



Shenandoah County, Virginia

Five-Year Capital Improvement Program

Fiscal Years 2016 through 2020





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INTRODUCTION

Capital Improvement Program: An Overview

A Capital Improvement Program (CIP) is a financial planning, budgeting, and management tool that identifies public facility and equipment requirements, places these requirements in order of priority and schedules them for funding and implementation. The CIP consists of an administrative process that leads to the development of two products:

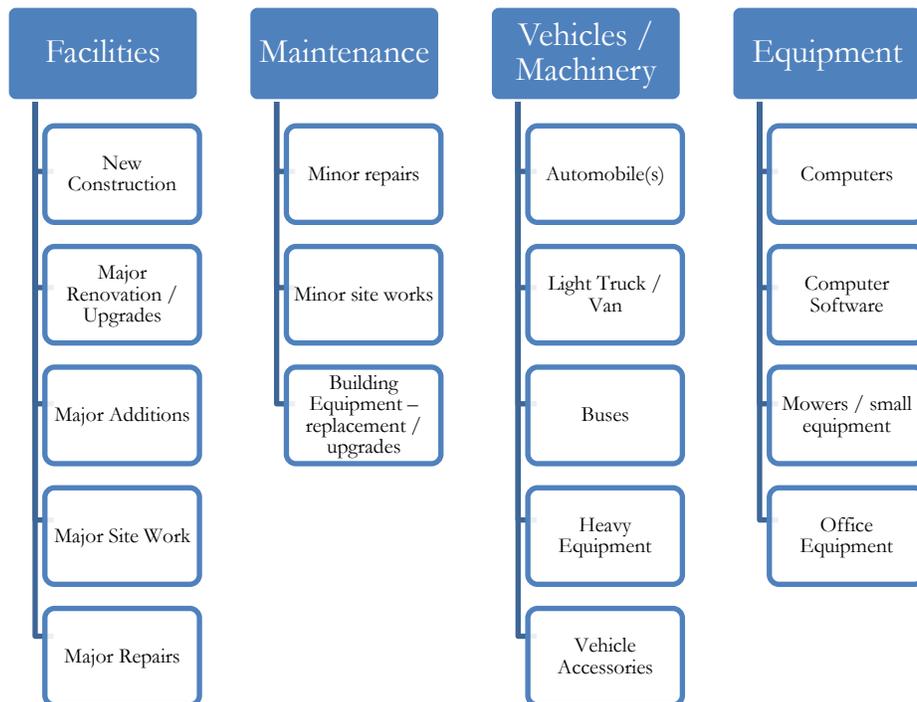
- Capital Improvement Plan – a multi-year plan that identifies all capital projects that are expected to be funded during that period (***subject to annual review and revision***)
- Capital Improvement Budget – a capital spending plan for the current fiscal year

A CIP plays a vital role in a government because it provides for an orderly and routine method of planning and financing a government's required capital improvements.

It should be noted that the CIP is strictly an advisory document. Once the CIP is adopted, individual project priorities could change throughout the course of the year.

Capital Projects Defined

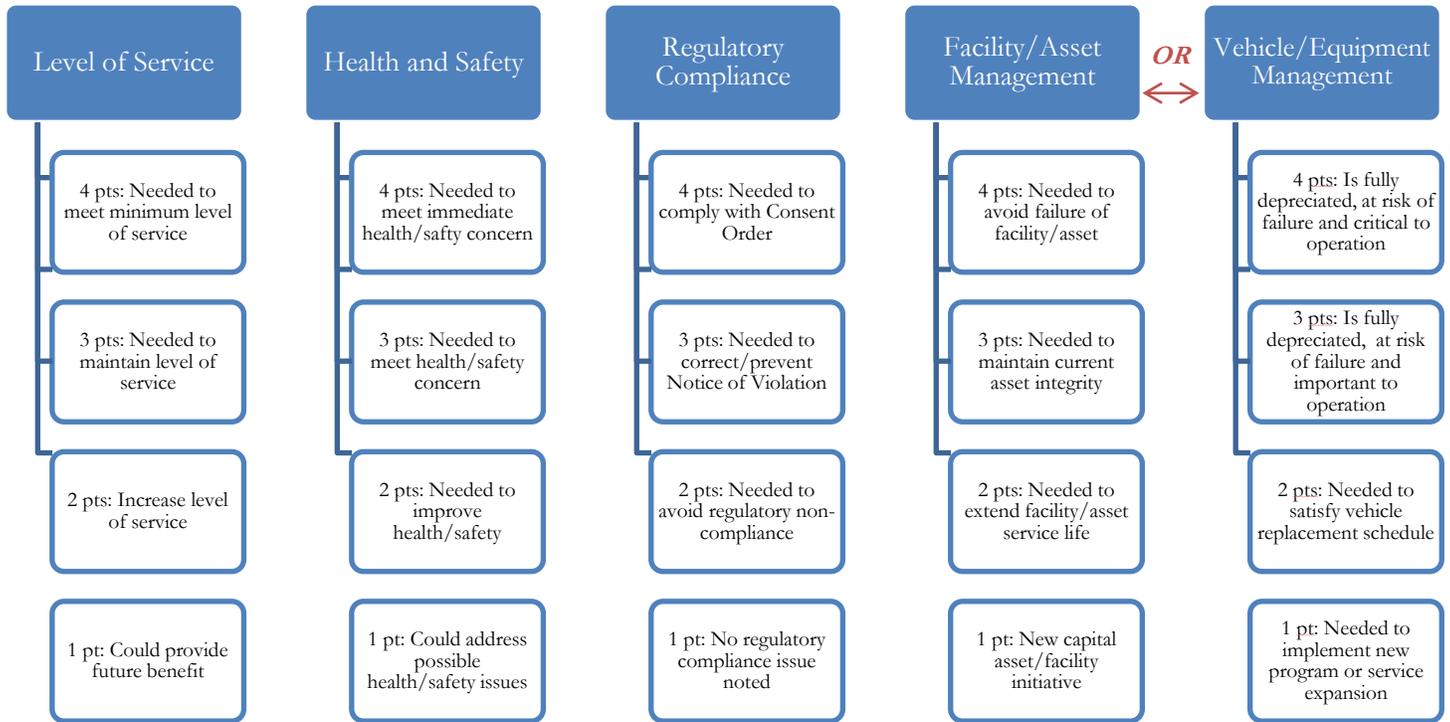
A capital project is defined as an expenditure for an item that has a useful life of five or more years and has a cost that exceeds \$5,000. A capital project considers all costs to engineer, construct, acquire, repair, renovate, or replace the item. Types of capital projects, as illustrated below, include facilities development and/or improvements as well as vehicle and equipment needs.





Ranking Criteria

To ensure that the most important projects receive funding, the County must provide for a process that will rank items according to uniform standards. The use of ranking criteria to score individual projects provides a level of objectivity to the evaluation process. However, it is important to highlight that the ranking criteria alone is not the sole determinant of the order in which projects are funded.



CIP Development Process

The CIP process began with the submission of capital expenditure requests from County departments, constitutional offices, and other agencies based upon an inventory and assessment of the existing condition of facilities and equipment and forecasted replacement or other needs. A CIP Review Committee was established consisting of the County Administrator, Assistant County Administrator, Director of Finance, and Director of Community Development. Each committee member separately and independently scored each project request based on the aforementioned four criteria. Scores were compiled and an arithmetic mean of all scores was derived for each project. The CIP Review Committee met to discuss the final average ranked scores and develop a priority listing of capital projects that are anticipated to be funded in the next five years. Through discussions with department directors and constitutional officers during budget deliberations, the CIP Review Committee ultimately identified the recommended projects using the average ranked scores as well as exercising a degree of subjectivity based on feedback received from staff and an analysis of the funding sources (e.g., grant funding).



Capital Improvement Program – Fiscal Years 2016 – 2020

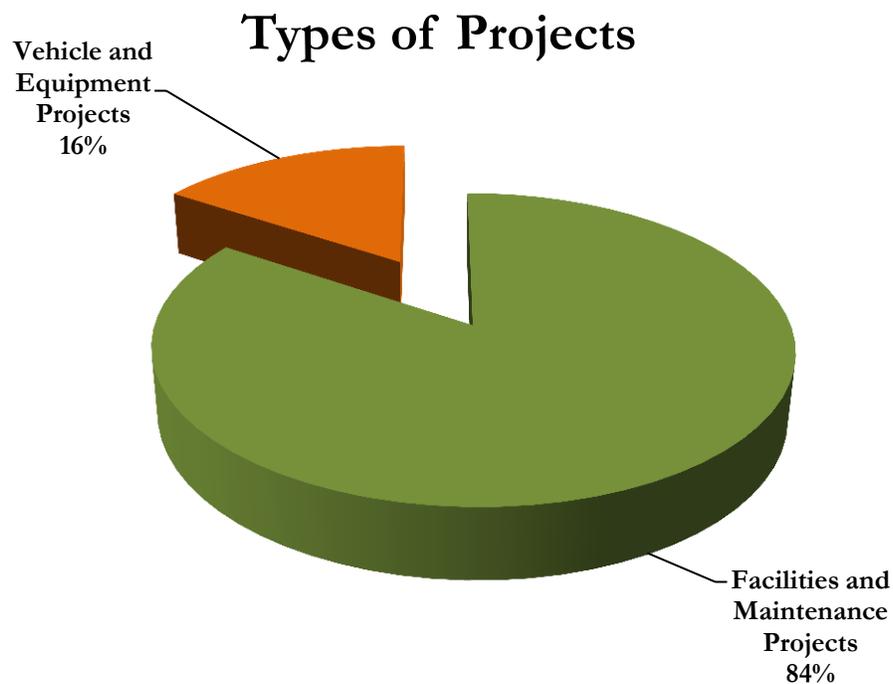
ADOPTED CAPITAL PROJECT LISTING
Fiscal Year 2016

Shenandoah County Capital Improvement Program FY16 to FY20				
Capital Project Description	Department	Fiscal Year	Total Project Cost	Average Ranked Scores
GENERAL FUND - FACILITIES AND MAINTENANCE PROJECTS				
Burn Building Repairs	Fire and Rescue	FY16	140,183	11.25
Carpet Replacement	General Properties	FY16	33,600	11.00
Landfill Expansion - Phase 3	Refuse Disposal	FY16	1,500,000	9.75
Gas Collection & Control System Expansion	Refuse Disposal	FY16	175,000	9.75
Carpet Replacement	Library Administration	FY16	5,500	9.50
UV Disinfection Installation	North Fork WWTP	FY16	75,000	9.50
Sheriff's Office Facilities	Sheriff (Law Enforcement)	FY16	600,000	7.50
Public Safety Security Upgrade	Emergency Communications	FY16	31,625	7.50
Fiscal Year 2016 General Fund Facilities and Maintenance Total			2,560,908	
GENERAL FUND - VEHICLE AND EQUIPMENT PROJECTS				
Replace Active Directory Server	Information Systems	FY16	12,500	10.00
Voting Equipment Replacement	Electoral Board	FY16	87,000	10.00
Animal Control Replacement Vehicle	Animal Control	FY16	45,429	10.00
Staff Replacement Vehicle	Fire and Rescue	FY16	34,438	9.75
Law Enforcement Replacement Vehicles (4)	Sheriff (Law Enforcement)	FY16	201,528	9.50
Pick-Up/Pit Truck Replacement	Refuse Disposal	FY16	-	9.25
Pick-Up/Fuel Truck Replacement	Refuse Disposal	FY16	20,000	9.25
Vehicle Replacement	Library Administration	FY16	20,000	8.75
Replacement of Computers	Information Systems	FY16	22,800	8.50
Zero Turn Mower Replacement	Parks and Recreation	FY16	14,000	8.25
Pick-up/On Road Truck Replacement	Refuse Disposal	FY16	34,000	8.25
Inspection Replacement Vehicle	Building Code Enforcement	FY16	19,750	8.00
Office Computers (6)	Sheriff (Law Enforcement)	FY16	20,292	7.75
Work Van	General Properties	FY16	34,000	7.75
Fiscal Year 2016 General Fund Vehicles and Equipment Total			565,737	
TOTAL GENERAL FUND CAPITAL PROJECTS			3,126,645	



Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20					
Capital Project Description	Department	Fiscal Year	Total Project Cost	Average Ranked Scores	
ENTERPRISE FUND - FACILITIES AND MAINTENANCE PROJECTS					
SCADA Upgrade-Phase I	Toms Brook-Maurertown Sanitary District	FY16	26,350	10.50	
Toms Brook Pump Station 4 Replacement	Toms Brook-Maurertown Sanitary District	FY16	215,000	10.00	
Manhole Rehabilitation	Stoney Creek Sanitary District	FY16	50,000	9.25	
Reline Pipe Replacement	Stoney Creek Sanitary District	FY16	128,000	9.25	
Water Main Loop- Section 8-9x	Stoney Creek Sanitary District	FY16	15,600	9.00	
RedZone Sewer Assessment	Stoney Creek Sanitary District	FY16	35,000	8.25	
Septage Facility Decommissioning	Toms Brook-Maurertown Sanitary District	FY16	15,000	8.00	
Fiscal Year 2016 Enterprise Fund Facilities and Maintenance Total			484,950		
TOTAL ENTERPRISE FUND CAPITAL PROJECTS			484,950		
GRAND TOTAL - ALL FUNDS - FISCAL YEAR 2016			3,611,595		





Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Burn Building Repair Project

Ranked Score: 11.25

Department/Function: Shenandoah County Fire and Rescue/Volunteer Fire and Rescue

Project Description:

This project will repair the Structure Fire Training building located at the County’s Fire Training facility on Landfill Road in Edinburg. Specifically, thermal tiles need to be replaced and mortar joints need to be repaired.



Justification:

This building is used to support the County’s annual Firefighter I and II Academy as well as training by individual volunteer fire departments throughout the County. In a recent inspection of the facility by the Virginia Department of Fire Programs, it was noted that repairs were needed in order to continue operating the facility for structure fire simulation (i.e., conducting live burns). Conducting live fire simulations in a controlled environment with instructors is the best way to prepare firefighters for what they will experience on an incident when suppressing structure fire and guiding rescue operations. Without access to this facility, the County would need to send firefighters to other regional training facilities, which could add to training costs and could create scheduling difficulties for volunteers.

Impact on Operating Budget:

No significant impact on operating costs anticipated in the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

The Virginia Department of Fire Programs will fund approximately 56.5 percent of this project. Although we are utilizing cost estimates associated with a bid that was received in June 2014, we believe that the total project cost will be lower; accordingly, the General Fund portion of this project will likely be less.

Funding Uses:	FY 2016 Amount
Public Safety	\$140,183
	\$140,183
Funding Sources:	
General Fund	\$61,033
State Grant Funds	\$79,150
	\$140,183



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Carpet Replacement – County Government Center

Ranked Score: 11.00

Department/Function: Commissioner of Revenue, Treasurer, and Cooperative Extension

Project Description:

This project will replace the carpet in three departments at the County Government Center, including the offices of the Commissioner of Revenue, Treasurer, and Cooperative Extension. The project consists of installing 2' x 2' carpet tiles, which will enable the County to replace “tiles” on an as needed basis instead of carpet for an entire office suite. Note that the project cost only includes the materials (e.g., carpet tiles, glue, and transition strips); the General Properties staff will perform the installation.



Justification:

The carpet in the aforementioned offices is the original carpet that was installed during the renovation of the County Government Center in the year 2000 and is extremely worn from the high amount of foot traffic these offices experience. In addition to carpet tears, the carpet piling is separating from the backing thereby causing wrinkles in several areas; currently, duct tape is being utilized in order to keep the carpet together and to prevent a tripping hazard.

Impact on Operating Budget:

No significant impact on operating costs anticipated in the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
General Properties	<u>\$33,600</u>
	\$33,600
<u>Funding Sources:</u>	
General Fund	<u>\$33,600</u>
	\$33,600



Capital Improvement Program – Fiscal Years 2016 – 2020

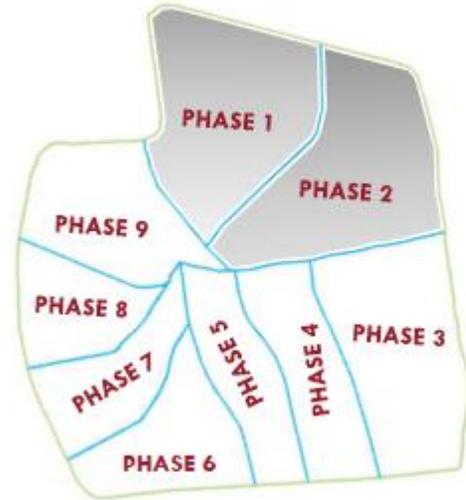
Project Name: Landfill Expansion – Phase 3

Ranked Score: 9.75

Department/Function: Solid Waste (Landfill)

Project Description:

The landfill is being developed in nine phases, commonly referred to as “cells.” Phases 1 and 2 have been constructed and both have received waste since 2003. Development of Phase 3 will begin in fiscal year 2015 with anticipated spending of \$1.5 million during fiscal year 2015.



Justification:

Based upon a ground topographic survey of the landfill in April 2013 and the resultant estimated volume of airspace remaining, Phases 1 and 2 are estimated to be filled in March of 2016. Consequently, the development of Phase 3 should be completed in fiscal year 2016.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

Capital project funds have already been assigned to this project, which spans from fiscal year 2015 to fiscal year 2016 and has a total estimated cost of \$3.0 million. Cost savings will be derived from raising the elevation of the base grade approximately 20 feet so less rock blasting will be necessary and accordingly excavation costs will be less. The County will later “piggy-back” onto the closed Cells 8 and 9 for additional landfill volume.

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Solid Waste	<u>\$1,500,000</u>
	\$1,500,000
<u>Funding Sources:</u>	
General Fund	<u>\$1,500,000</u>
	\$1,500,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Gas Collection and Control System Expansion

Ranked Score: 9.75

Department/Function: Solid Waste (Landfill)

Project Description:

This project is a continuation of the landfill's gas collection and control systems, which is a requirement under the air quality permit issued by the Department of Environmental Quality (DEQ).

Justification:

The Shenandoah County landfill has been in the process of collecting landfill gas, which is a byproduct of the breakdown of waste underground. The landfill utilizes a series of gas wells that are regularly monitored for methane levels. The wells are utilized to detect the movement of landfill gas. In addition to monitoring, the landfill also utilizes two types of gas control. The first is a passive system, which is located in the oldest portions of the landfill property; the passive system utilizes a series of venting tubes that allow the gas to rise and dissipate in the air. The landfill also uses a system of underground pipes to place a vacuum or pressure to influence the underground gas for the purpose of collecting and burning (flaring) the excess methane.

While the gas monitoring wells have indicated decreased levels of methane concentrations, the gas appears to continue to migrate. This project provides funding for additional monitoring wells, piping, and related infrastructure to collect and flare landfill gas.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

	<u>FY 2016</u>
<u>Funding Uses:</u>	<u>Amount</u>
Solid Waste	<u>\$175,000</u>
	\$175,000
<u>Funding Sources:</u>	
General Fund	<u>\$175,000</u>
	\$175,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Carpet Replacement – Library

Ranked Score: 9.50

Department/Function: Library Administration

Project Description:

This project aims to replace the carpeting at the front and rear entrances of the library and outside the library restrooms with a durable vinyl surface. The project cost includes materials and labor.

Justification:

Carpeting installed throughout the library is the original carpeting from the original construction project in 2000. Despite professional cleaning of the carpets twice annually, the carpet is showing significant wear and staining in high traffic areas of the library; in addition to an unattractive setting, overly soiled and highly worn carpet could eventually present a health and safety issue. The proposed durable vinyl surface will wear better, be easier to clean, and help keep the interior carpet cleaner. Additionally, vinyl flooring represents a significant savings over installing full replacement carpeting throughout the building.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

	<u>FY 2016</u>
<u>Funding Uses:</u>	<u>Amount</u>
Library Administration	<u>\$5,500</u>
	\$5,500
<u>Funding Sources:</u>	
General Fund	<u>\$5,500</u>
	\$5,500



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Ultra-Violet (UV) Disinfection Installation

Ranked Score: 9.50

Department/Function: North Fork Wastewater Treatment Plant

Project Description:

This project will replace the current disinfection process at the North Fork Wastewater Treatment Plant, which consists of an extremely corrosive sodium hypochlorite and sodium bisulfite, chlorination/de-chlorination operation.

Justification:

Chlorination and de-chlorination equipment is high maintenance and the nature of chlorination has inherent health and corrosion risks. The existing system is over twelve years old, and the corrosive chlorination/de-chlorination process is severely compromising the steel building and associated equipment in a way that ultra-violet (UV) disinfection would not. UV disinfection has become the standard for wastewater disinfection and is safer, more reliable, more durable, and more cost-effective compared to chlorination.

Impact on Operating Budget:

As a result, there is no significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

The County proposes to transfer \$45,675 from the Toms Brook-Mauretown Sanitary District (TBMSD) related to the accumulated septage account funds.

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
North Fork WWTP	<u>\$75,000</u>
	\$75,000
<u>Funding Sources:</u>	
General Fund	\$29,325
Enterprise Fund	<u>\$45,675</u>
	\$75,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Sheriff's Office Facilities

Ranked Score: 7.50

Department/Function: Sheriff's Department

Project Description:

This project includes the engineering and construction of Sheriff's Office facilities aimed to support patrol, crime prevention, civil process, animal control, investigations, administration, and other support services (i.e., the processing, holding, and transportation of inmates). It should be noted that the County is preparing to issue a Request for Proposal (RFP) in fiscal year 2015 for architectural and engineering services associated with this project. Additional items may develop as a result of these engineering and architectural services (i.e., comprehensive public safety facility to include Fire & Rescue and Emergency Communications Center, local jail, etc.).

Justification:

The current Sheriff's Office facilities do not provide the adequate space needs and expansion of the existing facility is not feasible.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

As denoted below, this project spans multiple fiscal years with primarily engineering of a facility in fiscal year 2016 and with projected earliest completion of the project in fiscal year 2017. Note that these timelines are estimates and subject to change as the project progresses.

	<u>FY 2016 Amount</u>	<u>FY 2017 Amount</u>	<u>Total Project</u>
<u>Funding Uses:</u>			
Sheriff's Department	<u>\$600,000</u>	<u>\$5,400,000</u>	<u>\$6,000,000</u>
	\$600,000	\$5,400,000	\$6,000,000
<u>Funding Sources:</u>			
Asset Forfeiture Funds	<u>\$600,000</u>	<u>\$5,400,000</u>	<u>\$6,000,000</u>
	\$600,000	\$5,400,000	\$6,000,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Public Safety Security Upgrade

Ranked Score: 7.50

Department/Function: Emergency Communications and Fire & Rescue

Project Description:

This project includes the installation of a new electronic access control system and a camera system that provides monitoring and recording of the Emergency Communications Center (ECC), Fire and Rescue entry, the Emergency Medical Services (EMS) “drug supply room,” and the public safety parking lot.

Justification:

Currently, security for the Public Safety suite of the County Government Center is limited. The only security currently in place, beyond key lock doors, is a magnetic card swipe system used on three doors on the Emergency Communications Center (ECC) end of the building. The card swipe system was installed when the County Government Center was constructed in 2000 and is outdated and no longer supported by the manufacturer. The existing system cannot be upgraded or expanded nor is there any support for the manufacturer or any vendors for the product. The only security camera currently in use is outside of the entry door of the ECC, which is not recorded.

The new electronic access card system ensures that the ECC is properly secured with access limited and controlled. When an employee loses an access card or terminates County employment, the associated card can be simply “shut off.” The installation of a camera system provides monitoring and recording of the ECC, Fire and Rescue entry, the EMS “drug supply room,” and the public safety parking lot.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

	<u>FY 2016</u>
<u>Funding Uses:</u>	<u>Amount</u>
ECC and Fire & Rescue	<u>\$31,625</u>
	\$31,625
<u>Funding Sources:</u>	
General Fund	<u>\$31,625</u>
	\$31,625



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Replace Active Directory Server

Ranked Score: 10.00

Function/Department: Information Technology

Project Description:

This project will replace the active directory and multi-purpose server that currently provides for the appropriate network connectivity and redundancy for all County departments at the County Government Center.

Justification:

While the typical life of a server is between four and six years, this server has operated for nine years and is showing signs of its age. The server is a Windows 2003 server, which will no longer be supported after April 2015. The loss of this server would result in lost productivity for all County departments at the County Government Center.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Information Technology	<u>\$12,500</u> \$12,500
<u>Funding Sources:</u>	
General Fund	<u>\$12,500</u> \$12,500



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Voting Equipment Replacement

Ranked Score: 10.00

Function/Department: Electoral Board

Project Description:

This project will continue the replacement of the current optical scan voting machines from 1997 with upgraded digital scan voting machines that include a handicap accessible component.

Justification:

In the current fiscal year 2015 capital budget, approximately \$48,000 has been appropriated for the purchase of new voting machines to be tested and put into place for the 2015 General election prior to using for the 2016 Presidential election.

Impact on Operating Budget:

There will likely be a need for additional training sessions for the officers of election who are working the polling places as a result of the new machines.

Sources and Uses of Funding:

Virginia Governor Terry McAuliffe's current fiscal year 2016 budget proposal includes a one-time investment of \$28 million in state bonds to replace all legacy voting machines in Virginia with digital-scan voting machines that have paper trails. The proposal also includes reimbursement over three years for those localities that have already purchased new machines. Because this proposal has not been vetted and adopted by the General Assembly, we have included the remaining portion of this project cost as funded by the General Fund.

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Electoral Board	<u>\$87,000</u>
	\$87,000
<u>Funding Sources:</u>	
General Fund	<u>\$87,000</u>
	\$87,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Animal Control Vehicle

Ranked Score: 10.00

Department/Function: Animal Control

Project Description:

This project will replace one of the two animal control vehicles that the Sheriff's Department utilizes. The new animal control vehicle will include a required climate controlled animal transport compartment.



Justification:

Both animal control vehicles are on a rotation plan for replacement every 6 years/150,000 miles. Much like law enforcement patrol vehicles, animal control vehicles are driven almost daily for extended periods of time and in all types of conditions and environments. Historically, these vehicles have accumulated the most mileage on an annual basis given the number of calls for service as well as the large geographic area that two full-time animal control officers cover. In addition, based on results from recent state veterinarian office inspections, it was noted that the Sheriff's Department must have climate controlled animal transport compartments. Currently, only one of the two animal control vehicles complies with this requirement.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

The County will apply to the United States Department of Agriculture (USDA) Rural Development (RD) grant program for assistance with funding the animal control vehicle.

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Animal Control	<u>\$45,429</u>
	\$45,429
<u>Funding Sources:</u>	
General Fund	\$31,429
USDA Grant	<u>\$14,000</u>
	\$45,429



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Fire & Rescue Staff Vehicle Replacement

Ranked Score: 9.75

Department/Function: Fire & Rescue

Project Description:

This project will replace one of four staff vehicles within the Fire & Rescue Department.



Justification:

The first-response, emergency vehicle assigned to the Chief Deputy is a 2006 model year with estimated mileage at the time of replacement of 175,000 miles. This vehicle has had extensive motor work completed and is still experiencing significant mechanical issues. The vehicle is currently losing oil and the loss cannot be determined without tearing the engine down. Additionally, the vehicle is also experiencing substantial loss of power.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

	<u>FY 2016 Amount</u>
<u>Funding Uses:</u>	
Fire and Rescue	<u>\$34,438</u>
	\$34,438
<u>Funding Sources:</u>	
General Fund	<u>\$34,438</u>
	\$34,438



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Law Enforcement Replacement Vehicles (4)

Ranked Score: 9.50

Department/Function: Sheriff's Department

Project Description:

This project will replace four of the Sheriff's Department law enforcement vehicles that range from six to seven years old with mileage estimated at time of replacement of 132,000 to 175,000 miles.



Justification:

A replacement of the six vehicles is in accordance with the established rotation plan for the replacement of patrol vehicles (6 years/130,000 miles); however, funds were only allotted for four vehicles for fiscal year 2016. Law enforcement vehicles' service life is vastly different from a typical passenger vehicle. They are driven almost daily for extended periods of time in all types of conditions and environments and accumulate a high amount of justifiable idle hours during a shift as well. In addition to ensuring law enforcement officers have the most reliable and safest vehicle to respond to calls for service, following the rotation plan for replacement also reduces maintenance and repair costs. The Sheriff's Office reports few maintenance issues with a vehicle in the first five years and 120,000 of its life. However, upon reaching this level, the chances of a significant repair increases.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

The Sheriff's Asset Forfeiture Funds are slated to fund the four vehicles, including the necessary in-car computers and equipment packages to outfit the vehicles at a total cost of \$201,528.

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Sheriff's Department	<u>\$201,528</u>
	\$201,528
<u>Funding Sources:</u>	
Asset Forfeiture Funds	<u>\$201,528</u>
	\$201,528



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Pick-Up/Pit Truck Replacement

Ranked Score: 9.25

Department/Function: Solid Waste (Landfill)

Project Description:

This project will replace the existing on-site “pit truck.” This truck is used on-site to transport heavy equipment operators from the offices on Landfill Road to the “face,” or the open area of the landfill. The truck at a minimum should be capable of transporting up to three adults and have 4 x 4 capabilities.



Justification:

Because heavy equipment is left at the waste cell, the “pit truck” enables the heavy equipment operators to drive to and from the waste cell with necessary tools and supplies. The truck formerly used for this purpose no longer works and is parked; a 1980 Suburban, retired from Fire and Rescue, is currently filling in, but it has holes in the floorboard.

Impact on Operating Budget:

By replacing three of the landfill’s aging pick-up trucks as noted within this CIP, a decrease of several thousand dollars in repairs and maintenance costs will be anticipated within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

The County proposes to utilize one of the vehicles that is slated for replacement (i.e., Animal Control vehicle, Fire and Rescue vehicle, General Properties vehicle, or Building Inspections vehicle) as the on-site pit truck at the landfill.

Funding Uses:	FY 2016 Amount
Solid Waste	\$ ---
	\$ ---
Funding Sources:	
General Fund	\$ ---
	\$ ---



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Pick-Up/Fuel Truck Replacement

Ranked Score: 9.25

Department/Function: Solid Waste (Landfill)

Project Description:

This project will replace the existing on-site truck used for fuel delivery with a **used** pick-up truck. The fuel truck should at a minimum be at least ¾ ton, with 4 x 4 capabilities and an 8-foot bed to accommodate the fuel tanks. It must be capable of reliably transporting up to 1,650 pounds of fuel.



Justification:

A fuel truck is necessary for the delivery of fuel to heavy equipment (e.g., compactor, bulldozer, etc.) used around the landfill site. The existing truck is a 23-year old Chevrolet that was purchased used in 1998. The frame of the truck has a crack behind the cab, and as a result, the truck is expected to fail. If fuel cannot be delivered to heavy equipment, the equipment must be moved to the fueling area, which is next to the citizen drop-off area. In addition to the safety concerns associated with driving heavy equipment in a public area, the heavy equipment would damage roads and parking areas.

Impact on Operating Budget:

By replacing three of the landfill’s aging pick-up trucks as noted within this CIP, a decrease of several thousand dollars in repairs and maintenance costs will be anticipated within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

Funding Uses:	FY 2016 Amount
Solid Waste	\$20,000
	\$20,000
Funding Sources:	
General Fund	\$20,000
	\$20,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Vehicle Replacement – Library

Ranked Score: 8.75

Department/Function: Library Administration

Project Description:

This project will replace the 2000 Chrysler Voyager with 140,000 miles primarily used for courier service and staff transportation.



Justification:

As a requirement to receive state funding, the library must maintain a “regular frequent delivery” of materials between locations within the County’s library system. The library provides a courier service to all locations twice per week. In addition to regular courier service, library staff also requires frequent transport between locations to provide training, attend meetings, and maintain computer equipment and infrastructure. With a vehicle of this age and mileage, maintenance costs are expected to increase; moreover, without a reliable transport vehicle for staff, reimbursement costs for mileage can increase.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Library Administration	<u>\$20,000</u> \$20,000
<u>Funding Sources:</u>	
General Fund	<u>\$20,000</u> \$20,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Replacement of Computers

Ranked Score: 8.50

Department/Function: Information Technology

Project Description:

This project will replace approximately twenty computers throughout the County departments.

Justification:

The County operates over ninety desktop and laptop computers within various departments located throughout the County, which are vital for the operation of County services. The life expectancy of a computer is between three and five years; under the current rotation plan for replacement, machines are typically replaced on a four-year cycle. The best of the replaced machines can be placed in supplementary roles within the County where their service is needed but not considered a front-line, heavily utilized machine.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

	<u>FY 2016</u>
<u>Funding Uses:</u>	<u>Amount</u>
Information Technology	<u>\$22,800</u>
	\$22,800
<u>Funding Sources:</u>	
General Fund	<u>\$22,800</u>
	\$22,800



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Zero Turn Mower Replacement

Ranked Score: 8.25

Department/Function: Parks and Recreation

Project Description:

This project aims to replace the 2004 Kubota zero turn mower that has approximately 1,685 hours.



Justification:

The Parks and Recreation Department utilize two mowers to seasonally maintain over 40 acres of parkland. The zero turn mower (#2) has experienced operational issues including poor battery performance, hydrostatic pumps, and significant wear and tear. Park staff as well as private mechanics have not been able to diagnose the electrical issues. Operators must mow with this machine at one-half to three-quarter speed and must slow at certain spots in order to adjust for the mowing path. The problems with this mower are indicative of hydrostatic pump issues, of which one or both will need to be replaced in order to return this mower to complete functionality on a ten-year old machine. Because these models were built with a lower capacity for hydraulic oil, it does not allow the pumps and motors to cool quickly enough thereby wearing out the equipment more quickly. If both hydrostatic pumps required replacement, it would cost an estimated \$2,500 to \$3,000 with a 90-day warranty on parts.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Parks and Recreation	<u>\$14,000</u>
	\$14,000
<u>Funding Sources:</u>	
General Fund	<u>\$14,000</u>
	\$14,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Pick-Up/On Road Truck Replacement

Ranked Score: 8.25

Department/Function: Solid Waste (Landfill)

Project Description:

This project will replace the existing “on road” pick-up truck, which is used by landfill staff to make repairs at compactor sites as well as to perform snow plow operations at the compactor sites and the four County government parking lots.



Justification:

The existing truck is fifteen years old and has several structural and mechanical problems. In January 2015, the truck was taken completely out of service and is no longer in use on road or at the landfill site.

Impact on Operating Budget:

By replacing three of the landfill’s aging pick-up trucks as noted within this CIP, a decrease of several thousand dollars in repairs and maintenance costs will be anticipated within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Solid Waste	<u>\$34,000</u>
	\$34,000
<u>Funding Sources:</u>	
General Fund	<u>\$34,000</u>
	\$34,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Inspection Vehicle Replacement

Ranked Score: 8.00

Department/Function: Building Code Enforcement

Project Description:

This project will replace building inspection vehicle, a 2006 Ford Ranger, with a new 4x4 SUV to be used for daily field inspections and for damage assessment inspections.

Justification:

The existing inspection vehicle has high mileage (estimated at 140,000 miles at the time of replacement) and receives significant wear and tear. Inspection vehicles are utilized five days a week and travel on non-paved areas within the County, which add to the wear and tear of the vehicles not apparent by the vehicle’s exterior. Inspection vehicles have been scheduled to be replaced on a five-to-six year cycle.



Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

It should be noted that the Building Inspections Department conducts housing inspections for the Department of Social Services and receives approximately \$10,000 annually as a reimbursement, which could help offset the cost of this vehicle.

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Building Code Enforcement	\$19,750
	\$19,750
<u>Funding Sources:</u>	
General Fund	\$19,750
	\$19,750



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Replace Office Computers – Sheriff's Office

Ranked Score: 7.75

Department/Function: Sheriff's Department

Project Description:

This project will replace six of the office computers at the Sheriff's Office.

Justification:

The Sheriff's Office utilizes desktop and laptop computers on a daily basis for a variety of functions and has implemented a rotation plan to replace unserviceable or outdated computers.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
Sheriff's Department	<u>\$20,292</u> \$20,292
<u>Funding Sources:</u>	
General Fund	<u>\$20,292</u> \$20,292



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Work Van – General Properties

Ranked Score: 7.75

Department/Function: General Properties

Project Description:

This project will replace the 1999 Ford F-250 with mileage of over 140,000 with a utility work van.

Justification:

The existing pick-up truck is utilized on a daily basis responding to maintenance requests. Given its age and high mileage, high repairs and maintenance costs are anticipated. By replacing this vehicle, it will start a rotation plan for the replacement of highly used vehicles within the department’s aging fleet. By purchasing a utility van, the staff will have more room to carry supplies and the proper equipment necessary when responding to maintenance requests. Moreover, the utility van will enable staff to keep their tools, parts inventory, and materials dry during inclement weather.



Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
General Properties	<u>\$34,000</u>
	\$34,000
<u>Funding Sources:</u>	
General Fund	<u>\$34,000</u>
	\$34,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: SCADA Upgrade – Phase 1

Ranked Score: 10.50

Department/Function: Toms Brook-Maurertown Sanitary District (TBMSD)

Project Description:

This project will upgrade the existing Supervisory Control and Data Acquisition (SCADA) system.

Justification:

The SCADA system is used to monitor and control two water plants, two storage tanks, one water booster station, eight sewer pump stations, and one wastewater treatment plant by means of one master control and thirteen remote telemetric units. It is the “brain” of the utilities system and is critical for everyday operation and alarm notification. The existing SCADA system is twenty years old, and the software is obsolete and no longer supportable. The existing SCADA system utilizes telephone landlines; however the upgraded SCADA system will utilize cellular or radio for communication and can be protected by back-up in the “cloud.” It will also enable remote access by TBMSD staff.

Impact on Operating Budget:

A reduction in telecommunications costs within the fiscal year 2016 annual operating budget is anticipated.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
TBMSD	<u>\$26,350</u>
	\$26,350
<u>Funding Sources:</u>	
Enterprise Fund	<u>\$26,350</u>
	\$26,350



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Toms Brook Pump Station 4 Replacement

Ranked Score: 10.00

Department/Function: Toms Brook-Maurertown Sanitary District (TBMSD)

Project Description:

This project replaces a 30-year old below-ground main sewer pump station. Design and engineering for this project began in fiscal year 2015 and is slated to be completed in fiscal year 2016.

Justification:

The existing 30-year old below ground main sewer pump station is inefficient and deteriorated. Replacement of the pump station will eliminate confined space entry by employees who need to descend a 25-foot ladder to access the sewer pumps. The project will also result in increased efficiencies over a 30-year old technology.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

	<u>FY 2016</u>
<u>Funding Uses:</u>	<u>Amount</u>
TBMSD	<u>\$215,000</u>
	\$215,000
<u>Funding Sources:</u>	
Enterprise Fund	<u>\$215,000</u>
	\$215,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Manhole Rehabilitation

Ranked Score: 9.25

Department/Function: Stoney Creek Sanitary District (SCSD)

Project Description:

This project provides for an epoxy spray rehabilitation of fifty (50) manholes in the sewer system.

Justification:

The epoxy spray rehabilitation to the wastewater collection system consisting of at least 1,400 manholes, the majority of which are compromised and leak, will help reduce infiltration and inflow (I/I) as well as flow impact to the wastewater treatment plant. The reduction of I/I will help avoid regulatory enforcement actions from the Department of Environmental Quality (DEQ) and will help reduce operating and capital costs by limiting the flows to the wastewater treatment plant. Because the average costs for the epoxy materials are \$750 to \$1,000 per manhole, depending on the depth, this project will rehabilitate fifty manholes in fiscal year 2016 with the anticipation of continuing this process for the remaining manholes in subsequent fiscal years.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

	<u>FY 2016</u>
<u>Funding Uses:</u>	<u>Amount</u>
SCSD	<u>\$50,000</u>
	\$50,000
<u>Funding Sources:</u>	
Enterprise Fund	<u>\$50,000</u>
	\$50,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Reline Pipe Replacement

Ranked Score: 9.25

Department/Function: Stoney Creek Sanitary District (SCSD)

Project Description:

This project continues the annual sewer pipe relining project in order to restore piping and reduce Infiltration and Inflow (I/I) into the 320,000 total linear feet of sewer system. Approximately 38,000 linear feet of sewer pipe has been relined to date with the anticipation of continuing to reline 8,000 linear feet per fiscal year. It is anticipated to ultimately reline approximately 150,000 linear feet of pipe due to the condition of asbestos-concrete and terra-cotta clay materials. The project costs include the materials as the labor associated with the project will be performed by the District’s staff.

Justification:

This relining project helps to reduce infiltration and inflow (I/I) as well as flow impact to the wastewater treatment plant. The reduction of I/I will help avoid regulatory enforcement actions from the Department of Environmental Quality (DEQ) and will help reduce operating and capital costs by limiting the flows to the wastewater treatment plant.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

Estimated costs for fiscal year 2016 are based on the following: 8,000 feet at \$16/ft = \$128,000

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
SCSD	<u>\$128,000</u>
	\$128,000
<u>Funding Sources:</u>	
Enterprise Fund	<u>\$128,000</u>
	\$128,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Water Main Loop – Section 8-9x

Ranked Score: 9.00

Department/Function: Stoney Creek Sanitary District (SCSD)

Project Description:

This project will install approximately 1,300 linear feet of 8-inch water main to strengthen the SCSD’s water distribution system for both consumption and fire flow.

Justification:

A major water distribution main is located under the ski slopes and 15 feet of snow during ski season. Any problem with that water main would isolate large portions of the service area. The proposed water main would provide a loop feed on the west side of the system and enable the SCSD to continue to deliver reliable service and fire flow in the event of a major water main break.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
SCSD	<u>\$15,600</u>
	\$15,600
<u>Funding Sources:</u>	
Enterprise Fund	<u>\$15,600</u>
	\$15,600



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: RedZone Sewer Assessment

Ranked Score: 8.25

Department/Function: Stoney Creek Sanitary District (SCSD)

Project Description:

This project is an on-going annual program (Year 3 of 7) that provides for an extensive sewer system asset management plan for inspection, evaluation, prioritization of the sewer system in order to implement the most efficient, cost-effective means of relining and replacing piping and manhole rehabilitation in order to ensure sustainability in the future.

Justification:

Since beginning this sewer assessment and asset management program, over 240,000 linear feet of sewer mains have been digitally inspected, evaluated, and rated for defects, which have enabled the SCSD to identify the most efficient and cost-effective approach for rehabilitation processes. Since inception of the program, the SCSD has decreased Infiltration and Inflow (I/I) by over 35 percent by focusing on the worst 10 percent of the sewer system.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
SCSD	<u>\$35,000</u>
	\$35,000
<u>Funding Sources:</u>	
Enterprise Fund	<u>\$35,000</u>
	\$35,000



Capital Improvement Program – Fiscal Years 2016 – 2020

Project Name: Septage Facility Decommissioning

Ranked Score: 8.00

Department/Function: Toms Brook-Maurertown Sanitary District (TBMSD)

Project Description:

This project will empty and clean the septage tanks at the Toms Brook-Maurertown Sanitary District wastewater treatment plant that are not in use due to the construction of the North Fork Wastewater Treatment Plant. The septage tanks will be converted to sludge holding.

Justification:

The septage tanks are idle and upon emptying and cleaning, they can be repurposed and put into operation as sludge holding in order to increase the sludge holding capacity for the TBMSD.

Impact on Operating Budget:

No significant impact on operating costs within the fiscal year 2016 annual operating budget.

Sources and Uses of Funding:

<u>Funding Uses:</u>	<u>FY 2016 Amount</u>
TBMSD	<u>\$15,000</u>
	\$15,000
<u>Funding Sources:</u>	
Enterprise Fund	<u>\$15,000</u>
	\$15,000



CAPITAL PROJECT FUNDING

A central and critical feature of the capital planning process is the identification of available sources of funding. The County has a full range of funding options available to it – from external sources such as federal and state grants, asset forfeiture funding, private contributions and donations, low- or no-interest subsidized loan programs to its own-source financing mechanisms such as pay-as-you-go financing and debt financing.

Shenandoah County Capital Improvement Program FY16 to FY20							
Capital Project Description	Department	Total Project Cost	FUNDING SOURCES				Total Funding Sources
			General Fund	Enterprise Fund	Federal and State Grant Funds	Asset Forfeiture Funds	
GENERAL FUND - FACILITIES AND MAINTENANCE PROJECTS							
Burn Building Repairs	Fire and Rescue	140,183	61,033	-	79,150	-	140,183
Carpet Replacement	General Properties	33,600	33,600	-	-	-	33,600
Landfill Expansion - Phase 3	Refuse Disposal	1,500,000	1,500,000	-	-	-	1,500,000
Gas Collection & Control System Expansion	Refuse Disposal	175,000	175,000	-	-	-	175,000
Carpet Replacement	Library Administration	5,500	5,500	-	-	-	5,500
UV Disinfection Installation	North Fork WWTP	75,000	29,325	45,675	-	-	75,000
Sheriff's Office Facilities	Sheriff (Law Enforcement)	600,000	-	-	-	600,000	600,000
Public Safety Security Upgrade	Emergency Communications	31,625	31,625	-	-	-	31,625
Fiscal Year 2016 General Fund Facilities and Maintenance Total		2,560,908	1,836,083	45,675	79,150	600,000	2,560,908



Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20							
			FUNDING SOURCES				
Capital Project Description	Department	Total Project Cost	General Fund	Enterprise Fund	Federal and State Grant Funds	Asset Forfeiture Funds	Total Funding Sources
GENERAL FUND - VEHICLE AND EQUIPMENT PROJECTS							
Replace Active Directory Server	Information Systems	12,500	12,500	-	-	-	12,500
Voting Equipment Replacement	Electoral Board	87,000	87,000	-	-	-	87,000
Animal Control Replacement Vehicle	Animal Control	45,429	31,429	-	14,000	-	45,429
Staff Replacement Vehicle	Fire and Rescue	34,438	34,438	-	-	-	34,438
Law Enforcement Replacement Vehicles (4)	Sheriff (Law Enforcement)	201,528	-	-	-	201,528	201,528
Pick-Up/Pit Truck Replacement	Refuse Disposal	-	-	-	-	-	-
Pick-Up/Fuel Truck Replacement	Refuse Disposal	20,000	20,000	-	-	-	20,000
Vehicle Replacement	Library Administration	20,000	20,000	-	-	-	20,000
Replacement of Computers	Information Systems	22,800	22,800	-	-	-	22,800
Zero Turn Mower Replacement	Parks and Recreation	14,000	14,000	-	-	-	14,000
Pick-up/On Road Truck Replacement	Refuse Disposal	34,000	34,000	-	-	-	34,000
Inspection Replacement Vehicle	Building Code Enforcement	19,750	19,750	-	-	-	19,750
Office Computers (6)	Sheriff (Law Enforcement)	20,292	20,292	-	-	-	20,292
Work Van	General Properties	34,000	34,000	-	-	-	34,000
Fiscal Year 2016 General Fund Vehicles and Equipment Total		565,737	350,209	0	14,000	201,528	565,737
TOTAL GENERAL FUND CAPITAL PROJECTS		3,126,645	2,186,292	45,675	93,150	801,528	3,126,645



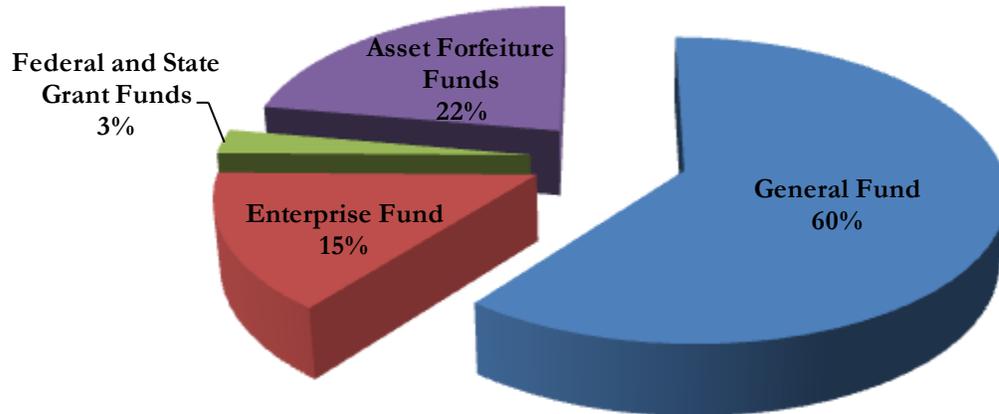
Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20							
			FUNDING SOURCES				
Capital Project Description	Department	Total Project Cost	General Fund	Enterprise Fund	Federal and State Grant Funds	Asset Forfeiture Funds	Total Funding Sources
ENTERPRISE FUND - FACILITIES AND MAINTENANCE PROJECTS							
SCADA Upgrade-Phase I	Toms Brook-Maurertown Sanitary District	26,350	-	26,350	-	-	26,350
Toms Brook Pump Station 4 Replacement	Toms Brook-Maurertown Sanitary District	215,000	-	215,000	-	-	215,000
Manhole Rehabilitation	Stoney Creek Sanitary District	50,000	-	50,000	-	-	50,000
Reline Pipe Replacement	Stoney Creek Sanitary District	128,000	-	128,000	-	-	128,000
Water Main Loop- Section 8-9x	Stoney Creek Sanitary District	15,600	-	15,600	-	-	15,600
RedZone Sewer Assessment	Stoney Creek Sanitary District	35,000	-	35,000	-	-	35,000
Septage Facility Decommissioning	Toms Brook-Maurertown Sanitary District	15,000	-	15,000	-	-	15,000
Fiscal Year 2016 Enterprise Fund Facilities and Maintenance Total		484,950	0	484,950	0	0	484,950
TOTAL ENTERPRISE FUND CAPITAL PROJECTS		484,950	0	484,950	0	0	484,950
GRAND TOTAL - ALL FUNDS - FISCAL YEAR 2016		3,611,595	2,186,292	530,625	93,150	801,528	3,611,595



Funding Sources – Pie Chart

Sources of Funding



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Capital Improvement Program – Fiscal Years 2016 – 2020

ADOPTED CAPITAL IMPROVEMENT PLAN

Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20				
Capital Project Description	Department	Fiscal Year	Total Project Cost	Average Ranked Scores
GENERAL FUND - FACILITIES AND MAINTENANCE PROJECTS				
Burn Building Repairs	Fire and Rescue	FY16	140,183	11.25
Carpet Replacement	General Properties	FY16	33,600	11.00
Landfill Expansion - Phase 3	Refuse Disposal	FY16	1,500,000	9.75
Gas Collection & Control System Expansion	Refuse Disposal	FY16	175,000	9.75
Carpet Replacement	Library Administration	FY16	5,500	9.50
UV Disinfection Installation	North Fork WWTP	FY16	75,000	9.50
Sheriff's Office Facilities	Sheriff (Law Enforcement)	FY16	600,000	7.50
Public Safety Security Upgrade	Emergency Communications	FY16	31,625	7.50
Fiscal Year 2016 Facilities and Maintenance Total			2,560,908	
County Farm Outbuildings Repairs	General Properties	FY17	15,000	8.75
County Admin Building Repairs	General Properties	FY17	10,000	8.50
Sheriff's Office Facilities	Sheriff (Law Enforcement)	FY17	5,400,000	7.50
Radio System Upgrade	Emergency Communications	FY17	400,000	7.50
Painting County Farm buildings	General Properties	FY17	20,000	7.50
Playground Expansion/ADA Upgrades	Parks and Recreation	FY17	75,000	6.50
Garage Construction	Fire and Rescue	FY17	50,000	5.50
Maintenance Work Shop	General Properties	FY17	15,000	5.25
Master Plan for M & Z Wagner Reg. Park	Parks and Recreation	FY17	30,000	4.75
Recreation Master Plan Update	Parks and Recreation	FY17	35,000	4.50
Fiscal Year 2017 Facilities and Maintenance Total			6,050,000	
Circuit Court Ceiling Tile Replacement	General Properties	FY18	11,000	8.75
Heat in Recycling Center	Refuse Disposal	FY18	75,000	6.00
Expand and Renovate Library Building	Library Administration	FY18	1,510,000	5.75
Park Lighting Upgrade and Additions	Parks and Recreation	FY18	325,000	5.00
Grant Match for Trail Connection	Parks and Recreation	FY18	50,000	5.00
Keister Tract-phase II Development	Parks and Recreation	FY18	300,000	4.50
Keister Tract-phase I Development	Parks and Recreation	FY18	95,000	4.25
Fiscal Year 2018 Facilities and Maintenance Total			2,366,000	



Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20				
Capital Project Description	Department	Fiscal Year	Total Project Cost	Average Ranked Scores
GENERAL FUND - FACILITIES AND MAINTENANCE PROJECTS				
M & Z Wagner Reg. Park - Phase I	Parks and Recreation	FY19	95,000	4.50
Keister Tract - Phase III Development	Parks and Recreation	FY19	200,000	4.50
Fiscal Year 2019 Facilities and Maintenance Total			295,000	
Access Road/Parking Improvements	Refuse Disposal	FY20	325,500	5.75
M & Z Wagner Reg. Park - Phase II	Parks and Recreation	FY20	300,000	4.75
Keister Tract - Phase IV Development	Parks and Recreation	FY20	500,000	4.50
Fiscal Year 2020 Facilities and Maintenance Total			1,125,500	
GENERAL FUND FACILITIES AND MAINTENANCE TOTAL			12,397,408	
GENERAL FUND - VEHICLE AND EQUIPMENT PROJECTS				
Replace Active Directory Server	Information Systems	FY16	12,500	10.00
Voting Equipment Replacement	Electoral Board	FY16	87,000	10.00
Animal Control Replacement Vehicle	Animal Control	FY16	45,429	10.00
Staff Replacement Vehicle	Fire and Rescue	FY16	34,438	9.75
Law Enforcement Replacement Vehicles (4)	Sheriff (Law Enforcement)	FY16	201,528	9.50
Pick-Up/Pit Truck Replacement	Refuse Disposal	FY16	-	9.25
Pick-Up/Fuel Truck Replacement	Refuse Disposal	FY16	20,000	9.25
Vehicle Replacement	Library Administration	FY16	20,000	8.75
Replacement of Computers	Information Systems	FY16	22,800	8.50
Zero Turn Mower Replacement	Parks and Recreation	FY16	14,000	8.25
Pick-up/On Road Truck Replacement	Refuse Disposal	FY16	34,000	8.25
Inspection Replacement Vehicle	Building Code Enforcement	FY16	19,750	8.00
Office Computers (6)	Sheriff (Law Enforcement)	FY16	20,292	7.75
Work Van	General Properties	FY16	34,000	7.75
Fiscal Year 2016 Vehicles and Equipment Total			565,737	



Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20				
Capital Project Description	Department	Fiscal Year	Total Project Cost	Average Ranked Scores
GENERAL FUND - VEHICLE AND EQUIPMENT PROJECTS				
Law Enforcement Replacement Vehicles (6)	Sheriff (Law Enforcement)	FY17	311,361	9.50
Personal Protective Equipment	Fire and Rescue	FY17	9,120	9.50
Roll-off Truck	Refuse Collection	FY17	145,500	9.50
Bucket Truck	General Properties	FY17	15,000	9.25
Emergency Medical Dispatch Upgrade	Emergency Communications	FY17	73,000	9.00
Welding and Maintenance Truck	Refuse Collection	FY17	37,000	9.00
GIS Server	Geographic Information Systems	FY17	7,000	8.50
Staff Replacement Vehicle	Fire and Rescue	FY17	34,438	8.50
Replacement of Computers	Information Systems	FY17	22,800	8.00
Office Computers (6)	Sheriff (Law Enforcement)	FY17	20,292	8.00
Track loader	Refuse Disposal	FY17	365,000	7.75
Inspection Replacement Vehicle	Building Code Enforcement	FY17	20,935	7.50
Breathing Apparatus	Fire and Rescue	FY17	57,000	7.25
Vehicle Replacement	Parks and Recreation	FY17	22,000	6.50
Dispatch Consoles Upgrade	Emergency Communications	FY17	95,800	6.25
Passenger Van Purchase	Parks and Recreation	FY17	23,000	5.00
Mobile RecTrac and Mobile WebTrac	Parks and Recreation	FY17	7,000	4.75
Fiscal Year 2017 Vehicles and Equipment Total			1,266,246	
Law Enforcement Replacement Vehicles (6)	Sheriff (Law Enforcement)	FY18	320,702	9.50
Animal Control Replacement Vehicle	Animal Control	FY18	45,429	8.75
GPS Receiver	Geographic Information Systems	FY18	7,000	8.50
Rubber Tire Front-end Loader	Refuse Disposal	FY18	184,000	8.50
Replacement of Computers	Information Systems	FY18	22,800	8.00
Office Computers (6)	Sheriff (Law Enforcement)	FY18	20,292	8.00
Ambulance Replacement	Fire and Rescue	FY18	250,000	7.75
Replace four (4) Circulation Work Stations	Library Administration	FY18	5,260	7.75
Inspection Replacement Vehicle	Building Code Enforcement	FY18	21,528	7.50
Skid Loader	Refuse Disposal	FY18	35,000	6.50
Digital Microfilm Scanner/Reader	Library Administration	FY18	7,277	5.75
Utility vehicle (UTV)	Parks and Recreation	FY18	10,149	5.00
Fiscal Year 2018 Vehicles and Equipment Total			929,437	



Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20				
Capital Project Description	Department	Fiscal Year	Total Project Cost	Average Ranked Scores
GENERAL FUND - VEHICLE AND EQUIPMENT PROJECTS				
Law Enforcement Replacement Vehicles (6)	Sheriff (Law Enforcement)	FY19	330,322	9.50
Replacement of Firewall/Router	Information Systems	FY19	7,000	9.00
Replace File Server	Information Systems	FY19	12,500	8.75
Excavator	Refuse Disposal	FY19	415,000	8.50
Backhoe	Refuse Disposal	FY19	175,000	8.25
Replacement of Computers	Information Systems	FY19	22,800	8.00
Office Computers (6)	Sheriff (Law Enforcement)	FY19	20,292	8.00
Ambulance Replacement	Fire and Rescue	FY19	250,000	7.75
Vehicle Replacement - E&S Inspections	Planning and Zoning	FY19	22,174	7.50
Large Format Plotter/Scanner	Geographic Information Systems	FY19	10,000	7.25
Library Data Server Replacement	Library Administration	FY19	9,000	7.25
Replace four (4) Circulation Work Stations	Library Administration	FY19	5,260	7.00
Fiscal Year 2019 Vehicles and Equipment Total			1,279,348	
Law Enforcement Replacement Vehicles (6)	Sheriff (Law Enforcement)	FY20	340,232	9.50
Articulated Dump Truck	Refuse Disposal	FY20	460,000	9.25
Replace Active Directory Server	Information Systems	FY20	12,500	9.00
Replacement of Computers	Information Systems	FY20	22,800	8.25
Staff Replacement Vehicle	Fire and Rescue	FY20	28,388	8.25
Office Computers (6)	Sheriff (Law Enforcement)	FY20	20,292	7.75
Vehicle Replacement - Comm Develop	Planning and Zoning	FY20	29,332	7.75
Fiscal Year 2020 Vehicles and Equipment Total			913,544	
GENERAL FUND VEHICLES AND EQUIPMENT TOTAL			4,954,312	



Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program FY16 to FY20				
Capital Project Description	Department	Fiscal Year	Total Project Cost	Average Ranked Scores
ENTERPRISE FUND - FACILITIES AND MAINTENANCE PROJECTS				
SCADA Upgrade-Phase I	Toms Brook-Maurertown Sanitary District	FY16	26,350	10.50
Toms Brook Pump Station 4 Replacement	Toms Brook-Maurertown Sanitary District	FY16	215,000	10.00
Manhole Rehabilitation	Stoney Creek Sanitary District	FY16	50,000	9.25
Reline Pipe Replacement	Stoney Creek Sanitary District	FY16	128,000	9.25
Water Main Loop- Section 8-9x	Stoney Creek Sanitary District	FY16	15,600	9.00
RedZone Sewer Assessment	Stoney Creek Sanitary District	FY16	35,000	8.25
Septage Facility Decommissioning	Toms Brook-Maurertown Sanitary District	FY16	15,000	8.00
Fiscal Year 2016 Facilities and Maintenance Total			484,950	
ENTERPRISE FUND FACILITIES AND MAINTENANCE TOTAL			484,950	
GRAND TOTAL - <i>Fiscal Year 2016</i> - All Funds and Types			3,611,595	
GRAND TOTAL - <i>All Fiscal Years</i> - All Funds and Types			17,836,670	



APPENDIX

Fiscal Year 2016 Capital Project Listing by Department

Shenandoah County Capital Improvement Program			
Capital Project Description	Fiscal Year	Total Project Cost	Average Ranked Scores
12510 Information Systems			
Replace Active Directory Server	FY16	12,500	10.00
Replacement of Computers	FY16	22,800	8.50
Total Information Systems		35,300	
13100 Electoral Board			
Voting Equipment Replacement	FY16	87,000	10.00
Total Electoral Board		87,000	
31200 Sheriff (Law Enforcement)			
Law Enforcement Replacement Vehicles (4)	FY16	201,528	9.50
Office Computers (6)	FY16	20,292	7.75
Sheriff's Office Facilities	FY16	600,000	7.50
Total Sheriff (Law Enforcement)		821,820	
32500 Fire and Rescue			
Burn Building Repairs	FY16	140,183	11.25
Staff Replacement Vehicle	FY16	34,438	9.75
Total Fire and Rescue		174,621	
34410 Building Code Enforcement			
Inspection Replacement Vehicle	FY16	19,750	8.00
Total Building Code Enforcement		19,750	
35100 Animal Control			
Animal Control Replacement Vehicle	FY16	45,429	10.00
Total Animal Control		45,429	
35500 Emergency Communications			
Public Safety Security Upgrade	FY16	31,625	7.50
Total Emergency Communications		31,625	
43200 General Properties			
Carpet Replacement	FY16	33,600	11.00
Work Van	FY16	34,000	7.75
Total General Properties		67,600	



Capital Improvement Program – Fiscal Years 2016 – 2020

Shenandoah County Capital Improvement Program			
Capital Project Description	Fiscal Year	Total Project Cost	Average Ranked Scores
71200 Parks and Recreation			
Zero Turn Mower Replacement	FY16	14,000	8.25
Total Parks and Recreation		14,000	
73100 Library Administration			
Carpet Replacement	FY16	5,500	9.50
Vehicle Replacement	FY16	20,000	8.75
Total Library Administration		25,500	
513-42800 Stoney Creek Sanitary District			
Manhole Rehabilitation	FY16	50,000	9.25
Reline Pipe Replacement	FY16	128,000	9.25
Water Main Loop- Section 8-9x	FY16	15,600	9.00
RedZone Sewer Assessment	FY16	35,000	8.25
Total Stoney Creek Sanitary District		228,600	
514-42900 Toms Brook-Maurertown Sanitary District			
SCADA Upgrade-Phase I	FY16	26,350	10.50
Toms Brook Pump Station 4 Replacement	FY16	215,000	10.00
Septage Facility Decommissioning	FY16	15,000	8.00
Total Toms Brook-Maurertown Sanitary District		256,350	
503-42300/503-42400 Solid Waste			
Landfill Expansion - Phase 3	FY16	1,500,000	9.75
Gas Collection & Control System Expansion	FY16	175,000	9.75
Pick-Up/Pit Truck Replacement	FY16	-	9.25
Pick-Up/Fuel Truck Replacement	FY16	20,000	9.25
Pick-up/On Road Truck Replacement	FY16	34,000	8.25
Total Solid Waste		1,729,000	
501-42700 North Fork WWTP			
UV Disinfection Installation	FY16	75,000	9.50
Total North Fork WWTP		75,000	
GRAND TOTAL - FISCAL YEAR 2016		3,611,595	