

**CAPITAL IMPROVEMENTS PLAN - PUBLIC WORKS
FY 2017-2021**

Public Works Capital*	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
Asphalt & Concrete Repairs	\$ 1,400,000	\$ 800,000	\$ 800,000	\$ 800,000	\$ 800,000	
Bridge Repair - Jeff Davis Highway Bypass over Route 3	-	-	-	-	-	7,875,000
Bridge Replacement - U.S. Route 1 over Canal	-	175,000	1,500,000	3,571,000	2,580,700	
Confederate & City Cemetery Brick Sidewalks	-	-	60,000	-	-	
Culvert Replacement	75,000	75,000	75,000	75,000	75,000	200,000
Downtown Streetscape Renovations	50,000	50,000	50,000	50,000	50,000	
Embrey Dam/Rappahannock Canal Footbridge	100,000	-	-	-	-	
Fall Hill Avenue Widening Project	2,880,000	-	-	-	-	
Lafayette Blvd Pedestrian Safety & Kenmore Roundabout	-	-	-	375,000	375,000	500,000
Riverfront Park	500,000	5,000,000	-	-	-	
Signals - Route 3	-	150,000	275,000	366,000	261,000	
Stormwater Management Plan	75,000	-	-	-	-	
Traffic Signal Modernization	100,000	250,000	250,000	250,000	250,000	
Wayfinding Signs Project Completion	-	80,000	80,000	80,000	80,000	
Wheeled Refuse Carts	100,000	-	-	-	-	1,320,000
Total	\$ 5,280,000	\$ 6,580,000	\$ 3,090,000	\$ 5,567,000	\$ 4,471,700	

Funding Sources	FY 2017	FY 2018	FY 2019	FY 2020	FY 2020	FY 20XX
RSTP Project Grant	\$ -	\$ -	\$ -	\$ 375,000	\$ 375,000	
DMV Overweight Tickets	20,000	20,000	20,000	20,000	20,000	
Motor Fuels Tax	50,000	50,000	50,000	50,000	50,000	
CMAQ: MPO Funding	-	-	275,000	366,000	261,000	
State Revenue Sharing	625,000	-	-	-	-	
CTB Bridge Formula - State	-	175,000	1,500,000	3,571,000	2,580,700	
Prior Year Capital Fund Balance	750,000	-	-	-	-	
General Fund Transfer	955,000	1,335,000	1,245,000	1,185,000	1,185,000	
Debt Issuance	2,880,000	5,000,000	-	-	-	
Total	\$ 5,280,000	\$ 6,580,000	\$ 3,090,000	\$ 5,567,000	\$ 4,471,700	

* A project sheet for the VDOT Princess Anne street improvements project is attached, but not included in this summary.

PUBLIC WORKS CAPITAL FUND

Asphalt & Concrete Program

Project Manager: Public Works

Project Description: Annual repaving program for asphalt and associated concrete work

Project Justification: Each year the City uses local and Virginia Department of Transportation revenue sharing funds to complete an asphalt reconstruction and repaving program. Major transportation roads in the City are candidates for the annual revenue sharing application while less travelled neighborhood streets are locally funded. The City is also now receiving primary roadway paving funds from VDOT as well, which requires no local match. The City maximizes funding available each year to address streets and roads in greatest needs of repair.

The maintenance of the City’s street system is essential to the transportation network, and supports the Comprehensive Plan’s goals in providing good transportation in the community.

Recommended Timeline: Each year of the CIP

Estimated Capital Cost:

FY 2017 - \$1,400,000
FY 2018 - \$800,000
FY 2019 - \$800,000
FY 2020 - \$800,000
FY 2021 - \$800,000

Estimated Ongoing Operational Cost:

The annual asphalt and concrete program maintains existing streets / roads / curb & gutter.

PUBLIC WORKS CAPITAL FUND

Bridge Repair – Jeff Davis Highway Bypass over State Route 3

Project Manager: Public Works

Project Description: Replace the bridge

Project Justification: This bridge was repaired several years ago using Revenue Sharing funding. It will eventually need to be replaced.

Recommended Timeline: FY 20XX

Estimated Capital Cost: \$7,875,000

Estimated Ongoing Operational Cost: Existing asset – no new operating costs.

PUBLIC WORKS CAPITAL FUND

Bridge Replacement – U.S. Route 1 over Canal

Project Manager: Public Works

Project Description: Replace the U.S. Route 1 Bridge over the Rappahannock Canal

Project Justification: The City has identified the U.S. 1 Bridge over the Rappahannock Canal as being in need of replacement. The original bridge dates from the 1940's and is approaching the end of its useful life.

Funding is set aside in the Commonwealth Transportation Board's Six-Year Plan for this work. This work is essential in maintaining a good transportation system, which is a goal of the Comprehensive Plan.

Recommended Timeline:

FY 2018 -	\$175,000
FY 2019 -	\$1,500,000
FY 2020 -	\$3,571,000
FY 2021 -	\$2,580,700

Estimated Capital Cost: See above - \$7,826,700

Estimated Ongoing Operational Cost:

The bridge is an existing asset and the replacement does not create any additional operating costs.

PUBLIC WORKS CAPITAL FUND

Confederate & City Cemetery Brick Sidewalk

Project Manager: Public Works

Project Description: This project will replace the existing concrete sidewalk along Washington Avenue, between Amelia and William Streets, with a new brick sidewalk. The new sidewalk will replace an aging sidewalk with a new brick sidewalk that will complement the appearance of the cemetery brick wall and allow for a wider green strip between the curb and sidewalk for the purpose of planting trees.

Project Justification: The new brick sidewalk will replace an aging sidewalk. The City typically converts approximately one block of concrete sidewalk in downtown to brick annually to enhance the attractiveness of the downtown area. This section of sidewalk is a prominent feature adjacent to the historic Confederate cemeteries. Also, the Green Subcommittee has recommended the replacement of the concrete sidewalk with brick and moving the new sidewalk farther away from the curb to facilitate the installation of new trees.

The City's Comprehensive Plan, in the Action Plan, specifically mentions under the goal area of Historic Preservation the development of brick sidewalks.

Recommended Timeline: FY 2018

Estimated Capital Cost: \$60,000

Estimated Ongoing Operational Cost: These funds are to replace existing assets.

PUBLIC WORKS CAPITAL FUND

Culvert Replacement

Project Manager: Public Works

Project Description: Culvert replacement funding is set aside each year so the Department of Public Works can maintain and upgrade if necessary the culvert and ditch drainage system. This funding also gives Public Works access to funding when culverts or drainpipes need emergency repair.

Project Justification: The City’s storm drains and culverts require periodic maintenance and replacement in order to continue to function.

The Comprehensive Plan discusses the need to possibly build new or retrofit existing stormwater management facilities, and this funding will help support that goal.

Recommended Timeline:

- FY 2016 - \$75,000
- FY 2017 - \$75,000
- FY 2018 - \$75,000
- FY 2019 - \$75,000
- FY 2020 - \$75,000
- FY20XX - \$200,000

Estimated Capital Cost: See above - \$575,000

Estimated Ongoing Operational Cost: These funds are to replace existing assets.

PUBLIC WORKS CAPITAL FUND

Downtown Streetscape Renovations

Project Manager: Public Works

Project Description: The ornamental lights in the downtown historic district need to be upgraded and converted to a more energy efficient form of lighting. In addition, the comprehensive plan calls for the re-start of the brick sidewalk program in the downtown.

Project Justification: The City currently has a mix of concrete and brick sidewalks in the downtown historic district. In addition, the City owns and is responsible for the maintenance of streetlights and ornamental lights in the downtown. Funding is set aside for improvements in these areas in FY 2016 and FY 2017.

The Comprehensive Plan also supports the development of brick sidewalks in the community.

Recommended Timeline: Funding is set aside in FY 2016 and FY 2017.

Estimated Capital Cost: \$50,000 each year

Estimated Ongoing Operational Cost: Brick sidewalks generally do require more maintenance and monitoring than concrete sidewalks.

PUBLIC WORKS CAPITAL FUND**Embrey Dam / Rappahannock Canal Footbridge**

Project Manager: Public Works

Project Description: This project is the construction of a footbridge on the City's Embrey Dam/Rappahannock Canal (EDRC) trail where a section of the trail has been significantly washed out. This portion of the EDRC trail is currently closed due to safety concerns. The EDRC is designated as an integral part of the City's pathways system, according to the Fredericksburg Pathways Master Plan. The trail is heavily used by hikers, mountain bikers and other nature enthusiasts. It is also used for various trail competition events.

Project Justification: The trail is currently closed and will remain closed until a new footbridge is completed. The washout was so extensive (approximately 12' deep x 10' wide) that simple methods of bridging the gap are not possible.

The maintenance of the trail supports the City's multi-modal transportation system and the City's recreational offerings, both of which are supported in the City's Comprehensive Plan.

Recommended Timeline: FY 2017.

Estimated Capital Cost: \$100,000 each year

Estimated Ongoing Operational Cost: Routine Maintenance as applies to other trails within the Fredericksburg Pathways.

PUBLIC WORKS CAPITAL FUND**Fall Hill Avenue Widening Project**

Project Manager: Public Works and the Virginia Department of Transportation

Project Description: The widening of Fall Hill Avenue to four through lanes with appropriate turning lanes from Carl D. Silver Parkway to Jefferson Davis Highway at Mary Washington Boulevard, including a four lane bridge over Interstate 95, a sidewalk on the south side of Fall Hill Avenue and a bicycle path on the north side and extension of Mary Washington Boulevard from its current terminus at the rear of the Mary Washington Hospital campus westward to Fall Hill Avenue just west of the Rappahannock Canal, a total project distance of approximately 2.05 miles

Project Justification:

- The road will increase travel lanes available and improve traffic flow in that area of the City
- The expanded road and new bridges will provide a safe means of travel for pedestrians and bicyclists

Recommended Timeline:

- The project is currently underway with an estimated project completion date of January 2017

Estimated Capital Cost: The total project budget is \$44,000,000 with the City's local match totaling \$2,880,000

Estimated Ongoing Operational Cost:

- After the completion of the road way the City of Fredericksburg will assume the maintenance and snow removal cost of the additional lane miles.

PUBLIC WORKS CAPITAL FUND

Lafayette Boulevard Pedestrian Safety & Lafayette / Kenmore Roundabout

Project Manager: Public Works

Project Description: The City has included funding in the FY 20xx long-range plan year for pedestrian improvements along Lafayette Boulevard, which is a heavily-travelled corridor for pedestrians. In addition, there is a project to replace the existing traffic signal at Lafayette Boulevard and Kenmore Avenue with a traffic circle.

Project Justification: The City's long-range plan should include improvements for pedestrians along Lafayette Boulevard, in accordance with the Lafayette Boulevard corridor study. The traffic circle design has the potential to improve the flow of both vehicular and pedestrian traffic in that intersection, although more detailed study is required. This improvement may require right-of-way acquisition as well.

Recommended Timeline: Roundabout – FY 2020 for design
Pedestrian Improvements – FY 2020-FY 20XX

Estimated Capital Cost: Roundabout design costs - \$375,000 (FY 2020)
Pedestrian & Roundabout Improvements - \$875,000
(\$375,000 in FY 2020 – \$500,000 in FY20XX)

Estimated Ongoing Operational Cost: Additional pedestrian facilities, such as sidewalks, would require long-term maintenance. The traffic circle project will also require long-term maintenance; however, there are cost savings associated with the removal of a traffic signal, including power costs and costs for replacement controllers, lights, etc.

PUBLIC WORKS CAPITAL FUND

Riverfront Park Development

Project Manager: Parks, Recreation, and Public Facilities & Riverfront Park Task Force

Project Description: Riverfront Park – to be developed along Sophia Street on the Rappahannock River between Hanover Street and just south of Charlotte Street.

Project Justification: The City currently has completed a concept design, which provides a basic plan for the park. The City Council wished to simplify the park concept design, in order to lower the overall cost of park development. The City is currently refining the concept design and providing better cost estimates during the schematic design phase, which should be complete during FY 2016. Assuming approval of the schematic design, the City will move forward with construction plans and eventually construction of the park, based upon a \$5,000,000 construction budget.

The City's Comprehensive Plan / Action Plan includes the establishment of an urban riverfront park as a focal point for the community under the "Public Facilities and Services" category.

Recommended Timeline:

FY 2017 -	\$500,000
FY 2018 -	\$5,000,000

Estimated Capital Cost: \$6,000,000 (including current year funding)

The City's 2015 bond issue included \$1,000,000 for design and related pre-construction services for the Riverfront Park. This includes both the schematic design phase as well as construction design documents. There is \$500,000 budgeted in FY 2016 for design.

The City's Recommended Capital Improvements Plan includes \$5,000,000 for the actual park construction during FY 2018. The City will need to borrow the funds for the construction of this park project.

Estimated Ongoing Operational Cost:

The City anticipates that there will be an increase in operating costs associated with the Riverfront Park, based on the ultimate design and the ongoing usage of the property. Based on an increase in maintenance work hours equivalent to one full-time employee, plus utilities and other maintenance, the ongoing cost for operations can be roughly estimated at \$50,000 per year.

PUBLIC WORKS CAPITAL FUND

Signals – Route 3

Project Manager: Public Works

Project Description: The City of Fredericksburg, through the FAMPO, has obtained future capital funding for Phase II of various improvements to the traffic signals on State Route 3.

Project Justification: This will allow for the signals to be updated with the most efficient equipment along with the ability to be optimized to current travel conditions creating the safest and best flowing traffic pattern for this area.

Recommended Timeline:

FY 2018	\$150,000
FY 2019	\$275,000
FY 2020	\$366,000
FY 2021	\$261,000

Estimated Capital Cost: See above

Estimated Ongoing Operational Cost: The City already maintains these systems.

PUBLIC WORKS CAPITAL FUND

Stormwater Management Plan

Project Manager: Community Planning and Building

Project Description: Funding is planned for a Stormwater Management Plan, to assist with various MS4 permit and VSMP requirements.

Project Justification: This is under evaluation and is a candidate to move to the City's new Stormwater Management Fund. The City faces a variety of stormwater management requirements related to MS4 and the Virginia Stormwater Management Program. This is also supported by the Comprehensive Plan, which references the MS4 and Virginia Stormwater Management Program.

Recommended Timeline: FY 2017

Estimated Capital Cost: FY 2017 - \$75,000

Estimated Ongoing Operational Cost:

The plan will likely identify a variety of stormwater management requirements that will increase operational costs for the City.

PUBLIC WORKS CAPITAL FUND**Traffic Signal Modernization**

Project Manager: Public Works

Project Description: The City has requested Traffic Signal projects through the FAMPO, and also has identified revenue sharing and other local funds for traffic signal replacements throughout the planning period.

Project Justification: This project will allow for the signals to be updated with the most efficient equipment along with the ability to be optimized to current travel conditions. In addition, there is a specific project included in the FY 2016 budget for the following intersections:

- Amelia Street and Caroline Street
- Amelia Street and Princess Anne Street
- Amelia Street and Prince Edward Street
- Lafayette Boulevard and Princess Anne Street
- Lafayette Boulevard and Caroline Street.

The Comprehensive Plan supports the development of a multi-modal transportation system, and the upgrading of the traffic signals will support this effort.

Recommended Timeline:

Downtown Revenue Sharing and Other Intersections (\$100,000 in FY 2017; \$250,000 / year FY 2018-2021)

Estimated Capital Cost: See above

Estimated Ongoing Operational Cost:

- After the completion of the signals the City of Fredericksburg will assume the maintenance.

PUBLIC WORKS CAPITAL FUND

Wayfinding Signs Project Completion

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Completion of the Wayfinding signs will provide clear directions and travel assistance to those visiting our City. The project began in 2007 and this funding is for Phase II of the project.

Project Justification: Completion of the signage system is necessary to assist visitors and residents to key destinations in the City. This effort supports the City's transportation system.

Recommended Timeline: FY 2018 – 2021 - \$80,000 per year.

Estimated Capital Cost: \$320,000

Estimated Ongoing Operational Cost: The City estimates an annual operating cost of \$25,000 per year upon completion of all phases, and the City may decide to contract or to perform maintenance in-house.

PUBLIC WORKS CAPITAL FUND**Wheeled Refuse Carts**

Project Manager: Public Works

Project Description: In June 2014, the City began a pilot program to evaluate the effectiveness of a modified system for residential solid waste and recycling collection. The pilot program introduced 65 gallon roll-out carts for both solid waste and recycling, and changed the location and frequency of collection from backyard collection twice a week to curbside collection once a week. The pilot program took place in two neighborhoods: College Heights and Darbytown. Approximately 500 customers were included, which is roughly 13% of the total number of current customers citywide.

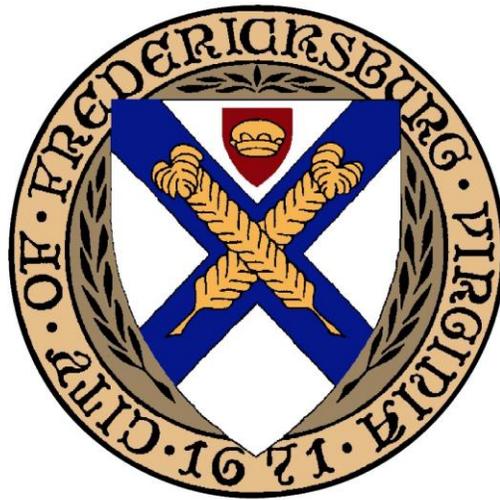
Project Justification: The success of the pilot program, and the lessons we learned, have given us confidence that we can expand the program to other neighborhoods in Fiscal 2016. The Recommended Budget includes funds to expand the program in a phased manner during the next two fiscal years

Recommended Timeline: FY 2017

Estimated Capital Cost: \$100,000

Estimated Ongoing Operational Cost:

- After the initial capital purchase there should be operational savings in labor and fuel by going to once per week pick up.



**CAPITAL IMPROVEMENTS PLAN - PUBLIC FACILITIES
FY 2017-2021**

Public Facilities	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY20XX
Technology Replacements	\$ 237,500	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Enterprise Resource Planning System	-	500,000	500,000	500,000	-	-
IT Resilience Plan Implementation	96,900	86,500	48,000	-	-	-
Police Voice over IP Phone System	-	-	-	102,300	-	-
Parking Garage System Replacement	-	120,000	-	-	-	-
Document Management System	-	-	-	137,500	-	-
Fiber Network to City Shop	-	-	96,700	-	-	-
Alum Springs Bridge	-	-	-	1,310,000	-	-
Alum Springs Storage Building and Restroom	-	-	-	224,000	-	-
Energy Retrofit	55,000	46,000	-	-	-	185,000
Dixon Park Community Center	-	-	-	-	-	25,000,000
Dixon Park Improvements	-	-	-	240,000	-	114,000
Museum Building Stabilization	-	-	-	-	-	350,000
HVAC Replacements	75,000	-	75,000	-	-	-
Memorial Park Tennis Court Improvements	-	151,000	175,000	-	-	-
Memorial Park Restrooms	105,000	-	-	-	-	-
Motts Reservoir Paving	-	-	-	-	-	250,000
Old Mill Park Restrooms	-	-	-	-	100,000	-
Pathway - Embrey Dam	-	-	-	-	-	540,000
Roof Replacements	95,000	75,000	75,000	75,000	75,000	-
Executive Plaza	-	-	-	-	-	5,000,000
Downtown Parking Garage	-	-	-	3,000,000	7,000,000	-
Sophia Street Parking Garage Maintenance Project	-	-	190,000	-	-	-
Liberty Place Parking Garage Agreement	-	2,150,000	-	-	-	-
Planning Area Plan Updates	75,000	150,000	150,000	150,000	150,000	-
Central Rappahannock Regional Library	-	-	-	-	-	10,933,605
Total	\$ 739,400	\$ 3,578,500	\$ 1,609,700	\$ 6,038,800	\$ 7,625,000	

Funding Sources	FY 2017	FY 2018	FY 2019	FY 2020	FY 2020	FY20XX
General Fund Transfer	\$ 464,400	\$ 3,578,500	\$ 1,609,700	\$ 1,504,800	\$ 625,000	
Prior Year Capital Fund Balance	250,000	-	-	-	-	
Interest Earnings	25,000	-	-	-	-	
Debt Issuance	-	-	-	4,534,000	7,000,000	
Total	\$ 739,400	\$ 3,578,500	\$ 1,609,700	\$ 6,038,800	\$ 7,625,000	

Technology Replacements

Project Manager: Information Technology

Project Description: The City replaces computer technology used by our operating Departments through the capital fund, currently on an approximate four-year cycle.

Project Justification: Ongoing funding for computer replacements for worn or outdated computers is essential for City operations.

Recommended Timeline:

- Funding is included in each year of the CIP.

Estimated Capital Cost:

\$237,500 in FY 2016
\$300,000 in FY 2017
\$300,000 in FY 2018
\$300,000 in FY 2019
\$300,000 in FY 2020

Estimated Ongoing Operational Cost:

- The IT budget contains a variety of ongoing operating costs related to the City's computer systems; however, the replacement program does not by itself create special additional operating costs.

Enterprise Resource System Replacement

Project Manager: Information Technology

Project Description: Replace the software package that currently is used for the following City functions:

- Tax Assessment
- Billing, Collection and Cashiering
- Web services for Citizens and Businesses
- Payroll & Human Resource
- Financial Management
- Utility Management
- Community Development (Planning and Building & Development).

Project Justification:

- The current City system is 27 years old and runs on an antiquated platform.
- Costs to make improvements to the system have become increasingly more expensive.
- The time to implement the limited system improvements available system is often lengthy.
- There is limited availability of programmers to work on existing applications or develop new products on the AS400 platform.
- Many localities are upgrading financial systems making the client group of our existing provider smaller each year.
- Elected Officials and key City staff are committed to carrying out the massive project.
- A new system would allow for more online services for citizens.
- A new system would help Community Development functions become more efficient, automated and customer service friendly.

This is a key initiative of both the IT Master Plan and the Novak Organizational Study.

Recommended Timeline: Split the project into two years:

- Begin with replacing the financial portions of the system in FY 2018
- Then address the City Management suite which includes community development, code enforcement and the assessment system in FY 2019 and FY 2020.

Estimated Capital Cost: \$1,500,000 split over three years

Estimated Ongoing Operational Cost: \$75,000 yearly

- Current software maintenance costs are approximately \$45,000; a net increase to the annual budget of \$30,000
- The project will require an additional full-time position that is dedicated full-time to this project. These systems are integral to the everyday functioning of the City across many functional areas, and the current system is used by a great many employees in their day-to-day work. The replacement must be carefully managed and include a great deal of departmental input and ongoing training in order to be successful.

IT Resilience Plan Implementation

Project Manager: Information Technology

Project Description: Various IT System Improvements

Project Justification: There are various improvements related to strengthening the City's IT Systems and in making things more redundant for the City.

In FY 2017, funding is recommended to relocate the servers in the Police Department to a more suitable area away from a wet sprinkler system. In addition, there is funding requested for moving the City's Emergency Operations Center from Fire Station 2 to the Police Headquarters.

In FY 2018 there is funding requested to provide backup systems for the City's Public Safety and the City Hall platforms.

In FY 2019 there is funding requested to provide a backup to the E-911 Dispatch Center from the City's Mobile Command Vehicle.

These initiatives have been identified and supported in the City's IT Strategic Plan.

Recommended Timeline:

FY 2017 - \$96,900
FY 2018 - \$86,500
FY 2019 - \$48,000

Estimated Capital Cost: \$231,400

Estimated Ongoing Operational Cost:

The City estimates additional operating costs associated with these projects to be \$9,720 beginning in FY 2017, \$11,323 in FY 2018 and \$17,800 in FY 2019. These are associated with software maintenance and telephone changes.

Telecommunications Replacement (Police Voice over IP)

Project Manager: Information Technology

Project Description: Replace telecommunications systems as they become out-of-date.

Project Justification: The replacement of the telecommunications system in City Hall was completed during FY 2016. Future funding is to replace other systems – notably at the Police Department Head Quarters (PDHQ). The system at PDHQ will be approximately 14 years old in FY 2020 and will have exceeded its useful life.

Recommended Timeline & Capital Cost: FY 2020 - \$102,300

Estimated Ongoing Operational Cost:
These are replacement telephone systems.

Parking Garage System Replacement

Project Manager: Information Technology

Project Description: Funding is requested for a replacement to the collection system in the Sophia Street Parking Garage.

Project Justification: The collections and ticketing system in the Sophia Street Parking Garage is reaching the end of its useful life. The hardware is functional but the software is dated and in need of update from the vendor. Funding is requested in FY 2018 for the purchase of a replacement system.

Recommended Timeline & Capital Cost: FY 2018 - \$120,000

Estimated Ongoing Operational Cost:

IT estimates that the ongoing software maintenance and other maintenance required will cost approximately \$25,000 annually, and would need to be included in the Parking Fund budget.

Document Management System

Project Manager: Information Technology

Project Description: Provide a comprehensive document management system in order to more efficiently and cost effectively store, manage, and retrieve documents.

Project Justification: A document management system creates a unified and consistent system where information can be securely organized. This system would ease compliance with Public Records Act and the Library of Virginia guidelines and enable faster response to Freedom of Information Act requests. A consolidated document system would reduce the need for paper document storage as well as provide the ability to apply workflow to better manage interdepartmental business.

Recommended Timeline: FY 2020

Estimated Capital Cost: \$137,500

Estimated Ongoing Operational Cost: Additional research required to determine ongoing software or other maintenance costs, plus training costs for new and current employees. Savings for document storage and time spent managing documents are anticipated but hard to quantify.

Fiber Network to City Shop

Project Manager: Information Technology

Project Description: Provide a fiber connection to City Shop in the Battlefield Industrial Park.

Project Justification: The City Shop houses the office of our CAD Drafter, whose job function is editing and maintaining the City of Fredericksburg's Utilities in a GIS database. Currently, the ability to connect to the City's GIS servers is nearly impossible from the City Shop when creating time sensitive projects and maps. Staff must temporarily relocate to City Hall to finish this work. Other non-time sensitive GIS work must be scheduled to be completed at City Hall or stored on a thumb drive and sent over to IT for upload. Fiber optics provide large capacity, high speed data transmission over long distances and would considerably improve the work capabilities to our growing network of utility applications.

The intended creation of a Traffic Operations Center at the City Shop will further support the need for connectivity via the City's fiber network. Without the proposed fiber extension, a new dedicated Cox Communications lease line will be necessary to provide traffic signal communications to the central traffic operations center server. Connection to the City's fiber network also increases the potential for enhanced traffic signal network communications by linking existing traffic signals to the existing City fiber network along its path. This will enhance the connectivity and bandwidth, while also eliminating the recurring monthly lease line payment to Cox Communications at the respective locations.

In addition to the above, this project will enable staff at the City Shop to access City-wide drives available to many other departments and on which important shared city documents are stored. The City Shop would also be able to utilize the City's internet pipe and firewalls saving costs and reducing the management platform for IT.

Recommended Timeline: FY 2019

Estimated Capital Cost: \$96,700

Estimated Ongoing Operational Cost: The extension of fiber to the City Shop would not significantly add to operating costs.

Alum Springs Bridge Replacement

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Replace the existing concrete ford in Hazel Run with a bridge or culvert facility at the vehicle entrance to the Alum Springs Park Facility.

Project Justification: The City's current concrete ford facility is nearing the end of its useful life, and has been repaired extensively in the last couple of years to remain operational. The City has evaluated several options, and recommends that a bridge be installed to replace this facility.

The bridge will eliminate the ford crossing, and provide environmentally-friendly access to the park, which currently must be closed if the weather causes Hazel Run to rise. (In July 2014 four people escaped unharmed after being caught in a flash flood that took their sport utility vehicle downstream).

The Recommended CIP proposes that this project, along with a project to renovate the restroom and storage building, be funded using borrowed funds in FY 2020.

Recommended Timeline: The recommended CIP shows this in FY 2020.

Estimated Capital Cost: \$1,310,000

Estimated Ongoing Operational Cost: There are costs associated with ongoing bridge maintenance and eventually the bridge will need to be replaced. However, essentially the request replaces the existing ford, which has required repair in the last several fiscal years and is at the end of its useful life.

Alum Springs Storage and Restroom Building

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Replace existing restroom and storage facility with an ADA-accessible option to house park maintenance equipment and classroom space and serve the park as well as the VCR trail with accessible restrooms.

Project Justification: The restroom building has restrooms that are ADA compliant. However, they are difficult to access, particularly from the trail side. Renovations of the building for access will also allow for improved storage of park supplies as well as classroom space in which additional revenue-producing programs could be offered.

The building renovations to get both handicapped access to the ADA-compliant restrooms as well as the classroom space and improved storage. FY2020 is proposed to begin the bridge project. The attempted repairs to the roadway access are failing and the water is chipping away at the patches that have been applied.

The Recommended CIP proposes that this project, along with a project to renovate the restroom and storage building, be funded using borrowed funds in FY 2020.

Recommended Timeline: The recommended CIP shows this in FY 2020.

Estimated Capital Cost: \$224,000

Estimated Ongoing Operational Cost: There are costs associated with the expansion and renovation of the building, but it would not be permanently occupied. Additional operating costs should be minimal.

Energy Retrofit

Project Manager: Parks, Recreation, and Public Facilities – Public Facilities

Project Description: Various City Facilities – Upgraded Utilities

Project Justification: The City plans to incorporate changes to the decorative fixture heads at the Train Station for FY 2017 – changing them to LED at a cost of \$55,000. Additional funding is requested at the train station in FY 2018 for \$46,000. The FY 20XX funding is for future projects throughout the City.

Recommended Timeline:

FY 2017 - \$55,000
FY 2018 - \$46,000
FY 20xx - \$185,000

Estimated Capital Cost: The total cost of the funded project at the train station is \$101,000.

Estimated Ongoing Operational Cost:
Ongoing energy usage should decrease and operating costs should be lower as a result.

Dixon Park Community Center

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Develop a Community Center at Dixon Park

Project Justification: This would be a facility that will provide space for various community activities with the construction of community rooms as well as a gymnasium. The new Director and the Recreation Commission will need to work on the proposed programming for the new facility, including whether to include items such as a fitness center or an indoor pool.

The Action Plan of the Comprehensive Plan does include as an item the development of a community center, possibly including the acquisition of additional property.

The amount of funding in the FY 20XX will require a major debt issuance.

Recommended Timeline: The capital improvements plan currently has this funding in FY 20XX.

Estimated Capital Cost: The current plan has a budget of \$25,000,000.

Estimated Ongoing Operational Cost: This is a new facility for the City, but would have some aspects of replacement for offices currently in the Dorothy Hart Community Center. However, most of the facility, and most of the usage, would be new to the community. Additional research on operating costs will be necessary as the City settles on a proposed program for the center. For example, an indoor pool is a high-maintenance item, but gymnasium space is less costly to operate.

Additional staffing will certainly be needed, as well as furniture, equipment, and utilities costs.

Dixon Park Improvements

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Funding is included in the Capital Improvements Plan for a variety of improvements to the Dixon Park, including lighting for the parking lot and similar improvements.

Project Justification:

The Department of PRPF and the Recreation Commission support completion of the lights in the parking lot, and other similar items. The original park plan included these items but they were placed in a future phase for cost reasons at the time the project was constructed.

Recommended Timeline: FY 2020

Estimated Capital Cost: \$240,000

Estimated Ongoing Operational Cost:

There will be costs associated with additional lighting.

Museum Building Stabilization

Project Manager: Parks, Recreation, and Public Facilities

Project Description: The City owns the Old Town Hall building that is under lease to the Fredericksburg Area Museum. The Recommended CIP includes placeholder funding for any repairs that may arise in the future for the building.

Project Justification: The City's Old Town Hall building is currently on the list of buildings that are having elevator work as a result of the elevator repair contract. Eventually, the roof and HVAC system will need replacement, and there are other repairs that will also become necessary as time moves on. This funding is a placeholder recognition of the need to fund ongoing maintenance of the building.

Recommended Timeline: FY 20XX

Estimated Capital Cost: The Recommended CIP includes \$350,000; however, this figure will need to be refined as repairs or replacements are identified and placed in the planning horizon.

Estimated Ongoing Operational Cost:

The maintenance of the building should not appreciably add to operating costs for the City.

Maintenance Repairs & HVAC Replacements

Project Manager: Parks, Recreation, and Public Facilities

Project Description: The City capital improvements plan includes funding for various replacements for HVAC and other maintenance needs throughout the planning period.

Project Justification:

Recommended Timeline: FY 2017 - \$75,000
 FY 2019 - \$75,000

Estimated Capital Cost:

Estimated Ongoing Operational Cost:

These are existing City facilities and there are no additional ongoing operating costs. The City should save funds on the maintenance contract for the first year of operation for new HVAC systems.

Memorial Park Tennis Courts

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Improvements at Memorial Park Tennis Courts:

- Resurface and reline courts one through six.
- Replace lights on courts one through six.
- Install lights on courts seven and eight.

Project Justification: The courts are beginning to show cracks that, if not repaired, will continue to expand, and will pose a danger to the players. The existing lights do not deliver the proper amount of light needed to play at night and are not effective at reducing spill light to neighboring residents. The proposed lights provide over 50 foot-candles of light to the courts, reduce spill light by 50%, and reduce energy costs. The installation of lights on courts seven and eight will increase the available number of courts that can be played on after dusk

Recommended Timeline: The Recommended CIP includes this funding in FY 2017.

Estimated Capital Cost: \$151,000 in FY 2018 - \$36,000 (resurfacing), \$115,000 (new lights).
\$175,000 in FY2019 – (replacement lights)

Estimated Ongoing Operational Cost: There are no additional ongoing operational costs anticipated with this project. The new lights are more efficient and are expected to reduce energy costs.

Memorial Park Restrooms

Project Manager: Parks, Recreation, and Public Facilities

Project Description: A new restroom facility is needed at Memorial Park.

Project Justification: The City currently relies on portable facilities at Memorial Park for restrooms, which should be replaced with a standalone restroom facility. A stand-alone restroom facility would be a much needed improvement to the park.

A permanent facility will allow space for parents to take their children to the restroom and also to allow for hand-washing. The current rentals are single-user facilities and are not equipped for hand-washing stations.

Recommended Timeline: The Recommended CIP includes this funding in FY 2017.

Estimated Capital Cost: \$105,000

Estimated Ongoing Operational Cost:

This is a new facility and will require additional costs for maintenance and upkeep. Existing portable facilities will be removed.

Motts Reservoir Improvements

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Future funding is set aside for improvements to the City's Motts Run facilities.

Project Justification: Funding is requested for paving between River Road and the parking lot at the Marina. Funding is also requested for paving the upper parking lot.

Recommended Timeline: FY 20XX

Estimated Capital Cost: \$250,000

Estimated Ongoing Operational Cost:

There is currently a road in place. Paving the road should decrease the operating costs of keeping the gravel in order. However, the pavement will need to be re-done periodically.

Old Mill Park Restrooms

Project Manager: Parks, Recreation, and Public Facilities

Project Description: This request is to expand the current restroom facilities at Old Mill Park, plus create a paved area in the existing gravel parking lot.

Project Justification: The expansion of the current restrooms will assist with ADA compliance. The creation of a paved parking area and a paved path between the restrooms and Shelter D will also assist with accessibility. The expansion of the permanent structure would provide much improved service to the park and eliminate the monthly fee for a portable accessible restroom.

Recommended Timeline: FY 2021

Estimated Capital Cost: \$100,000

Estimated Ongoing Operational Cost: The expanded facility will allow for savings on the rental of the portable accessible restroom facility.

Pathway – Embrey Dam

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Development of Embrey Dam Trail

Project Justification: The Embrey Dam Trail is included in the Pathways Plan.

Recommended Timeline: FY 20XX

Estimated Capital Cost: \$540,000

Estimated Ongoing Operational Cost:

Roof Replacements

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Replacement of roof facilities that have reached the end of their useful life.

Project Justification: Replacement of aged roof facilities is necessary as the City owns a variety of public buildings.

Recommended Timeline: FY 2017 – FY 2021

<i>Estimated Capital Cost:</i>	FY 2017 - \$95,000
	FY 2018 - \$75,000
	FY 2019 - \$75,000
	FY 2020 - \$75,000
	FY 2021 - \$75,000

Estimated Ongoing Operational Cost: These are existing City facilities and there are no additional ongoing operating costs.

Executive Plaza Maintenance

Project Manager: Parks, Recreation, and Public Facilities

Project Description: The Executive Plaza building has been a tremendous asset to the City, as the court project and other office needs have arisen. Temporary court facilities were established for the Juvenile and Domestic Relations Court for the past two fiscal years, until the permanent facility was opened on Princess Anne Street. Currently, temporary offices have been established for Fredericksburg City School personnel as the facility at the Original Walker-Grant complex is renovated.

Offices for Fire Administration, Information Technology, the City Attorney's Office, the Commonwealth Attorney's Office, the Voter Registrar, and the City Safety Officer are currently housed in addition to School personnel. Funding is requested in the plan for periodic maintenance for this large office building.

Project Justification: Funding was provided in FY 2016 for window caulking and elevator renovations.

Recommended Timeline: FY 2016 & FY 20XX

Estimated Capital Cost: FY 20XX - \$5,000,000 is set aside; however, this figure will be revised in the future as specific needs are identified.

Estimated Ongoing Operational Cost:

These are existing City facilities and there are no additional ongoing operating costs. The City should save funds on the maintenance contract for the first year of operation for the rebuilt elevators, as maintenance will be under warranty.

New Downtown Parking Garage

Project Manager: City Manager's Office & PRPF & EDT

Project Description: New Downtown Parking Garage

Project Justification: The Goals and Initiatives requests development of a second downtown parking garage. The Liberty Place agreement will provide a public-private partnership that will alleviate parking pressure in the areas west of the intersection of William Street and Prince Edward Street.

The staff has continued to evaluate potential sites for another deck, in addition to the Sophia Street parking deck. This project sheet reflects the City Council's desire to implement a second public parking deck in the downtown, preferably north of the existing Sophia Street Parking Garage.

Recommended Timeline: FY 2020 \$3,000,000 Design & Land Acquisition
 FY 2021 \$7,000,000 Construction

Estimated Capital Cost: \$10,000,000

Estimated Ongoing Operational Cost:

This project will add operating costs. Parking revenues would be available to offset operating costs; however, a subsidy may be needed to offset debt service and / or operating costs.

The City utilizes a combination of surplus motor fuels taxes and parking garage fee revenue at the Sophia Street Parking Garage to meet expenses. The City budgets approximately \$650,000 per year for ongoing expenses and debt service at the Sophia Street Parking Garage, which includes depreciation expenses.

Sophia Street Parking Garage Maintenance Project

Project Manager: Parks, Recreation, and Public Facilities

Project Description: Renovations to the Sophia Street Parking Garage

Project Justification: The City has received a renovation report from Walker Restoration Consultants for the Sophia Street Parking Garage. The Garage is approximately 10 years old and is in very good condition. The report outlines needed maintenance projects to extend the life of the structure.

The FY 2017 project, consisting of mainly waterproofing and other minor repairs, has been submitted as an operating budget request in the Parking Fund.

The other project, listed as 2018, has been placed in FY 2019 in the CIP in the Public Facilities Capital Fund. The projected project cost of \$190,000 represents mostly waterproofing and sealing work, along with other minor repairs.

Recommended Timeline: FY 2019

Estimated Capital Cost: \$190,000

Estimated Ongoing Operational Cost:

This project will save costs in the long-run by continuing to maintain the Sophia Street Parking Garage. It does not add any future operating costs to the budget.

Liberty Place Parking Garage Maintenance Project

Project Manager: CMO and Department of Economic Development and Tourism

Project Description: City Participation in Agreement – Liberty Place Parking Facility

Project Justification: A private developer, the Thomas Wack Company, is proposing to develop a \$41 million mixed-use development in the block surrounded by William Street, Douglas Street, Amelia Street, and Winchester Street. The development will feature 43 residential condominiums and 55,000 square feet of commercial / office / retail space. The development will also feature one ground level and two underground levels of parking.

The City and the developer have agreed for the City to purchase 33 ground-level parking spaces, and 86 parking spaces in the underground section. These parking places will be continually available to the public. The City would also lease an additional 30 underground spaces which would be available to the public nights and weekends. As part of the memorandum of understanding, the City will also need to design the parking access and revenue control system, and pay half the cost of that.

The neighborhood surrounding this area has seen a significant increase in parking demand from business development in the area. The Comprehensive Plan discusses the need to alleviate parking problems that impact neighborhoods.

Recommended Timeline: FY 2018

Estimated Capital Cost: \$2,150,000

Estimated Ongoing Operational Cost: The City will be partially responsible for ongoing operations and maintenance of the facility. By agreement, the City's expenses for ongoing operations and maintenance are capped at \$75,000, which will be adjusted for inflation.

Planning Area Plan Updates

Project Manager: Community Planning and Building

Project Description: Area plans for specific City areas.

Project Justification: The City's comprehensive plan was recently updated. Part of that process was a recognition that a specific Area plan process for the City's distinct areas would allow for a greater level of focus on the City's distinct neighborhoods, commercial districts, and other areas.

Procurement for the FY 2016 plans is currently underway, and work on them should be completed in the upcoming fiscal year. There will likely be a funding carryover request from FY 2016 to FY 2017 for part of the FY 2016 funds.

Recommended Timeline: FY 2017 - 2021

Estimated Capital Cost: The FY 2017 year has a recommended funding level of \$75,000. The remaining years are recommended to be funded at \$150,000.

Estimated Ongoing Operational Cost:

These are planning documents, and there are no ongoing operating costs associated with them.

Central Rappahannock Regional Library

Project Manager: Parks, Recreation, and Public Facilities & Central Rappahannock Regional Library

Project Description: The City's Headquarters Library will eventually need to be expanded to serve the growing regional population.

Project Justification: The Headquarters Library has served in that capacity since 1969. The building was first constructed as a school in 1905, with an addition in 1960 and a complete renovation in 1990.

This project will preserve the historic façade on Caroline and Lewis Streets while expanding the building into the existing parking lot to provide additional space for collections and community activities. The expanded portion of the building would include a performing arts stage within a 250 seat auditorium. The renovation and expansion will offer multi-purpose space for meetings, creating and accessing technology, as well as space for books, movies, audio, and digital materials. The parking lot will also be expanded and the number of spaces almost doubled.

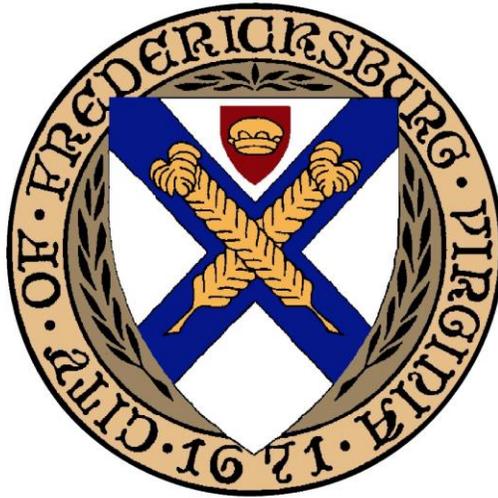
The proposed expansion and renovation will make it possible for the building to become a flexible community information center while continuing to be a vibrant component of historic downtown Fredericksburg.

Recommended Timeline: FY 20XX

Estimated Capital Cost: \$10,933,605

Estimated Ongoing Operational Cost:

The larger building will require more general maintenance and electricity, and perhaps additional staff as collections and other activities are expanded.



**CAPITAL IMPROVEMENTS PLAN - PUBLIC SAFETY
FY 2017-2021**

Public Safety Capital	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
Ambulance Replacement	\$ 260,000	\$ -	\$ 260,000	\$ 260,000	\$ -	-
Fire Apparatus Replacement	-	-	675,000	-	-	-
Dive Team Vehicle and Equipment	-	220,000	-	-	-	-
SCBA Replacement	60,000	-	-	-	-	-
Fire Station #3	-	6,500,000	1,000,000	-	-	-
Police Camera System	185,000	120,000	120,000	200,000	160,000	-
Fire Station 1&2 Furniture and Equipment	100,000	35,000	-	-	-	-
911 Center Improvements	275,000	-	-	-	-	-
Total	\$ 880,000	\$ 6,875,000	\$ 2,055,000	\$ 460,000	\$ 160,000	

Funding Sources	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
Prior Year Capital Fund Balance	\$ 140,000	\$ -	\$ -	\$ -	\$ -	-
General Fund Transfer	565,000	375,000	1,055,000	460,000	160,000	-
Debt Issuance	-	6,500,000	1,000,000	-	-	-
Interest Earnings	25,000	-	-	-	-	-
Grant Funding	150,000	-	-	-	-	-
Total	\$ 880,000	\$ 6,875,000	\$ 2,055,000	\$ 460,000	\$ 160,000	

Ambulance and Fire Apparatus

Project Manager: Fire

Project Description: The City replaces ambulances and fire apparatus as part of an ongoing fleet replacement program.

Project Justification: The City needs to replace fire apparatus as they age; the same holds true for ambulance units. In addition, the City is seeing increased call volume for EMS, and needs to add personnel and ambulance units.

There is a plan to add nine EMS Medics over three years for the extension of coverage to 24-7 at the Advanced Life Support level. The City has added five of the nine personnel heading into the FY 2017 budget cycle.

The City is also replacing the dive team vehicle and associated equipment, with funding scheduled for FY 2018.

Recommended Timeline:

Each year of the plan save FY 2018

Estimated Capital Cost:

\$260,000 in FY 2017
\$220,000 in FY 2018 (<u>Dive Team Vehicle and Equipment</u>)
\$875,000 in FY 2019
\$260,000 in FY 2020

Estimated Ongoing Operational Cost:

This is a combination of replacement of existing assets and service expansion, particularly on the EMS side for ambulance units.

SCBA Replacement

Project Manager: Fire

Project Description: The City needs to replace the existing SCBA units, and has been doing so over time.

Project Justification: FY 2017 represents the final year of this multi-year project.

Recommended Timeline: FY 2017

Estimated Capital Cost: \$60,000

Estimated Ongoing Operational Cost: This funding represents the replacement of an existing system that is out-of-date.

Fire Station 3

Project Manager: Fire

Project Description: Construction of a new Fire Station in Celebrate Virginia South.

Project Justification: Construction of a new Fire Station in Celebrate Virginia South will help to enhance coverage for the City, and lower response times.

Recommended Timeline: The City should evaluate whether to move forward on this project as a PPEA with design and construction occurring under the same contract, in FY 2018. The funding in FY 2019 would represent new equipment. The Recommended CIP includes funding in the FY 2018 plan year for both design and construction of this project.

The Action Plan associated with the Comprehensive Plan calls for the construction of a new Fire Station 3 west of Interstate 95. The proposed station would be able to service calls in the City west of Interstate 95, plus increase coverage in the Fall Hill Avenue area and nearby neighborhoods between Interstate 95 and Jefferson Davis Highway.

Estimated Capital Cost: \$6,500,000 in FY 2018
 \$1,000,000 in FY 2019

Estimated Ongoing Operational Cost:

This will require a major increase in the City's operational budget for Fire Suppression. Additional research and forecasting are needed, but the City may have an option to phase in the 24/7 operation of the station, and hire additional personnel over two years.

The City would also need to increase the budget for utilities, insurance, and maintenance for the new facility.

An update to the research on this question is necessary prior to the FY 2018 budget cycle.

Public Safety Radio Upgrade (FY 2016 Project)

Project Manager: Fire

Project Description: The City is entering into an agreement to upgrade the existing radio system. The City will be purchasing equipment from Motorola, and joining the Stafford County radio system.

Project Justification: In the Council's **City Council Goals and Initiatives** adopted on December 9, 2014, "Upgrade City's Public Safety Radio System" was established as an Initiative for Goal Area 6: Public Safety. A study, which was underway during the "Goals and Initiatives" process, recommends that the City partner with Stafford County to upgrade the public safety radio system. The current system is quite old, and is reliant on VHF technology.

The City engaged RCC Consultants, Inc., to assess the existing City communications system and to make recommendations for improvements. The study showed that the City's best option is to abandon our current system and join Stafford County's 700 MHz system. Stafford has plenty of availability in terms of channel access and their towers are such that coverage in the City is almost 100% - very much improved.

In addition to improved coverage, the system will also enhance interoperability, namely the ability of radio system users to communicate with radio users in other agencies or jurisdictions. The City and the County provide public safety mutual aid to each other under the Virginia Statewide Mutual Aid Plan, under the 2013 Rappahannock Area Law Enforcement Mutual Aid Agreement, and under the 1996 Emergency Medical Services and Fire Mutual Aid Agreement.

The purchase of a new Public Safety radio system was included in the original FY 2016 Capital Improvements Plan. The cost of the system was estimated to be \$4,250,000. Those costs were divided equally between FY 2018 and FY 2019. The plan now is to move the project up, and try and take advantage of vendor discounts and Stafford's willingness to allow us into their system to execute an agreement with Stafford and purchase new radios by the close of the calendar year.

Recommended Timeline: FY 2016 (not shown in CIP Table because funding is in current year).

Estimated Capital Cost: \$2,750,000 in FY 2016

Estimated Ongoing Operational Cost:

The operating budget will be adjusted to reflect an annual use charge to be paid to Stafford County. The charge is \$285,000 for FY 2016 and FY 2017. However, the FY 2016 charge will be prorated based on the terms of the agreement between The City and Stafford County. The FY 2016 prorated amount will not exceed \$166,250.

Police Camera System

Project Manager: Police

Project Description: Funding to replace current body and car cameras and expand car cameras.

Project Justification:

The value of the camera technology to increase officer safety through the documentation of evidence concerning observed criminal activity and assaults against police officers is incalculable. Nearly of equal value to agency management is the modification of behavior that takes place when an officer and citizen know that their actions are being recorded, and the mitigation of complaints. These advantages serve to strengthen the overall accountability of the agency and increase the public's trust in the professionalism of the individual officers who serve the community.

FY17: Replace body cameras and data storage for body and car cameras. (\$185,000)

FY18: Data storage for body and car cameras. (\$120,000)

FY19: Data storage for body and car cameras. (\$120,000)

FY20: Replacement body cameras and data storage for body and car cameras. (\$200,000)

FY21: Replacement car cameras and data storage for body and car cameras. (\$160,000)

Recommended Timeline: The Recommended CIP shows this funding in FY 2017-2021.

<i>Estimated Capital Cost:</i>	FY 2017 - \$185,000
	FY 2018 - \$120,000
	FY 2019 - \$120,000
	FY 2020 - \$200,000
	FY 2021 - \$160,000

Estimated Ongoing Operational Cost:

There are maintenance service contracts associated with these systems that are already included in the operating budget.

Police E911 Center Improvements

Project Manager: Police

Project Description: The operating system for call-taking and the related hardware are out-of-date and need to be replaced.

Project Justification:

An updated operating system and related hardware to support emergency calls is a high priority to maintain an expected level of service to the public and defines our operations as a Public Safety Answering Point (PSAP). It is essential to incorporate technological advances with the consideration of end-of-life and cessation of available maintenance.

These systems have a life expectancy of approximately five years.

Recommended Timeline: FY 2017

Estimated Capital Cost: FY 2017 - \$275,000

Estimated Ongoing Operational Cost:

The maintenance service contract for this system is included with the first year costs, and will need to be included in the operating budget for FY 2018 (at least a partial year) and beyond.

Fire Station Furniture and Equipment

Project Manager: Fire and Public Facilities

Project Description: There are improvements to the kitchen area, the bathroom area, and other upgrades needed for Fire Station 1, based on the age and the heavy use of the building. The City also plans to upgrade the kitchen at Fire Station #2.

Project Justification: Building upgrades and replacement systems are needed for Fire Station 1 and 2, particularly in the kitchen and restroom areas. Old furniture and an air compressor will also be included in this replacement.

Recommended Timeline: FY 2017 and FY 2018

Estimated Capital Cost: \$100,000 in FY 2017
 \$35,000 in FY 2018

Estimated Ongoing Operational Cost:
Replacement of existing systems.

**CAPITAL IMPROVEMENTS PLAN - PUBLIC EDUCATION
FY 2017-2021**

Public Education Capital	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
School Bus Garage Facility	102,000	106,000	109,000	112,000	119,000	
School Bus Replacement	185,000	185,000	225,000	225,000	225,000	
School Computer Technology	150,000	300,000	450,000	400,000	400,000	
School Equipment / Carpet	85,000	85,000	85,000	85,000	85,000	
Walker-Grant Roof Replacement	-	-	1,200,000	-	-	
Original Walker Grant School Renovation Elementary School	8,000,000	1,500,000	-	1,469,000	26,000,000	
Total	\$ 8,522,000	\$ 2,176,000	\$ 2,069,000	\$ 2,291,000	\$ 26,829,000	

Funding Sources	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
School Fund Balance - 2016 Bond Issue	\$ 8,000,000	\$ 1,500,000	\$ -	\$ -	\$ -	
Debt Issuance	\$ -	\$ -	\$ 1,200,000	\$ 1,469,000	\$ 26,000,000	
Transfer from General Fund	522,000	676,000	869,000	822,000	829,000	
Total	\$ 8,522,000	\$ 2,176,000	\$ 2,069,000	\$ 2,291,000	\$ 26,829,000	

School Bus Garage Facility (Lease)

Project Manager: Fredericksburg City Public Schools

Project Description: The City is in the process of leasing a school bus garage facility from a private developer in the Battlefield Industrial Park.

Project Justification: Currently, the Fredericksburg City Public Schools share space at the City Shop with the Public Works Department. Population and enrollment growth has created a need for additional buses in recent years, and space is no longer available at the City Shop.

The City and the Fredericksburg City Public Schools have worked to request proposals for the development of a dedicated school bus parking garage facility in the City. L&L Real Estate has provided a proposal to develop such a facility on approximately 5 acres of land in the City's Battlefield Industrial Park, at the northwest corner of Belman Road and the Blue & Gray Parkway. The main entrance would be off Belman Road, with a secondary access to Tyler Street. The property is zoned Industrial I-2.

The facility will include a parking lot that houses up to 53 school buses, 60 cars for employee and visitor parking, an office building, and a pad area for washing of buses.

The Schools, as tenant, will be responsible for utilities, insurance, and taxes if real estate taxes were to rise significantly.

The funding listed in the CIP is inclusive of the lease costs, which includes a clause that escalates the rent based upon inflation, but capped at 3% per year.

Recommended Timeline: FY 2017 - 2021

<i>Estimated Capital Cost:</i>	FY 2017 - \$102,000
	FY 2018 - \$105,060
	FY 2019 - \$108,215
	FY 2020 - \$111,465
	FY 2021 - \$118,255

Estimated Ongoing Operational Cost:

The City Schools will be responsible for certain operating costs pursuant to the proposed lease agreement, which is not yet final.

School Miscellaneous

Project Manager: Fredericksburg City Public Schools

Project Description: School Bus Replacements, Computer Needs, & Minor Building Repairs

Project Justification: City Schools identifies minor building repairs (e.g. carpet or equipment), computer replacements and similar needs, and school bus replacements from the capital fund. These are ongoing items.

Recommended Timeline: FY 2017 - 2021

<i>Estimated Capital Cost:</i>	School Buses - \$180,000 to \$225,000 each year
	School Computer - \$150,000 in FY 2017
	\$300,000 in FY 2018
	\$450,000 in FY 2019
	\$400,000 in FY 2020-2021
	School Equipment - \$85,000 in FY 2017-21

Estimated Ongoing Operational Cost:

This funding represents capital maintenance of ongoing systems.

Walker-Grant Middle School Roof Replacement

Project Manager: Fredericksburg City Public Schools

Project Description: Replace roof at Walker-Grant Middle School

Project Justification: Roof is nearing the end of its useful life and will need to be replaced.

Recommended Timeline: FY 2019

Estimated Capital Cost: \$1,200,000

Estimated Ongoing Operational Cost: This is not anticipated to increase operating costs.

Original Walker-Grant School Renovation

Project Manager: Fredericksburg City Public Schools

Project Description: Renovation of Original Walker-Grant – 1950's building

Project Justification: The proposed renovation project at Original Walker Grant School consists of the complete renovation of the existing 1950 school building with the 1961 addition. The scope of the renovation is the upgrade of the building envelope, including new roof, new windows and doors, and masonry repairs. Complete replacement of mechanical, electrical and plumbing systems is included. Reuse of existing fire alarm system and elevator will be explored during the design of the project. New finishes on the interior include new floor finishes, painting and new lay-in acoustical ceilings. Site work around the 1960 building will include parking upgrades, stormwater management, sidewalk improvements, and upgrade playground areas for the pre-school programs. A small addition is proposed at the Dunmore Street entrance.

Creates an updated and modern environment for the following programs:

- Head Start pre-school program (8 classrooms)
- Early Childhood Special Education (E.C.S.E) program (5 classrooms)
- The Regional Alternative Education Program (5 classrooms)
- RISE and STARS (3 classrooms)
- Central School Board Office functions will be included in the program, including Student Services, Social Worker, and School Psychologist
- The auditorium, gymnasium and the lunchroom will be available for school activities

The City Manager's Recommended Capital Budget and Capital Improvements Plan includes an amount of \$8,000,000 in FY 2017 and an amount of \$1,500,000 in FY 2018, but these funds are part of the original project budget. These are not supplemental funds. The proposed funding schedule is based upon the proposed draw schedule for the project.

This capital project was the highest priority for the Fredericksburg City Public Schools. It is also part of the action plan found in the City's Comprehensive Plan.

Recommended Timeline: FY 2016 – Funding available. The project is extensive and will not be completed until FY 2018.

Estimated Capital Cost: \$12,500,000

Estimated Ongoing Operational Cost:

The school will continue its existing uses, and add administrative offices that will be shifted from other buildings. There should be increased energy efficiency from modernizing the building systems and renovating the windows, etc.

CAPITAL IMPROVEMENTS PLAN - COURTS
FY 2017-2021

New Court Capital	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
Renwick Building	\$ 250,000	\$ -	\$ -	\$ -	\$ -	10,000,000
General District Court - 2nd Courtroom	-	-	500,000	-	-	-
Total	\$ 250,000	\$ -	\$ 500,000	\$ -	\$ -	
Funding Sources						
Bond Issuance	\$ -	\$ -	\$ -	\$ -	\$ -	-
Prior Year Capital Fund Balance	250,000	-	500,000	-	-	-
Total	\$ 250,000	\$ -	\$ 500,000	\$ -	\$ -	

Renwick Building Improvements

Project Manager: Public Facilities

Project Description: Renwick Building – Repairs

Project Justification: The City is currently in the process of completing a Historic Structures Report for the Renwick Building, the Old Jail, and the Old Wallace Library. The study may identify repairs to the structure of these buildings that are necessary for stabilization. The recommended CIP requests an allowance of \$250,000 in FY 2017 for any identified urgent repairs.

The allowance does not represent a full renovation of any of the three buildings. The CIP includes an allowance of \$10,000,000 in year 20XX, but this number will need to be refined greatly in future budget cycles as the City discusses future uses of the three facilities.

Recommended Timeline: FY 2017 - \$250,000

Estimated Capital Cost: \$250,000 in FY 2017

Estimated Ongoing Operational Cost:

The requested repair allowance is not likely to impact operating costs. The future discussion concerning future uses of the Renwick Building, and the other two buildings, may impact operating costs but the future uses are not defined at this point.

General District Court – Finish 2nd Courtroom

Project Manager: Public Facilities

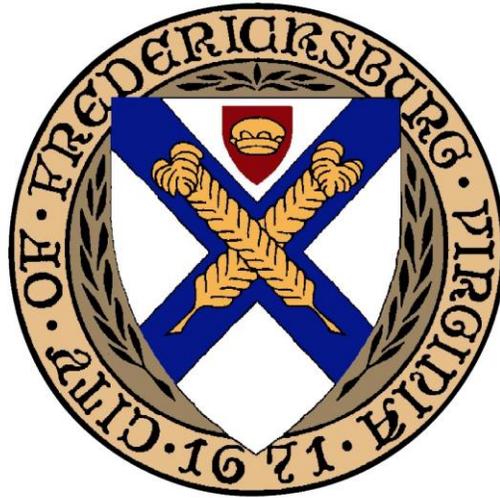
Project Description: Complete and Furnish 2nd General District Courtroom

Project Justification: As a cost-saving measure, the 2nd General District Courtroom in the new court building was left unfinished. As caseloads increase for the General District Court, the City will need to finish the construction of the 2nd courtroom.

Recommended Timeline: FY 2019

Estimated Capital Cost: \$500,000

Estimated Ongoing Operational Cost: Additional utilities will be minimal. However, the City may face an increase in operating costs for additional security or building maintenance needs.



CAPITAL IMPROVEMENTS PLAN - WATER
FY 2017-2021

Water Capital	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
Internal System Improvements	\$ 400,000	\$ 400,000	\$ 400,000	\$ 250,000	\$ 250,000	\$ 250,000
College Heights Water System Upgrades	-	-	-	-	4,000,000	2,200,000
Powhatan Tank Improvements	-	-	500,000	-	-	-
Caroline Street Water Line Replacement	1,400,000	-	-	-	-	-
Replace & Downsize 24" Powhatan / Canal Li	-	-	-	500,000	800,000	-
Total Water	\$ 1,800,000	\$ 400,000	\$ 900,000	\$ 750,000	\$ 5,050,000	\$ 2,450,000

Funding Source	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
Availability Fees	\$ 400,000	\$ 400,000	\$ 400,000	\$ 250,000	\$ 250,000	-
Debt Issuance	-	-	-	-	4,800,000	-
Transfer from Water Operating	400,000	-	500,000	500,000	-	-
Prior Year Capital Fund Balance	1,000,000	-	-	-	-	-
Total	\$ 1,800,000	\$ 400,000	\$ 900,000	\$ 750,000	\$ 5,050,000	\$ 2,450,000

WATER CAPITAL FUND

Internal System Improvements

Project Manager: Public Works

Project Description: Internal System Improvements

Project Justification: The City maintains contingency funding in the Water Fund and in the Wastewater Fund for small line replacements or additions that may arise throughout the course of the year. Although the City has invested heavily in line replacements and a good portion of the system is newly constructed, there are many sections of the City that are served with water and wastewater lines that are significantly older and nearing the end of their useful life.

Recommended Timeline:

FY 2017 - \$400,000
FY 2018 - \$400,000
FY 2019 - \$400,000
FY 2020 - \$250,000
FY 2021 - \$250,000

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WATER CAPITAL FUND

College Heights Water Line Improvements

Project Manager: Public Works

Project Description: College Heights Water Line Improvements

Project Justification: The City of Fredericksburg has been working in the College Heights neighborhood for work to replace aging lines in the neighborhood. In addition, a second water tap has been provided to the main transmission line along Jefferson Davis Highway. The FY 2016 funding represents the completion of the original project, which greatly improved fire flows and water service to the University and to the neighborhood.

The future years represents funding based upon the Wiley and Wilson study for additional main line replacements throughout the neighborhood. The City would need to borrow the funding necessary to complete this work.

Recommended Timeline: FY 2021 - \$4,000,000

There is also a recommendation for an additional \$2.2 million in FY 20XX – outside the planning horizon.

Estimated Ongoing Operational Cost:
This work represents replacement of existing assets.

WATER CAPITAL FUND

Powhatan Tank Improvements

Project Manager: Public Works

Project Description: Powhatan Tank Improvements

Project Justification: The Public Works Department has identified improvements necessary to the Powhatan storage tank to circulate water and improve water quality throughout the system. Currently, there are times when the City does not use enough water to maintain good turnover in the tank.

Recommended Timeline: FY 2019 - \$500,000

Estimated Capital Cost:

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WATER CAPITAL FUND

Caroline Street Water Line Improvements

Project Manager: Public Works

Project Description: Caroline Street Water Line Replacement

Project Justification: The City is working with W.C. Spratt, Inc., on a project to replace the water line in Caroline Street from Amelia Street to the southern end of Caroline Street. There is also a small portion of water line in the 100 block of Princess Anne Street that will also be included to connect two dead-end lines, which will greatly improve water service in that area.

Recommended Timeline: FY 2017 - \$1,400,000

Estimated Capital Cost: The total capital cost of this project is projected to be \$2,400,000. The City Capital Budget in FY 2016 included \$2,000,000, of which \$1,000,000 is to be carried forward so that the project total remains \$2.4 million.

The City borrowed \$2,000,000 in the Winter 2015 bond issue for this project. The FY 2017 budget supplements this amount with an additional \$400,000. The supplemental funding is not necessary until FY 2017 based upon the current work schedule.

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WATER CAPITAL FUND

Replace / Downsize the 24” Powhatan / Canal Water Line

Project Manager: Public Works

Project Description: Replace / Downsize the 24” Powhatan / Canal Line

Project Justification: The City used to own a treatment facility near Cossey Pond along the Rappahannock Canal. Several years ago the City transitioned to purchase of treated water from Spotsylvania County through their facility at Motts Run, and the old Cossey Water Plant was torn down.

There was a large water line that fed from the old treatment plant to the Powhatan Tank. This line is too large now that the City’s supply of treated water is being fed from Motts Run, which is west of the City. The Recommended CIP includes funding to replace and downsize the line based on the system changes.

Recommended Timeline: FY 2020 - \$500,000
 FY 2021 - \$800,000

Estimated Capital Cost: The total capital cost of this project is projected to be \$1,300,000.

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

**CAPITAL IMPROVEMENTS PLAN - WASTEWATER
FY 2017-2021**

Wastewater Capital	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 20XX
Infiltration & Inflow Abatement	\$ 300,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	
Caroline Street - Route 1 to Pump Station		-	-	-	1,300,000	
Renovate Caroline Street Pump Station	-	-	-	-	400,000	
Caroline Street - Pump St to Lafayette Blvd	-	-	-	500,000	1,000,000	
Caroline Street - Lafayette to End	500,000	-	-	-	-	
Prince Edward Street - William to Canal	-	-	-	250,000	-	
NPS - Off Farrell Lane Line Replacement	-	-	-	390,000	-	
Replace Steel Pipes Downtown	-	-	-	-	-	240,000
Pump Station Upgrades - Grinders & Hydrants	165,000	-	120,000	-	-	
Replace Route 2 / 17 Pump Station	-	-	-	500,000	-	
WWTP - Rehab Oxidation Ditch	-	250,000	-	-	-	
WWTP - Rehab Influent Pump Station	-	-	1,000,000	-	-	
WWTP - Replace Sludge Transfer & Pumps	80,000	-	110,000	-	100,000	
Wastewater Total	\$ 1,045,000	\$ 650,000	\$ 1,630,000	\$ 2,040,000	\$ 3,200,000	

Funding Sources						
Availability Fees	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	
Transfer from Wastewater Operating	645,000	250,000	230,000	250,000	-	
Prior Year Capital Fund Balance	-	-	-	-	-	
Debt Issuance	-	-	1,000,000	1,390,000	2,800,000	
Total	\$ 1,045,000	\$ 650,000	\$ 1,630,000	\$ 2,040,000	\$ 3,200,000	

WASTEWATER CAPITAL FUND

Inflow and Infiltration Abatements

Project Manager: Public Works

Project Description: Inflow and Infiltration Abatements

Project Justification: The City maintains contingency funding in the Water Fund and in the Wastewater Fund for small line replacements or additions that may arise throughout the course of the year. Although the City has invested heavily in line replacements and a good portion of the system is newly constructed, there are many sections of the City that are served with water and wastewater lines that are significantly older and nearing the end of their useful life.

Recommended Timeline:

FY 2017 - \$300,000
FY 2018 - \$400,000
FY 2019 - \$400,000
FY 2020 - \$400,000
FY 2021 - \$400,000

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WASTEWATER CAPITAL FUND

Caroline Street – Sewer Line Replacements

Project Manager: Public Works

Project Description: Caroline Street Sewer Line Replacements

Project Justification: The City Public Works Department has identified the Caroline Street sewer line as in need of replacement. The Recommended CIP shows this project in several stages.

The first section is identified as Lafayette Boulevard to the southern end of the line, which will tie into the City Dock sewer line that was recently replaced. The cost is \$500,000 and funding is requested for FY 2017.

The section between the Pump Station and Lafayette Boulevard is projected to cost \$1.5 million, and is requested in FY 2020 and FY 2021.

The section between Route 1 and the Pump Station is requested to be funded in FY 2021 and will cost \$1.3 million.

There are also renovations requested for the Caroline Street Pump Station, which are projected to cost \$400,000. This is requested in FY 2021.

The City will more than likely need to include these improvements in a future bond issue, although the FY 2017 improvements would come from retained earnings in the Wastewater Fund.

Recommended Timeline:

FY 2017 - \$500,000
FY 2020 - \$500,000
FY 2021 - \$2,700,000

Estimated Ongoing Operational Cost:

This work represents replacement of existing assets.

WASTEWATER CAPITAL FUND

Prince Edward Street – William Street to Canal

Project Manager: Public Works

Project Description: Replace the sanitary sewer line from William Street to the Canal.

Project Justification: The Public Works Department has identified this sewer line as in need of replacement.

Recommended Timeline and Capital Cost: FY 2020 - \$250,000

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WASTEWATER CAPITAL FUND

NPS / Farrell Lane Line Replacement

Project Manager: Public Works

Project Description: Replace the sanitary sewer line in the area of Farrell Lane.

Project Justification: The Public Works Department has identified a sanitary sewer line near Farrell Lane and National Park Service property as in need of replacement.

Recommended Timeline: This project is requested for FY 2020.

Estimated Capital Cost: The cost is expected to be \$390,000.

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WASTEWATER CAPITAL FUND

Pump Station Upgrades - Various

Project Manager: Public Works

Project Description: Various pump station maintenance items and upgrades are included in the CIP.

Project Justification: The CIP requests funding in FY 2017 for various grinders and other pump station needs in the amount of \$165,000. There is further funding requested in FY 2019 in the amount of \$120,000.

Grinders are helpful in pump station operations as they prevent solid materials from damaging pumps.

Recommended Timeline: FY 2020 - \$165,000
 FY 2021 - \$120,000

Estimated Capital Cost: The total capital cost of this project is projected to be \$285,000.

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WASTEWATER CAPITAL FUND

Replace Route 2 / 17 Pump Station

Project Manager: Public Works

Project Description: The Route 2 / 17 Pump Station is in need of replacement.

Project Justification: The pump station on Route 2 / 17 south of the City is aged and in need of structural repairs to continue operations. The recommended CIP includes \$500,000 in FY 2020 for this work.

The City may need to include this work in a future bond issue.

Recommended Timeline: FY 2020 - \$500,000

Estimated Capital Cost: The total capital cost of this project is projected to be \$500,000.

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.

WASTEWATER CAPITAL FUND

Replace WWTP Equipment - Various

Project Manager: Public Works

Project Description: The Wastewater Treatment Plant is in need of ongoing equipment repairs and replacements.

Project Justification: The City is currently in the process of replacing the belt filter press at the Wastewater Treatment Plant, and funding is in place in FY 2016 for this important work.

Additional work has been identified for future years of the CIP. There is \$80,000 requested in FY 2017 to replace equipment related to sludge transfers, along with \$110,000 in FY 2019 and \$100,000 in FY 2021.

There is also \$1,000,000 in FY 2019 for the rehabilitation of the influent pump station, and \$250,000 in FY 2018 for the replacement of the oxidation ditch. These replacements are important to keep the plant running efficiently and in compliance with the City's permit from the Commonwealth's Department of Environmental Quality.

Recommended Timeline:

FY 2017 - \$80,000
FY 2018 - \$250,000
FY 2019 - \$1,110,000
FY 2021 - \$100,000

Estimated Capital Cost: The total for all of this work is \$1,540,000.

Estimated Ongoing Operational Cost:
This work will not result in additional operating costs.