472	41,242	334,715	1,888,607
2021	299,356	35,359	334,715	1,589,251
2022	305,358	29,357	334,715	1,283,893
2023	311,480	23,235	334,715	972,413
2024	317,725	16,990	334,715	654,688
2025	324,095	10,620	334,715	330,593
2026	330,593	4,122	334,715	0
	<u>3,028,339</u>	<u>318,810</u>	<u>3,347,149</u>	

# Utilities Fund Bond Debt

Stafford County FY17 Adopted Budget

## Virginia Resource Authority - Little Falls Run

Fiscal Year	Principal	Interest	Total	Balance
				9,326,572
2012	179,131	640,886	820,017	9,147,441
2013	365,351	321,513	686,864	8,782,090
2014	378,429	308,435	686,864	8,403,661
2015	391,982	294,882	686,864	8,011,679
2016	406,020	280,843	686,863	7,605,659
2017	420,562	266,301	686,863	7,185,097
2018	435,624	251,238	686,862	6,749,473
2019	451,227	235,637	686,864	6,298,246
2020	467,387	219,476	686,863	5,830,859
2021	484,127	202,737	686,864	5,346,732
2022	501,466	185,397	686,863	4,845,266
2023	519,426	167,437	686,863	4,325,840
2024	538,029	148,835	686,864	3,787,811
2025	557,299	129,565	686,864	3,230,512
2026	577,258	109,606	686,864	2,653,254
2027	597,933	88,930	686,863	2,055,321
2028	619,348	67,516	686,864	1,435,973
2029	641,530	45,334	686,864	794,443
2030	664,506	22,357	686,863	129,937
2031	129,937	2,306	132,243	0
	<u>9,326,572</u>	<u>3,989,231</u>	<u>13,315,803</u>	

32,712,611

## Virginia Resources Authority - Aquia

Fiscal Year	Principal	Interest	Total	Balance
				23,386,039
2012	536,481	475,248	1,011,729	22,849,558
2013	1,064,593	353,935	1,418,528	21,784,965
2014	1,074,248	344,280	1,418,528	20,710,717
2015	1,091,505	327,023	1,418,528	19,619,212
2016	1,109,039	309,489	1,418,528	18,510,173
2017	1,126,854	291,673	1,418,527	17,383,319
2018	1,144,956	273,572	1,418,528	16,238,363
2019	1,163,349	255,179	1,418,528	15,075,014
2020	1,182,037	236,491	1,418,528	13,892,977
2021	1,201,025	217,503	1,418,528	12,691,952
2022	1,220,318	198,210	1,418,528	11,471,634
2023	1,239,922	178,606	1,418,528	10,231,712
2024	1,259,839	158,688	1,418,527	8,971,873
2025	1,280,077	138,450	1,418,527	7,691,796
2026	1,300,640	117,887	1,418,527	6,391,156
2027	1,321,534	96,993	1,418,527	5,069,622
2028	1,342,763	75,764	1,418,527	3,726,859
2029	1,364,333	54,194	1,418,527	2,362,526
2030	1,386,250	32,277	1,418,527	976,276
2031	976,276	10,009	986,285	0
	<u>23,386,039</u>	<u>4,145,471</u>	<u>27,531,510</u>	

# Utilities Fund Bond Debt

Stafford County FY16 Adopted Budget

Virginia Resources Authority - 2012 Rocky Pen Run Dam and Reservoir, Rocky Pen Run Water Treatment Facility, Various water distribution projects and infrastructure improvements.

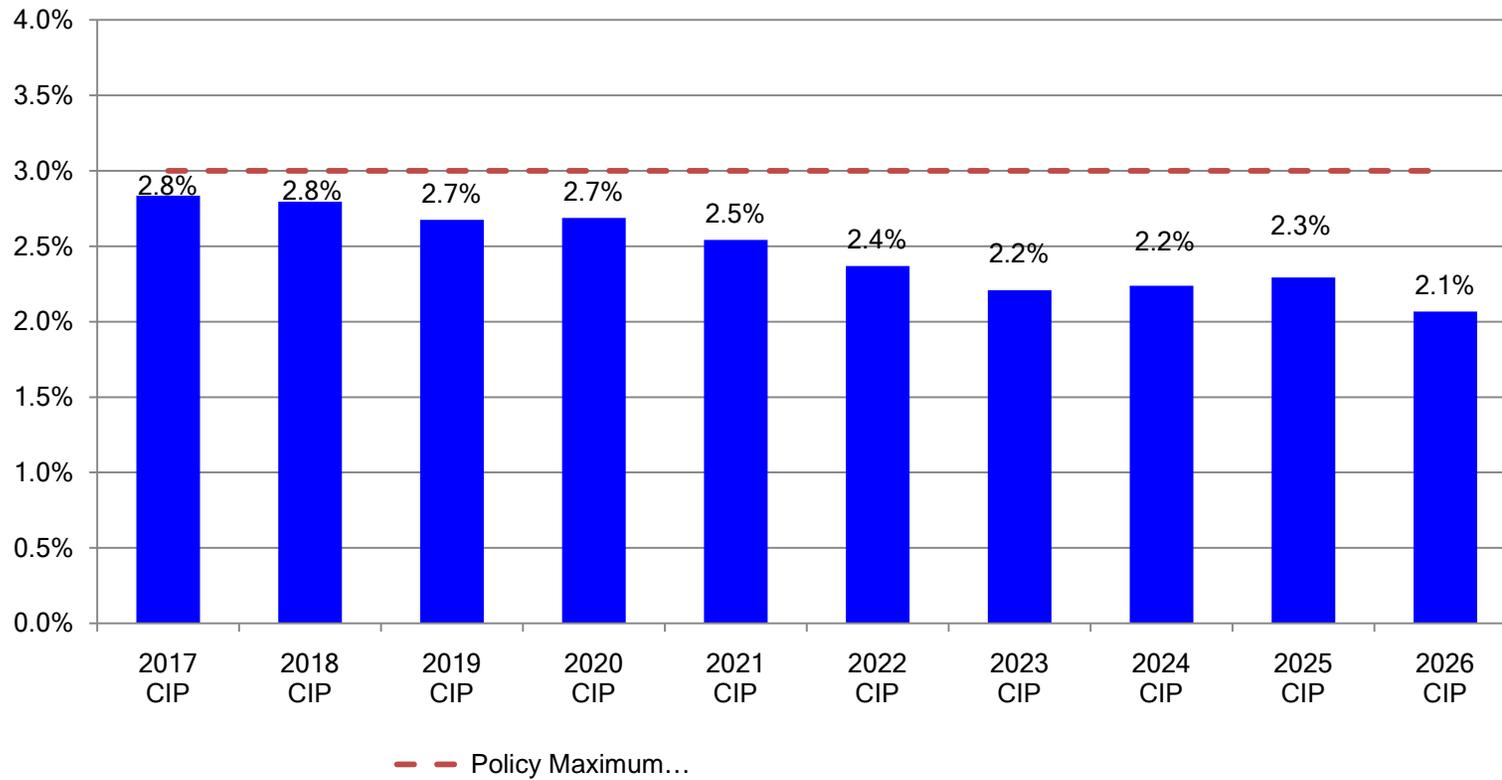
Virginia Resources Authority - 2014 Various water distribution projects and infrastructure improvements.

Fiscal Year	Principal	Interest	Total	Balance
				53,891,481
2012	536,481	2,314,858	2,851,339	53,355,000
2013	810,000	2,606,713	3,416,713	52,545,000
2014	845,000	2,573,678	3,418,678	51,700,000
2015	885,000	2,531,846	3,416,846	50,815,000
2016	930,000	2,489,462	3,419,462	49,885,000
2017	975,000	2,444,772	3,419,772	48,910,000
2018	1,020,000	2,398,225	3,418,225	47,890,000
2019	1,070,000	2,349,243	3,419,243	46,820,000
2020	1,125,000	2,292,996	3,417,996	45,695,000
2021	1,180,000	2,239,181	3,419,181	44,515,000
2022	1,235,000	2,184,397	3,419,397	43,280,000
2023	1,295,000	2,121,416	3,416,416	41,985,000
2024	1,365,000	2,053,254	3,418,254	40,620,000
2025	1,435,000	1,981,503	3,416,503	39,185,000
2026	1,510,000	1,910,588	3,420,588	37,675,000
2027	1,580,000	1,840,706	3,420,706	36,095,000
2028	1,650,000	1,767,637	3,417,637	34,445,000
2029	1,730,000	1,685,975	3,415,975	32,715,000
2030	1,825,000	1,594,878	3,419,878	30,890,000
2031	1,920,000	1,498,912	3,418,912	28,970,000
2032	2,020,000	1,397,950	3,417,950	26,950,000
2033	2,125,000	1,294,935	3,419,935	24,825,000
2034	2,230,000	1,186,538	3,416,538	22,595,000
2035	2,350,000	1,069,175	3,419,175	20,245,000
2036	2,470,000	945,663	3,415,663	17,775,000
2037	2,600,000	815,744	3,415,744	15,175,000
2038	2,740,000	678,906	3,418,906	12,435,000
2039	2,885,000	534,766	3,419,766	9,550,000
2040	3,030,000	387,719	3,417,719	6,520,000
2041	3,180,000	237,863	3,417,863	3,340,000
2042	3,340,000	80,562	3,420,562	0
	<u>53,891,481</u>	<u>51,510,061</u>	<u>105,401,542</u>	

Fiscal Year	Principal	Interest	Total	Balance
				24,385,000
2016		2,314,858	2,314,858	24,385,000
2017	810,000	2,606,713	3,416,713	23,575,000
2018	845,000	2,573,678	3,418,678	22,730,000
2019	885,000	2,531,846	3,416,846	21,845,000
2020	930,000	2,489,462	3,419,462	20,915,000
2021	975,000	2,444,772	3,419,772	19,940,000
2022	1,020,000	2,398,225	3,418,225	18,920,000
2023	1,070,000	2,349,243	3,419,243	17,850,000
2024	1,125,000	2,292,996	3,417,996	16,725,000
2025	1,180,000	2,239,181	3,419,181	15,545,000
2026	1,235,000	2,184,397	3,419,397	14,310,000
2027	1,295,000	2,121,416	3,416,416	13,015,000
2028	1,365,000	2,053,254	3,418,254	11,650,000
2029	1,435,000	1,981,503	3,416,503	10,215,000
2030	1,510,000	1,910,588	3,420,588	8,705,000
2031	1,580,000	1,840,706	3,420,706	7,125,000
2032	1,650,000	1,767,637	3,417,637	5,475,000
2033	1,730,000	1,685,975	3,415,975	3,745,000
2034	1,825,000	1,594,878	3,419,878	1,920,000
2035	<u>1,920,000</u>	<u>1,498,912</u>	<u>3,418,912</u>	0
	<u>24,385,000</u>	<u>42,880,240</u>	<u>67,265,240</u>	

# Debt As A Percentage Of Assessed Value

The County's financial policy "Principles of High Performance Financial Management" state that general obligation debt shall not exceed 3.0% of the assessed valuation of taxable real property. Below is a graph illustrating the County's compliance with the policy.



# Debt Service As A Percentage Of General Government Budget

Stafford County FY17 Adopted Budget

The County's Financial Policy states general fund debt service expenditures (County and Schools) shall not exceed 11% of the general government and schools operating budgets and shall not exceed 10%. Below is a graph presenting the County's compliance with the policy.

