



# City Manager's Recommended Capital Improvement Plan

Fiscal Year 2020-2025



# City of Fredericksburg, Virginia

## Capital Improvement Plan – Table of Contents

<b>OVERVIEW</b> .....	4	<b>KENSINGTON TRAIL</b> .....	40
<b>OPERATING IMPACTS AND PROJECT LIST</b> .....	8	<b>PATHWAY IMPROVEMENTS</b> .....	41
<b>SCHOOLS</b> .....	16	<b>PEDESTRIAN BRIDGE REPAIRS</b> .....	42
<b>BUSES, TECH, EQUIP. &amp; CAPITAL MAINTENANCE</b> .....	18	<b>VA CENTRAL RAILWAY (VCR) TRAIL BRIDGE</b> .....	43
<b>ENROLLMENT STUDY</b> .....	19	<i>TRANSPORTATION</i>	
<b>JAMES MONROE LIBRARY IMPROVEMENTS</b> .....	20	<b>ASPHALT &amp; CONCRETE PROGRAM</b> .....	44
<b>JAMES MONROE TRACK RECONDITIONING</b> .....	21	<b>BEULAH–SALISBURY DR. &amp; DIXON ST. INT. IMP.</b> .....	45
<b>LEARNING COTTAGES</b> .....	22	<b>GATEWAY BOULEVARD EXTENSION</b> .....	46
<b>WALKER - GRANT ANNEX REPAIRS</b> .....	23	<b>GEORGE &amp; PRINCESS ANNE STREETS INT. IMP.</b> .....	47
<b>LAFAYETTE UPPER ELEM. SCHOOL EXPANSION</b> .....	24	<b>LAFAYETTE BLVD PED SAFETY &amp; ROUNDABOUT</b> .....	48
<b>JAMES MONROE HIGH SCHOOL EXPANSION</b> .....	25	<b>ROUTE 3 - TRAFFIC SIGNAL MODERNIZATION</b> .....	49
<b>PUBLIC WORKS</b> .....	26	<b>TRAFFIC SIGNAL CONVERTS TO FLASH AMBER LEFT</b> .....	50
<i>PUBLIC WORKS</i>		<b>TRAFFIC SIGNAL CONVERSION MODERNIZATION</b> .....	51
<b>HISTORIC ASSETS</b> .....	29	<b>PUBLIC FACILITIES</b> .....	52
<b>GATEWAY ENHANCEMENTS &amp; WAYFINDING SIGNS</b> .....	30	<b>PLANNING AREA UPDATES</b> .....	55
<b>GREAT OAKS ACID SOIL REMEDIATION</b> .....	31	<b>FIBER NETWORK EXPANSION</b> .....	56
<b>HISTORIC DISTRICT IMPROVEMENTS</b> .....	32	<b>IT DISASTER RESILIENCE PLAN IMPLEMENTATION</b> .....	57
<b>NEIGHBORHOOD ENHANCEMENTS</b> .....	33	<b>PUBLIC SAFETY REPLACEMENT</b> .....	58
<b>ROLLING STOCK REPLACEMENT</b> .....	34	<b>NG911 IMPLEMENTATION</b> .....	59
<i>SOLID WASTE</i>		<b>TECHNOLOGY REPLACEMENTS</b> .....	60
<b>R-BOARD CELL F3 CONSTRUCTION</b> .....	35	<b>HANOVER STREET PARKING</b> .....	61
<b>WHEELED REFUSE CART REPLACEMENT</b> .....	36	<b>ADA ACCESSIBILITY TO PARK AMENITIES</b> .....	62
<i>STORMWATER MANAGEMENT</i>		<b>ALUM SPRINGS PARK IMPROVEMENTS</b> .....	63
<b>CANAL IMPROVEMENTS</b> .....	37	<b>CITY DOCK IMPROVEMENTS</b> .....	64
<b>CULVERT REPLACEMENT</b> .....	38	<b>DIXON PARK IMPROVEMENTS &amp; WETLANDS PAVILION</b> .....	65
<b>POND 'D' CONST. WETLAND BMP RETROFIT</b> .....	39	<b>MEMORIAL PARK IMPROVEMENTS</b> .....	66
<i>TRAILS &amp; PARKS</i>		<b>PARKS &amp; PLAYGROUND IMPROVEMENTS</b> .....	67
		<b>BASS ELLISON IMPROVEMENTS</b> .....	68
		<b>CENTRAL RAPPAHANNOCK REGIONAL LIBRARY</b> .....	69
		<b>CITY HALL RENOVATION</b> .....	70

DOROTHY HART COMMUNITY CENTER .....	71	COLLEGE HEIGHTS WATERLINE REPLACEMENT .....	88
ENERGY RETROFIT .....	72	INTERNAL SYSTEM IMPROVEMENTS .....	89
EXECUTIVE CENTER PLAZA-ELECTRICAL UPGRADE .....	73	MOTTS RUN WATER PLANT EXPANSION .....	90
OLD TOWN HALL .....	74	PRESSURE RELEASE VALVE .....	91
ROOF REPAIR & HVAC MAINTENANCE .....	75	SCADA .....	92
TRAIN STATION SIDEWALK & CONDUIT REPAIR .....	76	TELEGRAPH HILL LOOP .....	93
VISITOR'S CENTER .....	77	WATER METER REPLACEMENT .....	94
<b>PUBLIC SAFETY .....</b>	<b>78</b>	<b>WASTEWATER FUND .....</b>	<b>95</b>
<i>POLICE</i>		CELEBRATE VIRGINIA PUMP STATION .....	96
ANIMAL SHELTER .....	79	I & I ABATE, SEWER SYSTEM, & PS UPGRADES .....	97
POLICE CAMERA SYSTEM .....	80	KENMMORE AVENUE SEWER .....	98
AMBULANCE, DIVE VEHICLE & FIRE APPARATUS .....	81	NPS / FARRELL LANE LINE REPLACEMENT .....	99
FIRE STATION 1 RENOVATION .....	82	PRINCESS ANNE (UPPER) SEWER REPLACEMENT .....	100
FIRE STATION 2 CONCRETE DRIVE REPAIR .....	83	ROUTE 2 & 17 PUMP STATION .....	101
FIRE STATION – NEW .....	84	WWTP MAINTENANCE .....	102
<b>COURTS .....</b>	<b>85</b>	WWTP UPGRADE/CONSOLIDATION .....	103
GENERAL DISTRICT COURT - 2ND COURTROOM .....	86	<b>SUPPLEMENTAL INFORMATION</b>	
<b>WATER SYSTEM IMPROVEMENT .....</b>	<b>87</b>	PROJECTS IN FUTURE CIPS .....	104

## Capital Improvement Plan

**Overview:** The Capital Improvement Plan (CIP) represents a significant investment in the future of the City. It is a planning tool for the acquisition, replacement, modernization, rehabilitation or expansion of long-term capital assets and infrastructure. The process ensures that the City is able to maintain infrastructure now and into the future. The CIP reflects the substantial investment that is required to maintain and improve core public infrastructure and to advance stated Council priorities. Through these improvements, the City will continue to serve the community and to maintain economic and cultural vitality.

The Fredericksburg City Council 2036 Vision Statement includes a desired future state of reflecting the importance of capital planning.

*Public Service – The Backbone of Our Community: Delivery of core services is of the utmost importance. Fredericksburg maintains and improves its infrastructure to accommodate future growth in the City. Capital improvements are carefully planned and include investments so that our infrastructure is capable of delivering clean water and sanitary services. We provide highly responsive public safety, health, and social services. We apply advances in technology to monitor and improve these services. We collaborate with our regional partners to explore shared service solutions.*

As part of the budget process, City Council adopts an annual capital budget that includes capital improvements for education, public works, public facilities, public safety, courts, water and sewer. The CIP includes an additional five years of projects and references certain projects beyond that time frame. Each year the CIP is reviewed and updated as new projects are identified and existing projects and cost estimates are updated. Projects typically meet the following criteria:

- **Cost** – A project is considered capital if the cost is \$50,000 or more.
- **Life Expectancy** – The expected useful lifecycle of the project is five years or more.

The CIP is organized into the following functional areas:

- **Schools** – Fredericksburg City Public Schools
- **Public Works** – Includes Public Works, Solid Waste, Stormwater Management, Trails & Riverfront Park, and Transportation
- **Public Facilities** – Includes Information Technology, Parking, Park & Playgrounds, Planning, and Public Buildings & Facilities
- **Public Safety** – Includes Police and Fire
- **Courts** – Improvements to the City's Court building and the Historic Renwick Building
- **Water** – Improvements to the Motts Run Water Treatment Plant and the water distribution system

- **Wastewater** – Improvements to the City's Wastewater Treatment Facility and collection system

Each section contains an overall summary and project sheets providing greater detail on the improvements. The project sheets are included for projects within the FY2020 – FY2025 timeframe and provide a description of the project, the current estimate of project costs and timing, funding courses and when available an estimate of operating impacts. The funding sources include:

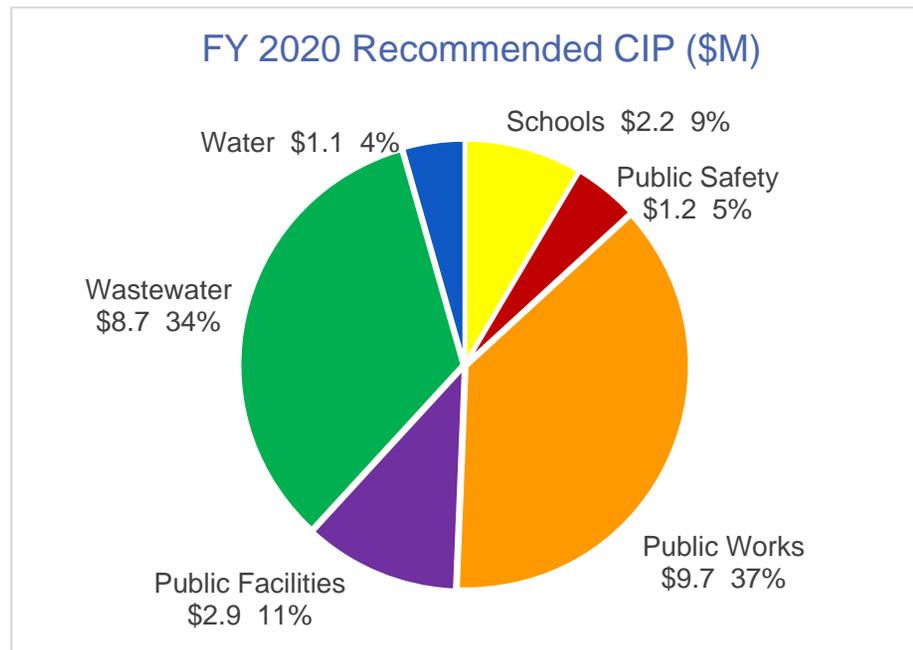
- Debt Issuance
- DEQ Funding
- Fuel Tax
- General Fund Transfer
- Other Local Revenues
- Prior Year Capital Fund Balance
- VDOT Funding
- Water System Revenues
- Wastewater System Revenues

CIP Highlights:

As part of the FY 2020 budget process, the City Council will adopt the FY 2020 – FY 2025 Capital Improvement Plan. City Council will also appropriate funding for the FY 2020 CIP.

The FY 2020 Recommended Budget includes \$15.9 million of general government CIP Projects and \$9.8 million of water and sewer projects. The six year CIP totals \$127.2 million of general government projects, the Enterprise fund is \$95.7 million. Major projects with all or a portion of funding in FY2020 include:

- **Schools:** Expansion of Lafayette Upper Elementary
- **Public Works:** Gateway Boulevard, Pond D (stormwater management), and pedestrian bridge replacements on the City's trail system.
- **Water:** Motts Run Water Treatment Facility Expansion
- **Wastewater:** Wastewater Treatment Consolidation / Massaponax Wastewater Treatment Facility Expansion.

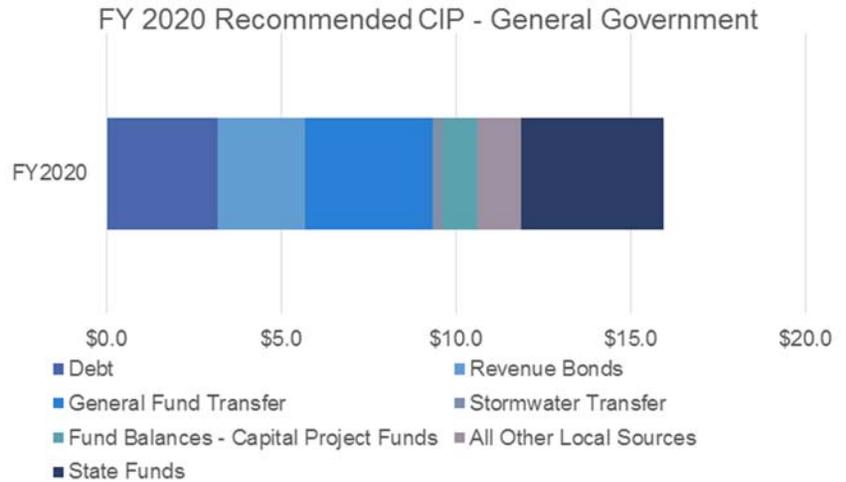


The timing, scope and funding source of the major projects will be refined as the projects develop. This is especially important to note for the Gateway Boulevard, Pond D, the Motts expansion and the Massaponax consolidation as City Council makes decisions on these projects.

Funding for the FY 2020 CIP will be a mix of local revenues (“pay as you go”), debt, and state funds. Approximately 40% will be funded from local revenue sources, 20% general obligation debt financed, 16% revenue bond financed and 25% state funding for transportation projects and upgrades to the 911 system.

The Water and Wastewater CIP includes projects managed by the City as well as the City’s portion of projects managed by Spotsylvania County. The FY 2020 total is \$25.8 million with about one third debt financed. The potential expansion of the Mott water treatment facility and the consolidation of the wastewater treatment operations will have a significant impact on the six year CIP which totals \$95.7 million and includes approximately \$76.1 million of general obligation debt supported by water and sewer system revenues.

Although several projects are identified as debt financed, the City does not anticipate issuing debt until late FY 2020. However, based on an estimate of available resources, a more likely timeframe is FY 2021. The City is actively pursuing other financing sources for projects currently presented as debt financed.



FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
<b>New Projects are in Red.</b>		<b>(See page 11 for funding source codes)</b>						
<b>SCHOOL - CAPITAL FUND</b>								
School Buses	GF	264,000	300,000	300,000	300,000	300,000	300,000	1,764,000
Computer Technology	GF	300,000	317,000	333,000	350,000	361,000	372,000	2,033,000
Facilities Improvement - (Carpets, Roof, Equipment)	GF	75,000	100,000	100,000	100,000	100,000	100,000	575,000
<b>Facilities - James Monroe HVAC - Chillers</b>	<b>FB-SCH</b>	<b>89,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>89,000</b>
<b>Enrollment Projections</b>	<b>GF</b>	<b>-</b>	<b>80,000</b>	<b>-</b>	<b>80,000</b>	<b>-</b>	<b>80,000</b>	<b>240,000</b>
School Bus Lot Lease	FB-SCH; GF	20,000	20,000	20,000	20,000	20,000	20,000	120,000
James Monroe Track Conditioning	FB-SCH	70,000	-	-	-	-	-	70,000
James Monroe Library	GF	50,000	-	-	-	-	-	50,000
<b>Learning Cottages (HMES, WGMS - three)</b>	<b>FB-SCH</b>	<b>250,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>250,000</b>
<b>WG Annex - Renovation/Upgrade</b>	<b>GF</b>	<b>75,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>75,000</b>
<b>Total</b>		<b>1,193,000</b>	<b>817,000</b>	<b>753,000</b>	<b>850,000</b>	<b>781,000</b>	<b>872,000</b>	<b>5,266,000</b>
<b>SCHOOL - BOND FUNDED CAPITAL FUND</b>								
<b>Lafayette Upper Elementary School Expansion</b>	<b>GF -SCH; Proffer; Debt</b>	<b>1,000,000</b>	<b>5,612,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,612,000</b>
High School Expansion	Debt	-	-	-	-	5,300,000	-	5,300,000
<b>Total</b>		<b>1,000,000</b>	<b>5,612,000</b>	<b>-</b>	<b>-</b>	<b>5,300,000</b>	<b>-</b>	<b>11,912,000</b>
<b>PUBLIC WORKS CAPITAL FUND</b>								
<u>Public Works</u>								
<b>Historic Assets - Cemetery &amp; Brick Sidewalks; Mary Washington Monument</b>	<b>GF</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>30,000</b>	<b>180,000</b>
Gateway/Way finding Project	GF	-	80,000	80,000	80,000	80,000	-	320,000
Great Oaks Acid Soil Remediation	GF	-	-	76,000	-	-	-	76,000
Historic District Improvements (Downtown Street Lights)	GF	-	100,000	100,000	100,000	100,000	100,000	500,000
<b>Lewis Street (Library) Brick Sidewalk and Colonial Lights</b>	<b>GF</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>90,500</b>	<b>90,500</b>
Neighborhood Enhancements	GF	50,000	50,000	50,000	50,000	50,000	50,000	300,000
<u>Rolling Stock</u>	GF	-	-	-	-	-	-	-
<b>Refuse Truck</b>	<b>GF</b>	<b>166,300</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>166,300</b>
Street Sweeper (Drainage)	Debt	-	270,000	-	-	-	-	270,000
<b>Dump Truck</b>	<b>GF</b>	<b>-</b>	<b>110,000</b>	<b>110,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>220,000</b>

FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
Wheel Loader	Debt		203,000					203,000
Leaf Vac Truck						203,000		203,000
<u>Solid Waste</u>								
R-Board Cell F3 Construction	Rev Debt	2,500,000						2,500,000
Wheeled Refuse Carts - (need to move to operating)	GF				350,000	175,000		525,000
<u>Stormwater Management</u>								
Canal Improvements	GF	68,000	68,000	68,000		150,000		354,000
Culvert Replacement; Stormwater Improvements	GF	50,000	50,000	250,000	250,000	250,000	250,000	1,100,000
Huntington Hills (must do)	GF; SW	300,000						300,000
Central Road	GF				500,000			500,000
Route 1 Culvert	SW	100,000						100,000
100 Block William Street	GF			500,000				500,000
Learning Lane	GF	-	200,000					200,000
Stormwater Management Projects	Debt; DEQ		10,500,000					10,500,000
<u>Trails &amp; Parks</u>								
Kensington Connector	VDOT		1,981,550					1,981,550
Pathway Improvements (Idlewild Connector & Embry Dam Trail)	FB-PW	40,000	30,000					70,000
VCR Trail Bridge over Hazel Run	VDOT	140,000						140,000
Pedestrian Bridges	GF	50,000						50,000
Gordon Sheldon Bridge/Rappahannock Canal	GF		196,000					196,000
Lompano Bridge Rappahannock Canal	GF			209,000				209,000
Tom & Ruth Higgins Bridge 70' x 8'	GF				198,000			198,000
Normandy Bridge Rappahannock Canal 60'X8'	GF					196,000		196,000
Quarry Foot Bridge	GF						250,000	250,000
<u>Transportation</u>								
Annual Asphalt & Concrete Repair Program	GF; Gas Tx; FB-PW; VDOT; MWH	1,750,000	800,000	800,000	800,000	800,000	800,000	5,750,000
Asphalt & Concrete - Traffic Calming	GF	50,000	50,000	50,000				150,000
Beulah Salisbury Drive Intersection	GF				250,000			250,000
Gateway Boulevard Extension	TBD; Debt; Donate	2,500,000	35,200,000					37,700,000
Lafayette Blvd Pedestrian Safety & Kenmore Roundabout	VDOT	600,000		2,000,000		2,000,000		4,600,000

FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
Pedestrian Signals George & Princess Anne	VDOT	350,000						350,000
Route 3 Signal Optimization	VDOT	417,000	261,000					678,000
Traffic Signal Conversion to Flashing Amber Left Turns	VDOT	495,000						495,000
Traffic Signal Modernization	VDOT	-	280,000	280,000	280,000	280,000	-	1,120,000
<b>Total</b>		<b>\$ 9,656,300</b>	<b>\$50,459,550</b>	<b>\$ 4,603,000</b>	<b>\$ 2,888,000</b>	<b>\$ 4,314,000</b>	<b>\$ 1,570,500</b>	<b>\$ 73,491,350</b>
<b>PUBLIC FACILITIES CAPITAL</b>								
<i>Information Technology</i>								
Fiber Network Expansion	GF	98,000	50,000	76,000				224,000
IT Disaster Resilience Plan Implementation	GF	94,000						94,000
Public Safety Replacement	GF						2,500,000	2,500,000
NG911 Implementation	PSAP	1,185,000						1,185,000
Technology Replacements	GF	300,000	315,000	331,000	348,000	359,000	370,000	2,023,000
IT Strategic Plan Refresh	GF			65,000				65,000
Broadband Needs Assessment/Development Strategy	GF		60,000					60,000
Enterprise Resource Planning - Additional Modules	GF		92,700					92,700
<i>Parking</i>								
Hanover Parking Facility (UMW - Athletic)	GF	315,000						315,000
<i>Parks, Recreation, Events</i>								
<b>ADA Accessibility</b>	FB-PF	40,000						40,000
Alum Spring/VCR Trail ramp and pathway	GF		100,000					100,000
Old Mill Park pathway to restrooms and shelter	GF			60,000				60,000
Alum Springs Bridge	Debt			1,310,000				1,310,000
Alum Springs Storage Building Renovation	GF				124,000			124,000
City Dock improvements	GF					37,500		37,500
Dixon Park Improvements (plus wetland pavilion)	GF		19,000		240,000			259,000
Memorial Park Tennis Court Improvements - Lighting	GF					290,000		290,000
Memorial Park Parking Lot	GF					250,000		250,000
Park Improvements	GF							
Hurkamp Wall	Donate						90,000	90,000
Dixon Inline Skating	GF					150,000		150,000
Doris E. Buffett Pool Improvements	GF		25,000					25,000

FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
Old Mill Park	GF			203,500				203,500
Playground Equipment (inc. HL Harris)	GF		43,500	66,000				109,500
<u>Planning Area Plan Updates</u>								
Planning Area Plan Updates	GF	105,000	150,000	75,000				330,000
<u>Public Facilities</u>								
Bass Ellison Building Improvements	GF			60,000				60,000
Central Rappahannock Regional Library -Theater Room	GF	80,000						80,000
CRRL -Various Improvements	GF	43,000			55,500			98,500
City Hall - Restrooms	GF	30,000		30,000				60,000
City Hall - Replace main roof	GF	110,000						110,000
City Hall - Interior Signage / Rebranding	GF				100,000			100,000
City Hall Mechanical - Renovations	GF		250,000					250,000
Dorothy Hart Community Center	GF			67,500				67,500
Energy Savings Improvements	GF	50,000	300,000					350,000
Train Station Lighting - Phase II & III	GF	-		103,000				103,000
Exec Center Plaza - Electrical Upgrades	GF	125,000						125,000
HVAC / Roof Repair	GF	75,000	100,000	150,000	150,000	150,000	150,000	775,000
Old Town Hall Foundation Repair (Museum)	GF; DEBT	50,000		600,000	400,000			1,050,000
Train Station Sidewalk & Electrical Conduit	GF	125,000	90,000					215,000
Visitor's Center	GF	60,000	66,000	-	-	-	-	126,000
<b>Total</b>		<b>\$ 2,885,000</b>	<b>\$ 1,661,200</b>	<b>\$ 3,197,000</b>	<b>\$ 1,417,500</b>	<b>\$ 1,236,500</b>	<b>\$ 3,110,000</b>	<b>\$ 13,507,200</b>
<b>PUBLIC SAFETY CAPITAL</b>								
Animal Shelter	GF	80,000	95,000	95,000	95,000			365,000
Police Body Cameras	GF	105,000	105,000	145,000	125,000	160,000		640,000
Ambulance	GF; FB-PS	300,000						300,000
Ambulance	Debt		325,000		350,000		350,000	1,025,000
Dive Vehicle	Debt		265,000					265,000
Fire Apparatus	Debt	675,000	1,500,000	850,000	750,000	1,750,000	750,000	6,275,000
Fire Station One - Rehab	FB-PS; Debt	50,000	150,000	3,000,000				3,200,000
Fire Station Two - Concrete Drive	GF		200,000					200,000

FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
New Fire Station - Design	FB-PS		675,000	-	-	-	-	675,000
New Fire Station - Construction	Debt	-		9,550,000	-	-	-	9,550,000
<b>Total</b>		<b>\$ 1,210,000</b>	<b>\$ 3,315,000</b>	<b>\$13,640,000</b>	<b>\$ 1,320,000</b>	<b>\$ 1,910,000</b>	<b>\$ 1,100,000</b>	<b>\$ 22,495,000</b>
<b>COURTS</b>								
General District - 2nd Courtroom	FB-CH	-		500,000				500,000
General Courts Security Desk Improvements	FB-CH	-	-	19,000	-	-	-	19,000
<b>Total</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 519,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 519,000</b>
<b>CIP - TOTAL</b>		<b>\$ 15,944,300</b>	<b>\$ 61,864,750</b>	<b>\$ 22,712,000</b>	<b>\$ 6,475,500</b>	<b>\$ 13,541,500</b>	<b>\$ 6,652,500</b>	<b>\$ 127,190,550</b>
<b>FUNDING</b>								
Debt	Debt	3,175,000	40,475,000	15,310,000	1,500,000	7,050,000	1,100,000	68,610,000
Revenue Bonds	Rev Debt	2,500,000	-	-	-	-	-	2,500,000
General Fund Transfer	GF	2,998,500	4,301,400	4,292,200	4,384,700	3,900,700	5,313,500	25,191,000
General Fund Transfer - FB Assigned for Schools	GF -SCH	661,000	-	-	-	-	-	661,000
Stormwater Transfer	SW	300,000	-	-	-	-	-	300,000
Fund Balances - Capital Project Funds*	Local	993,000	705,000	519,000	-	-	-	2,217,000
Proffer Schools	Proff - SCH	339,000	-	-	-	-	-	339,000
Donations	Donate	-	8,300,000	-	-	-	90,000	8,390,000
All Other Local Sources (includes Gas Tax)	Misc	890,800	310,800	310,800	310,800	310,800	149,000	2,283,000
Storm Water DEQ	Debt; DEQ	-	5,250,000	-	-	-	-	5,250,000
VDOT Funds/Federal	VDOT	2,902,000	2,522,550	2,280,000	280,000	2,280,000	-	10,264,550
State PSAP (Public-Safety Answering Point)	PSAP	1,185,000	-	-	-	-	-	1,185,000
<b>TOTAL</b>		<b>\$ 15,944,300</b>	<b>\$ 61,864,750</b>	<b>\$ 22,712,000</b>	<b>\$ 6,475,500</b>	<b>\$ 13,541,500</b>	<b>\$ 6,652,500</b>	<b>\$ 127,190,550</b>

\* FB=Fund Balance; FB-CH = Court Capital Fund; FB-PF = Public Facilities; FB-PS Public Safety; FB-PW = Public Works; FB-SCH = School Capital or School Bond Funded Capital Funds

FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
<b>Enterprise Fund</b>								
<b>WATER</b>								
Internal System Improvements	Local	\$ 400,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 600,000	\$ 700,000	3,200,000
Pressure Release Valve Replacement / rehab	Local				\$ 100,000	\$ 100,000	\$ 100,000	300,000
College Heights Water Line Replacement (Phase II)	Local			350,000	450,000	450,000		1,250,000
Water Meter Replacement	Local		1,000,000	500,000				1,500,000
Telegraph Hill Loop	Local			200,000				200,000
SCADA*	Local	250,000						250,000
Motts Run Plant Expansion* (MGD Purchase)	Debt	-		1,000,000	1,500,000		-	2,500,000
Motts Run Plant Expansion*	Debt	<u>491,300</u>	<u>1,402,800</u>	<u>3,143,400</u>	<u>5,754,300</u>	<u>-</u>	<u>-</u>	<u>10,791,800</u>
<b>Total</b>		<b>\$ 1,141,300</b>	<b>\$ 2,902,800</b>	<b>\$ 5,693,400</b>	<b>\$ 8,304,300</b>	<b>\$ 1,150,000</b>	<b>\$ 800,000</b>	<b>\$ 19,991,800</b>
<i>*City's share of project managed by Spotsylvania County</i>								
<b>FUNDING</b>								
Water Fund Revenues	Local	650,000	1,500,000	1,550,000	1,050,000	1,150,000	800,000	6,700,000
Debt Issuance	Debt	<u>491,300</u>	<u>1,402,800</u>	<u>4,143,400</u>	<u>7,254,300</u>	<u>-</u>	<u>-</u>	<u>13,291,800</u>
<b>Total</b>		<b>\$ 1,141,300</b>	<b>\$ 2,902,800</b>	<b>\$ 5,693,400</b>	<b>\$ 8,304,300</b>	<b>\$ 1,150,000</b>	<b>\$ 800,000</b>	<b>\$ 19,991,800</b>
<b>WASTEWATER</b>								
<b>PROJECTS</b>								
Inflow and Infiltration Abatements (need to breakout)	Local	\$ 400,000	\$ 300,000	\$ 700,000	\$ 300,000	\$ 300,000	\$ 300,000	2,300,000
Sewer Systems Improvements	Local	350,000	400,000	375,000	400,000	525,000	600,000	2,650,000
Pump Station Upgrades	Local	50,000	100,000	100,000	100,000	100,000	100,000	550,000
Celebrate Virginia Pump Station	Local	150,000						150,000
Upper Princess Anne Replacement	Local					500,000		500,000
Kenmore Avenue Relocation	Local	225,000						225,000
NPS / Farrell Lane Line Replacement - Construction	Debt		2,000,000	600,000	-	-		2,600,000

FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
Replace Route 2 / 17 Pump Station	Local	150,000	-					150,000
WWTP SCADA System Replacement	Local	125,000	-	-	-	-		125,000
WWTP Relamp UV lights (disinfectant)	Local	50,000		50,000		50,000		150,000
WWTP Pump Replacement	Local	140,000	140,000	140,000	140,000	140,000		700,000
WWTP Effluent Tank Relining	Local	400,000	-	-	-	-		400,000
WWTP Emergency Electric System	Local	120,000						120,000
WWTP Grit separators	Local		120,000	-	-	-		120,000
WWTP Influent Building Upgrade	Local		350,000					350,000
<i>WWTP Consolidation as budgeted in FY19</i>								-
Massaponax Expansion/Consolidation* (Spotsylvania)	Debt	3,172,000	9,828,000	10,192,000	7,072,000		-	30,264,000
FMC Infrastructure Improvements* (Spotsylvania)	Debt	1,088,000	750,000					1,838,000
FMC Decommissioning* (Spotsylvania)	Debt	1,536,200	1,300,000					2,836,200
FMC to Massaponax WWTP (Spotsylvania)*	Debt	750,000	3,500,000	3,500,000				7,750,000
New Influent Building (City Plant PS)	Debt				1,700,000	10,300,000	5,100,000	17,100,000
City Plant PS to FMC	Debt				2,600,000			2,600,000
Decommissioning City Plant	Debt	-	-	-	-	-	2,251,000	2,251,000
<b>Total</b>		<b>\$ 8,706,200</b>	<b>\$18,788,000</b>	<b>\$15,657,000</b>	<b>\$12,312,000</b>	<b>\$11,915,000</b>	<b>\$ 8,351,000</b>	<b>\$ 75,729,200</b>
<i>* City's share of project managed by Spotsylvania County</i>								
<b>FUNDING</b>								
Sewer Fund Revenues	Local	2,160,000	1,410,000	1,365,000	940,000	1,615,000	1,000,000	8,490,000
Debt Issuance	Debt	6,546,200	17,378,000	14,292,000	10,512,000	8,240,000	5,880,800	62,849,000
Reimbursement from Spotsylvania	Spotsy	-	-	-	860,000	2,060,000	1,470,200	4,390,200
<b>Total</b>		<b>\$ 8,706,200</b>	<b>\$18,788,000</b>	<b>\$15,657,000</b>	<b>\$12,312,000</b>	<b>\$11,915,000</b>	<b>\$ 8,351,000</b>	<b>\$ 75,729,200</b>

FY 2020 Recommended CIP	Source	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL FY 2020-25
FY 2020 Recommended CIP Summary								
TOTAL CIP Summary								
General Government CIP		15,944,300	61,864,750	22,712,000	6,475,500	13,541,500	6,652,500	127,190,550
Water & Sewer CIP		<u>9,847,500</u>	<u>21,690,800</u>	<u>21,350,400</u>	<u>20,616,300</u>	<u>13,065,000</u>	<u>9,151,000</u>	<u>95,721,000</u>
<b>TOTAL CIP REQUESTS</b>		<b>\$ 25,791,800</b>	<b>\$ 83,555,550</b>	<b>\$ 44,062,400</b>	<b>\$ 27,091,800</b>	<b>\$ 26,606,500</b>	<b>\$ 15,803,500</b>	<b>\$ 222,911,550</b>
TOTAL CIP Summary								
General Obligation Debt		3,175,000	40,475,000	15,310,000	1,500,000	7,050,000	1,100,000	68,610,000
Water and Sewer Debt		7,037,500	18,780,800	18,435,400	17,766,300	8,240,000	5,880,800	76,140,800
R-Board Revenue Debt		<u>2,500,000</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>2,500,000</u>
<b>TOTAL Debt</b>		<b>\$ 10,212,500</b>	<b>\$ 59,255,800</b>	<b>\$ 33,745,400</b>	<b>\$ 19,266,300</b>	<b>\$ 15,290,000</b>	<b>\$ 6,980,800</b>	<b>\$ 147,250,800</b>

FY 2020 Recommended CIP - General Government							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
School - Capital Fund	1,193,000	817,000	753,000	850,000	781,000	872,000	5,266,000
School - Bond Funded Capital	1,000,000	5,612,000	-	-	5,300,000	-	11,912,000
Public Works Capital Fund	9,656,300	50,459,550	4,603,000	2,888,000	4,314,000	1,570,500	73,491,350
Public Facilities Capital	2,885,000	1,661,200	3,197,000	1,417,500	1,236,500	3,110,000	13,507,200
Public Safety Capital	1,210,000	3,315,000	13,640,000	1,320,000	1,910,000	1,100,000	22,495,000
Courts Capital	-	-	519,000	-	-	-	519,000
<b>TOTAL</b>	<b>\$ 15,944,300</b>	<b>\$ 61,864,750</b>	<b>\$ 22,712,000</b>	<b>\$ 6,475,500</b>	<b>\$ 13,541,500</b>	<b>\$ 6,652,500</b>	<b>\$ 127,190,550</b>
<b>Funding</b>							
Debt	3,175,000	40,475,000	15,310,000	1,500,000	7,050,000	1,100,000	68,610,000
Revenue Bonds	2,500,000	-	-	-	-	-	2,500,000
General Fund Transfer	3,659,500	4,301,400	4,292,200	4,384,700	3,900,700	5,313,500	25,852,000
Stormwater Transfer	300,000	-	-	-	-	-	300,000
Fund Balances - Capital Project Funds	993,000	705,000	519,000	-	-	-	2,217,000
All Other Local Sources	1,229,800	310,800	310,800	310,800	310,800	149,000	2,622,000
Donations		8,300,000				90,000	8,390,000
State Funds	4,087,000	7,772,550	2,280,000	280,000	2,280,000	-	16,699,550
<b>TOTAL</b>	<b>\$ 15,944,300</b>	<b>\$ 61,864,750</b>	<b>\$ 22,712,000</b>	<b>\$ 6,475,500</b>	<b>\$ 13,541,500</b>	<b>\$ 6,652,500</b>	<b>\$ 127,190,550</b>
<b>Operating Impacts</b>							
Personnel	-	-	425,438	860,236	879,265	879,265	3,044,204
Operating	60,476	60,476	69,786	376,036	186,286	193,536	946,595
Debt Service	-	267,180	3,357,028	4,505,853	4,684,123	5,285,988	18,100,173
Revenues / Savings	(6,420)	(11,192)	(19,192)	(58,205)	(58,722)	(59,245)	(212,976)
<b>TOTAL</b>	<b>20,085,356</b>	<b>69,953,764</b>	<b>28,825,060</b>	<b>12,439,420</b>	<b>21,512,452</b>	<b>12,952,044</b>	<b>3,044,204</b>

FY 2020 -2025 Recommended CIP - Public Education Capital Funds							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
<u>SCHOOL CAPITAL FUND</u>							
Buses, Technology, Equipment & Capital Maintenance	748,000	737,000	753,000	770,000	781,000	792,000	4,581,000
Enrollment Study	-	80,000	-	80,000	-	80,000	240,000
James Monroe Library Improvements	50,000	-	-	-	-	-	50,000
James Monroe Track Reconditioning	70,000	-	-	-	-	-	70,000
Learning Cottages	250,000	-	-	-	-	-	250,000
Walker - Grant Annex Repairs	75,000	-	-	-	-	-	75,000
Total	\$1,193,000	\$817,000	\$753,000	\$850,000	\$781,000	\$872,000	\$5,266,000
<u>SCHOOL BOND - FUNDED CAPITAL FUND</u>							
Lafayette Upper Elementary School Expansion	1,000,000	5,612,000	-	-	-	-	6,612,000
James Monroe High School Expansion	-	-	-	-	5,300,000	-	5,300,000
Total	\$1,000,000	\$5,612,000	\$0	\$0	\$5,300,000	\$0	\$11,912,000

FY 2020 -2025 Recommended CIP - Public Education Capital Funds							
Funding Sources	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Debt Issuance	-	5,612,000	-	-	5,300,000	-	10,912,000
General Fund Transfer-Local Revenues	764,000	817,000	753,000	850,000	781,000	872,000	4,837,000
General Fund Transfer - Reserved for School Capital	661,000	-	-	-	-	-	661,000
Prior Year Capital Fund Balance	429,000	-	-	-	-	-	429,000
Proffers	339,000	-	-	-	-	-	339,000
Total	\$2,193,000	\$6,429,000	\$753,000	\$850,000	\$6,081,000	\$872,000	\$17,178,000
Operating Impacts	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Personnel	-	-	-	-	-	-	TBD
Operating	-	-	-	-	-	-	TBD
Debt Service	-	-	394,866	394,866	394,866	767,780	1,952,379
Total	\$0	\$0	\$394,866	\$394,866	\$394,866	\$767,780	\$1,952,379

## Buses, Technology, Equipment & Capital Maintenance

**Total Project Cost:** \$4,581,000      **Estimated Opening Date:** Ongoing

**Department/Agency:** Schools

**City Council's Vision:** Learning is a Way of Life



### PROGRAM DESCRIPTION

The Schools have a systematic approach for ongoing maintenance and replacement of capital assets.

- The Schools will replace two school buses per year.
- A portion of the School's technology is refreshed annually. This includes computers, tablets and other devices.
- Capital maintenance includes replacement of carpeting, building repairs, and roof repairs.
- Capital equipment replacements are funded on an annual basis as needs arise.

Specifically funded in FY 2020 is the replacement of the HVAC Chillers at James Monroe High School.

Also included are lease payments for secure surfacing parking for school buses.

### OPERATING IMPACT SUMMARY

The funding represents capital maintenance of ongoing systems.

### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
School Bus Replacement		264,000	300,000	300,000	300,000	300,000	300,000	1,764,000	
Computer Technology		300,000	317,000	333,000	350,000	361,000	372,000	2,033,000	
Capital Maintenance (Carpet, Roof)		75,000	100,000	100,000	100,000	100,000	100,000	575,000	
School Bus Lot Lease		20,000	20,000	20,000	20,000	20,000	20,000	120,000	
James Monroe HVAC Chillers		89,000	0	0	0	0	0	89,000	
<b>Total</b>	Ongoing	\$748,000	\$737,000	\$753,000	\$770,000	\$781,000	\$792,000	\$4,581,000	Ongoing

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer		639,000	737,000	753,000	770,000	781,000	792,000	4,472,000	
Prior Funding		109,000	0	0	0	0	0	109,000	
<b>Total</b>	Ongoing	\$639,000	\$737,000	\$753,000	\$770,000	\$781,000	\$792,000	\$4,581,000	Ongoing

## Enrollment Study

**Total Project Cost:** \$240,000

**Estimated Completion Date:** Ongoing

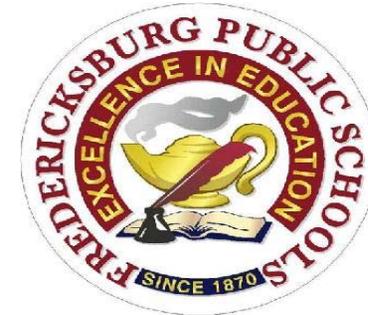
**City Council's Vision:** Learning is a Way of Life

**Department/Agency:** Schools

**NEW in FY 2020**

**PROGRAM DESCRIPTION**

Periodic reevaluation of enrollment projections will help the City and Schools plan for future capital improvement projects.



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Feasibility Study		0	80,000	0	80,000	0	80,000	240,000	
<b>Total</b>		\$0	\$80,000	\$0	\$80,000	\$0	\$80,000	\$240,000	\$0

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	80,000	0	80,000	0	80,000	240,000	
<b>Total</b>	\$0	\$0	\$80,000	\$0	\$80,000	\$0	\$80,000	\$240,000	\$0

## James Monroe Library Improvements

**Total Project Cost:** \$50,000

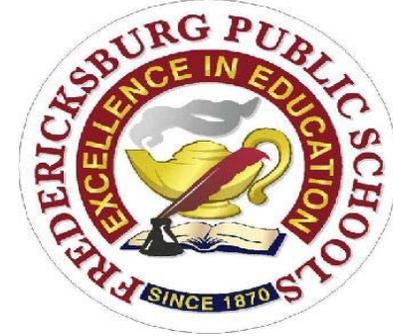
**Estimated Opening Date:** 2020

**City Council's Vision:** Learning is a Way of Life

**Department/Agency:** Schools

**PROGRAM DESCRIPTION**

This project is the modernization of the library / media center at James Monroe High School to better meet the needs of the 21st century learner. This includes furniture, lighting, learning centers, and other improvements.



**OPERATING IMPACT SUMMARY**

None

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		50,000	0	0	0	0	0	50,000	
<b>Total</b>		<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	50,000	0	0	0	0	0	50,000	
<b>Total</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	

## James Monroe Track Reconditioning

**Total Project Cost:** \$70,000

**Estimated Opening Date:** 2021

**City Council's Vision:** Learning is a Way of Life

**Department/Agency:** Schools

**PROGRAM DESCRIPTION**

The project involves the reconditioning, resurfacing, and repainting of the track at James Monroe High School. This major maintenance is done on a five year cycle.

**OPERATING IMPACT SUMMARY**

This project is not anticipated to increase operating costs.



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
James Monroe Track Reconditioning		0	70,000	0	0	0	0	0	70,000	
<b>Total</b>		\$0	\$70,000	\$0	\$0	\$0	\$0	\$0	\$70,000	\$0

Funding Sources	Prior Years	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Prior Year Capital Fund Balance	0	0	70,000	0	0	0	0	0	70,000	
<b>Total</b>	\$0	\$0	\$70,000	\$0	\$0	\$0	\$0	\$0	\$70,000	

## Learning Cottages

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

**Estimated Completion Date:** Ongoing

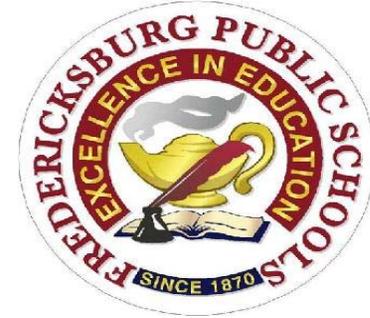
**City Council's Vision:** Learning is a Way of Life

**Department/Agency:** Schools

**NEW in FY 2020**

**PROGRAM DESCRIPTION**

FCPS have requested funding for three learning cottages to be placed at Hugh Mercer Elementary School and Walker Grant Middle School.



**OPERATING IMPACT SUMMARY**

Additional operating costs are to be determined.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Learning Cottages		250,000	0	0	0	0	0	250,000	
<b>Total</b>		\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Prior Year Capital Fund Balance	0	250,000	0	0	0	0	0	250,000	
<b>Total</b>	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$0

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
Personnel	0	0	0	0	0	0	0	
Operating	0	0	0	0	0	0	0	TBD
Debt Service	0	0	0	0	0	0	0	
Revenue/Savings	0	0	0	0	0	0	0	
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	

## Walker - Grant Annex Repairs

**Total Project Cost:** \$75,000

**Estimated Completion Date:** FY 2020

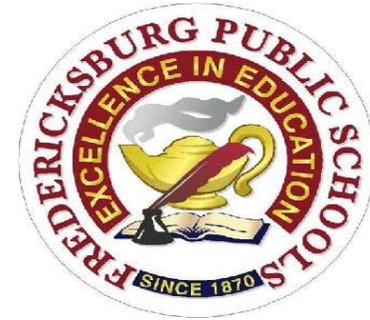
**City Council's Vision:** Learning is a Way of Life

**Department/Agency:** Schools

**NEW in FY 2020**

**PROGRAM DESCRIPTION**

Funds will be used for repairs, minor renovations and upgrades to the Walker-Grant Annex building.



**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		75,000	0	0	0	0	0	75,000	
<b>Total</b>		<b>\$75,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$75,000</b>	<b>\$0</b>

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	75,000	0	0	0	0	0	75,000	
<b>Total</b>	<b>\$0</b>	<b>\$75,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$75,000</b>	<b>\$0</b>

## Lafayette Upper Elementary School Expansion

**Total Project Cost:** \$6,612,000

**Estimated Opening Date:** FY 2022

**City Council's Vision:** Learning is a Way of Life

**Department/Agency:** Schools

**New in FY 2020**

**PROGRAM DESCRIPTION**

Expansion at the Lafayette Upper Elementary School is necessary to accommodate enrollment growth.



**OPERATING IMPACT SUMMARY**

The improvement will be bond funded. Personnel, operating and debt service costs will be refined during the upcoming budget cycles.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Architectural and Engineering Design		1,000,000	0	0	0		0	1,000,000	
Construction		0	5,612,000	0	0	0	0	5,612,000	
<b>Total</b>		<b>\$1,000,000</b>	<b>\$5,612,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,612,000</b>	<b>\$0</b>

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	0	0	5,612,000	0	0	0	0	5,612,000	
General Fund Transfer - Assigned for School Capital Proffers	0	661,000	0	0	0	0	0	661,000	
<b>Total</b>	<b>0</b>	<b>1,000,000</b>	<b>5,612,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$6,612,000</b>	<b>\$0</b>

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
Personnel	0	0	0	0	0	0	0	TBD
Operating	0	0	0	0	0	0	0	TBD
Debt Service	0	0	394,866	394,866	394,866	394,866	1,579,465	Ongoing
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$394,866</b>	<b>\$394,866</b>	<b>\$394,866</b>	<b>\$394,866</b>	<b>\$1,184,599</b>	

## James Monroe High School Expansion

**Total Project Cost:** \$5,300,000

**Estimated Opening Date:** FY 2025

**City Council's Vision:** Learning is a Way of Life

**Department/Agency:** Schools

**Updated in FY 2020**



**PROGRAM DESCRIPTION**

Expansion at the high school may be necessary based on enrollment projections.

**OPERATING IMPACT SUMMARY**

The improvement will be bond funded. Personnel, operating and debt service costs will be refined during the upcoming budget cycles.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
High School Expansion		0	0	0	0	5,300,000	0	5,300,000	
<b>Total</b>		\$0	\$0	\$0	\$0	\$5,300,000	\$0	\$5,300,000	\$0

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	0	0	0	0	0	5,300,000	0	5,300,000	
<b>Total</b>		0	0	0	0	5,300,000	0	\$5,300,000	\$0

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
Personnel	0	0	0	0	0	0	0	TBD
Operating	0	0	0	0	0	0	0	TBD
Debt Service	0	0	0	0	0	372,914	372,914	Ongoing
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$372,914	\$0	

FY 2020 - FY 2025 Recommended CIP - Public Works							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
<u>Public Works</u>							
Historic Assets	30,000	30,000	30,000	30,000	30,000	30,000	180,000
Gateway Enhancements and Way Finding Signs	0	80,000	80,000	80,000	80,000	0	320,000
Great Oaks Acid Soil Remediation	0	0	76,000	0	0	0	76,000
Historic District Improvements (Streetlights & Sidewalks)	0	100,000	100,000	100,000	100,000	190,500	590,500
Neighborhood Enhancements	50,000	50,000	50,000	50,000	50,000	50,000	300,000
Rolling Stock Replacement	166,300	583,000	110,000	0	203,000	0	1,062,300
<u>Solid Waste</u>							
R-Board Cell F3 Construction	2,500,000	0	0	0	0	0	2,500,000
Wheeled Refuse Cart Replacement	0	0	0	350,000	175,000	0	525,000
<u>Stormwater Management</u>							
Canal Improvements	68,000	68,000	68,000	0	150,000	0	354,000
Culvert Replacement	450,000	250,000	750,000	750,000	250,000	250,000	2,700,000
Pond 'D' Constructed Wetland BMP Retrofit	0	10,500,000	0	0	0	0	10,500,000
<u>Trails &amp; Parks</u>							
Kensington Trail Connector	0	1,981,550	0	0	0	0	1,981,550
Pathway Improvements (Idelwild Connector & Embry Dam Trail)	40,000	30,000	0	0	0	0	70,000
Pedestrian Bridge Repairs	50,000	196,000	209,000	198,000	196,000	250,000	1,099,000
Virginia Central Railway (VCR) Trail Bridge	140,000	0	0	0	0	0	140,000

FY 2020 - FY 2025 Recommended CIP - Public Works							
<u>Transportation</u>							
Asphalt & Concrete Program	1,800,000	850,000	850,000	800,000	800,000	800,000	5,900,000
Beulah - Salisbury Drive and Dixon Street Intersection Improvements	0	0	0	250,000	0	0	250,000
Gateway Boulevard Extension	2,500,000	35,200,000	0	0	0	0	37,700,000
George & Princess Anne Street Intersection Improvements	350,000	0	0	0	0	0	350,000
Lafayette Boulevard Pedestrian Safety & Lafayette / Kenmore Roundabout	600,000	0	2,000,000	0	2,000,000	0	4,600,000
Route 3 - Traffic Signal Modernization	417,000	261,000	0	0	0	0	678,000
Traffic Signal Conversion to Flashing Amber Left Turns	495,000	0	0	0	0	0	495,000
Traffic Signal Conversion Modernization	0	280,000	280,000	280,000	280,000	0	1,120,000
Total	\$9,656,300	\$50,459,550	\$4,603,000	\$2,888,000	\$4,314,000	\$1,570,500	\$73,491,350

FY 2020 - FY 2025 Recommended CIP - Public Works							
Funding Sources	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Debt Issuance	2,500,000	32,623,000	0	0	0	0	35,123,000
Revenue Debt issuance	2,500,000						2,500,000
Fuel Tax	270,000	0	0	0	0	0	\$270,000
General Fund / Fund Balance / Local	1,484,300	1,764,000	2,323,000	2,608,000	2,034,000	1,570,500	11,783,800
State DEQ	0	5,250,000	0	0	0	0	5,250,000
VDOT	2,902,000	2,522,550	2,280,000	280,000	2,280,000	0	10,264,550
Donation	0	8,300,000	0	0	0	0	8,300,000
Total	\$9,656,300	\$50,459,550	\$4,603,000	\$2,888,000	\$4,314,000	\$1,570,500	\$73,491,350
Operating Impacts	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Personnel							0
Operating	0	0	6,250	12,500	18,750	25,000	62,500
Debt Service	0	188,050	2,638,020	2,638,020	2,638,020	2,661,817	10,763,925
Revenue Debt Service		534,000	418,000	418,000	418,000	418,000	2,206,000
Revenue		(534,000)	(418,000)	(418,000)	(418,000)	(418,000)	(2,206,000)
Total	\$0	\$188,050	\$2,644,270	\$2,650,520	\$2,656,770	\$2,686,817	\$10,826,425

## Historic Assets

**Total Project Cost:** \$180,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** A Proven Leader in Historic Preservation

**Department/Agency:** Public Works

**Revised in FY2020**

**PROGRAM DESCRIPTION**

Funds will be used to evaluate and repair the City's historic assets including:

- Mary Washington Monument
- Hugh Mercer Monument
- Thornton Cemetery
- Religious Freedom monument
- Rogers-Clark monument

The funds may also be used for the City Cemetery and the Confederate Cemetery. Future projects may include the repair as necessary of the cemetery gate and replacement of the existing concrete sidewalk along Washington Avenue between Amelia and William Streets with a new brick 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 cemeteries.

As improvements are identified, the current placeholder costs for FY 2021-2025 may be adjusted in future CIPs.



**OPERATING IMPACT SUMMARY**

These funds are to replace existing assets, although brick sidewalks generally require more maintenance.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction	30,000	30,000	30,000	30,000	30,000	30,000	30,000	180,000	
<b>Total</b>	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$180,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	30,000	30,000	30,000	30,000	30,000	30,000	30,000	180,000	
<b>Total</b>	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$180,000	

## Gateway Enhancements and Way Finding Signs

**Total Project Cost:** \$320,000

**Estimated Opening Date:** 2022 -2024

**City Council's Vision:** Distinct and Linked Neighborhoods

**Department/Agency:** City Manager's Office

**PROGRAM DESCRIPTION**

The Wayfinding project will be done in conjunction with the City's rebranding efforts to provide clear directions and travel assistance to those visiting our City.



**OPERATING IMPACT SUMMARY**

The City estimates an annual operating cost of \$25,000 per year upon completion of all phases.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction	0	0	80,000	80,000	80,000	80,000	0	320,000	
<b>Total</b>	\$0	\$0	\$80,000	\$80,000	\$80,000	\$80,000	\$0	\$320,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	80,000	80,000	80,000	80,000	0	320,000	
<b>Total</b>	\$0	\$0	\$80,000	\$80,000	\$80,000	\$80,000	\$0	\$320,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Operating	0	0	6,250	12,500	18,750	25,000	62,500
<b>Total</b>	\$0	\$0	\$6,250	\$12,500	\$18,750	\$25,000	\$62,500

## Great Oaks Acid Soil Remediation

**Total Project Cost:** \$76,000

**Estimated Opening Date:** 2022

**City Council's Vision:** Distinct and Linked Neighborhoods

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

Several areas within the Great Oaks subdivision have incurred accelerated deterioration and massive staining of sidewalks and curbs and gutter areas stemming from acid sulfate soils. The staining is the effect of the acid soils being exposed to air, causing a chemical reaction of the sulfur in the soil with air, creating sulfuric acid and the release of iron from the soils. The acid eats concrete and prohibits the growth of almost all plant materials.

This CIP project proposes to replace the current, traditional concrete sidewalk and curbing with a pervious rubber project that will not only resist staining and deterioration by the soils runoff, but will also allow infiltration of any runoff into the sidewalk area, thereby keeping it from reaching the storm sewer.



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction	0	0	0	76,000	0	0	0	76,000	
<b>Total</b>	\$0	\$0	\$0	\$76,000	\$0	\$0	\$0	\$76,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	0	76,000	0	0	0	76,000	
<b>Total</b>	\$0	\$0	\$0	\$76,000	\$0	\$0	\$0	\$76,000	

## Historic District Improvements (Streetlights & Sidewalks)

**Total Project Cost:** \$590,500

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Employment Epicenter

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

The ornamental lights in the downtown historic district will 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. 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.

FY 2025 specifically identifies an area near the library on Lewis Street for brick sidewalk and colonial streetlight improvements.

**OPERATING IMPACT SUMMARY**

Brick sidewalks generally require more maintenance and monitoring than concrete sidewalks.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Historic District Improvements	Ongoing	0	100,000	100,000	100,000	100,000	100,000	500,000	
Lewis St Brick Sidewalks / Colonial Streetlights		0	0	0	0	0	90,500	90,500	
<b>Total</b>	Ongoing	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$190,500	\$590,500	

Funding Sources	Prior Years	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL	Later Years
General Fund Transfer	Ongoing	0	100,000	100,000	100,000	100,000	190,500	590,500	
<b>Total</b>	\$0	0	100,000	100,000	100,000	100,000	190,500	590,500	

## Neighborhood Enhancements

**Total Project Cost:** \$300,000

**Estimated Opening Date:** FY 2020-2025

**City Council's Vision:** Distinct and Linked Neighborhoods

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

City Council set a goal of establishing:

"A Neighborhood Enhancement Program to enhance infrastructure in neighborhoods that will include: dedicated funding, a method of prioritizing expenditures, communication with neighborhoods as appropriate and avoidance of competition."

The Department of Public Works has been tasked with setting up and administering the program. Projects eligible for funding will include streetlights, sidewalks, signage and trees.



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		50,000	50,000	50,000	50,000	50,000	50,000	300,000	
<b>Total</b>	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL	Later Years
General Fund Transfer		50,000	50,000	50,000	50,000	50,000	50,000	300,000	
<b>Total</b>	\$0	50,000	50,000	50,000	50,000	50,000	50,000	300,000	

## Rolling Stock Replacement

**Total Project Cost:** \$1,062,300      **Estimated Opening Date:** FY 2020-2024

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**Updated**

**PROGRAM DESCRIPTION**

The Public Works Department replaces aged, high maintenance vehicles each year to maintain and improve the City's fleet. The replacements include Class 7 dump trucks, leaf vacuum truck, a street sweeper, and a wheel loader. The vehicles are used for major road maintenance, debris removal, and during winter storm events. Additionally, the street sweeper is an important component of maintaining the City's MS4 permit.



**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Refuse Truck		166,300	0	0	0	0	0	166,300	
Street Sweeper		0	270,000	0	0	0	0	270,000	
Dump Truck		0	110,000	110,000	0	0	0	220,000	
Wheel Loader		0	203,000	0	0	0	0	203,000	
Leaf Vac Truck		0	0	0	0	203,000	0	203,000	
<b>Total</b>		\$166,300	\$583,000	\$110,000	\$0	\$203,000	\$0	\$1,062,300	

Funding Sources	Prior Years	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL	Later Years
Debt Issuance		0	270,000	0	0	203,000	0	473,000	
General Fund Transfer		166,300	313,000	110,000	0	0	0	589,300	
<b>Total</b>		\$166,300	\$583,000	\$110,000	\$0	\$203,000	\$0	\$1,062,300	

Operating Impacts	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL
Debt Service	0	0	19,867	19,867	19,867	34,804	94,405
<b>Total</b>	\$0	\$0	\$19,867	\$19,867	\$19,867	\$34,804	\$94,405

## R-Board Cell F3 Construction

**Total Project Cost:** \$2,500,000      **Estimated Opening Date:** FY 2020

**City Council's Vision:** Green, Clean Environment

**Department/Agency:** R-Board; City Manager's Office



**PROGRAM DESCRIPTION**

The R-Board advises that the current landfill cell, Cell F2, is filling and will reach capacity ahead of schedule. The original schedule was that the Cell would last approximately seven years. Based on current waste flows into the landfill, the projection is that the landfill will need to open Cell F3 after five years. The R-Board currently plans for the City and Stafford County to approve revenue bond financing for the construction of the new cell, which is currently forecast for FY 2020. The R-Board's current finances will allow for the payment of the debt service from R-Board tipping fees, and there should be no impact on the City's operating funds from the opening of the new cell.

**OPERATING IMPACT SUMMARY**

Debt service will be paid from R-Board revenues. Timing may be revised.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		2,500,000	0	0	0	0	0	2,500,000	
<b>Total</b>		\$2,500,000	\$0	\$0	\$0	\$0	\$0	\$2,500,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL	Later Years
Debt Issuance		2,500,000	0	0	0	0	0	2,500,000	
<b>Total</b>		2,500,000	0	0	0	0	0	2,500,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
Debt Service	0	534,000	418,000	418,000	418,000	418,000	2,206,000	Ongoing
R-Board Payments	0	(534,000)	(418,000)	(418,000)	(418,000)	(418,000)	(2,206,000)	Ongoing
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	

## Wheeled Refuse Cart Replacement

**Total Project Cost:** \$525,000

**Estimated Opening Date:** FY 2023

**City Council's Vision:**

Green, Clean Environment

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

This is the phased replacement of the the 65 gallon roll-out carts used for both solid waste and recycling.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Equipment Purchases	0	0	0		350,000	175,000	0	525,000	
<b>Total</b>	\$0	\$0	\$0	\$0	\$350,000	\$175,000	\$0	\$525,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	0	0	350,000	175,000	0	525,000	
<b>Total</b>	\$0	\$0	\$0	\$0	\$350,000	\$175,000	\$0	\$525,000	

## Canal Improvements

**Total Project Cost:** \$354,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Green, Clean Environment

**Department/Agency:** Public Works

**Updated in FY 2020**

**PROGRAM DESCRIPTION**

Debris has been accumulating in the Rappahannock Canal for years. Although it is a natural process, because the canal is a man-made, closed (no fresh water naturally flowing into the system) system, the rotting debris lowers dissolved oxygen levels (DO) in the water, which is detrimental to aquatic life. Debris removal also lends to a more aesthetically pleasing canal. This CIP project includes funding a four year debris removal program. The program may be extended in future CIPs or absorbed into the operating budget.

The aeration system was installed in 2005 and will require replacement of the compressors and areations lines in a systematic way to assure continued optimum performance and benefit. The aeration system that provides compressed air to the Canal through slitted plastic lines helps to keep DO levels in the canal at an acceptable level.



**OPERATING IMPACT SUMMARY**

Debris removal maybe incorporated into the operating budget after the initial debris removal project.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debris Removal	50,000	50,000	50,000	50,000	0	0	0	150,000	
Aeration System	18,000	18,000	18,000	18,000	0	0	0	54,000	
Dredge Upper Canal		0	0	0	0	150,000	0	150,000	
<b>Total</b>	\$68,000	\$68,000	\$68,000	\$68,000	\$0	\$150,000	\$0	\$354,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL	Later Years
General Fund Transfer	68,000	68,000	68,000	68,000	0	150,000	0	354,000	
<b>Total</b>	\$68,000	68,000	68,000	68,000	0	150,000	0	354,000	

## Culvert Replacement

**Total Project Cost:** \$2,700,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Green, Clean Environment

**Department/Agency:** Public Works

**Updated in FY 2020**

**PROGRAM DESCRIPTION**

The City's storm drains and culverts require periodic maintenance and replacement in order to continue to function. 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. Other projects have been identified and are scheduled based on condition. The projects are reviewed annually and scheduled and costs may be updated in future CIP's.

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

FY 2020 funding includes a transfer from the Stormwater Management Fund. The FY2020 Recommended Budget includes a 1 cent increase in the property tax rate related to stormwater.

**OPERATING IMPACT SUMMARY**

These funds are to replace existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Culvert Replacement and Repair	Ongoing	50,000	50,000	250,000	250,000	250,000	250,000	1,100,000	
Huntington Hills		300,000	0	0	0	0	0	300,000	
Route 1 Culvert		100,000	0	0	0	0	0	100,000	
Learning Lane		0	200,000	0	0	0	0	200,000	
100 Block William Street		0	0	500,000	0	0	0	500,000	
Central Road		0	0	0	500,000	0	0	500,000	
<b>Total</b>		\$450,000	\$250,000	\$750,000	\$750,000	\$250,000	\$250,000	\$2,700,000	Ongoing

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	Ongoing	150,000	250,000	750,000	750,000	250,000	250,000	2,400,000	Ongoing
Storm Water Funding	0	300,000	0	0	0	0	0	300,000	
<b>Total</b>	\$0	\$450,000	\$250,000	\$750,000	\$750,000	\$250,000	\$250,000	\$2,700,000	Ongoing

## Pond 'D' Constructed Wetland BMP Retrofit

**Total Project Cost:** \$10,500,000

**Estimated Opening Date:** FY 2021

**City Council's Vision:**

Green, Clean Environment

**Department/Agency:** Planning



**PROGRAM DESCRIPTION**

Pond 'D' is an existing flood control facility that impounds an unnamed tributary to Hazel Run between the Great Oaks subdivision at the end of Black Oak Court and the Police Station. The drainage area to the existing impoundment is approximately 700 acres and drains a large impervious section of Central Park. The existing basin was designed to abate downstream flooding on homes and properties. Water quality treatment was not a prominent design feature in this facility.

Pond 'D' was targeted as a potential stormwater management best management practice (BMP) as part of the City's Chesapeake Bay Total Maximum Daily Load (TMDL) action planning to reduce Nitrogen (N), Phosphorus (P), and Sediment (TSS) from the Bay as required by the City's Municipal Separate Storm Sewer System (MS4) permit obligations. Under the permit structure, the City must meet 40% of it's overall pollutant removal reductions by June 30, 2023. The City performed an analysis of Pond 'D' to assess viability of water quality enhancement/retrofit, pollutant removal potential, cost estimate, limiting site factors, and potential for state Stormwater Local Assistance Fund (SLAF) 50/50 matching grants based on competitive \$/lb. removal rates. The City concluded that Pond 'D' could best be retrofitted as a Level 1 or Level 2 Constructed Wetland. Based on their projections the Level 1 design would achieve the overall 40% reductions to meet the current MS4 permit, however the Level 2 design would achieve 100% of the City's TMDL requirements for N, P, and TSS.

Based on the preliminary figures for Level 1 or Level 2 Phosphorus removal, \$14.3k/lb. and \$19.5k/lb. respectively, the City is well-positioned below the SLAF threshold of \$49k/lb. Phosphorus recommended for grant funding and would seek 50% matching funds to complete this project and achieve its TMDL goals and the City Council's Vision for a Green, Clean Environment.

**OPERATING IMPACT SUMMARY**

Initial operating costs include replanting of wetland plants, out years reflect annual maintenance costs. The FY2020 Recommended Budget includes a 1 cent increase in the property tax rate related to stormwater which may be used to offset debt service in future years.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		0	10,500,000	0	0	0	0	10,500,000	
<b>Total</b>		\$0	\$10,500,000	\$0	\$0	\$0	\$0	\$10,500,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	0	0	5,250,000	0	0	0	0	5,250,000	
State DEQ	0	0	5,250,000	0	0	0	0	5,250,000	
<b>Total</b>	\$0	\$0	\$10,500,000	\$0	\$0	\$0	\$0	\$10,500,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Personnel	0	0	0	0	0	0	0
Operating	0	20,000	15,000	10,000	5,000	5,000	55,000
Debt Service	0	0	394,904	394,904	394,904	394,904	1,579,617
<b>Total</b>	\$0	\$20,000	\$409,904	\$404,904	\$399,904	\$399,904	\$1,634,617

## Kensington Trail Connector

**Total Project Cost:** \$2,001,550      **Estimated Opening Date:** 2022

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Transportation

**PROGRAM DESCRIPTION**

The Kensington Connector is a 10-foot wide asphalt pathway along the west side of Lafayette Boulevard. The pathway will extend from Twin Lakes Drive to St. Paul Street, a distance of 0.27 miles.

**OPERATING IMPACT SUMMARY**

As trails are added, additional man-hours will be required to maintain them.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary Engineering	20,000	0	500,000	0	0	0	0	500,000	
Right of Way	0	0	700,000	0	0	0	0	700,000	
Construction	0	0	781,550	0	0	0	0	781,550	
<b>Total</b>	\$20,000	\$0	\$1,981,550	\$0	\$0	\$0	\$0	\$1,981,550	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	20,000	0	0	0	0	0	0	0	
VDOT - Smart Scale		0	1,481,000	0	0	0	0	1,481,000	
VDOT - CMAQ		0	500,000	0	0	0	0	500,000	
<b>Total</b>	\$20,000	\$0	\$1,981,000	\$0	\$0	\$0	\$0	\$1,981,000	

## Pathway Improvements (Idelwild Connector & Embry Dam Trail)

**Total Project Cost:** \$70,000

**Estimated Opening Date:** 2020

**City Council's Vision:** Distinct and Linked Neighborhoods

**Department/Agency:** Transportation

**PROGRAM DESCRIPTION**

The Fredericksburg trail system includes ten-foot wide, multi-use pathways in a network that extends throughout much of the City. This project will establish two trail links from the Idlewild neighborhood to the existing VCR trailhead. The steep slopes that characterize the Idlewild subdivision require careful engineering/planning of appropriate routes. Additional trail work is also needed west of the Hazel Run Bridge. New projects may be identified in future plans as resources allow.

**OPERATING IMPACT SUMMARY**

Any additional trail miles will increase demands on staff time and maintenance resources.



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		40,000	30,000	0	0	0	0	70,000	
<b>Total</b>		\$40,000	\$30,000	\$0	\$0	\$0	\$0	\$70,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Local Funds		40,000	30,000	0	0	0	0	70,000	
<b>Total</b>		\$40,000	\$30,000	\$0	\$0	\$0	\$0	\$70,000	

## Pedestrian Bridge Repairs

**Total Project Cost:** \$1,099,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Public Works

**New in FY 2020**



**PROGRAM DESCRIPTION**

The Public Works Department recently instituted a pedestrian bridge inspection program. Based on the findings of those reports, the department identified major repair projects for the bridges along the Canal Path, the Heritage Trail, and the VRC Trail.

**OPERATING IMPACT SUMMARY**

The project is the repair of current assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary Work		50,000	0	0	0	0	0	50,000	
Gordon Shelton Bridge		0	196,000	0	0	0	0	196,000	
Lompano Bridge		0	0	209,000	0	0	0	209,000	
Tom & Ruth Higgins Bridge		0	0	0	198,000	0	0	198,000	
Normandy Bridge		0	0	0	0	196,000	0	196,000	
Quarry Foot Bridge (replacement)		0	0	0	0	0	250,000	250,000	
<b>Total</b>		\$50,000	\$196,000	\$209,000	\$198,000	\$196,000	\$250,000	\$1,099,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Local Funds		50,000	196,000	209,000	198,000	196,000	250,000	1,099,000	
<b>Total</b>	\$0	\$50,000	\$196,000	\$209,000	\$198,000	\$196,000	\$250,000	\$1,099,000	

## Virginia Central Railway (VCR) Trail Bridge

**Total Project Cost:** \$160,000

**Estimated Opening Date:** 2020

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Transportation

**PROGRAM DESCRIPTION**

The Virginia Central Railway (VCR) Trail extends from downtown Fredericksburg to a trailhead near the Idlewild neighborhood, a distance of 2.5 miles. This facility is a ten-foot wide, asphalt surfaced, multi-use trail that can be used in all weather. An additional 3/4 mile section of the old railway bed extends west, from the Idlewild trailhead, but is cut off from potential access by Hazel Run. This project will place a bridge across this waterway and open the western-most section of the old railway bed to recreational use.

Historically, the railway extended from Fredericksburg westward for 30 miles to the Town of Orange. Fredericksburg is turning the VCR right-of-way within the City limits into a bicycle/pedestrian route, both for transportation and recreation. Similar efforts have occurred in Spotsylvania County on other sections of the VCR. The long term vision is to have a complete hiking/biking route from Fredericksburg to Orange, which would need to include a tunnel through the Interstate embankment. In the meantime, the City intends to open the entire railway trail in this jurisdiction to public use.



**OPERATING IMPACT SUMMARY**

As trails are added, additional man-hours will be required to maintain them.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary Engineering	20,000	0	0	0	0	0	0	0	
Construction	0	140,000	0	0	0	0	0	140,000	
<b>Total</b>	<b>\$20,000</b>	<b>\$140,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>140,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
VDOT	20,000	140,000	0	0	0	0	0	140,000	
<b>Total</b>	<b>\$20,000</b>	<b>\$140,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$140,000</b>	

## Asphalt & Concrete Program

**Total Project Cost:** \$5,800,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

### PROGRAM DESCRIPTION

Each year the City uses local and Virginia Department of Transportation (VDOT) 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 now receives primary roadway paving funds from VDOT as well, which require no local match. The City maximizes funding available each year to address the streets in the greatest need 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.

The FY 2020 program will include public roads within the Mary Washington Hospital campus. The City will also continue traffic calming efforts as resources allow.



### OPERATING IMPACT SUMMARY

The annual asphalt and concrete program maintains existing streets, roads, curbs and gutters.

### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		1,750,000	800,000	800,000	800,000	800,000	800,000	5,750,000	
Traffic Calming		50,000	50,000	50,000	0	0	0	150,000	
<b>Total</b>	\$0	\$1,800,000	\$850,000	\$850,000	\$800,000	\$800,000	\$800,000	\$5,900,000	Ongoing

Funding Sources	Prior Years	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL	Later Years
Fuel Tax		270,000	0	0	0	0	0	270,000	
Local Funds		630,000	850,000	850,000	800,000	800,000	800,000	4,730,000	
VDOT Funding		900,000	0	0	0	0	0	900,000	
<b>Total</b>	Ongoing	1,800,000	850,000	850,000	800,000	800,000	800,000	5,900,000	Ongoing

## Beulah - Salisbury Drive and Dixon Street Intersection Improvements

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

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**New in FY 2020**

**PROGRAM DESCRIPTION**

The project includes the addition of a right turn lane on Beulah-Salisbury Drive and the enlargement of the turning radii to facilitate the turning movements of large tractor trailers.

**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		0	0	0	250,000	0	0	250,000	
<b>Total</b>		\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY2022	FY2023	FY2024	FY2025	TOTAL	Later Years
Local Funds		0	0	0	250,000	0	0	250,000	
<b>Total</b>		0	0	0	250,000	0	0	250,000	

## Gateway Boulevard Extension

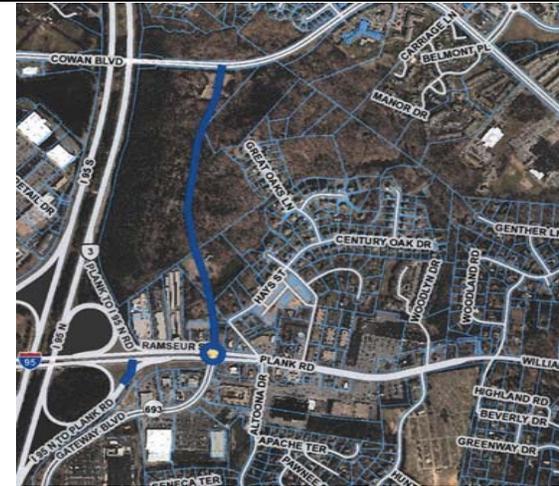
**Total Project Cost:** \$37,700,000

**Estimated Opening Date:** 2022

**City Council's Vision:** Employment Epicenter

**Department/Agency:** City Manager's Office

**Updated in FY 2020**



**PROGRAM DESCRIPTION**

Gateway Boulevard is a new facility. It will be designed as a four-lane, divided roadway, with a sidewalk and 10-foot wide trail located generally between Plank Road and Cowan Boulevard as depicted on the map. The road will provide access to an undeveloped tract of land east of I-95.

The current estimate is preliminary and may be revised as the project develops.

**OPERATING IMPACT SUMMARY**

To be determined. Gateway Boulevard will be added to the City's road network and maintenance schedule.

Although the City's share is identified as funded through debt, the City is actively pursuing alternate funding sources.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary	0	2,500,000	0	0	0	0	0	2,500,000	
Right of Way	0	0	15,700,000	0	0	0	0	15,700,000	
Construction & Construction Mgmt	0	0	19,500,000	0	0	0	0	19,500,000	
<b>Total</b>	\$0	\$2,500,000	\$35,200,000	\$0	\$0	\$0	\$0	\$37,700,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	0	2,500,000	26,900,000	0	0	0	0	29,400,000	
ROW Donation			8,300,000					8,300,000	
<b>Total</b>	\$0	\$2,500,000	\$35,200,000	\$0	\$0	\$0	\$0	\$37,700,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	0	0	0
Operating	0	0	0	0	0	0	0	0	TBD
Debt Service	0	188,050	2,211,463	2,211,463	2,211,463	2,211,463	9,033,902		Ongoing
<b>Total</b>	\$0	\$188,050	\$2,211,463	\$2,211,463	\$2,211,463	\$2,211,463	\$6,822,439		

## George & Princess Anne Streets Intersection Improvements

**Total Project Cost:** \$350,000      **Estimated Opening Date:** 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**New in FY 2020**

**PROGRAM DESCRIPTION**

The intersection of George Street and Princess Anne Street is the only remaining signalized intersection in downtown Fredericksburg that does not have pedestrian signals. The City submitted a funding application to VDOT's Highway Safety Improvement Program (HSIP) for installation of pedestrian signals and other upgrades at this intersection.

**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction	0	350,000	0	0	0	0	0	350,000	
<b>Total</b>	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
VDOT	0	350,000	0	0	0	0	0	350,000	
<b>Total</b>	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000	

## Lafayette Boulevard Pedestrian Safety & Lafayette / Kenmore Roundabout

**Total Project Cost:** \$4,600,000      **Estimated Opening Date:** 2025

**City Council's Vision:** Cutting Edge Transportation Solutions

**Department/Agency:** Public Works      **Updated Cost Estimate**

### PROGRAM DESCRIPTION

The City has included funding 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.

### OPERATING IMPACT SUMMARY

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.



### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Design	0	600,000	0	0	0	0	0	600,000	
Right of Way	0	0	0	2,000,000	0	0	0	2,000,000	
Construction	0	0	0	0	0	2,000,000	0	2,000,000	
<b>Total</b>	\$0	\$600,000	\$0	\$2,000,000	\$0	\$2,000,000	\$0	\$4,600,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
VDOT	0	600,000	0	2,000,000	0	2,000,000	0	4,600,000	
<b>Total</b>	\$0	\$600,000	\$0	\$2,000,000	\$0	\$2,000,000	\$0	\$4,600,000	

0

## Route 3 - Traffic Signal Modernization

**Total Project Cost:** \$1,416,000

**Estimated Opening Date:** 2021

**City Council's Vision:** Cutting Edge Transportation Solutions

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

The City of Fredericksburg, through the Fredericksburg Area Metropolitan Planning Organization (FAMPO), has obtained future capital funding for Phase II of various improvements to the traffic signals on State Route 3.

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.

**OPERATING IMPACT SUMMARY**

The City currently maintains these systems.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction	369,000	417,000	261,000	0	0	0	0	1,047,000	
<b>Total</b>	<b>\$369,000</b>	<b>\$417,000</b>	<b>\$261,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,047,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
VDOT - CMAQ	369,000	417,000	261,000	0	0	0	0	1,047,000	
<b>Total</b>	<b>\$369,000</b>	<b>\$417,000</b>	<b>\$261,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,047,000</b>	

## Traffic Signal Conversion to Flashing Amber Left Turns

**Total Project Cost:** \$495,000

**Estimated Opening Date:** 2021

**City Council's Vision:** Cutting Edge Transportation Solutions

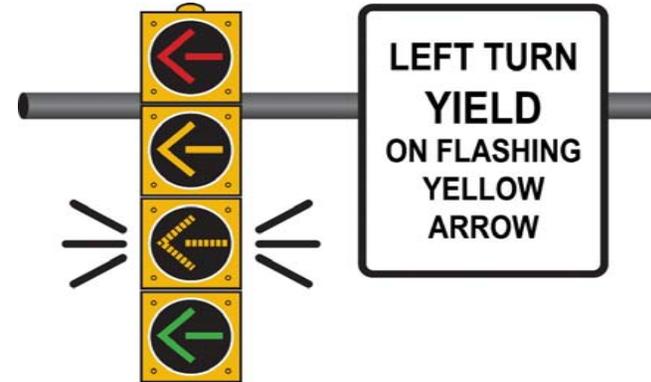
**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

Due to new Federal Highway Administration regulations, certain intersections in the City of Fredericksburg with permissive left turn signals will be converted to a flashing amber left turn arrow from the green ball . All new signals will be constructed to meet this new standard.

The following signals are included in this program:

- Cowan Blvd at Hospital Drive and Snowden Hills Blvd
- Carl D. Silver Pkwy. at Trade St., Lowes, Cowan / Central Park Blvd, the Walmart entrance, Gordon W. Shelton Blvd, and Hospitality Ln
- Central Park Blvd. at Trade St. and Corporate Center



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction	0	495,000	0	0	0	0	0	495,000	
<b>Total</b>	\$0	\$495,000	\$0	\$0	\$0	\$0	\$0	\$495,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
VDOT - HSIP	0	495,000	0	0	0	0	0	495,000	
<b>Total</b>	\$0	\$495,000	\$0	\$0	\$0	\$0	\$0	\$495,000	

## Traffic Signal Conversion Modernization

**Total Project Cost:** \$1,120,000

**Estimated Opening Date:** FY 2021-24

**City Council's Vision:** Cutting Edge Transportation Solutions

**Department/Agency:** Public Works

### PROGRAM DESCRIPTION

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. The City will request funding for the Traffic Signal projects through the Fredericksburg Area Metropolitan Planning Organization (FAMPO). If VDOT funds are not available, the scope of the project will be reduced.

### OPERATING IMPACT SUMMARY

The signals represent replacements of currently signalized intersections.

### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction	0	0	280,000	280,000	280,000	280,000	0	1,120,000	
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$0</b>	<b>\$1,120,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	140,000	140,000	140,000	140,000	0	560,000	
VDOT - 50/50 Revenue Sharing	0	0	140,000	140,000	140,000	140,000	0	560,000	
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$0</b>	<b>\$1,120,000</b>	

FY 2020 - 2025 Recommended CIP - Public Facilities Capital Fund							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
<u>Community Planning and Building</u>							
Planning Area Updates	105,000	150,000	75,000	0	0	0	<b>\$330,000</b>
<u>Information Technology</u>							
Fiber Network Expansion	98,000	50,000	76,000	0	0	0	<b>\$224,000</b>
IT Disaster Resilience Plan Implementation	94,000	0	0	0	0	0	<b>\$94,000</b>
NG911 Implementation	1,185,000	0	0	0	0	0	<b>\$1,185,000</b>
Public Safety Replacement	0	0	0	0	0	2,500,000	<b>\$2,500,000</b>
Technology Replacements	300,000	467,700	396,000	348,000	359,000	370,000	<b>\$2,240,700</b>
<u>Parking</u>							
Hanover Street Parking	315,000	0	0	0	0	0	<b>\$315,000</b>
<u>Parks, Recreations &amp; Events</u>							
ADA Accessibility to Park Amenities	40,000	100,000	60,000	0	0	0	<b>\$200,000</b>
Alum Springs Park Improvements	0	0	1,310,000	124,000	0	0	<b>\$1,434,000</b>
City Dock Improvements	0	0	0	0	37,500	0	<b>\$37,500</b>
Dixon Park Improvements & Wetlands Pavilion	0	19,000	0	240,000	0	0	<b>\$259,000</b>
Memorial Park Improvements	0	0	0	0	540,000	0	<b>\$540,000</b>
Parks & Playground Improvements	0	68,500	269,500	0	150,000	90,000	<b>\$578,000</b>

FY 2020 - 2025 Recommended CIP - Public Facilities Capital Fund							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
<u>Public Facilities</u>							
Bass Ellison Improvements	0	0	60,000	0	0	0	<b>\$60,000</b>
Central Rappahannock Regional Library	123,000	0	0	55,500	0	0	<b>\$178,500</b>
City Hall Renovation	140,000	250,000	30,000	100,000	0	0	<b>\$520,000</b>
Dorothy Hart Community Center	0	0	67,500	0	0	0	<b>\$67,500</b>
Executive Center Plaza - Electrical Upgrades	125,000	0	0	0	0	0	<b>\$125,000</b>
Energy Retrofit	50,000	300,000	103,000	0	0	0	<b>\$453,000</b>
Old Town Hall	50,000	0	600,000	400,000	0	0	<b>\$1,050,000</b>
Roof Repair & HVAC Maintenance	75,000	100,000	150,000	150,000	150,000	150,000	<b>\$775,000</b>
Train Station Sidewalk and Conduit Repair	125,000	90,000	0	0	0	0	<b>\$215,000</b>
Visitor's Center	60,000	66,000	0	0	0	0	<b>\$126,000</b>
<b>Total</b>	<b>\$2,885,000</b>	<b>\$1,661,200</b>	<b>\$3,197,000</b>	<b>\$1,417,500</b>	<b>\$1,236,500</b>	<b>\$3,110,000</b>	<b>\$13,507,200</b>

FY 2020 - 2025 Recommended CIP - Public Facilities Capital Fund

Funding Sources	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Debt Issuance	0	0	1,910,000	400,000	0	0	<b>\$2,310,000</b>
General Fund Transfer / Other Local Sources	1,700,000	1,661,200	1,287,000	1,017,500	1,236,500	3,020,000	<b>\$9,922,200</b>
Donations	0	0	0	0	0	90,000	<b>\$90,000</b>
State/Federal	1,185,000	0	0	0	0	0	<b>\$1,185,000</b>
<b>Total</b>	<b>\$3,010,000</b>	<b>\$1,661,200</b>	<b>\$3,197,000</b>	<b>\$1,417,500</b>	<b>\$1,236,500</b>	<b>\$3,110,000</b>	<b>\$13,632,200</b>
Operating Impacts	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Personnel	0	0	0	0	0	0	<b>\$0</b>
Operating	60,476	60,476	63,536	98,536	98,536	98,536	<b>\$480,095</b>
Debt Service	0	0	0	166,148	215,464	215,464	<b>\$597,075</b>
Revenue / Savings	(6,420)	(11,192)	(19,192)	(11,192)	(11,192)	(11,192)	<b>(\$70,380)</b>
<b>Total</b>	<b>\$54,056</b>	<b>\$49,284</b>	<b>\$44,344</b>	<b>\$253,491</b>	<b>\$302,808</b>	<b>\$302,808</b>	<b>\$1,006,791</b>

**Planning Area Updates**

**Total Project Cost:** \$905,000

**Estimated Opening Date:** 2019-2022

**City Council's Vision:** Distinct and Linked Neighborhoods

**Department/Agency:** Planning

**Updated Cost Estimate**

**PROGRAM DESCRIPTION**

The 2015 Comprehensive Plan provides for 10 Small Area Plans. These plans will identify the strengths and weaknesses in planning policy and land use regulation for each planning area. The new small area plans will incrementally establish a new General Land Use Plan Map. The small area plans will result in revised land use regulations based on 21st century planning concepts, including form based codes, and will foster all areas of the City to become walkable urban places with "complete streets" accommodating multiple forms of transportation.

These funds will be used for consultant services that will include a city-wide market analysis, with tailored information for each planning area, identifying the economic potential for residential, commercial, and/or industrial uses in each planning area. The services will include urban design/land use analysis to develop policies resulting in form based codes for land use regulations.

To be completed in FY19:

Area 7: the Downtown core and four surrounding neighborhoods

To be completed in FY20:

Area 1: the Central Park/Celebrate Virginia area west of I-95,

Area 2: the top of Fall Hill, east of I-95, and

Area 4: the Mary Washington Medical Center area and Cowan Boulevard corridor.

To be completed in FY 21:

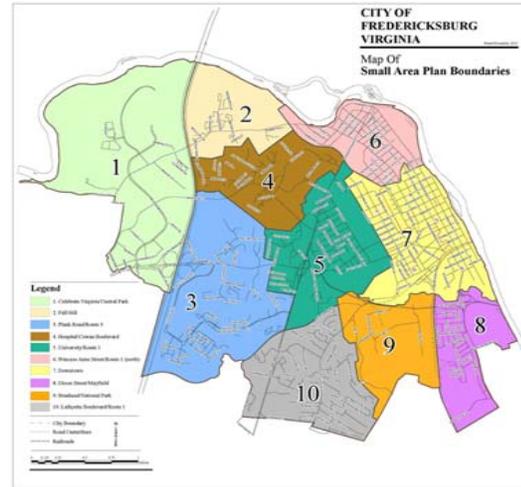
Area 5: Mary Washington University, the College Heights neighborhood, and the Route 1 corridor between the Rappahannock Canal and the new VCR trail/Hazel Run.

Area 8: the Dixon Street/Mayfield area south of Hazel Run and east of the CSX railroad.

Area 9: the Braehead/National Park area, from the CSX railroad to Lee Drive corridor, south of Hazel Run.

Area 10: the Lafayette Boulevard and Route 1 corridors south of the new VCR trail.

Additional funds are requested in FY 2021 for follow-ups studies resulting from initial area planning work.



**OPERATING IMPACT SUMMARY**

These planning efforts will identify future CIP projects as well as policy and ordinance changes to implement the plan's recommendations. Engineering recommendations will be developed to direct public improvements for complete streets that allow for a diversity of transport modes and that are appropriately scaled for the current character of the neighborhood, as well as the overall road network. Engineering work will also address water/sewer issues and stormwater issues as needed.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Planning Area Updates	575,000	105,000	150,000	75,000	0	0	0	330,000	
<b>Total</b>	<b>\$575,000</b>	<b>\$105,000</b>	<b>\$150,000</b>	<b>\$75,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$330,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	575,000	105,000	150,000	75,000	0	0	0	330,000	
<b>Total</b>	<b>\$575,000</b>	<b>\$105,000</b>	<b>\$150,000</b>	<b>\$75,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$330,000</b>	

## Fiber Network Expansion

**Total Project Cost:** \$224,000      **Estimated Opening Date:** 2020-2022

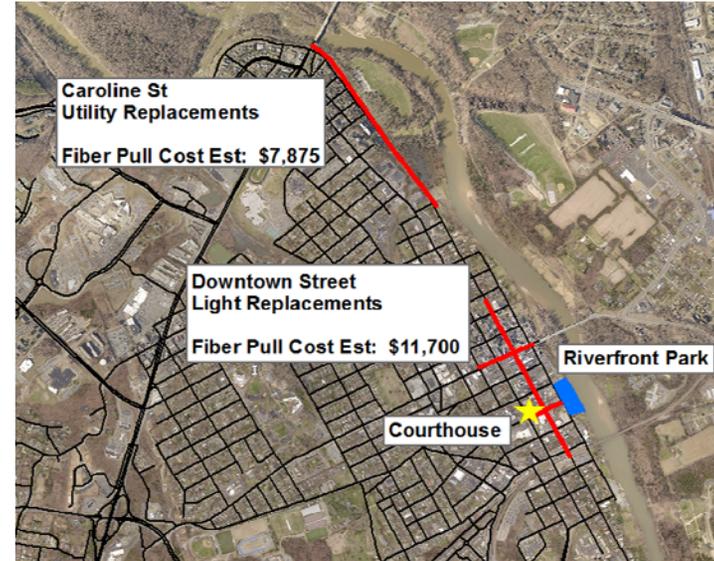
**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Information Technology

**PROGRAM DESCRIPTION**

Fiber Co-location/Empty Conduit Fund: Each year, a number of construction projects are underway either by the City's Public Works Department or by contractors and businesses working within the City limits. The City will expand our fiber network or lay empty conduit for future use as opportunities arise to further City Council's One Dig Initiative.

Fiber Network Expansion: Funding is requested to extend the City's fiber network to Dixon Park Maintenance, the Wastewater Plant, and the City Shop. The project also extends the network from the City Shop to connect to Walker Grant Middle School, creating a fiber "loop" throughout the entire City. Fiber optics provide large capacity, high speed data transmission over long distances and would improve the work capabilities of employees. The project will enable staff at the Wastewater Plant to access City-wide drives on which important shared city documents are stored. The City Shop and Wastewater Treatment Plant would be able to utilize the City's internet pipe and firewalls saving costs and reducing the management platform for IT.



**OPERATING IMPACT SUMMARY**

Additional operating costs are associated with Public WiFi.

Operating savings result from the elimination (or avoidance) of third party communication lines.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Fiber Co-location		50,000	0	0	0	0	0	50,000	
City Shop and Loop Closure		48,000	0	0	0	0	0	48,000	
Wastewater/Dixon Park		0	50,000	0	0	0	0	50,000	
Public WiFi		0	0	76,000	0	0	0	76,000	
<b>Total</b>	\$0	\$98,000	\$50,000	\$76,000	\$0	\$0	\$0	\$224,000	\$0

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	98,000	50,000	76,000	0	0	0	224,000	
<b>Total</b>	\$0	\$98,000	\$50,000	\$76,000	\$0	\$0	\$0	\$224,000	\$0

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Operating	0	0	3,060	3,060	3,060	3,060	9,180
Revenue/Savings	(6,420)	(11,192)	(19,192)	(11,192)	(11,192)	(11,192)	(59,188)
<b>Total</b>	(\$6,420)	(\$11,192)	(\$16,132)	(\$8,132)	(\$8,132)	(\$8,132)	(\$50,008)

## IT Disaster Resilience Plan Implementation

**Total Project Cost:** \$234,000

**Estimated Opening Date:** 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Information Technology

**Project Updated**

### PROGRAM DESCRIPTION

**Storage and Backup Resilience:** Provide redundant offsite backup solution to the cloud. The cloud based off-site storage will provide a secure location to copy data to and from without having to depend on out dated cassette tape technology and time delays when tapes are needed for mission-critical restores of data. This functionality is a key component of 2015 IT Strategic Plan disaster resilience recommendation.

**Encrypted Fiber Line:** The fiber line will be used for replication of the Public Safety servers between the Police Department and City Hall and be encrypted with a FIPS 140-2 level cryptographic module. New appliances are required to provide this security feature.

**City Hall and Police Department 100M Fiber Upgrade:** In conjunction with the proposed cloud-hybrid backup solution, a more robust internet service bandwidth is required. Both the City's and the Police Department's fiber internet service reach bandwidth capacity very frequently which causes congestion and dramatically slows down internet access for all users during critical business hours.

**City Hall Secondary Internet line install:** As part of the Disaster Resilience plan, a secondary Internet Service Provider (ISP) at our City Hall server room location is recommended. This would provide redundancy in our internet connection for the City and allow resilience in the case of provider outages.

### OPERATING IMPACT SUMMARY

Backup Solution is currently due for replacement, costs to move to Veeam Solution in the cloud reduces operating costs slightly each year from current annual expense of \$21,100.

Current Internet Costs of \$21,816 per year will be replaced by the costs in this CIP request for Internet Service Upgrade. The net increase of \$14,000/yr for both sites provides double the bandwidth, provides for the requisite resiliency for public safety and is necessary for the City to continue to conduct business into the future due to increasing bandwidth needs.

### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY2023	FY2024	FY2025	TOTAL	Later Years
Project Costs	140,000	94,000	0	0	0	0	0	234,000	
<b>Total</b>	\$140,000	\$94,000	\$0	\$0	\$0	\$0	\$0	\$234,000	\$0

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY2023	FY2024	FY2025	TOTAL	Later Years
General Fund Transfer	140,000	94,000	0	0	0	0	0	234,000	
<b>Total</b>	\$140,000	\$94,000	\$0	\$0				\$234,000	\$0

Operating Impacts	FY 2020	FY 2021	FY 2022	FY2023	FY2024	FY2025	TOTAL	
Operating	60,476	60,476	60,476	60,476	60,476	60,476	302,379	Ongoing
<b>Total</b>	\$60,476	\$60,476	\$60,476	\$60,476	\$60,476	\$60,476	\$302,379	

## Public Safety Replacement

**Total Project Cost:** \$2,500,000

**Estimated Opening Date:** 2025

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Information Technology

**New in FY 2020**

**PROGRAM DESCRIPTION**

The Police Department's current public safety system will be upgraded as it approaches the end of its useful life. IT estimates a 3 year planning horizon for procurement and installation. There could be opportunities for regional cooperation with this project as well that would impact costs. The estimates provided are placeholders.

**OPERATING IMPACT SUMMARY**

To be determined.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs			0	0	0	0	2,500,000	2,500,000	
<b>Total</b>		\$0	\$0	\$0	\$0	\$0	\$2,500,000	\$0	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer		0	0	0	0	0	2,500,000	0	
<b>Total</b>		\$0	\$0	\$0	\$0	\$0	\$2,500,000	\$0	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
Operating	0	0	0	0	0	0	0	TBD
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	

## NG911 Implementation

**Total Project Cost:** \$1,185,000

**Estimated Opening Date:** 2021

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Information Technology

**New in FY 2020**

**PROGRAM DESCRIPTION**

Next Generation 911 (NG911) is an effort to upgrade 911 communication lines from analog to digital. This will provide new bandwidth capacity for better response to mobile callers and provide for the receipt of 911 calls in the form of text, images, video and data. This effort also positions localities to work more closely as regional dispatch centers. There is no option for not moving to the new platform and the state has funding to assist the City in the migration. The estimated increase in annual operating costs is \$35,000 beginning FY2023 to support the new system. This estimate will be revised and is dependent on the system and options the City selects.

**OPERATING IMPACT SUMMARY**

\$35,000 increase in 911 costs annually beginning in 2023.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Installation		1,185,000	0	0	0	0	0	1,185,000	
<b>Total</b>		\$1,185,000	\$0	\$0	\$0	\$0	\$0	\$1,185,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Commonwealth of Virginia	0	1,185,000	0	0	0	0	0	1,185,000	
<b>Total</b>		\$1,185,000	\$0	\$0	\$0	\$0	\$0	\$1,185,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
Operating	0	0	0	35,000	35,000	35,000	105,000	Ongoing
<b>Total</b>	\$0	\$0	\$0	\$35,000	\$35,000	\$35,000	\$105,000	Ongoing

## Technology Replacements

**Total Project Cost:** \$2,240,700      **Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Information Technology

**PROGRAM DESCRIPTION**

The City replaces computer technology used by our operating Departments through the capital fund, currently on a four-year cycle. Ongoing funding for computer replacements for worn or outdated computers is essential for City operations. Annual increases are included to accommodate the City's IT needs.

Scheduled for replacement are PCs, module data terminals, iPads, servers, switches, routers and firewalls. A variety of other hardware and software replacements may be funded as resources allow.

Broadband Needs Assessment/Development Strategy: The development of a strategy to enhance Broadband will identify key City goals and provide a roadmap for future investment.

ERP Modules: The City is considering adding the following modules to the Enterprise Resource Planning (ERP) system: contract management, transparency - open data finance, parking ticket, and citizen engagement - incident management.

IT Strategic Plan: The 2015 IT Strategic Plan will be fully implemented this year. Technology is a fast-paced industry and a new plan should be crafted every 5 years that would serve to analyze trends in information technology and local government use of emergent technology, assist the City in planning for future IT projects that align with City Vision and Priorities.



**OPERATING IMPACT SUMMARY**

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.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Hardware and Software	Ongoing	300,000	315,000	331,000	348,000	359,000	370,000	2,023,000	Ongoing
Broadband Needs Assessment		0	60,000	0	0	0	0	60,000	
ERP Modules		0	92,700	0	0	0	0	92,700	
IT Strategic Plan		0	0	65,000	0	0	0	65,000	
<b>Total</b>		\$300,000	\$467,700	\$396,000	\$348,000	\$359,000	\$370,000	\$2,240,700	Ongoing

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	Ongoing	300,000	467,700	396,000	348,000	359,000	370,000	2,240,700	Ongoing
<b>Total</b>		300,000	467,700	396,000	348,000	359,000	370,000	\$2,240,700	Ongoing

## Hanover Street Parking

**Total Project Cost:** \$315,000

**Estimated Opening Date:** FY 2020

**City Council's Vision:** Employment Epicenter

**Department/Agency:** City Manager's Office

**New in FY2020**

**PROGRAM DESCRIPTION**

The project is managed by the University of Mary Washington (UMW). The City will contribute funds towards the addition of 112 surface parking spaces on the UMW campus near Hanover Street. The lot will provide additional parking for UMW athletic events and the City's use of the UMW athletic complex.

**OPERATING IMPACT SUMMARY**

None

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
City's Contribution	0	315,000	0	0	0	0	0	315,000	
<b>Total</b>		<b>\$315,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$315,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	315,000	0	0	0	0	0	315,000	
<b>Total</b>		<b>\$315,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$315,000</b>	

## ADA Accessibility to Park Amenities

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

**Estimated Opening Date:** 2022-23

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Parks, Recreation and Events

**PROGRAM DESCRIPTION**

The City has a variety of handicap-accessible features in many of its parks. This CIP request is a phased approach to improve access to the City's parks. Motts Run Reservoir has 100% accessible piers, as reviewed by the disAbility Resource Center, but no pathway to get from the gravel-base spaces in the parking lot to the accessible restroom trailer, rental office, and accessible piers. Motts also requires a floating dock to allow those with disabilities to enter and exit a canoe, kayak, or jon-boat from the pier. Alum Spring Park and VCR trail require an accessible pathway to get to the bathroom building that exists within the park. Old Mill Park requires an accessible pathway to get from the gravel-based handicap parking spaces to the accessible restrooms and shelter.

Smaller projects at the Dog Park and WL Harris may be funded in the operating budget as resources allow.

**OPERATING IMPACT SUMMARY**

There is minimal financial impact outside of normal pathway maintenance. There is the potential for increased program and rental revenue resulting from more reliable access to a greater number of park amenities.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		40,000	100,000	60,000	0	0	0	200,000	
<b>Total</b>		\$40,000	\$100,000	\$60,000	\$0	\$0	\$0	\$200,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund / Local Fnds		40,000	100,000	60,000	0	0	0	200,000	
<b>Total</b>		\$40,000	\$100,000	\$60,000	\$0	\$0	\$0	\$200,000	

## Alum Springs Park Improvements

**Total Project Cost:** \$1,434,000      **Estimated Opening Date:** 2022-23

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Parks, Recreation and Events

**PROGRAM DESCRIPTION**

Replace existing roadway/ford access to Alum Spring Park with a bridge over the ford into the park. The attempted repairs to the roadway access are failing and the water is chipping away at the patches that have been applied. In FY2018 Alum Spring Park was closed at least 40 full days and numerous partial days as a result of high water. This has the potential to dangerously impact anyone who enters the park via the pedestrian bridge and has any sort of need for emergency services and has trapped vehicles in the park when flash floods have occurred.



Renovation of the interior of the park storage building to develop usable classroom space in the park to serve both existing programs when threatened with weather as well as to develop new programs.

**OPERATING IMPACT SUMMARY**

Replacing the existing ford with a bridge will allow the park to remain open during certain high water events that would have made the ford impassable. Any additional operating costs will be absorbed into the PRE budget.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Bridge		0	0	1,310,000	0	0	0	1,310,000	
Storage Building Renovation		0	0	0	124,000	0	0	124,000	
<b>Total</b>		\$0	\$0	\$1,310,000	\$124,000	\$0	\$0	\$1,434,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance		0	0	1,310,000	0	0	0	1,310,000	
General Fund Transfer		0	0	0	124,000	0	0	124,000	
<b>Total</b>		\$0	\$0	\$1,310,000	\$124,000	\$0	\$0	\$1,434,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Debt Service	0	0	0	92,173	92,173	92,173	184,346
<b>Total</b>	\$0	\$0	\$0	\$92,173	\$92,173	\$92,173	\$184,346

## City Dock Improvements

**Total Project Cost:** \$37,500      **Estimated Opening Date:** FY 2020

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Parks, Recreation and Events



**PROGRAM DESCRIPTION**

The City Dock has been a fixture in Fredericksburg since George Washington's time. It has been updated over the years, but requires additional renovations. The dock is weathered and showing signs of deteriorating in some areas.

The City Dock will require a contractor to remove at least three layers of bulkhead boards and replace them using the existing hardware. Several more areas – the walkway by the boat launch ramps and the benches – are in need of repair as well. This project will be coordinated with the appropriate federal, state, and local offices to minimize impacts to the citizens. The ramp, previously used to dock the City of Fredericksburg Riverboat, is unusable in its current condition and should either be repaired or removed for safety reasons.

**OPERATING IMPACT SUMMARY**

There are no additional anticipated ongoing operational costs.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Dock Renovations		0	0	0	0	37,500	0	37,500	
<b>Total</b>		\$0	\$0	\$0	\$0	\$37,500	\$0	\$37,500	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer		0	0	0	0	37,500	0	37,500	
<b>Total</b>		\$0	\$0	\$0	\$0	\$37,500	\$0	\$37,500	

## Dixon Park Improvements & Wetlands Pavilion

**Total Project Cost:** \$259,000

**Estimated Opening Date:** FY 2021-23

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Parks, Recreation and Events



**PROGRAM DESCRIPTION**

The Dixon Park athletic fields and walking trails are a tremendous asset to the citizens of the City. The Department of PRE and the Recreation Commission support completion of the lights in the parking lot. 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. The park is becoming popular for its walking trails. By finishing the pathways and lighting the pathway system, the park could be more appealing for longer periods of the day, and to a wider variety of citizens. The lighting of the trails is proposed for FY 2023.

Additionally, a new wetlands pavilion is requested in FY2021 which will allow for improved wetlands maintenance education for staff as well as for the public. The wetlands at Dixon Park have been protected since park construction in 2004. The construction of a covered shelter will allow for classes to study the wetlands habitat and inhabitants. This type of education is valuable in the continuation of the City's Stormwater Permitting, which requires an internal and an external communication and education plan.

**OPERATING IMPACT SUMMARY**

There will be costs associated with additional lighting and custodial service. Staff is evaluating energy efficient LED lighting and solar powered options to keep costs minimal.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		0	19,000	0	240,000	0	0	259,000	
<b>Total</b>		\$0	\$19,000	\$0	\$240,000	\$0	\$0	\$259,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	19,000	0	240,000	0	0	259,000	
<b>Total</b>	\$0	\$0	\$19,000	\$0	\$240,000	\$0	\$0	\$259,000	

## Memorial Park Improvements

**Total Project Cost:** \$540,000      **Estimated Opening Date:** 2024

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Parks, Recreation and Events

### PROGRAM DESCRIPTION

Memorial Park Tennis Courts are separated into two areas – Courts #1-6, and Courts #7-8. Courts #7-8 are used for tennis but are also used as supplemental Pickleball Courts due to the rising popularity of the sport. The proposed lights provide over 50 foot-candles of light to the courts, reduce spill light by 50%, and reduce energy costs by 50%. With the increase of play on all of the courts, and the conversion of court #7 to four Pickleball courts, the installation of lights on courts #7-8 will increase the available number of courts that can be played on after dusk.

Funding is also included to expand parking on the City-owned property at the corner of Mary Ball Street and Kenmore Avenue.



### OPERATING IMPACT SUMMARY

There are no additional ongoing operational costs anticipated with this project. While new lights on Courts #7-8 will add to the existing utility costs, efficiency from upgraded light fixtures may reduce overall utility costs. Additional costs associated with the parking lot will be incorporated into future operating budgets.

### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Install lights Courts #7-8	0	0	0	0	0	115,000	0	115,000	
Replace lights Courts #1-6	0	0	0	0	0	175,000	0	175,000	
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$540,000	\$0	\$540,000	\$0

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	0	0	0	540,000	0	540,000	
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$540,000	\$0	\$540,000	\$0

## Parks & Playground Improvements

**Total Project Cost:** \$773,000

**Estimated Opening Date:** FY 2021-25

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Parks, Recreation and Events

**Updated in FY 2022**

**PROGRAM DESCRIPTION**

Park Improvements:

- Dixon Park Inline Skate Rink – site preparation including the removal of top soil, grading, gravelling, and installation of an asphalt pad, installation of LED poles and lighting.
- Doris E. Buffett Pool – Resurfacing of the pool, replacement of the ceramic tile both inside and outside of the pool area, and replacement of shade structures and amenities.
- Hurkamp Park – Installation of a brick wall on George Street to eliminate erosion problem and improve foot traffic. Several groups have expressed interest in fundraising to accomplish this project.
- Old Mill Park – The request is for a design study for flood-proofing the restroom building. FY 2022 request includes expansion of the parking lot for an additional 50-60 spaces, removing the septic tank as per City flood plan requirements, repair of the roadway within the park to include curbing, and replacement of Shelter 3 with an open/highly visible shelter for safety.

Playground Improvements:

- Maury Park - playground equipment replacement
- Old Mill Park - new playground for older children
- Memorial Park - seesaw replacement
- W.L. Harris Park - the addition of an ADA accessible driveway and pathway into the park and fence repairs



**OPERATING IMPACT SUMMARY**

There are additional operating costs for the Dixon Inline Skate Rink.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Dixon Inline Skating	170,000	0	0	0	0	150,000	0	320,000	
Doris E. Buffett Pool Improvements	25,000	0	25,000	0	0	0	0	50,000	
Hurkamp Wall		0	0	0	0	0	90,000	90,000	
Old Mill Park		0	0	203,500	0	0	0	203,500	
Playground Equipment		0	43,500	66,000	0	0	0	109,500	
<b>Total</b>	<b>\$195,000</b>	<b>\$0</b>	<b>\$68,500</b>	<b>\$269,500</b>	<b>\$0</b>	<b>\$150,000</b>	<b>\$90,000</b>	<b>\$773,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	168,000	0	68,500	269,500	0	150,000	0	656,000	
Donations	27,000	0	0	0	0	0	90,000	117,000	
<b>Total</b>	<b>\$195,000</b>	<b>\$0</b>	<b>\$68,500</b>	<b>\$269,500</b>	<b>\$0</b>	<b>\$150,000</b>	<b>\$90,000</b>	<b>\$773,000</b>	

## Bass Ellison Improvements

**Total Project Cost:** \$60,000

**Estimated Opening Date:** FY 2022

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities

**PROGRAM DESCRIPTION**

The Bass-Ellison Building houses the Department of Social Services and the Health Department. The project is for the renovation of the restrooms (primarily used by staff) to improve compliance with the American with Disabilities Act.

**OPERATING IMPACT SUMMARY**

None.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		0	0	60,000	0	0	0	60,000	
<b>Total</b>		\$0	\$0	\$60,000	\$0	\$0	\$0	\$60,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer		0	0	60,000	0	0	0	60,000	
<b>Total</b>		\$0	\$0	\$60,000	\$0	\$0	\$0	\$60,000	

## Central Rappahannock Regional Library

**Total Project Cost:** \$178,500

**Estimated Opening Date:** FY 2020-23

**City Council's Vision:** Building Community Through Cultural Vibrancy

**Department/Agency:** Public Facilities - Library

**Updated in FY 2020**

**PROGRAM DESCRIPTION**

Renovations to the theater room in the Downtown Branch will include the demolition of two existing rooms to create a larger theater space. Seating capacity will increase to about 250 from 180. Funding is also provided for carpeting on the 2nd and 3rd floors, a new water fountain, and repairs to the flag pole. Funding in FY 2023 is for landscaping and exterior lighting.



**OPERATING IMPACT SUMMARY**

None.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Theater Room		80,000	0	0	0	0	0	80,000	
Carpeting, Fountain, Flag Pole		43,000	0	0	0	0	0	43,000	
Landscaping & Exterior Lighting		0	0	0	55,500	0	0	55,500	
<b>Total</b>		\$123,000	\$0	\$0	\$55,500	\$0	\$0	\$178,500	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer		123,000	0	0	55,500	0	0	178,500	
<b>Total</b>		\$123,000	\$0	\$0	\$55,500	\$0	\$0	\$178,500	

## City Hall Renovation

**Total Project Cost:** \$520,000

**Estimated Opening Date:** FY 2020-23

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities

**Updated in FY 2020**

**PROGRAM DESCRIPTION**

Various improvements have been identified for City Hall. The restrooms will be refurbished to enhance ADA accessibility. Additional improvements include replacement of one of the three roofs, mechanical equipment renovation, and interior renovations and signage.



**OPERATING IMPACT SUMMARY**

The improvements are to existing assets. No additional costs are anticipated.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Restrooms		30,000	0	30,000	0	0	0	60,000	
Roof Replacement		110,000	0	0	0	0	0	110,000	
Mechanical Renovations		0	250,000	0	0	0	0	250,000	
Interior Renovations & Signage		0	0	0	100,000	0	0	100,000	
<b>Total</b>		\$140,000	\$250,000	\$30,000	\$100,000	\$0	\$0	\$520,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	140,000	250,000	30,000	100,000	0	0	520,000	
<b>Total</b>	\$0	\$140,000	\$250,000	\$30,000	\$100,000	\$0	\$0	\$520,000	

## Dorothy Hart Community Center

**Total Project Cost:** \$67,500

**Estimated Opening Date:** FY 2022

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities



**PROGRAM DESCRIPTION**

Various improvements to the Dorothy Hart Community Center including the replacement of the ramp and deck, the replacement of carpet and tile and parking lot improvements.

**OPERATING IMPACT SUMMARY**

None.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs			0	67,500	0	0	0	67,500	
<b>Total</b>		\$0	\$0	\$67,500	\$0	\$0	\$0	\$67,500	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	0	0	67,500	0	0	0	67,500	
<b>Total</b>	\$0	\$0	\$0	\$67,500	\$0	\$0	\$0	\$67,500	

## Energy Retrofit

**Total Project Cost:** \$453,000

**Estimated Opening Date:** FY 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities

**Updated in FY2020**

### PROGRAM DESCRIPTION

City Staff routinely evaluates facilities to identify areas where efficiencies in energy usage may be achieved.

### OPERATING IMPACT SUMMARY

Ongoing energy usage should decrease and operating costs should be lower as a result.

### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Lighting / Plug Control Upgrades		50,000	0	0	0	0	0	50,000	
Electric Meter Monitoring		0	40,000	0	0	0	0	40,000	
Lighting Retrofits and Controls		0	260,000	0	0	0	0	260,000	
Train Station Lighting Phase II & III		0	0	103,000	0	0	0	103,000	
<b>Total</b>		\$50,000	\$300,000	\$103,000	\$0	\$0	\$0	\$453,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	50,000	300,000	103,000	0	0	0	453,000	
<b>Total</b>	\$0	\$50,000	\$300,000	\$103,000	\$0	\$0	\$0	\$453,000	

## Executive Center Plaza - Electrical Upgrades

**Total Project Cost:** \$125,000

**Estimated Opening Date:** FY 2020

**City Council's Vision:** Employment Epicenter

**Department/Agency:** City Manager's Office

**New in FY 2020**

**PROGRAM DESCRIPTION**

Funds will be used to evaluate and update the electrical systems at the Executive Plaza. The number is a placeholder and may be revised.



**OPERATING IMPACT SUMMARY**

These are existing City facilities.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Electrical Upgrades	0	125,000	0	0	0	0	0	125,000	
<b>Total</b>	\$0	\$125,000	\$0	\$0	\$0	\$0	\$0	\$125,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	125,000	0	0	0	0	0	125,000	
<b>Total</b>	\$0	\$125,000	\$0	\$0	\$0	\$0	\$0	\$125,000	

## Old Town Hall

**Total Project Cost:** \$1,050,000      **Estimated Opening Date:** 2023

**Department/Agency:** Public Facilities      **NEW in FY 2020**

**City Council's Vision:** A Proven Leader in Historic Preservation

**PROGRAM DESCRIPTION**

The City owns and maintains the historic Town Hall/Market House, which houses the Fredericksburg Area Museum. The City hired a consultant to analyze the condition of the foundation. Based on the consultant's recommendation, the City has programmed major rehabilitation of the foundation. The corresponding graphic show minor repair in green, moderate repairs in blue and major repairs in dark brown. The repairs will be phased over two years. Timing, costs, and the scope of the work may be revised in future CIPs.

**OPERATING IMPACT SUMMARY**

The proposed study will identify future repairs to maintain this historic asset.



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary Study / Repairs		50,000	0	0	0	0	0	50,000	
Foundations Repairs		0	0	600,000	400,000	0	0	1,000,000	
<b>Total</b>		\$50,000	\$0	\$600,000	\$400,000	\$0	\$0	\$1,050,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	0	0	0	600,000	400,000	0	0	1,000,000	
General Fund Transfer	0	50,000	0	0	0	0	0	50,000	
<b>Total</b>	\$0	\$50,000	\$0	\$600,000	\$400,000	\$0	\$0	\$1,050,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Debt Service	0	0	0	42,217	70,361	70,361	182,939
<b>Total</b>	\$0	\$0	\$0	\$42,217	\$70,361	\$70,361	\$182,939

## Roof Repair & HVAC Maintenance

**Total Project Cost:** \$775,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities

**PROGRAM DESCRIPTION**

The City of Fredericksburg owns numerous public buildings and structures. These funds will be used to replace aged facilities as they reach the end of their useful life to ensure that the City provides safe and comfortable locations for the public and employees.

**OPERATING IMPACT SUMMARY**

None. Replacement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
HVAC		50,000	50,000	75,000	75,000	75,000	75,000	400,000	
Roof Repair		25,000	50,000	75,000	75,000	75,000	75,000	375,000	
<b>Total</b>		\$75,000	\$100,000	\$150,000	\$150,000	\$150,000	\$150,000	\$775,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	75,000	100,000	150,000	150,000	150,000	150,000	775,000	
<b>Total</b>	\$0	\$75,000	\$100,000	\$150,000	\$150,000	\$150,000	\$150,000	\$775,000	

## Train Station Sidewalk and Conduit Repair

**Total Project Cost:** \$305,000

**Estimated Opening Date:** FY 2020-21

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities - Transportation

**Updated in FY 2021**

**PROGRAM DESCRIPTION**

This projects includes sidewalk repair and train station conduit replacements. The City actively pursuing alternate funding sources for this project.



**OPERATING IMPACT SUMMARY**

None.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs	90,000	125,000	90,000	0	0	0	0	305,000	
<b>Total</b>	<b>\$90,000</b>	<b>\$125,000</b>	<b>\$90,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$305,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	90,000	125,000	90,000	0	0	0	0	305,000	
<b>Total</b>	<b>\$90,000</b>	<b>\$125,000</b>	<b>\$90,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$305,000</b>	

## Visitor's Center

**Total Project Cost:** \$126,000

**Estimated Opening Date:** FY 2021

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities

**Updated in FY 2020**

**PROGRAM DESCRIPTION**

The project includes repairs to the brickwork and a foundation leak analysis. Repairs will depend upon whether or not the City decides to sell the building that currently houses the Visitor's Center.

**OPERATING IMPACT SUMMARY**

Repairs to the brickwork and foundation to prevent further deterioration and leaking.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Visitor's Center		60,000	66,000	0	0	0	0	126,000	
<b>Total</b>		\$60,000	\$66,000	\$0	\$0	\$0	\$0	\$126,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	0	60,000	66,000	0	0	0	0	126,000	
<b>Total</b>	\$0	\$60,000	\$66,000	\$0	\$0	\$0	\$0	\$126,000	

FY 2020 - FY 2025 Recommended CIP - Public Safety Capital Fund							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
<u>Police</u>							
Animal Shelter	80,000	95,000	95,000	95,000	0	0	<b>\$365,000</b>
Police Camera System	105,000	105,000	145,000	125,000	160,000	0	<b>\$640,000</b>
<u>Fire</u>							
Ambulance, Dive Vehicle & Fire Apparatus	975,000	2,090,000	850,000	1,100,000	1,750,000	1,100,000	<b>\$7,865,000</b>
Fire Station - New	0	675,000	9,550,000	0	0	0	<b>\$10,225,000</b>
Fire Station 1 Renovation	50,000	150,000	3,000,000	0	0	0	<b>\$3,200,000</b>
Fire Station 2 - Concrete Drive Repair	0	200,000	0	0	0	0	<b>\$200,000</b>
<b>Total</b>	<b>\$1,210,000</b>	<b>\$3,315,000</b>	<b>\$13,640,000</b>	<b>\$1,320,000</b>	<b>\$1,910,000</b>	<b>\$1,100,000</b>	<b>\$22,495,000</b>
<u>Funding Sources</u>							
Debt Issuance	675,000	2,090,000	13,400,000	1,100,000	1,750,000	1,100,000	<b>\$20,115,000</b>
General Fund Transfer / Local Funds	535,000	550,000	240,000	220,000	160,000	0	<b>\$1,705,000</b>
Prior Year Capital Fund Balance	0	675,000	0	0	0	0	<b>675,000</b>
<b>Total</b>	<b>\$1,210,000</b>	<b>\$3,315,000</b>	<b>\$13,640,000</b>	<b>\$1,320,000</b>	<b>\$1,910,000</b>	<b>\$1,100,000</b>	<b>\$22,495,000</b>
<u>Operating Impacts</u>							
Personnel	0	0	425,438	860,236	879,265	879,265	<b>2,164,939</b>
Operating	0	0	0	253,000	57,000	58,000	<b>310,000</b>
Debt Service	0	79,131	324,142	1,306,820	1,435,773	1,640,927	<b>3,145,866</b>
Revenue / Savings	0	0	0	(47,013)	(47,530)	(48,053)	<b>(94,543)</b>
<b>Total</b>	<b>\$0</b>	<b>\$79,131</b>	<b>\$749,580</b>	<b>\$2,373,043</b>	<b>\$2,324,508</b>	<b>\$2,530,139</b>	<b>\$5,526,262</b>

## Animal Shelter

**Total Project Cost:** \$525,000

**Estimated Opening Date:** FY 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Police; Spotsylvania County

**PROGRAM DESCRIPTION**

State law requires all localities to maintain public animal shelters. Localities may, instead of operating their own shelter, contract with other localities for use of the other locality's shelter. Spotsylvania County currently owns and maintains an animal shelter on its property at 450 TV Drive. The County and the City have had an agreement since April 1, 2010 for use of this animal shelter by both localities. In regard to capital improvements, the agreement specifies that the City and County agree to work together in good faith to identify the portion of the cost for such improvements reasonably chargeable to the City. This agreement has a much lower fiscal impact than the City would incur if it maintained its own animal shelter.

**OPERATING IMPACT SUMMARY**

Improvements are needed to bring the County shelter into compliance with State mandated standards.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Animal Shelter	160,000	80,000	95,000	95,000	95,000	0	0	525,000	
<b>Total</b>	\$160,000	\$80,000	\$95,000	\$95,000	\$95,000	\$0	\$0	\$525,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer	160,000	80,000	95,000	95,000	95,000	0	0	525,000	
<b>Total</b>	\$160,000	\$80,000	\$95,000	\$95,000	\$95,000	\$0	\$0	\$525,000	

## Police Camera System

**Total Project Cost:** \$640,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Police

**PROGRAM DESCRIPTION**

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.



**OPERATING IMPACT SUMMARY**

Footage is reviewed by staff within the Commonwealth's Attorney's Office. The FY 2020 Recommended Budget includes an additional position in the operating budget partially required for this purpose. Those costs are now reflected in the operating budget.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Data Storage, Cameras		105,000	105,000	145,000	125,000	160,000	0	640,000	
<b>Total</b>		\$105,000	\$105,000	\$145,000	\$125,000	\$160,000	\$0	\$640,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer		105,000	105,000	145,000	125,000	160,000	0	640,000	
<b>Total</b>		\$105,000	\$105,000	\$145,000	\$125,000	\$160,000	\$0	\$640,000	

## Ambulance, Dive Vehicle & Fire Apparatus

**Total Project Cost:** \$7,865,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Fire



**PROGRAM DESCRIPTION**

These types of apparatus are the lifeline on which fire suppression organizations are able to meet our mission statement “to protect and serve those who live, work or visit the City of Fredericksburg by providing highly trained courteous professional personnel for rapid response to their needs”. The City replaces ambulances, fire apparatus, and emergency vehicle as part of an ongoing fleet replacement program.

The Fredericksburg Fire Department EMS provides coverage 24 hours a day, 7 days a week with assistance from the Fredericksburg Rescue Squad during evening and weekends. The funding for an ambulance in FY20 will replace a unit for the Fire Department and the funding in FY21 will replace an ambulance for the Rescue Squad.

The Fire Apparatus replacement funding is for Fire Engine 1 in FY20 and the Fire Tower 1 (ladder truck) in FY21.

The City is also replacing the vehicle and associated equipment for the City's Dive and Water Recovery Team in FY21.

**OPERATING IMPACT SUMMARY**

Replacement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Ambulance		300,000	325,000	0	350,000	0	350,000	1,325,000	
Dive Vehicle		0	265,000	0	0	0	0	265,000	
Fire Apparatus		675,000	1,500,000	850,000	750,000	1,750,000	750,000	6,275,000	
<b>Total</b>		<b>\$975,000</b>	<b>\$2,090,000</b>	<b>\$850,000</b>	<b>\$1,100,000</b>	<b>\$1,750,000</b>	<b>\$1,100,000</b>	<b>\$7,865,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance		675,000	2,090,000	850,000	1,100,000	1,750,000	1,100,000	7,565,000	
Local Sources		300,000	0	0	0	0	0	300,000	
<b>Total</b>		<b>\$975,000</b>	<b>\$2,090,000</b>	<b>\$850,000</b>	<b>\$1,100,000</b>	<b>\$1,750,000</b>	<b>\$1,100,000</b>	<b>\$7,865,000</b>	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Debt Service	0	79,131	324,142	423,788	552,742	757,895	2,137,698
<b>Total</b>	<b>\$0</b>	<b>\$79,131</b>	<b>\$324,142</b>	<b>\$423,788</b>	<b>\$552,742</b>	<b>\$757,895</b>	<b>\$2,137,698</b>

## Fire Station 1 Renovation

**Total Project Cost:** \$3,200,000

**Estimated Opening Date:** 2023

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Fire

**New in FY 2020**

**PROGRAM DESCRIPTION**

Fire Station 1 was constructed in 1972 with no improvements other than the kitchen and bathroom renovation in 2017. This facility is 46 years old and was designed to accommodate 8 personnel. Due to the expansion of the EMS/ALS services, a total of 11 personnel need to be housed and therefore it is recommended to do a renovation of this station.

Fire Station 1 is the hub of public exposure to the community with school tours, open house and general foot traffic of visitors to the City. Proper planning should be conducted to maximize the use of the space.



**OPERATING IMPACT SUMMARY**

To be determined.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary		50,000	150,000	0	0	0	0	200,000	
Construction		0	0	3,000,000	0	0	0	3,000,000	
<b>Total</b>		\$50,000	\$150,000	\$3,000,000	\$0	\$0	\$0	\$3,200,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance		0	0	3,000,000	0	0	0	3,000,000	
General Fund Transfer		50,000	150,000	0	0	0	0	200,000	
<b>Total</b>		\$50,000	\$150,000	\$3,000,000	\$0	\$0	\$0	\$3,200,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
Personnel	0	0	0	0	0	0	0	
Operating	0	0	0	0	0	0	0	TBD
Debt Service	0	0	0	211,083	211,083	211,083	422,166	
Revenue/Savings	0	0	0	0	0	0	0	
<b>Total</b>	\$0	\$0	\$0	\$211,083	\$211,083	\$211,083	\$422,166	

## Fire Station 2 - Concrete Drive Repair

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

**Estimated Opening Date:** 2021

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Fire

**New in FY 2020**

**PROGRAM DESCRIPTION**

Concrete in the drive at Fire Station #2 will be rehabilitated and repaired due to cracking, shifting and breaking.

**OPERATING IMPACT SUMMARY**

None



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		0	200,000	0	0	0	0	200,000	
<b>Total</b>		\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
General Fund Transfer		0	200,000	0	0	0	0	200,000	
<b>Total</b>		\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	

## Fire Station - New

**Total Project Cost:** \$10,225,000 **Opening Date:** 2023

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Fire

Current Fire Station Locations

**PROGRAM DESCRIPTION**

The Fire Department currently provides service from two stations strategically located within the city limits. Due to increasing call volume, new construction and extended response times, it has become necessary to construct and occupy a new station within the city limits to meet NFPA guidelines for response times for both emergency medical and fire suppression calls.

During FY 2018, the City completed a fire station location study to determine the type and location of the new station. Options include building a third station or building a new superstation which would replace one or both of the existing stations. Results are currently under evaluation. Once a decision has been finalized, the estimate will be refined.

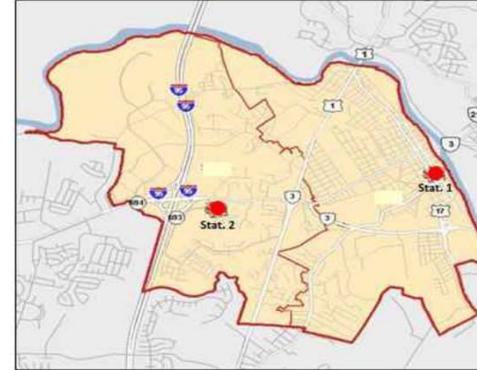
These figures include construction, furniture, fixtures, and equipment to make the building fully functional.

**OPERATING IMPACT SUMMARY**

Operating impacts include salaries and benefits for six additional firefighters in FY 2022 and six more in FY 2023. The City will pursue SAFER grant funding for personnel costs. If successful, the personnel costs could be covered up to 100% for three years. (The timing may be revised and is dependent upon receipt of the grant.)

Building operating costs start at approximately \$56,000 in FY 2023. FY 2023 also includes approximately \$197,000 in start-up costs.

Certain Fire Department equipment and vehicles are currently housed in a leased facility. The amount of space leased for the fire department could be reduced. This is reflected in the revenue/saving line.



**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary		0	675,000	0	0	0	0	675,000	
Construction	0	0	0	9,550,000	0	0	0	9,550,000	
<b>Total</b>		\$0	\$675,000	\$9,550,000	\$0	\$0	\$0	\$10,225,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance		0	0	9,550,000	0	0	0	9,550,000	
Prior Year Capital Fund Balance		0	675,000	0	0	0	0	675,000	
<b>Total</b>		\$0	\$675,000	\$9,550,000	\$0	\$0	\$0	\$10,225,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Personnel	0	0	425,438	860,236	879,265	879,265	2,164,939
Operating	0	0	0	253,000	57,000	58,000	310,000
Debt Service	0	0	0	671,948	671,948	671,948	1,343,897
Revenue/Savings	0	0	0	(47,013)	(47,530)	(48,053)	(94,543)
<b>Total</b>	\$0	\$0	\$425,438	\$1,738,171	\$1,560,683	\$1,561,160	\$3,724,293

FY 2020 -2025 Recommended CIP - Court Capital Fund							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
General District Court - 2nd Courtroom	0	0	519,000	0	0	0	519,000
<b>Total</b>	\$0	\$0	\$519,000	\$0	\$0	\$0	\$519,000
Funding Sources	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Debt Issuance	0	0	0	0	0	0	0
General Fund Transfer	0	0	0	0	0	0	0
Prior Year Capital Fund Balance	0	0	519,000	0	0	0	519,000
<b>Total</b>	\$0	\$0	\$519,000	\$0	\$0	\$0	\$519,000
Operating Impacts	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Personnel	0	0	0	0	0	0	0
Operating	0	0	0	12,000	12,000	12,000	24,000
Debt Service	0	0	0	0	0	0	0
<b>Total</b>	\$0	\$0	\$0	\$12,000	\$12,000	\$12,000	\$24,000

## General District Court - 2nd Courtroom

**Total Project Cost:** \$519,000

**Estimated Opening Date:** FY2023

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Facilities

**PROGRAM DESCRIPTION**

Complete and furnish the 2nd General District courtroom. Also included are improvements to the Security Desk as requested by the Sheriff.



**OPERATING IMPACT SUMMARY**

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

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		0	0	519,000	0	0	0	519,000	
<b>Total</b>		\$0	\$0	\$519,000	\$0	\$0	\$0	\$519,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
<b>Total</b>		\$0	\$0	\$519,000	\$0	\$0	\$0	\$519,000	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Personnel	0	0	0	0	0	0	0	0
Operating	0	0	0	12,000	12,000	12,000	36,000	
Debt Service	0	0	0	0	0	0	0	
<b>Total</b>	\$0	\$0	\$0	\$12,000	\$12,000	\$12,000	\$36,000	

FY 2020 - FY 2025 Recommended CIP - Water System Improvement Fund							
Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
College Heights Water Line Replacement (Phase II)	0	0	350,000	450,000	450,000	0	1,250,000
Internal System Improvements	400,000	500,000	500,000	500,000	600,000	700,000	3,200,000
Motts Run Water Plant Expansion	491,300	1,402,800	4,143,400	7,254,300	0	0	13,291,800
Pressure Release Valve Replacement / Rehab	0	0	0	100,000	100,000	100,000	300,000
Telegraph Hill Loop	0	0	200,000	0	0	0	200,000
SCADA	250,000	0	0	0	0	0	250,000
Water Meter Replacement	0	1,000,000	500,000	0	0	0	1,500,000
<b>Total</b>	<b>\$1,141,300</b>	<b>\$2,902,800</b>	<b>\$5,693,400</b>	<b>\$8,304,300</b>	<b>\$1,150,000</b>	<b>\$800,000</b>	<b>\$19,991,800</b>
Funding Sources	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Debt Issuance	491,300	1,402,800	4,143,400	7,254,300	0	0	13,291,800
System Revenues	650,000	1,500,000	1,550,000	1,050,000	1,150,000	800,000	6,700,000
<b>Total</b>	<b>\$1,141,300</b>	<b>\$2,902,800</b>	<b>\$5,693,400</b>	<b>\$8,304,300</b>	<b>\$1,150,000</b>	<b>\$800,000</b>	<b>\$19,991,800</b>
Operating Impacts	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Debt Service	0	36,956	142,474	454,140	999,807	999,807	2,633,183
<b>Total</b>	<b>\$0</b>	<b>\$36,956</b>	<b>\$142,474</b>	<b>\$454,140</b>	<b>\$999,807</b>	<b>\$999,807</b>	<b>\$2,633,183</b>

## College Heights Water Line Replacement (Phase II)

**Total Project Cost:** \$1,250,000

**Estimated Opening Date:** 2022-2024

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**Revised Cost Estimate**

**PROGRAM DESCRIPTION**

The City of Fredericksburg has been working in the College Heights neighborhood to replace aging lines. In addition, a second water tap has been provided to the main transmission line along Jefferson Davis Highway.

**OPERATING IMPACT SUMMARY**

Replacement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		0	0	350,000	450,000	450,000	0	1,250,000	
<b>Total</b>		\$0	\$0	\$350,000	\$450,000	\$450,000	\$0	\$1,250,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		0	0	350,000	450,000	450,000	0	1,250,000	
<b>Total</b>		\$0	\$0	\$350,000	\$450,000	\$450,000	\$0	\$1,250,000	

## Internal System Improvements

**Total Project Cost:** \$3,200,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

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.

**OPERATING IMPACT SUMMARY**

Replacement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Construction		400,000	500,000	500,000	500,000	600,000	700,000	3,200,000	
<b>Total</b>		\$400,000	\$500,000	\$500,000	\$500,000	\$600,000	\$700,000	\$3,200,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		400,000	500,000	500,000	500,000	600,000	700,000	3,200,000	
<b>Total</b>		\$400,000	\$500,000	\$500,000	\$500,000	\$600,000	\$700,000	\$3,200,000	

## Motts Run Water Plant Expansion

**Total Project Cost:** \$13,416,800

**Estimated Opening Date:** 2023

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works; Spotsylvania County

**PROGRAM DESCRIPTION**

The City of Fredericksburg and Spotsylvania County jointly provide the capital for the Motts Run water Plant. It is anticipated that an expansion of the facility will be required in the future. Initial engineering is planned for FY 2019, with construction proposed to begin in FY 2023. The cost represents the City's share of a project managed by Spotsylvania County.

**OPERATING IMPACT SUMMARY**

To be determined

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary Engineering	125,000	0	0	0	0	0	0	125,000	
Construction	0	491,300	1,402,800	4,143,400	7,254,300	0	0	13,291,800	
<b>Total</b>	<b>\$125,000</b>	<b>\$491,300</b>	<b>\$1,402,800</b>	<b>\$4,143,400</b>	<b>\$7,254,300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13,416,800</b>	

Funding Sources	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	0	491,300	1,402,800	4,143,400	7,254,300	0	0	13,291,800	
System Revenues	125,000	0	0	0	0	0	0	125,000	
<b>Total</b>	<b>\$125,000</b>	<b>\$491,300</b>	<b>\$1,402,800</b>	<b>\$4,143,400</b>	<b>\$7,254,300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13,416,800</b>	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Personnel	0	0	0	0	0	0	0
Operating	0	0	0	0	0	0	0
Debt Service	0	36,956	142,474	454,140	999,807	999,807	2,633,183
<b>Total</b>	<b>\$0</b>	<b>\$36,956</b>	<b>\$142,474</b>	<b>\$454,140</b>	<b>\$999,807</b>	<b>\$999,807</b>	<b>\$2,633,183</b>

**Pressure Release Valve Replacement / Rehab**

**Total Project Cost:** \$300,000

**Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**NEW in FY 2020**

**PROGRAM DESCRIPTION**

The City water system is divided into several pressure zones. The Department of Public Works utilizes a number of automatic Pressure Relief Valves to adjust and maintain water pressure in the various pressure zones. The current valves will be nearing the end of their useful lives and will need to be replaced or rehabilitated in the coming years.

**OPERATING IMPACT SUMMARY**

Replacement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		0	0	0	100,000	100,000	100,000	300,000	
<b>Total</b>		\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$300,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		0	0	0	100,000	100,000	100,000	300,000	
<b>Total</b>		\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$300,000	

## SCADA

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

**Estimated Opening Date:** 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works; Spotsylvania County

**NEW in FY 2020**

**PROGRAM DESCRIPTION**

A supervisory control and data acquisition (SCADA) system is used to monitor and control the treatment plant and equipment.

Potable water is provided to the City from the Motts Run Water Treatment Plant located in Spotsylvania County. Portions of the City water system are connected to the Spotsylvania County SCADA system to monitor flow, pressure, tank level, etc. The County is in the process of upgrading their SCADA system. Those portions of their SCADA system located in the City are scheduled to be upgraded in 2020.

**OPERATING IMPACT SUMMARY**

Replacement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		250,000	0		0	0	0	250,000	
<b>Total</b>		\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		250,000	0	0	0	0	0	250,000	
<b>Total</b>		\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	

## Telegraph Hill Loop

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

**Estimated Opening Date:** 2022

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**NEW in FY 2020**

**PROGRAM DESCRIPTION**

The proposed Telegraph Hill housing development, located near the Lafayette Blvd and Blue Gray Parkway interchange, will be supplied with water from the main on Lafayette Blvd. The water main on Greenbrier Dr. will be extended to provide an additional water supply.

**OPERATING IMPACT SUMMARY**

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		0	0	200,000	0	0	0	200,000	
<b>Total</b>		\$0	\$0	\$200,000	\$0	\$0	\$0	\$200,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		0	0	200,000	0	0	0	200,000	
<b>Total</b>		\$0	\$0	\$200,000	\$0	\$0	\$0	\$200,000	

## Water Meter Replacement

**Total Project Cost:** \$1,500,000

**Estimated Opening Date:** 2022

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**NEW in FY 2020**

**PROGRAM DESCRIPTION**

The company which supplies the water meters used by the City has announced that they will be discontinuing product support for the water meter models currently in use. The newer models will provide more efficient metering and service and will allow remote reading of water meters.

**OPERATING IMPACT SUMMARY**

Replacement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2024	TOTAL	Later Years
Project Costs		0	1,000,000	500,000	0	0	0	1,500,000	
<b>Total</b>		\$0	\$1,000,000	\$500,000	\$0	\$0	\$0	\$1,500,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2024	TOTAL	Later Years
System Revenues		0	1,000,000	500,000	0	0	0	1,500,000	
<b>Total</b>		\$0	\$1,000,000	\$500,000	\$0	\$0	\$0	\$1,500,000	

**FY 2020 - FY 2025 CIP - Wastewater Improvement Fund**

Projects	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Celebrate Virginia Pump Station	150,000	0	0	0	0	0	\$ 150,000
Inflow & Infiltration Abatements, Sewer System Improvements & Pump Station Upgrades	800,000	800,000	1,175,000	800,000	925,000	1,000,000	\$ 5,500,000
Kenmore Avenue Sewer	225,000	0	0	0	0	0	\$ 225,000
NPS / Farrell Lane Line Replacement	0	2,000,000	600,000	0	0	0	\$ 2,600,000
Princess Anne (Upper) Sewer Replacement	0	0	0	0	500,000	0	\$ 500,000
Routes 2 & 17 Pump Station	150,000	0	0	0	0	0	\$ 150,000
Wastewater Treatment Plant (WWTP) Capital Maintenance	835,000	610,000	190,000	140,000	190,000	0	\$ 1,965,000
WWTP Upgrade / Consolidation	6,546,200	15,378,000	13,692,000	11,372,000	10,300,000	7,351,000	\$ 64,639,200
<b>Total</b>	<b>\$8,706,200</b>	<b>\$18,788,000</b>	<b>\$15,657,000</b>	<b>\$12,312,000</b>	<b>\$11,915,000</b>	<b>\$8,351,000</b>	<b>\$ 75,579,200</b>

Funding Sources	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Debt Issuance	6,546,200	17,378,000	14,292,000	10,512,000	8,240,000	5,880,800	\$ 62,849,000
System Revenues	2,160,000	1,410,000	1,365,000	940,000	1,615,000	1,000,000	\$ 8,490,000
Reimbursement from Spotsylvania	0	0	0	860,000	2,060,000	1,470,200	\$ 4,390,200
<b>Total</b>	<b>\$8,706,200</b>	<b>\$18,788,000</b>	<b>\$15,657,000</b>	<b>\$12,312,000</b>	<b>\$11,915,000</b>	<b>\$8,351,000</b>	<b>\$ 75,729,200</b>

Operating Impacts	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	CIP Total
Personnel	0	0	0	0	0	0	TBD
Operating	0	0	0	0	0	0	TBD
Debt Service	79,733	572,122	1,879,292	2,954,334	3,809,734	4,584,498	\$ 13,879,714
Revenue / Savings	0	0	0	0	0	0	TBD
<b>Total</b>	<b>\$79,733</b>	<b>\$572,122</b>	<b>\$1,879,292</b>	<b>\$2,954,334</b>	<b>\$3,809,734</b>	<b>\$4,584,498</b>	<b>\$ 13,879,714</b>

## Celebrate Virginia Pump Station

**Total Project Cost:** \$150,000

**Estimated Opening Date:** 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**New in FY 2020**

**PROGRAM DESCRIPTION**

Development in the Celebrate Virginia area will increase sewage flow to the pump station serving that area. This will necessitate the replacement of the current pumps with larger, more efficient units.

**OPERATING IMPACT SUMMARY**

These projects represent maintenance or enhancement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		150,000	0	0	0	0	0	150,000	
<b>Total</b>		<b>\$150,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		150,000	0	0	0	0	0	150,000	
<b>Total</b>		<b>\$150,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,000</b>	

**Inflow & Infiltration Abatements, Sewer System Improvements & Pump Station Upgrades**

**Total Project Cost:** \$5,500,000      **Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

Reduction in collection system inflow and infiltration (I&I) is required under the VPDES permit.

Collection system repairs and upgrades are an ongoing capital expense required to keep the system properly operating, including replacement of sewage pumps as they reach the end of their useful life.

The City maintains funding in the Wastewater Fund for small line replacements or additions and pump station upgrades 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 wastewater lines and pump stations (including grinders) that are significantly older and nearing the end of their useful life.

**OPERATING IMPACT SUMMARY**

These projects represent maintenance or enhancement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Inflow and Infiltration		400,000	300,000	700,000	300,000	300,000	300,000	2,300,000	
Sewer System Improvements		350,000	400,000	375,000	400,000	525,000	600,000	2,650,000	
Pump Station Upgrades		50,000	100,000	100,000	100,000	100,000	100,000	550,000	
<b>Total</b>	Ongoing	\$800,000	\$800,000	\$1,175,000	\$800,000	\$925,000	\$1,000,000	\$5,500,000	Ongoing

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues	Ongoing	800,000	800,000	1,175,000	800,000	925,000	1,000,000	5,500,000	Ongoing
<b>Total</b>		\$800,000	\$800,000	\$1,175,000	\$800,000	\$925,000	\$1,000,000	\$5,500,000	

## Kenmore Avenue Sewer

**Total Project Cost:** \$225,000

**Estimated Opening Date:** 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**New in FY 2020**

**PROGRAM DESCRIPTION**

The sewer running along the 600 block of Kenmore Avenue runs through a private property. There appears to be no easement providing for the operation of a sewer on that property. The DPW is proposing to relocate this sewer into the R-O-W to allow development of the property.

**OPERATING IMPACT SUMMARY**

These projects represent maintenance or enhancement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		225,000	0	0	0	0	0	225,000	
<b>Total</b>		\$225,000	\$0	\$0	\$0	\$0	\$0	\$225,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		225,000	0	0	0	0	0	225,000	
<b>Total</b>		\$225,000	\$0	\$0	\$0	\$0	\$0	\$225,000	

## NPS / Farrell Lane Line Replacement

**Total Project Cost:** \$2,950,000

**Estimated Opening Date:** 2023

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

### PROGRAM DESCRIPTION

The City owns and maintains a gravity flow sanitary sewer line located on National Park Service property east of Lafayette Boulevard. This line flows north approximately parallel to Lafayette Boulevard from the south City limits toward and eventually into the Hazel Run Interceptor Sewer near the Blue and Gray Parkway.

This line is aged and needs to be replaced. The funds will be used to perform initial due diligence work associated with determining a schedule, scope and cost for obtaining the various permits that will be needed to replace the line. Permits may be required from the National Park Service, the Virginia Department of Historic Resources, Virginia Department of Environmental Quality, the US Army Corps of Engineers or other agencies with jurisdiction over any aspect of the project. Additional work will consist of topographic and alignment survey and preliminary and final project design. The design and preliminary work was funded in FY 2019.

Construction is estimated to begin in 2021. The estimate may be revised as design progresses.

### OPERATING IMPACT SUMMARY

Replacement of an existing asset.

### PROJECT COSTS

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Preliminary (Design & Permitting)	350,000	0	0	0	0	0	0	350,000	
Construction	0	0	2,000,000	600,000	0	0	0	2,600,000	
<b>Total</b>	<b>\$350,000</b>	<b>\$0</b>	<b>\$2,000,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,950,000</b>	

Funding Sources	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	350,000	0	2,000,000	600,000	0	0	0	2,950,000	
<b>Total</b>	<b>\$350,000</b>	<b>\$0</b>	<b>\$2,000,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,950,000</b>	

Operating Impacts	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
Debt Service	0	0	150,440	195,572	195,572	195,572	737,154
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,440</b>	<b>\$195,572</b>	<b>\$195,572</b>	<b>\$195,572</b>	<b>\$737,154</b>

## Princess Anne (Upper) Sewer Replacement

**Total Project Cost:** \$500,000

**Estimated Opening Date:** 2024

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**New in FY 2020**

**PROGRAM DESCRIPTION**

The sewer serving the upper Princess Anne area is approaching the end of its useful life and will require replacement or rehabilitation in the next few years.

**OPERATING IMPACT SUMMARY**

This project represents maintenance or enhancement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs			0	0	0	500,000	0	500,000	
<b>Total</b>		\$0	\$0	\$0	\$0	\$500,000	\$0	\$500,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		0	0	0	0	500,000	0	500,000	
<b>Total</b>		\$0	\$0	\$0	\$0	\$500,000	\$0	\$500,000	

## Routes 2 & 17 Pump Station

**Total Project Cost:** \$150,000

**Estimated Opening Date:** 2020

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

The existing 2 & 17 pump station is beyond its useful life. At the present time the DPW is operating a temporary pump and connecting to a nearby collection system of Spotsylvania County. The DPW is proposing a new unit to discharge into the existing City force main.

**OPERATING IMPACT SUMMARY**

These projects represent maintenance or enhancement of existing assets.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Project Costs		150,000	0	0	0	0	0	150,000	
<b>Total</b>		<b>\$150,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,000</b>	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		150,000	0	0	0	0	0	150,000	
<b>Total</b>		<b>\$150,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,000</b>	

## Wastewater Treatment Plant (WWTP) Capital Maintenance

**Total Project Cost:** \$1,965,000      **Estimated Opening Date:** Ongoing

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works

**PROGRAM DESCRIPTION**

Periodic capital maintenance projects are required to keep the wastewater treatment plant (WWTP) running efficiently. Funds will be used to perform scheduled capital maintenance and for major capital projects that are identified as needs arise. These replacements are important not only to keep the plant running efficiently, but also to maintain compliance with the City's permit from the Commonwealth's Department of Environmental Quality (DEQ).

Maintenance projects include replacement of the SCADA system which is the networked computer data monitoring system, annual pump replacements, relining of an effluent tank, replacement of grit separators and repair the emergency electrical system.

**OPERATING IMPACT SUMMARY**

Maintenance of existing capital asset to maintain operating efficiency at the WWTP.

**PROJECT COSTS**

Cost Categories	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Effluent Tank Relining		400,000	0	0	0	0	0	400,000	
Emergency Electric System		120,000		0	0	0	0	120,000	
Pump Replacement		140,000	140,000	140,000	140,000	140,000	0	700,000	
Relamp UV Lights (disinfectant)		50,000	0	50,000	0	50,000	0	150,000	
SCADA Replacement		125,000	0	0	0	0	0	125,000	
Grit Separators		0	120,000	0	0	0	0	120,000	
Influent Building Upgrade		0	350,000	0	0	0	0	350,000	
<b>Total</b>		\$835,000	\$610,000	\$190,000	\$140,000	\$190,000	\$0	\$1,965,000	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
System Revenues		835,000	610,000	190,000	140,000	190,000	0	1,965,000	
<b>Total</b>		\$835,000	\$610,000	\$190,000	\$140,000	\$190,000	\$0	\$1,965,000	

## WWTP Upgrade / Consolidation

**Total Project Cost:** \$65,699,000

**Estimated Opening Date:** To Be Determined

**City Council's Vision:** Public Service - The Backbone of Our Community

**Department/Agency:** Public Works; Spotsylvania County **Updated in FY 2020**

### PROGRAM DESCRIPTION

At the present time there are three sewage treatment plants discharging into the Rappahannock River within 3 miles, namely the City's WWTP as well as two in Spotsylvania County (the FMC plant and the Massaponax WWTP.) The City plant is in need of rehabilitation and requires upgrading. The City and the County Utility Staffs jointly contracted an analysis of long range sewer treatment needs. The Consultants looked at several alternatives including consolidation of the three facilities and continued operation of the three plants.

This is an ongoing discussion and must be approved by both the Fredericksburg City Council and the Spotsylvania Board of Supervisors.

### OPERATING IMPACT SUMMARY

As decisions regarding the consolidation are made and plans progress, a more detailed analysis of operating costs will be presented.

### PROJECT COSTS

Cost Categories	Prior Year	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Massaponax Expansion/Consolidation* (Spotsylvania)	1,060,000	3,172,000	9,828,000	10,192,000	7,072,000	0	0	31,324,000	
FMC Infrastructure Improvements* (Spotsylvania)	0	1,088,000	750,000	0	0	0	0	1,838,000	
FMC Decommissioning* (Spotsylvania)	0	1,536,200	1,300,000	0	0	0	0	2,836,200	
FMC to Massaponax WWTP (Spotsylvania)*	0	750,000	3,500,000	3,500,000	0	0	0	7,750,000	
New Influent Building (City Plant PS)	0	0	0	0	1,700,000	10,300,000	5,100,000	17,100,000	To Be Determined
City Plant PS to FMC	0	0	0	0	2,600,000	0	0	2,600,000	To Be Determined
Decommissioning City Plant	0	0	0	0	0	0	2,251,000	2,251,000	
<i>* City's share of project managed by Spotsylvania County</i>									To Be Determined
<b>Total</b>	\$1,060,000	\$6,546,200	\$15,378,000	\$13,692,000	\$11,372,000	\$10,300,000	\$7,351,000	\$65,699,200	

Funding Sources	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Debt Issuance	1,060,000	6,546,000	15,378,000	13,692,000	11,372,000	10,300,000	7,351,000	65,699,000	
<b>Total</b>	\$1,060,000	\$6,546,000	\$15,378,000	\$13,692,000	\$11,372,000	\$10,300,000	\$7,351,000	\$65,699,000	

Operating Impacts	Prior Years	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	Later Years
Personnel	0	0	0	0	0	0	0	0	To Be Determined
Operating	0	0	0	0	0	0	0	0	To Be Determined
Debt Service	0	79,733	572,122	1,728,853	2,758,763	3,614,163	4,388,927	13,142,560	
Revenue/Savings	0	0	0	0	0	0	0	0	To Be Determined
<b>Total</b>	\$0	\$79,733	\$572,122	\$1,728,853	\$2,758,763	\$3,614,163	\$4,388,927	\$13,142,560	

FY 2020 - FY 2025 Recommended CIP Projects for Future CIPs	Source	City Council's Vision	FY 20XX
New Elementary School	Debt	Learning is a Way of Life	33,750,000
City Shop Improvements	Debt	Public Service - The Backbone of Our Community	TBD
Bridge Repair - Jeff Davis Highway Bypass over Route 3	VDOT	Public Service - The Backbone of Our Community	7,875,000
Downtown Parking Garage	Debt	Employment Epicenter	10,000,000
Dixon Park Community Center	Debt	Building Community Through Cultural Vibrancy	25,000,000
Motts Reservoir	GF	Building Community Through Cultural Vibrancy	250,000
Central Rappahannock Regional Library	Debt	Building Community Through Cultural Vibrancy	11,000,000
Renwick Building	TBD	A Proven Leader in Historic Preservation	10,000,000