

CAPITAL PROGRAM

2040 Comprehensive Plan

The projects contained in the Five-Year Capital Improvement Program support the goals and objectives outlined in the City's Comprehensive Plan and are intended to establish the long-term spending priorities identified by the City Council.

The 2040 Comprehensive Plan defines the future of Manassas, but its implementation and ultimate success is tied to many other City documents. Manassas has a number of existing plans and studies that guide new development and resource priorities (e.g., capital projects, budget, and staff resources).

As part of the development of the 2040 Comprehensive Plan, the following technical studies have been incorporated into the strategies for each of the Plan's subject areas:

Transportation Master Plan

Assesses the Manassas transportation network and identifies multimodal recommendations to improve mobility through 2040.

Housing Plan

Includes analysis, observations, and recommendations to plan for and promote quality housing and neighborhoods for Manassas residents.

Parks, Recreation, and Cultural Needs Assessment and Facilities Plan

Identifies needs for parks, recreation, and cultural facilities and programs based on citizen survey, community meetings, and benchmarking data.

Manassas City Public Schools Facility Plan 2020-2030

Provides student enrollment projections through 2030 and a recommended facility plan to meet the projected need.

These strategies and priorities are used to make decisions regarding the annual operating budgets and capital improvement programming as well as to identify new department-specific initiatives, such as studies or policies.

Each year, the City undertakes an evaluation of the Comprehensive Plan that includes coordination of the Plan with the development of the Capital Improvement Program to ensure that capital projects are in conformance with the Plan as required by Section 15.2-2232 of the Code of Virginia.



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Summary (Dollars in Thousands)

	Total Project Budget	FY 2021 and Prior Years	Five-Year CIP FY 2022-26	FY 2027 and Future Years
Program Area:				
General Government Projects	21,779	9,835	374	11,570
Culture & Recreation Projects	35,315	10,695	1,360	23,260
Public Safety Projects	83,051	58,451	-	24,600
Transportation Projects	82,753	56,340	16,068	10,345
Sewer Projects	10,630	4,830	5,800	-
Water Projects	51,460	35,560	15,900	-
Electric Projects	45,405	1,530	43,875	-
Stormwater Projects	10,161	4,661	5,500	-
Airport Projects	50,820	1,150	15,245	34,425
School Projects	80,187	-	77,187	3,000
Total	471,561	183,052	181,309	107,200
Funding Source:				
General Fund	7,608	6,699	909	-
Sewer Fund	6,467	5,487	980	-
Water Fund	18,773	13,983	4,790	-
Electric Fund	8,620	5,245	3,375	-
Stormwater Fund	1,291	61	1,230	-
Airport Fund	3,395	513	1,712	1,170
School Fund	20,223	33	17,190	3,000
Bonds	247,370	100,808	82,867	63,695
State	16,066	10,344	2,479	3,243
Federal	65,978	25,581	16,985	23,412
NVTA 30%	10,027	6,220	2,627	1,180
Other Source	65,743	8,078	46,165	11,500
Project Cost Total:	471,561	183,052	181,309	107,200

CAPITAL PROGRAM

Five-Year Capital Improvement Program - Project Listing (Dollars in Thousands)

	Total Project Budget	FY 2021 and Prior Years	Five-Year CIP FY 2022-26	FY 2027 and Future Years
General Government Projects				
City Hall Improvements/Renovations	7,807	7,807	-	-
Public Works & Utilities Facility Improvements	7,799	1,460	-	6,339
Manassas Customer Service	568	568	-	-
Social Services Facility	5,231	-	-	5,231
Building Automation System	374	-	374	-
Program Total	21,779	9,835	374	11,570
Culture & Recreation Projects				
Manassas Museum	3,889	3,889	-	-
Dean Park	4,439	3,764	675	-
E.G. Smith Baseball Complex	6,876	876	-	6,000
Annaburg Manor	7,316	1,816	-	5,500
Jennie Dean Memorial	500	350	150	-
Manassas Library	11,760	-	-	11,760
Cedar Crest Park	535	-	535	-
Program Total	35,315	10,695	1,360	23,260
Public Safety Projects				
Public Safety Facility	42,785	42,785	-	-
Fire/Rescue Station 21	15,666	15,666	-	-
Fire/Rescue Station 1	24,600	-	-	24,600
Program Total	83,051	58,451	-	24,600
Transportation Projects				
Sudley Road Third Lane	7,990	7,990	-	-
Grant Ave (Lee Ave to Wellington Rd)	11,137	10,987	150	-
Dean Drive Extended	4,430	3,894	536	-
Dean Drive (Animal Shelter to Wellington Rd)	8,300	-	5,620	2,680
Route 28 / Nokesville Rd Widening	19,581	18,222	1,359	-
Liberia Avenue Improvements	4,165	-	4,165	-
Stonewall Park Trail Extension	2,000	-	1,500	500
Godwin Drive Bike Trail	1,703	1,703	-	-
Commercial Corridor Streetscapes	597	597	-	-
Fairview Avenue / Tudor Lane Signal	1,145	1,130	15	-
North Side Downtown Parking Garage	7,165	-	-	7,165
Traffic Signal Span Wire to Mast Arms	750	-	750	-

CAPITAL PROGRAM

Five-Year Capital Improvement Program - Project Listing (Dollars in Thousands)

	Total Project Budget	FY 2021 and Prior Years	Five-Year CIP FY 2022-26	FY 2027 and Future Years
Gateway Boulevard Sidewalk/Trail	740	490	250	-
Roundabout Sudley/Centreville	3,825	3,825	-	-
Mathis Avenue Improvements	7,227	5,658	1,569	-
Quarry Streetscape	1,000	1,000	-	-
Wellington Road Shared-Use Path Gap	998	844	154	-
Program Total	82,753	56,340	16,068	10,345

Sewer Projects

Upper Flat Branch Interceptor Replacement	5,665	3,665	2,000	-
Buckner Road Sewer Main Replacement	580	580	-	-
Ellicott Lane Sewer Main Replacement	585	585	-	-
Airport Infrastructure Improvements	3,800	-	3,800	-
Program Total	10,630	4,830	5,800	-

Water Projects

24" Transmission Main Replacement	32,960	20,160	12,800	-
Finished Water Capacity Increases	4,500	3,000	1,500	-
Clear-Well Addition and Roof Renovation	3,000	2,400	600	-
Nokesville Road Upgrade	1,000	-	1,000	-
Dean Storage Tank	3,812	3,812	-	-
Surge Tank Expansion	1,300	1,300	-	-
Floating Aeration for Lake Manassas	1,500	1,500	-	-
Enclosure Pulsator Basins	150	150	-	-
Conventional Filter Rehabilitation	488	488	-	-
Screw Press Decant	2,500	2,500	-	-
Floc Basin Paddle Replacement	250	250	-	-
Program Total	51,460	35,560	15,900	-

Electric Projects

New Fiber Optic Loop/Ring	505	505	-	-
LED Streetlight Replacement	925	450	475	-
Manassas Airport Distribution Improvements	1,775	575	1,200	-
Distribution Facility Relocations	500	-	500	-
New Electric Substation - Industrial Load #1	8,000	-	8,000	-
New Electric Substation - Industrial Load #2	33,700	-	33,700	-
Program Total	45,405	1,530	43,875	-

CAPITAL PROGRAM

Five-Year Capital Improvement Program - Project Listing (Dollars in Thousands)

	Total Project Budget	FY 2021 and Prior Years	Five-Year CIP FY 2022-26	FY 2027 and Future Years
Stormwater Projects				
Euclid/Sills Warehouse Pond Retrofit	699	125	574	-
Liberia Retrofit	2,470	2,470	-	-
Alternative Stormwater BMPs	717	61	656	-
Round Elementary Retrofit	1,625	125	1,500	-
Cannon Branch Stream Restoration	2,770	-	2,770	-
Lucasville Regional Pond Retrofit	1,880	1,880	-	-
Program Total	10,161	4,661	5,500	-

Airport Projects				
Air Traffic Control Tower	8,600	-	-	8,600
Realignment of Wakeman Dr & Observation Rd	3,850	-	-	3,850
Land Acquisition Southwest Side of Airport	3,000	-	-	3,000
Fuel Farm Update	550	-	-	550
Taxiway A Rehabilitation	2,800	250	2,550	-
North East Apron Expansion	2,200	-	-	2,200
Rehabilitate and Widen Taxiway B	5,245	400	4,845	-
Terminal Parking Lot Expansion	1,100	-	-	1,100
Installation of Backup Generators	550	-	-	550
West Corporate Development Site / Drainage	1,900	500	1,400	-
Rehabilitation of Runway 16L/34R	5,600	-	5,600	-
East Apron Rehabilitation	3,750	-	250	3,500
Runway 16R/34L Extension	3,775	-	-	3,775
South East Airport Complex Site Development	7,700	-	400	7,300
South West Hangar Redevelopment	200	-	200	-
Program Total	50,820	1,150	15,245	34,425

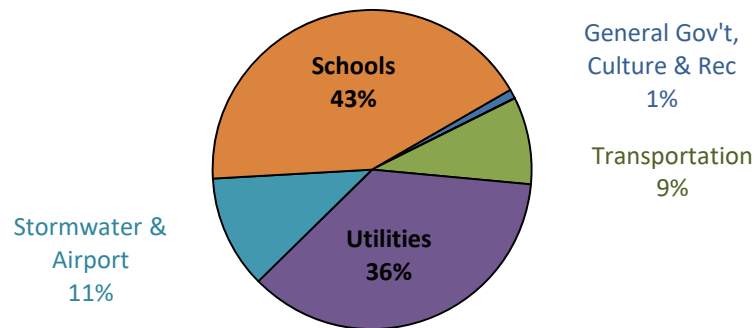
School Projects				
District Wide - Classroom Trailers	900	-	900	-
District Wide - Technology Upgrades	1,200	-	1,000	200
District Wide - School Bus Replacements	2,750	-	2,250	500
District Wide - School Bus Additions	625	-	500	125
District Wide - Fire Alarm Replacement	3,219	-	2,219	1,000
Central Office - Replacement	5,834	-	5,834	-
Osborn - Cooling Tower & Chiller Replacement	1,450	-	450	1,000
Osborn - Restroom Refurbishment	75	-	75	-
Osborn - Roof Replacement	1,600		1,600	-

CAPITAL PROGRAM

Five-Year Capital Improvement Program - Project Listing (Dollars in Thousands)

	Total Project Budget	FY 2021 and Prior Years	Five-Year CIP FY 2022-26	FY 2027 and Future Years
Metz - Restroom Refurbishment	175	-	-	175
Weems - Parking Lot Improvements	40	-	40	-
Weems - Partial Maintenance Roof	84	-	84	-
Weems - Interior Paint	63	-	63	-
New Dean - Building Replacement	62,172	-	62,172	-
Program Total	80,187	-	77,187	3,000
TOTAL	471,561	183,052	181,309	107,200

FY 2022 Five-Year CIP by Program



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Impact on the Operating Budget

Most capital improvement projects generate future operating budget costs in one or more of three ways: debt service; PAYGO (both to offset the need to issue debt and to fund projects not eligible for debt); and changes to the Operating Budget to support new or renovated facilities. Debt service and annual PAYGO are the most **significant** financial impacts of the City's five-year capital improvement program.

DEBT SERVICE

Bonds are used to spread the cost of construction over time, so that those who benefit from the project over time also assist in the funding of the project. General Obligation Bonds are issued for a wide variety of functions such as transportation, public schools, public safety, and utility infrastructure. These bonds are legally-binding general obligations of the City and constitute an irrevocable pledge of its full faith and credit and unlimited taxing power. Tax-supported debt (for purposes of this discussion) includes debt to be repaid by the General Fund, Fire and Rescue Fund, and School Fund. Debt repaid by the enterprise funds (Sewer, Water, Electric, Airport, and Stormwater) is supported by the revenues of those funds. Future debt service is funded through a combination of debt roll-off, reduced expenditures, and increased taxes and fees.

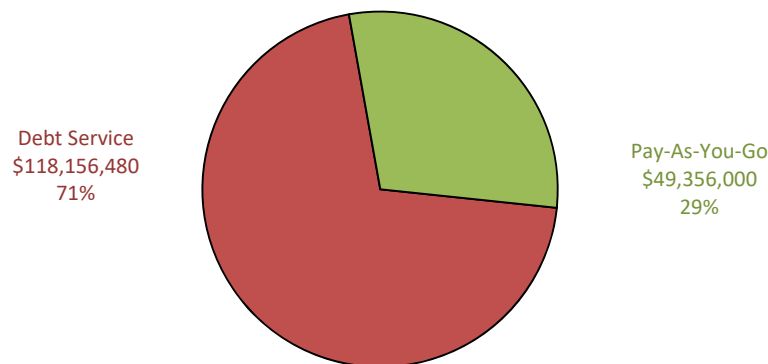
PAYGO

Certain capital projects are funded directly with current revenues of the City in order to avoid the cost of borrowing (PAYGO). These amounts for the first year of the Adopted CIP are included in the operating budget as specific transfers to the respective capital project funds. PAYGO is often split between capital projects, which are in the CIP, and maintenance capital projects which are not considered part of the CIP. For this analysis both are included.

OPERATING BUDGET IMPACTS

The construction of government buildings and facilities usually results in new annual costs for maintenance, utilities, and additional staffing required for facility management and operation. Whenever a new or expanded facility involves program expansion, the required staffing and equipment represent additional operating budget expenditures. Many of these facilities will serve as replacements for existing facilities as opposed to additional facilities.

Impact of Five-Year CIP on Operating Budget



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Impact on the Operating Budget

Five Year Capital Improvement Program - Impact on Operating Budget (All Funds)

Supporting Fund / Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
<u>Debt Service</u>					
General Fund	-	-	-	-	-
Fire and Rescue Fund	-	-	-	-	-
Sewer Fund	-	304,000	304,000	304,000	464,000
Water Fund	-	1,024,000	1,024,000	1,024,000	1,024,000
Electric Fund	-	-	-	-	-
Stormwater Fund	-	-	341,600	341,600	341,600
Airport Fund	-	-	-	-	-
School Fund	-	-	-	-	-
Debt Service	-	1,328,000	1,669,600	1,669,600	1,829,600
<u>PAYGO</u>					
General Fund	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Fire and Rescue Fund	-	-	-	-	-
Sewer Fund	-	450,000	450,000	450,000	450,000
Water Fund	2,715,000	1,050,000	1,050,000	600,000	600,000
Electric Fund	2,500,000	2,400,000	2,885,000	1,850,000	1,860,000
Stormwater Fund	1,071,000	559,000	525,000	575,000	375,000
Airport Fund	1,582,000	173,000	100,000	203,000	73,000
School Fund	5,190,000	3,060,000	3,000,000	3,060,000	3,000,000
PAYGO	14,558,000	9,192,000	9,510,000	8,238,000	7,858,000
<u>Other Operating Costs (Savings)</u>					
General Fund	313,000	313,000	301,000	301,000	301,000
Fire and Rescue Fund	-	-	-	-	-
Sewer Fund	-	-	-	-	-
Water Fund	-	-	-	-	-
Electric Fund	-	-	-	-	-
Stormwater Fund	-	-	-	-	-
Airport Fund	-	-	-	-	-
School Fund	-	-	-	-	-
Other Operating Costs (Savings)	313,000	313,000	301,000	301,000	301,000
Total Operating Impacts	14,871,000	10,833,000	11,480,600	10,208,600	9,988,600

CAPITAL PROGRAM

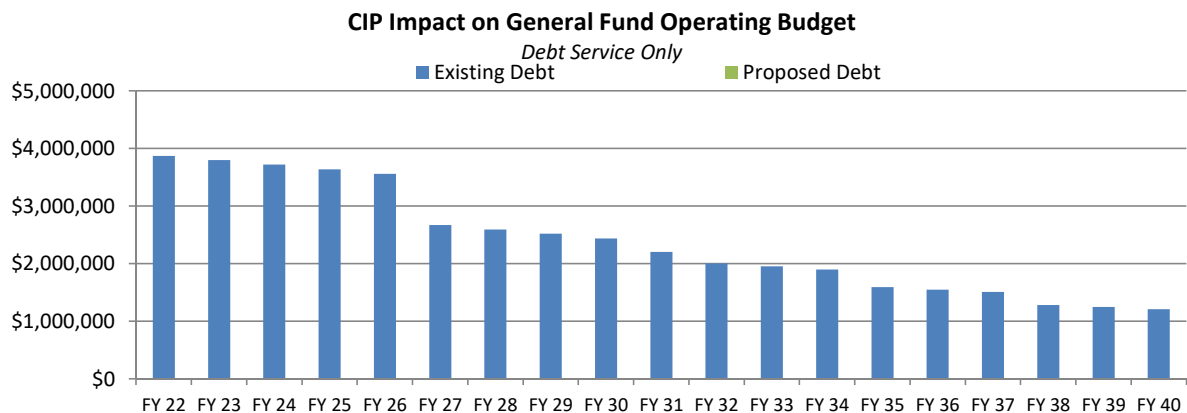
Five-Year Capital Improvement Program - Impact on the Operating Budget

Five Year Capital Improvement Program - Impact on General Fund Operating Budget

Supporting Fund / Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
General Fund					
<u>Debt Service</u>					
P-015 Public Safety Facility	-	-	-	-	-
C-006 Manassas Museum	-	-	-	-	-
C-017 Dean Park	-	-	-	-	-
C-037 E.G. Smith Baseball Complex	-	-	-	-	-
T-086 Mathis Avenue	-	-	-	-	-
C-037 E.G. Smith Baseball Complex	-	-	-	-	-
Proposed Debt	-	-	-	-	-
PAYGO (Capital & Maint.)	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Other Operating Costs (Savings)	313,000	313,000	301,000	301,000	301,000
Total Operating Impacts	\$ 1,813,000	\$ 1,813,000	\$ 1,801,000	\$ 1,801,000	\$ 1,801,000

General Fund debt service is funded with tax revenues raised in the General Fund and transferred to the Debt Service Fund. This transfer is based on the budget as opposed to actual debt service costs to build future debt capacity.

There are no proposed bond issues for the General Government program in the Five-Year Capital Improvement Program. The only impact of the Five-Year CIP is the annual PAYGO contribution.



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Impact on the Operating Budget

Five Year Capital Improvement Program - Impact on Sewer Fund Operating Budget

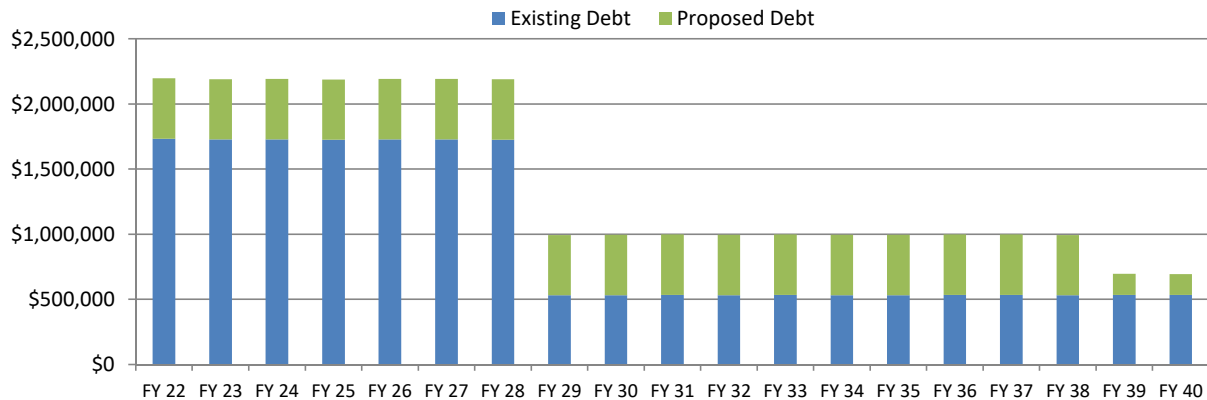
Supporting Fund / Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Sewer Fund					
<u>Debt Service</u>					
S-016 Upper Flat Branch Interceptor	-	-	-	-	160,000
S-026 Airport Infrastructure Impv	-	304,000	304,000	304,000	304,000
Proposed Debt	-	304,000	304,000	304,000	464,000
PAYGO (Capital & Maint.)	-	450,000	450,000	450,000	450,000
Other Operating Costs (Savings)	-	-	-	-	-
Total Operating Impacts	\$ -	\$ 754,000	\$ 754,000	\$ 754,000	\$ 914,000

Sewer Fund debt service is supported by sewer utility rates and paid out of the Sewer Fund.

Proposed bond issues in the Five-Year CIP include \$3.8 million for sewer-related Airport Infrastructure Improvements in FY 2022 and \$2 million for the Upper Flat Branch Interceptor project in FY 2025. The estimated annual debt service is shown above.

CIP Impact on Sewer Fund Operating Budget

Debt Service Only



CAPITAL PROGRAM

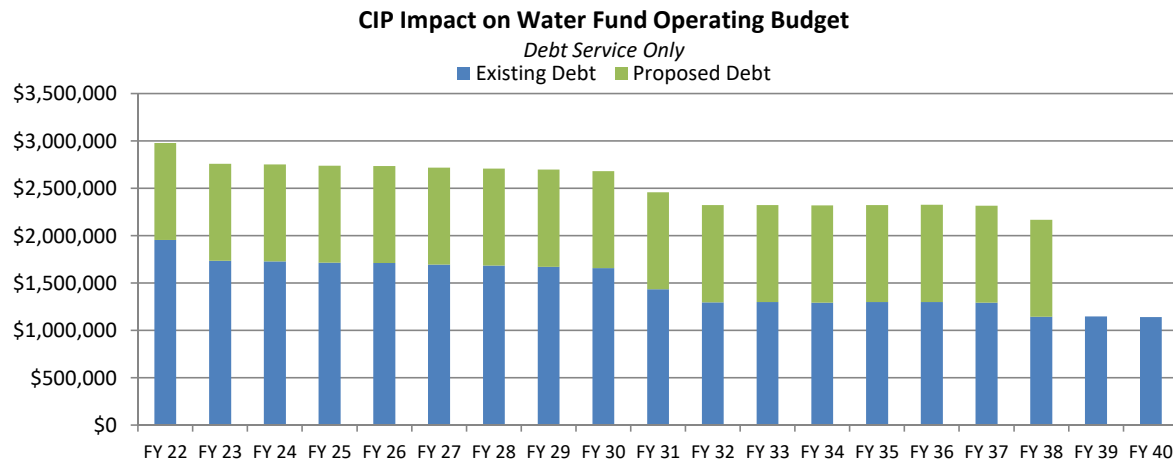
Five-Year Capital Improvement Program - Impact on the Operating Budget

Five Year Capital Improvement Program - Impact on Water Fund Operating Budget

Supporting Fund / Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Water Fund					
<u>Debt Service</u>					
W-042 24" Transmission Main Replace	-	1,024,000	1,024,000	1,024,000	1,024,000
Proposed Debt	-	1,024,000	1,024,000	1,024,000	1,024,000
PAYGO (Capital & Maint.)	2,715,000	1,050,000	1,050,000	600,000	600,000
Other Operating Costs (Savings)	-	-	-	-	-
Total Operating Impacts	\$ 2,715,000	\$ 2,074,000	\$ 2,074,000	\$ 1,624,000	\$ 1,624,000

Water Fund debt service is supported by water utility rates and paid out of the Water Fund.

Proposed bond issues in the Five-Year CIP include \$12.8 million for the 24" Transmission Main Replacement Project in FY 2022. The estimated debt service is shown above.



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Impact on the Operating Budget

Five Year Capital Improvement Program - Impact on Electric Fund Operating Budget

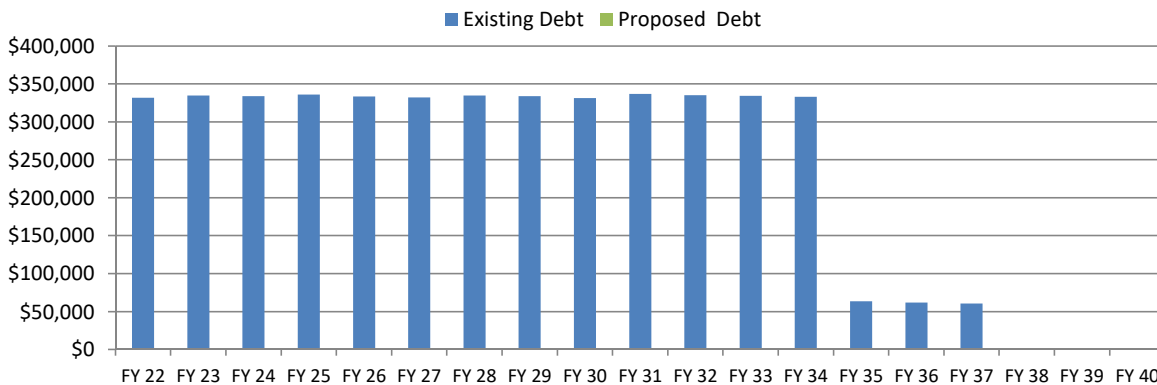
Supporting Fund / Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Electric Fund					
n/a No Bond Projects	-	-	-	-	-
Proposed Debt	-	-	-	-	-
PAYGO (Capital & Maint.)	2,500,000	2,400,000	2,885,000	1,850,000	1,860,000
Other Operating Costs (Savings)	-	-	-	-	-
Total Operating Impacts	\$ 2,500,000	\$ 2,400,000	\$ 2,885,000	\$ 1,850,000	\$ 1,860,000

Electric Fund debt service is supported by electric utility rates and paid out of the Electric Fund.

There are no bond issues for the Electric program in the Five-Year Capital Improvement Program. The only impact of the Five-Year CIP is the annual PAYGO contribution.

CIP Impact on Electric Fund Operating Budget

Debt Service Only



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Impact on the Operating Budget

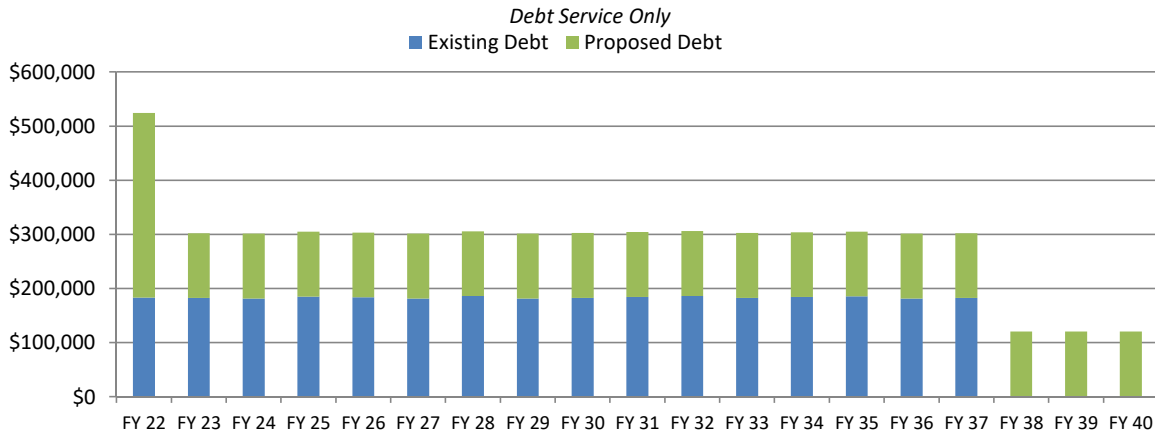
Five Year Capital Improvement Program - Impact on Stormwater Fund Operating Budget

Supporting Fund / Project		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Stormwater Fund						
D-036	Round Elementary Retrofit	-	-	120,000	120,000	120,000
D-037	Cannon Branch Stream Rest		-	221,600	221,600	221,600
	Proposed Debt	-	-	341,600	341,600	341,600
	PAYGO (Capital & Maint.)	1,071,000	559,000	525,000	575,000	375,000
	Other Operating Costs (Savings)	-	-	-	-	-
Total Operating Impacts		\$ 1,071,000	\$ 559,000	\$ 866,600	\$ 916,600	\$ 716,600

Stormwater Fund debt service is supported by stormwater management fees and paid out of the Stormwater Fund.

Proposed bond issues in the Five-Year CIP include \$1.5 million for Round Elementary Retrofit and \$2.7 million for Cannon Branch Stream Restoration in FY 2023. The estimated debt service is shown above.

CIP Impact on Stormwater Fund Operating Budget



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Impact on the Operating Budget

Five Year Capital Improvement Program - Impact on Airport Fund Operating Budget

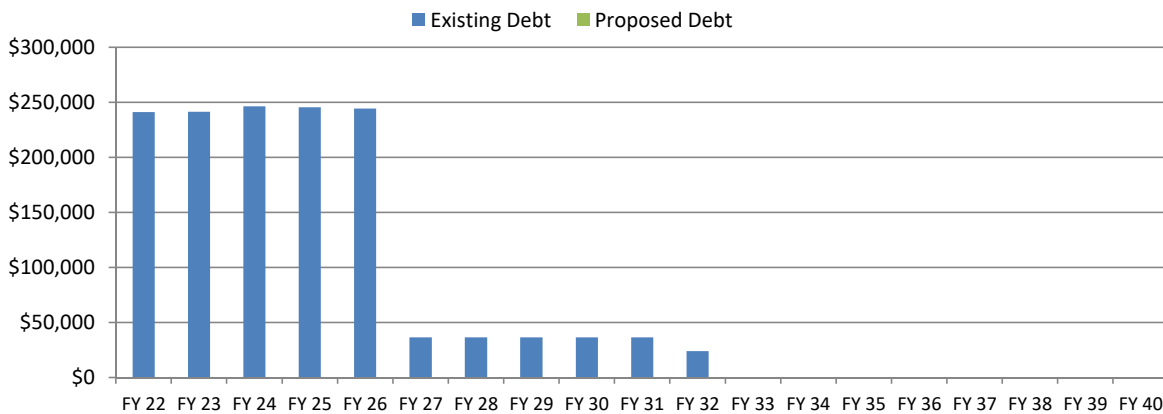
Supporting Fund / Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Airport Fund					
<u>Debt Service</u>					
n/a No Bond Projects	-	-	-	-	-
Proposed Debt	-	-	-	-	-
PAYGO (Capital & Maint.)	1,582,000	173,000	100,000	203,000	73,000
Other Operating Costs (Savings)	-	-	-	-	-
Total Operating Impacts	\$ 1,582,000	\$ 173,000	\$ 100,000	\$ 203,000	\$ 73,000

Airport Fund debt service is supported by airport rentals and leases and is paid out of the Airport Fund.

There are no bond issues for the Airport program in the Five-Year Capital Improvement Program. The only impact of the Five-Year CIP is the annual PAYGO contribution. The annual contribution fluctuates from year-to-year based on the timing of federal and state grant opportunities. These grant opportunities are the main drivers behind the timing of the projects since the Airport Fund generally only funds 2% for federally supported projects and 20% for state supported projects.

CIP Impact on Airport Fund Operating Budget

Debt Service Only



CAPITAL PROGRAM

Five-Year Capital Improvement Program - Impact on the Operating Budget

Five Year Capital Improvement Program - Impact on School Fund Operating Budget

Supporting Fund / Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
School Funds					
1301 New Dean - Building Replacement	-	-	-	-	-
Proposed Debt	-	-	-	-	-
PAYGO (Capital & Maint.)	5,190,000	3,060,000	3,000,000	3,060,000	3,000,000
Other Operating Costs (Savings)	-	-	-	-	-
Total Operating Impacts	\$ 5,190,000	\$ 3,060,000	\$ 3,000,000	\$ 3,060,000	\$ 3,000,000

School debt service is supported by tax revenue raised in the General Fund. Debt service payments are paid out of the Debt Service Fund and funded by a transfer from the School Funds.

Proposed bond issues in the Five-Year CIP includes \$59.9 million in FY 2026 for the Building Replacement of Dean School. The estimated debt service associated with this bond issue will not impact the operating budget until FY 2027 so it is not shown above.

In addition to debt service costs, the Schools Program includes an annual PAYGO contribution. The annual amount is typically \$3 million.

CIP Impact on School Fund Operating Budget



CAPITAL PROGRAM

FY 2022 Capital Projects (Dollars in Thousands)

Capital Projects are identified as projects with a cost greater than \$100,000 and a useful life exceeding 10 years. Projects that do not meet these criteria, but are capital in nature, are considered Maintenance Capital Projects. While not part of the Five-Year CIP, these projects are included in the CIP in summary schedules for informational purposes.

	<u>Proj. #</u>	<u>FY 2022</u>
Culture & Recreation		
Dean Park	C-017	675
		675
Transportation		
Grant Avenue (Lee Avenue to Wellington Road)	T-021	150
Dean Drive Extended (Existing Cul-de-sac to Animal Shelter)	T-030	536
Route 28/Nokesville Road Widening	T-042	1,359
Gateway Boulevard Sidewalk/Trail	T-083	250
Mathis Avenue	T-086	1,569
Wellington Road Shared-Use Path Gap	T-088	154
		4,018
Sewer		
Airport Infrastructure Improvements	S-026	3,800
		3,800
Water		
24" Transmission Main Replacement	W-042	12,800
Finished Water Capacity Increases	W-047	1,500
Clear-Well Addition and Roof Renovation	W-065	600
Nokesville Road Water Main Upgrade	W-066	100
		15,000
Electric		
LED Streetlight Replacement	E-034	125
Manassas Airport Distribution Improvements	E-035	300
New Electric Substation - Industrial Customer Load 1	E-040	8,000
New Electric Substation - Industrial Customer Load 2	E-041	33,700
		42,125
Stormwater		
Euclid/Sills Warehouse SW Pond Retrofit	D-009	574
Alternative Stormwater BMPs	D-033	122
		696
Airport		
Taxiway A Rehabilitation with Lighting System Upgrades	A-069	2,550
West Corporate Development Site/Drainage Improvements	A-087	1,400

CAPITAL PROGRAM

FY 2022 Capital Projects (Dollars in Thousands)

Capital Projects are identified as projects with a cost greater than \$100,000 and a useful life exceeding 10 years. Projects that do not meet these criteria, but are capital in nature, are considered Maintenance Capital Projects. While not part of the Five-Year CIP, these projects are included in the CIP in summary schedules for informational purposes.

	<u>Proj. #</u>	<u>FY 2022</u>
		<u>3,950</u>
Schools		
District Wide - Classroom Trailers	0101	250
District Wide - Technology Upgrades	0102	200
District Wide - School Bus Replacements	0103	250
District Wide - Fire Alarm System Replacement	0107	250
Central Office - Replacement	0201	4,240
		<u>5,190</u>
	TOTAL	<u><u>75,454</u></u>

CAPITAL PROGRAM

FY 2022 Capital Projects (Dollars in Thousands)

FY 2022

Funding Sources

General Fund	-
Sewer Fund	-
Water Fund	2,200
Electric Fund	575
Stormwater Fund	696
Airport Fund	1,451
School Fund	5,190
Bonds	16,600
State	901
Federal	4,874
NVTA	767
Other Sources	42,200
TOTAL	<u>75,454</u>

C-017 Dean Park

Year Introduced: 2016

Change: Increased Estimate

Associated Proj: 1301

Program Area: Culture & Recreation

Managing Dept: Community Development

Manager: L. Kilby

Plan Conformance:

PCR 9.1.2

Est. Start: 7/1/2016

Est. Complete: 6/30/2024



Description:

Enhance park facilities with additional sports fields, sports courts, and trails per the master plan and in conjunction with Dean School replacement. Prior year efforts include master planning (FY19-20) and construction of a dog park (FY20-21). Completion of site planning, engineering, and the beginning of construction is anticipated in FY22. Additional funding from park proffers and a state recreation access grant have been added in FY22.

Status: Design

Estimated Construction Start: 2022

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	264	-	-	-	-	-	-	264
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	3,500	-	-	-	-	-	-	3,500
State	-	425	-	-	-	-	-	425
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	250	-	-	-	-	-	250
Total Funding	3,764	675	-	-	-	-	-	4,439

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

T-021 Grant Avenue (Lee Avenue to Wellington Road)

Year Introduced: 2000

Change: Timeline

Associated Proj: P-015

Program Area: Transportation

Managing Dept: Engineering

Manager: L. Kilby

Plan Conformance:

MOB 6.2.1

Est. Start: 12/1/2015

Est. Complete: 6/30/2023



Description:

Reconstruct Grant Avenue between Prince William Street and Wellington Road as a two lane facility with dedicated turn lanes and median control. The project will add utility, pedestrian, and streetscape improvements and a shared use path. The second phase of this project from Prince William Street to Lee Avenue is not funded at this time.

Status: Construction

Estimated Construction Start: Fall 2021

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	680	-	-	-	-	-	-	680
Water Fund	1,535	-	-	-	-	-	-	1,535
Electric Fund	950	150	-	-	-	-	-	1,100
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	4,000	-	-	-	-	-	-	4,000
State	2,796	-	-	-	-	-	-	2,796
Federal	-	-	-	-	-	-	-	-
NVTA	900	-	-	-	-	-	-	900
Other Sources	126	-	-	-	-	-	-	126
Total Funding	10,987	150	-	-	-	-	-	11,137

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

T-030 Dean Drive Extended (Existing Cul-de-sac to Animal Shelter

Year Introduced: 2001

Change: Increased Estimate

Associated Proj: W-050

Program Area: Transportation

Managing Dept: Engineering

Manager: L. Kilby

Plan Conformance:

ED 5.3.1

Est. Start: 9/1/2015

Est. Complete: 6/30/2022



Description:

Extend and improve Dean Drive by installing curb, gutter, sidewalk, bike lanes, and drainage. This will improve access and provide economic development stimulus for industrial property along Dean Drive. It will also improve drainage at the intersection of Foster Drive and Dean Drive.

Status: Construction

Estimated Construction Start: Summer 2021

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	450	60	-	-	-	-	-	510
Land	110	-	-	-	-	-	-	110
Construction	3,334	476	-	-	-	-	-	3,810
Total Cost	3,894	536	-	-	-	-	-	4,430

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	20	-	-	-	-	-	-	20
Water Fund	80	-	-	-	-	-	-	80
Electric Fund	135	-	-	-	-	-	-	135
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	1,231	-	-	-	-	-	-	1,231
Federal	-	-	-	-	-	-	-	-
NVTA	2,233	536	-	-	-	-	-	2,769
Other Sources	195	-	-	-	-	-	-	195
Total Funding	3,894	536	-	-	-	-	-	4,430

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

T-042 Route 28 / Nokesville Road Widening

Year Introduced: 2004

Change: Increased Estimate

Associated Proj: W-042

Program Area: Transportation

Managing Dept: Engineering

Manager: S. Chung

Plan Conformance:

MOB 6.1.2

Est. Start: 3/1/2013

Est. Complete: 6/30/2022



Description:

Widen Route 28/Nokesville Road to 6 lanes and install a dual left turn lane from northbound Route 28 onto Godwin Drive. The project will also install streetlights on Route 28 from the 234 Bypass to the southern City limits and a shared use path along the north side of Route 28. Federal RSTP funding has been transferred from completed projects to cover the cost increase.

Status: Construction

Estimated Construction Start: Fall 2020

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	350	-	-	-	-	-	-	350
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	358	-	-	-	-	-	-	358
State	3,726	272	-	-	-	-	-	3,998
Federal	10,471	1,087	-	-	-	-	-	11,558
NVTA	23	-	-	-	-	-	-	23
Other Sources	3,294	-	-	-	-	-	-	3,294
Total Funding	18,222	1,359	-	-	-	-	-	19,581

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

T-083 Gateway Boulevard Sidewalk/Trail

Year Introduced: 2018

Change: Increased Estimate

Associated Proj: T-081

Program Area: Transportation

Managing Dept: Engineering

Manager: S. Chung

Plan Conformance:

MOB 6.3.5

PCR 9.5.1

Est. Start: 7/1/2017

Est. Complete: 12/31/2021

Description:

Install a new 10 foot shared use path and upgrade portions of the existing sidewalk with a 10 foot asphalt shared use path along Gateway Boulevard (north side) from Wakeman Ct. to Gateway Commercial development. Upgrade portions of the existing sidewalk along Gateway Boulevard (south side).

Status: Construction

Estimated Construction Start: Summer 2021

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	490	250	-	-	-	-	-	740
Total Funding	490	250	-	-	-	-	-	740

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

T-086 Mathis Avenue

Year Introduced: 2019

Change: Increased Estimate

Associated Proj: T-070

Program Area: Transportation

Managing Dept: Engineering

Manager: L. Kilby

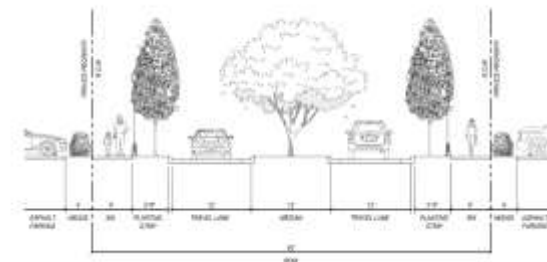
Plan Conformance:

ED 5.3.1

MOB 6.2.4

Est. Start: 7/1/2020

Est. Complete: 6/30/2023



Description:

Reconstruct Mathis Avenue from Sudley Road to Liberia Avenue as a two lane facility with a planted median and dedicated turn lanes within the existing right-of-way. This project includes streetscape and pedestrian improvements. Local funding is available to advance full design and construction of a demonstration project. Federal funds are being sought to fully fund the project.

Status: Design

Estimated Construction Start: Spring 2022

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	1,200	-	-	-	-	-	-	1,200
State	-	-	-	-	-	-	-	-
Federal	4,058	1,492	-	-	-	-	-	5,550
NVTA	400	77	-	-	-	-	-	477
Other Sources	-	-	-	-	-	-	-	-
Total Funding	5,658	1,569	-	-	-	-	-	7,227

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

T-088 Wellington Road Shared-Use Path Gap

Year Introduced: 2021

Change: Increased Estimate

Associated Proj: N/A

Program Area: Transportation

Managing Dept: Engineering

Manager: L. Kilby

Plan Conformance:

MOB 6.3.5

PCR 9.5.1

Est. Start: 11/15/2019

Est. Complete: 6/30/2024



Description:

Complete construction of the shared use path along Wellington Road Drive from Nokesville Road to Prince William Street. Conceptual design has been funded through a TLC grant from the Metropolitan Washington Council of Governments. Survey has been funded by VDOT. A Transportation Alternatives (TA) grant was awarded to fully fund this project.

Status: Design

Estimated Construction Start: Summer 2023

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	675	-	-	-	-	-	-	675
NVTA	138	154	-	-	-	-	-	292
Other Sources	31	-	-	-	-	-	-	31
Total Funding	844	154	-	-	-	-	-	998

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

S-026 Airport Infrastructure Improvements

Year Introduced: 2022
Change: New Project
Associated Proj: W-050
Program Area: Sewer
Managing Dept: Utilities
Manager: M. Nicholson

Plan Conformance:
 CFI 7.4.3

Est. Start: 7/1/2022
Est. Complete: 7/1/2024



Description:

Design, construction, and rehabilitation or replacement of existing sewer main facilities at the Airport. This project will include pressure sewer mains and lift stations to provide capacity for future development. This project will be coordinated with water upgrades.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	50	-	-	-	-	-	50
Land	-	-	-	-	-	-	-	-
Construction	-	3,750	-	-	-	-	-	3,750
Total Cost	-	3,800	-	-	-	-	-	3,800

Funding Sources: (\$ in 1,000s)								
General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	3,800	-	-	-	-	-	3,800
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	-	3,800	-	-	-	-	-	3,800

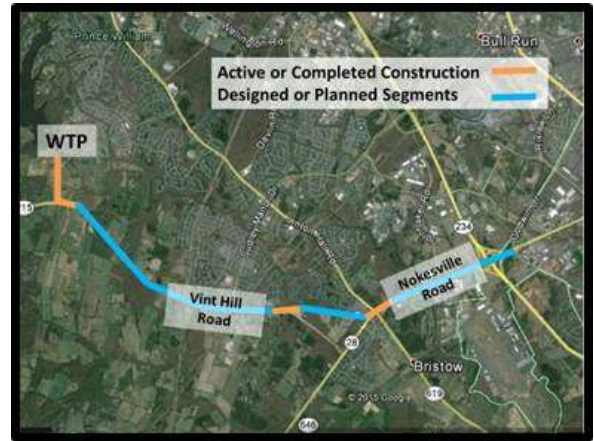
Operating Impacts: (\$ in 1,000s)								
Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	(304)	(304)	(304)	(304)	(4,864)	(6,080)
Net Revenue	-	-	(304)	(304)	(304)	(304)	(4,864)	(6,080)

W-042 24" Transmission Main Replacement

Year Introduced: 2007
Change: Funding to Earlier Year
Associated Proj: T-042
Program Area: Water
Managing Dept: Utilities
Manager: T. Dawood

Plan Conformance:
 CFI 7.4.3
 CFI 7.4.11

Est. Start: 7/1/2012
Est. Complete: 6/30/2025



Description:

Replace the existing 45-year old water transmission main with a 36" water transmission main in order to increase reliability and water transmission capacity from the Water Treatment Plant to the City. The main is approaching the ends of its useful life and experiences unacceptable hydraulic conditions during peak demand periods. Two phases have already been completed, one phase is in construction and half completed, three more phases are in design, and the last is being planned out. The project will be coordinated with both City roadway improvements and Prince William County roadway improvements.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	1,225	-	-	-	-	-	-	1,225
Land	-	-	-	-	-	-	-	-
Construction	18,935	12,800	-	-	-	-	-	31,735
Total Cost	20,160	12,800	-	-	-	-	-	32,960

Funding Sources: (\$ in 1,000s)								
General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	8,760	-	-	-	-	-	-	8,760
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	11,400	12,800	-	-	-	-	-	24,200
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	20,160	12,800	-	-	-	-	-	32,960

Operating Impacts: (\$ in 1,000s)								
Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	(1,024)	(1,024)	(1,024)	(1,024)	(16,384)	(20,480)
Net Revenue	-	-	(1,024)	(1,024)	(1,024)	(1,024)	(16,384)	(20,480)

W-047 Finished Water Capacity Increases

Year Introduced: 2009

Change: Increased Estimate

Associated Proj: W-065

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

CFI 7.4.1

CFI 7.4.3

Est. Start: 7/1/2013

Est. Complete: 6/30/2022



Description:

Due to growth in the City and increased water demands during the summer months, it is anticipated that additional capacity will be required in the future. The finished water capacity increase will increase to 18 mgd. The project will reduce reliance on Prince William County Service Authority interconnects.

Cost Estimate: (\$ in 1,000s)	Prior							Total
	Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Project
Planning	750	-	-	-	-	-	-	750
Land	-	-	-	-	-	-	-	-
Construction	2,250	1,500	-	-	-	-	-	3,750
Total Cost	3,000	1,500	-	-	-	-	-	4,500

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	750	1,500	-	-	-	-	-	2,250
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	2,250	-	-	-	-	-	-	2,250
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	3,000	1,500	-	-	-	-	-	4,500

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

W-065 Clear-Well Addition and Roof Renovation

Year Introduced: 2011

Change: Increased Estimate

Associated Proj: W-047

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

CFI 7.4.3

Est. Start: 7/1/2017

Est. Complete: 6/30/2022



Description:

Construct a second clear-well to improve reliability of the treatment plant per current design standards. With the new clear well on-line, the roof of the existing clear well will be rehabilitated due to age and observed deterioration identified during an inspection. This project ensures the ability to continue to provide water to the City's customers increasing the current 1.3 MGD capacity to 2.6 MGD.

Cost Estimate: (\$ in 1,000s)	Prior							Total
	Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Project
Planning	200	-	-	-	-	-	-	200
Land	-	-	-	-	-	-	-	-
Construction	2,200	600	-	-	-	-	-	2,800
Total Cost	2,400	600	-	-	-	-	-	3,000

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	2,400	600	-	-	-	-	-	3,000
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	2,400	600	-	-	-	-	-	3,000

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

W-066 Nokesville Road Water Main Upgrade

Year Introduced: 2012

Change: Moved From Future

Associated Proj: N/A

Program Area: Water

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

CFI 7.4.3

Est. Start: 7/1/2022

Est. Complete: 6/30/2024



Description:

Upgrade 3,200 feet of 8" steel pipe to 16" pipe on Route 28 (Foster Drive to Technology Drive). The new pipe will connect to the existing 24" transmission main and extend 3,200 feet northward to connect with the 16" line installed with the Route 28 Overpass project. This project reduces the potential for breaks in an identified trouble area and is consistent with meeting the City's initiative to improve distribution system operations.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	100	-	-	-	-	-	100
Land	-	-	-	-	-	-	-	-
Construction	-	-	450	450	-	-	-	900
Total Cost	-	100	450	450	-	-	-	1,000

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	100	450	450	-	-	-	1,000
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	-	100	450	450	-	-	-	1,000

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

E-034 LED Streetlight Replacement

Year Introduced: 2017

Change: Increased Estimate

Associated Proj: N/A

Program Area: Electric

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

CFI 7.4.10

Est. Start: 7/1/2016

Est. Complete: 6/30/2025



Description:

Upgrade all Manassas City streetlights (approx. 2,800) to LED over seven years. First year activities include planning, design, and specifications of fixtures including public input and investigation of other local municipalities that have changed to LED.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	50	-	-	-	-	-	-	50
Land	-	-	-	-	-	-	-	-
Construction	400	125	125	125	100	-	-	875
Total Cost	450	125	125	125	100	-	-	925

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	450	125	125	125	100	-	-	925
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	450	125	125	125	100	-	-	925

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

E-035 Manassas Airport Distribution Improvements

Year Introduced: 2020

Change: No change

Associated Proj: N/A

Program Area: Electric

Managing Dept: Utilities

Manager: T. Dawood

Plan Conformance:

CFI 7.4.8

Est. Start: 7/1/2019

Est. Complete: 6/30/2024



Description:

The electrical distribution system at Manassas Regional Airport has been installed over time without a coordinated plan for redundancy and reliability. This project will study the new loads planned at the Airport and develop a replacement and upgrade plan for the electrical infrastructure. This will include adding switching options for redundancy and a review and upgrade of the backup generation.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	75	-	-	-	-	-	-	75
Land	-	-	-	-	-	-	-	-
Construction	500	300	450	450	-	-	-	1,700
Total Cost	575	300	450	450	-	-	-	1,775

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	575	300	450	450	-	-	-	1,775
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	575	300	450	450	-	-	-	1,775

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

E-040 New Electric Substation - Industrial Customer Load 1

Year Introduced: 2022
Change: New Project
Associated Proj: N/A
Program Area: Electric
Managing Dept: Utilities
Manager: T. Dawood

Plan Conformance:
 CFI 7.4.8

Est. Start: 7/1/2021
Est. Complete: 6/30/2022



Description:

This is a new project to build a new, dedicated, dual-feed electric substation for the sole purpose of serving an industrial-grade customer electric load. The scope of work includes the planning, engineering, design, and build of the electric substation including high side delivery point tap fee, two (2) 50 MVA transformers, two (2) 230 KV gas circuit breakers, switchgear, control house, battery banks & back up systems, UG cables and protection relays.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	1,200	-	-	-	-	-	1,200
Land	-	-	-	-	-	-	-	-
Construction	-	6,800	-	-	-	-	-	6,800
Total Cost	-	8,000	-	-	-	-	-	8,000

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	8,000	-	-	-	-	-	8,000
Total Funding	-	8,000	-	-	-	-	-	8,000

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

E-041 New Electric Substation - Industrial Customer Load 2

Year Introduced: 2022
Change: New Project
Associated Proj: N/A
Program Area: Electric
Managing Dept: Utilities
Manager: T. Dawood

Plan Conformance:
 CFI 7.4.8

Est. Start: 7/1/2021
Est. Complete: 6/30/2022



Description:

This is a new project to build a new, 230 KV source-side ring-bus substation arrangement and a dedicated, dual-feed electric substation for the sole purpose of serving an industrial-class customer electric load. The scope of work includes the planning, engineering, design, and build of the high side, transmission-class ring electric bus, and the electric distribution substation including high side delivery point tap fee, two (2) 84 MVA transformers, two (2) 230 KV gas circuit breakers, switchgear, control house, battery banks & back up systems, UG cables and protection relays.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	1,700	-	-	-	-	-	1,700
Land	-	-	-	-	-	-	-	-
Construction	-	32,000	-	-	-	-	-	32,000
Total Cost	-	33,700	-	-	-	-	-	33,700

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	33,700	-	-	-	-	-	33,700
Total Funding	-	33,700	-	-	-	-	-	33,700

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

D-009 Euclid/Sills Warehouse SW Pond Retrofit

Year Introduced: 2000

Change: Increased Estimate

Associated Proj: N/A

Program Area: Stormwater

Managing Dept: Engineering

Manager: C. Minnick

Plan Conformance:

CFI 7.4.7

Est. Start: 7/1/2021

Est. Complete: 6/30/2023



Description:

Retrofit existing uncredited dry pond to a Level 1 Extended Detention facility that provides water quality and quantity controls. This will assist the City in meeting the Total Maximum Daily Load (TMDL) program nutrient reductions as required by VADEQ and USEPA.

Estimated Nutrient Reduction Credit for Euclid/Sill TMDL Compliance:

Total Nitrogen-56 lbs/yr; Total Phosphorus-7 lbs/yr; Total Suspended Solids-27,346 lbs per yr.

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	574	-	-	-	-	-	574
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	125	-	-	-	-	-	-	125
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	125	574	-	-	-	-	-	699

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

D-033 Alternative Stormwater BMPs

Year Introduced: 2021

Change: Increased Estimate

Associated Proj: N/A

Program Area: Stormwater

Managing Dept: Engineering

Manager: C. Minnick

Plan Conformance:

CFI 7.4.7

Est. Start: 7/1/2021

Est. Complete: 6/30/2028



Description:

Retrofit existing City owned properties with stormwater control measures using per VADEQ design requirements. These projects will build TMDL program pollution reduction credits and serve as centerpieces of the MS4 education program. Project sites have yet to be determined.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	15	22	84	50	50	-	-	221
Land	-	-	-	-	-	-	-	-
Construction	46	100	100	100	150	-	-	496
Total Cost	61	122	184	150	200	-	-	717

Funding Sources: (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	61	122	184	150	200	-	-	717
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	-	-	-	-	-	-	-
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	61	122	184	150	200	-	-	717

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

0101 District Wide - Classroom Trailers

Year Introduced: 2020
Change: No change
Associated Proj: N/A
Program Area: Schools
Managing Dept: Schools
Manager: Schools
Plan Conformance:

Est. Start: 7/1/2020
Est. Complete: 6/30/2025



Description:

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-
Construction	-	250	250	200	200	-	-	900
Total Cost	-	250	250	200	200	-	-	900
Funding Sources: (\$ in 1,000s)								
General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	250	250	200	200	-	-	900
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	-	250	250	200	200	-	-	900
Operating Impacts: (\$ in 1,000s)								
Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

0102 District Wide - Technology Upgrades

Year Introduced: 2013

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

CFI 7.2

Est. Start: 7/1/2015
Est. Complete: 6/30/2025



Description:

Information technology infrastructure upgrades based on technology planning. The systematic replacement of network infrastructure is necessary as devices reach the end of their useful lives and become obsolete. This project will encompass the refresh of routers, switches, wireless access points, and data center major systems and components.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-
Construction	-	200	200	200	200	200	200	1,200
Total Cost	-	200	200	200	200	200	200	1,200
Funding Sources: (\$ in 1,000s)								
General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	200	200	200	200	200	200	1,200
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	-	200	200	200	200	200	200	1,200
Operating Impacts: (\$ in 1,000s)								
Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

0103 District Wide - School Bus Replacements

Year Introduced: 2013

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

CFI 7.2

Est. Start: 7/1/2016

Est. Complete: 6/30/2025



Description:

Five-year replacement cycle of existing school buses as recommended by the Transportation Director.

[illegible]**Funding Sources:** (\$ in 1,000s)

General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	250	500	500	500	500	500	2,750
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	-	250	500	500	500	500	500	2,750

Operating Impacts: (\$ in 1,000s)

Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

0107 District Wide - Fire Alarm System Replacement

Year Introduced: 2021

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

CFI 7.1.5

Est. Start: 7/1/2022
Est. Complete: 6/30/2025



Description:

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-
Construction	-	250	144	450	1,375	-	1,000	3,219
Total Cost	-	250	144	450	1,375	-	1,000	3,219
Funding Sources: (\$ in 1,000s)								
General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	250	144	450	1,375	-	1,000	3,219
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	-	250	144	450	1,375	-	1,000	3,219
Operating Impacts: (\$ in 1,000s)								
Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

0201 Central Office - Replacement

Year Introduced: 2011

Change: No change

Associated Proj: N/A

Program Area: Schools

Managing Dept: Schools

Manager: Schools

Plan Conformance:

CFI 7.1.1

Est. Start: 7/1/2021

Est. Complete: 6/30/2023



Description:

A new facility for the school division central administration offices. The division is currently leasing office space at 8700 Centreville Road; the lease expires in 2023.

Cost Estimate: (\$ in 1,000s)	Prior Years	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Future	Total Project
Planning	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-
Construction	-	4,240	1,594	-	-	-	-	5,834
Total Cost	-	4,240	1,594	-	-	-	-	5,834
Funding Sources: (\$ in 1,000s)								
General Fund	-	-	-	-	-	-	-	-
Sewer Fund	-	-	-	-	-	-	-	-
Water Fund	-	-	-	-	-	-	-	-
Electric Fund	-	-	-	-	-	-	-	-
Stormwater Fund	-	-	-	-	-	-	-	-
Airport Fund	-	-	-	-	-	-	-	-
School Fund	-	4,240	1,594	-	-	-	-	5,834
Bonds	-	-	-	-	-	-	-	-
State	-	-	-	-	-	-	-	-
Federal	-	-	-	-	-	-	-	-
NVTA	-	-	-	-	-	-	-	-
Other Sources	-	-	-	-	-	-	-	-
Total Funding	-	4,240	1,594	-	-	-	-	5,834
Operating Impacts: (\$ in 1,000s)								
Revenue	-	-	-	-	-	-	-	-
Staffing (Costs) Savings	-	-	-	-	-	-	-	-
Facility (Costs) Savings	-	-	-	-	-	-	-	-
Program (Costs) Savings	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-
Net Revenue	-	-	-	-	-	-	-	-

CAPITAL PROGRAM

FY 2022 Maintenance Capital Projects (Dollars in Thousands)

Capital Projects are identified as projects with a cost greater than \$100,000 and a useful life exceeding 10 years. Projects that do not meet these criteria, but are capital in nature, are considered Maintenance Capital Projects. While not part of the Five-Year CIP, these projects are included in the CIP in summary schedules for informational purposes.

	Proj. #	FY 2021
Culture & Recreation		
Candy Factory Improvements	C-010	168
Park Improvements	C-031	200
Harris Pavilion Improvements	C-044	125
Stonewall Pool Improvements	C-046	35
		528
Public Safety		
911 Calling System	P-026	213
		213
Transportation		
Sidewalk & Bicycle Infill	T-058	258
Traffic Signal Coordination & Upgrades	T-064	100
Supplemental Street Paving	T-066	300
Wayfinding	T-089	120
Project Development	T-090	250
		1,028
Water		
Main Replacement/ Looping	W-050	515
		515
Electric		
Electric T&D Maintenance and Improvements	E-030	600
Alternative Generation Initiatives	E-031	300
Place Overhead Lines Underground (Non-Transportation)	E-033	500
Substation Capacity and Reliability Improvements	E-037	375
Circuit Automation	E-038	150
		1,925
Stormwater		
Floodplain Mapping Update Program	D-030	125
Drainage Maintenance & Construction	D-035	250
Upstream Inspections & Repairs	D-038	500
		875

CAPITAL PROGRAM

FY 2022 Maintenance Capital Projects (Dollars in Thousands)

Capital Projects are identified as projects with a cost greater than \$100,000 and a useful life exceeding 10 years. Projects that do not meet these criteria, but are capital in nature, are considered Maintenance Capital Projects. While not part of the Five-Year CIP, these projects are included in the CIP in summary schedules for informational purposes.

	<u>Proj. #</u>	<u>FY 2021</u>
Airport		
Master Plan Study	A-059	72
Midfield Ditch Restoration	A-082	65
Airfield Paving Program	A-084	100
Air Traffic Control Tower Repairs	A-088	65
Terminal Boiler Replacement	A-090	50
Airfield Marking	A-100	80
		<u>432</u>
	TOTAL	<u><u>5,516</u></u>

CAPITAL PROGRAM

FY 2022 Maintenance Capital Projects (Dollars in Thousands)

	<u>FY 2022</u>
Funding Sources	
General Fund	1,500
Sewer Fund	-
Water Fund	515
Electric Fund	1,925
Stormwater Fund	375
Airport Fund	131
School Fund	-
Bonds	-
State	241
Federal	60
NVTA	720
Other Sources	49
TOTAL	<u><u>5,516</u></u>

CAPITAL PROGRAM

FY 2022 Capital Projects Pay-Go

The Five-Year Capital Improvement program includes projects that the City has identified that meet the definition of a capital project. A capital project is a project with a total cost in excess of \$100,000 and a useful life of at least 10 years. Projects that are capital in nature but do not meet this criteria are considered maintenance capital projects.

Fund / Project	CIP #	Amount
Water Fund		
Finished Water Capacity Increases	W-047	1,500,000
Clear-Well Addition and Roof Renovation	W-065	600,000
Nokesville Road Water Main Upgrade	W-066	100,000
Total Water Fund		2,200,000
Electric Fund		
LED Streetlight Replacement	E-034	125,000
Manassas Airport Distribution Improvements	E-035	300,000
Grant Avenue (Lee Avenue to Wellington Road)	T-021	150,000
Total Electric Fund		575,000
Stormwater Fund		
Euclid/Sills Warehouse SW Pond Retrofit	D-009	574,000
Alternative Stormwater BMPs	D-033	122,000
Total Stormwater Fund		696,000
Airport Fund		
Taxiway A Rehabilitation with Lighting System Upgrades	A-069	51,000
West Corporate Development Site/Drainage Improvements	A-087	1,400,000
Total Airport Fund		1,451,000
School Funds		
District Wide - Classroom Trailers	0101	250,000
Division Wide - Technology Upgrades	0102	200,000
District Wide - School Bus Replacements	0103	250,000
District Wide - Fire Alarm System Replacement	0107	250,000
Central Office - Replacement	0201	4,240,000
Total School Funds		5,190,000
Total Local Share - FY 2022 Capital Projects Pay-Go		10,112,000

CAPITAL PROGRAM

FY 2022 Maintenance Capital Projects Pay-Go

A capital project is a project with a total cost in excess of \$100,000 and a useful life of at least 10 years. Projects that are capital in nature but do not meet this criteria are considered maintenance capital projects. While not part of the Five-Year Capital Improvement Program (CIP), summary schedules of these projects are included in the CIP for informational purposes.

Fund / Project	CIP #	Amount
General Fund		
Candy Factory Improvements	C-010	168,000
Park Improvements	C-031	159,000
Harris Pavilion Improvements	C-044	125,000
Stonewall Pool Improvements	C-046	35,000
Drainage Maintenance & Construction	D-035	250,000
Upstream Inspections & Repairs	D-038	250,000
911 Calling System	P-026	213,000
Supplemental Street Paving	T-066	300,000
Total General Fund		1,500,000
Water Fund		
Main Replacement/Looping	W-050	515,000
Total Water Fund		515,000
Electric Fund		
Electric T&D Maintenance and Improvements	E-030	600,000
Alternative Generation Initiatives	E-031	300,000
Place Overhead Lines Underground (Non-Transportation)	E-033	500,000
Substation Capacity and Reliability Improvements	E-037	375,000
Circuit Automation	E-038	150,000
Total Electric Fund		1,925,000
Stormwater Fund		
Floodplain Mapping Update Program	D-030	125,000
Upstream Inspection & Repairs	D-038	250,000
Total Stormwater Fund		375,000

CAPITAL PROGRAM

FY 2022 Maintenance Capital Projects Pay-Go

A capital project is a project with a total cost in excess of \$100,000 and a useful life of at least 10 years. Projects that are capital in nature but do not meet this criteria are considered maintenance capital projects. While not part of the Five-Year Capital Improvement Program (CIP), summary schedules of these projects are included in the CIP for informational purposes.

Fund / Project	CIP #	Amount
Airport Fund		
Master Plan Study	A-059	2,000
Midfield Ditch Restoration	A-082	13,000
Airfield Paving Program	A-084	20,000
Air Traffic Control Tower Repairs	A-088	65,000
Terminal Boiler Replacement	A-090	15,000
Airfield Marking	A-100	16,000
Total Airport Fund		131,000
Total Local Share - FY 2022 Maintenance Capital Projects Pay-Go		4,446,000

CAPITAL PROGRAM

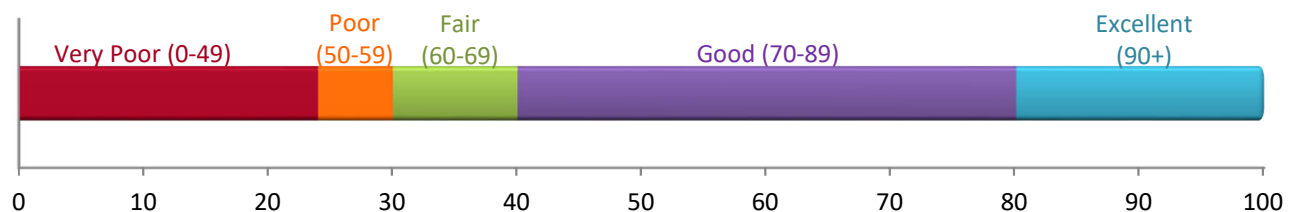
FY 2022 Street Paving

The industry standard for paving roads is every 15-20 years. The City has advanced its efforts to achieve a targeted 16.2 year paving cycle goal. The City aims to achieve an average paving rate of 60. Several factors are taken into consideration when scheduling paving including pavement ratings as determined by the CCI (Critical Condition Index).

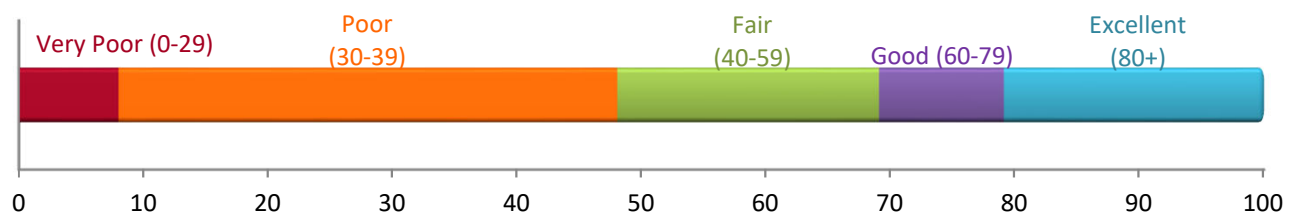
Street Name and Section	Rating	Sq. Yards	Amount
Portner Avenue (Liberia Avenue to Sudley Road)	35	10,667	129,045
Stonewall Road (Liberia Avenue to Jackson Avenue)	23	8,000	96,784
Stonewall Road (Liberia Avenue to Stonewall Park)	23	8,000	96,784
Longstreet Drive (Grant Avenue to Portner Avenue)	15	11,200	135,498
Longstreet Court (Longstreet Drive to Cul-de-sac)	57	1,724	20,862
Jackson Avenue (Stonewall Avenue to Sudley Road)	15	19,911	240,885
Linden Court (Jackson Avenue to Cul-de-sac)	15	1,689	20,432
Grant Avenue (Sudley Road to Byrd Park)	15	10,667	129,045
Concrete (associated with paving above streets)	NA	NA	430,665
Total Local Share - FY 2022 Street Paving Program			1,300,000

The City has \$1.3 million in funding for street paving/resurfacing including \$1 million in the Public Works General Fund operating budget and \$300,000 in the Supplemental Street Paving maintenance capital project.

VDOT PAVEMENT RATINGS - CCI INDEX (PRINCIPAL & MINOR ARTERIAL)



VDOT PAVEMENT RATINGS - CCI INDEX (LOCAL & COLLECTOR)



CAPITAL PROGRAM

FY 2022 Vehicles

The Vehicle Maintenance Fund purchases all vehicles for the City of Manassas **with the exception of fire engines and ambulances (apparatus)**. Factors taken into consideration for determining replacement are age, mileage, and general vehicle condition. Utility and Airport funds reimburse the Vehicle Maintenance Fund for vehicle replacements directly whereas other departments pay higher support costs to fund future vehicle replacements. The Fire and Rescue Fund fully funds the replacement of apparatus.

Description (Vehicle #)	Quantity	Unit Cost	Amount
Police Utility (PD 2, 3, 32, 69, 89, 97)	6	50,000	300,000
Police F150 Police Responder	1	42,000	42,000
Police Armored Transit Van (SWAT1)	1	150,000	150,000
Social Services Small SUV (SS 3, 4)	2	22,000	44,000
Traffic TRANTEX 20HD Line Remover (T4)	1	70,000	70,000
Streets F150 4X4 Crew Cab (S2)	1	35,000	35,000
Streets 710 Backhoe (S15)	1	212,000	212,000
Street Sweeper (S7)	1	300,000	300,000
Total Vehicle Maintenance Fund	14		1,153,000
Water F250 4X4 4 Door Short Bed (W3)	1	35,000	35,000
Water Message Board (W47)	1	25,000	25,000
Sewer F150 4X4 Extended Cab (W16)	1	32,000	32,000
Sewer Jetter Truck (W30)	1	155,000	155,000
Electric Ford Transit/Fiber Splice Upfit	1	80,000	80,000
Total Utility Funds	5		327,000
Total Local Share - FY 2022 Vehicles	19		1,480,000
Description (Vehicle #)	Quantity	Unit Cost	Amount
Ambulance/Medic Unit (501 A)	1	300,000	300,000
	1		300,000
Total Fire and Rescue - FY 2022 Apparatus	1		300,000

CAPITAL PROGRAM

FY 2022 Equipment (Purchases)

The City identifies a capital asset as a tangible or intangible asset that has an initial useful life of more than one year and has an initial cost of \$5,000 or more. The cost of a capital asset includes all necessary charges incurred to acquire or construct an asset. In the case of computers, these devices are not capitalized individually; instead the entire computer system is treated as a single capital asset.

Fund / Equipment Description	Amount
Fire and Rescue Fund	
EMS Equipment Replacement	30,000
Fire Equipment Replacement	50,000
Total Fire and Rescue Fund	80,000
 PEG Fund	
PEG Channel Broadcasting Equipment	150,000
Total PEG Fund	150,000
 Electric Fund	
Locater Equipment Device	5,000
Cable Press Tool	5,000
DC Hi-Pot Equipment	40,000
VMEA Stacks Replacement (4)	40,000
Exhaust Stacks Replacement (City portion)	10,800
Virtual Server Replacement (2)	29,000
Engine Controllers Upgrade	80,000
Airport Cisco Network Core Switch	55,000
Total Electric Fund	264,800
 Airport Fund	
Batwing Mower Replacement	33,000
Zero Turn Mower Replacement	13,000
Bush Hog and Brush Attachment Replacement	60,000
Total Airport Fund	106,000
 Solid Waste Fund	
Leaf Box Replacement	7,000
Total Solid Waste Fund	7,000
 Building Maintenance Fund	
Animal Shelter Fire Alarm	40,000
City Hall Exterior Lighting Replacement (LED)	25,000
PW&UT Exterior Lighting Replacement (LED)	25,000

CAPITAL PROGRAM

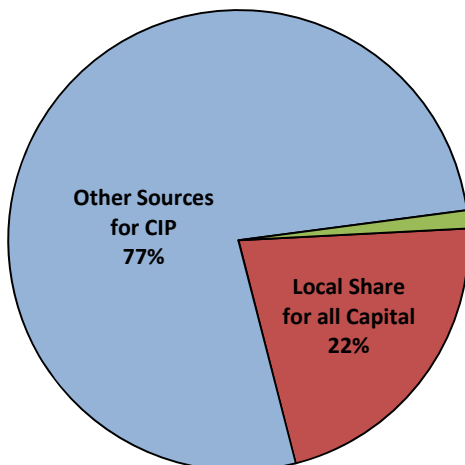
FY 2022 Equipment (Purchases)

The City identifies a capital asset as a tangible or intangible asset that has an initial useful life of more than one year and has an initial cost of \$5,000 or more. The cost of a capital asset includes all necessary charges incurred to acquire or construct an asset. In the case of computers, these devices are not capitalized individually; instead the entire computer system is treated as a single capital asset.

Fund / Equipment Description	Amount
Harris Pavilion Exterior Lighting Replacement (LED)	10,000
Total Building Maintenance Fund	100,000
Vehicle Maintenance Fund	
Anticipated Mid-Year Purchase Requests	100,000
Information Technology Fund	
Servers	30,000
Anticipated Mid-Year Purchase Requests	50,000
Total Information Technology Fund	80,000
Total Local Share - FY 2022 Capital Equipment (Purchases)	887,800

FY 2022 Capital Program Expenditure Summary

Capital Projects Pay-Go	10,112,000
Maintenance Capital Projects Pay-Go	4,146,000
Street Paving	1,300,000
Vehicles	1,480,000
Fire and Rescue Apparatus	300,000
Equipment Purchases	887,800
Total Local Share	18,225,800
Other Sources for Capital Projects	65,342,000
Other Sources for Maintenance Capital Projects	1,070,000
Virginia Railway Express	320,000
Total Other Sources	66,732,000
TOTAL	84,957,800



DEBT MANAGEMENT

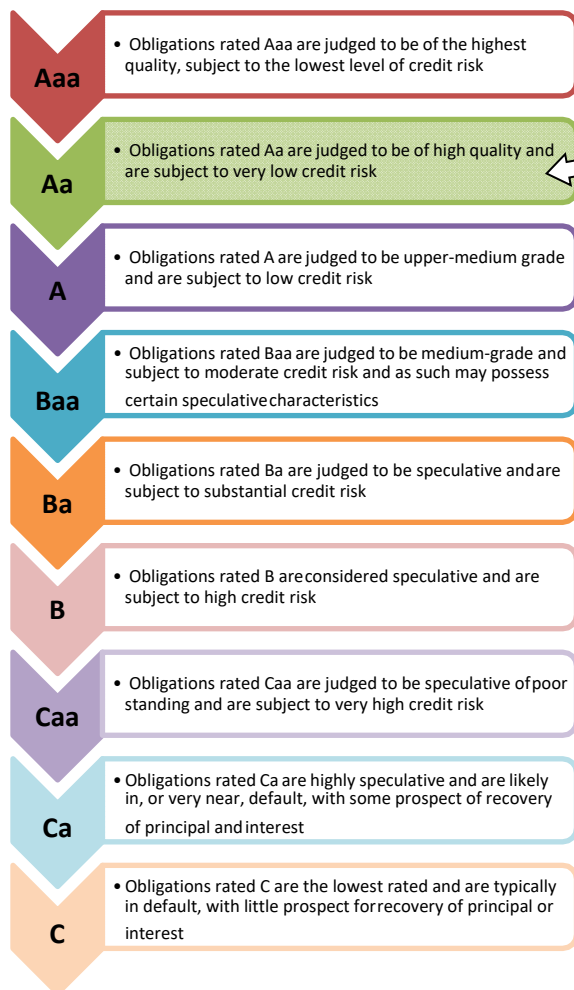
Bond Ratings

The City's General Obligation Debt ratings with Moody's Investors Service and Standard and Poor's Rating Services are **Aa1 (Moody's Investor Services)** and **AAA (Standard & Poor's)**.

The ratings were affirmed in May 2021. Remarks from the ratings include:

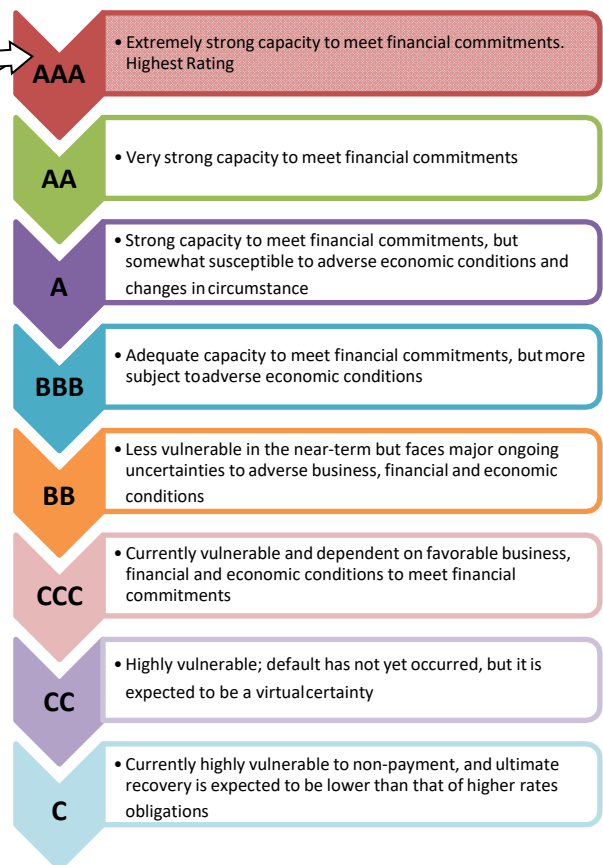
- Strong economy, with access to a broad and diverse metropolitan statistical area
- Very strong management, with strong financial policies and practices
- Strong budgetary performance, with operating surpluses in the general fund and at the total governmental fund level in fiscal 2020
- Very strong budgetary flexibility, with an available fund balance in fiscal 2020 of 45% of operating expenditures
- Very strong liquidity, with total government available cash at 123.6% of total governmental fund expenditures and 20.8x governmental debt service, and access to external liquidity considered strong
- Very strong institutional framework

Moody's Investor Services Rating Scales



Moody's appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa through Caa. Modifier 1 indicates that the obligation ranks in the higher end of its generic rating category.

Standard & Poor's Rating Scale



S&P ratings may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the major category rating.

City's S&P Rating
AAA

City's Moody's Rating
Aa1

DEBT MANAGEMENT

Debt Limits

STATE DEBT LIMITS

Pursuant to the Constitution of Virginia and the Public Finance Act of 1991, a City in Virginia is authorized to issue bonds and notes secured by the pledge of its full faith and credit. The Constitution and the Public Finance Act limit the indebtedness which may be incurred by cities to 10% of the assessed valuation of real estate subject to local taxation.

Legal Debt Margin Calculation for June 30, 2021

Assessed value of taxable real property as of January 1, 2020	\$	5,403,085,240
Debt Limit - 10% of assessed valuation		540,308,524
Direct Debt outstanding chargeable to debt limit at June 30, 2021		128,886,413
Legal Debt Margin Remaining	\$	411,422,111

Total Net Debt Applicable to Limit as a Percent of Debt Limit

<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>
16.87%	24.26%	21.54%	23.97%	21.60%	29.70%	27.28%	23.85%

CITY DEBT LIMITS (PER POLICY)

The City's Debt Policy is outlined as part of it's Financial Policies.

- Net debt as a percentage of estimated market value of taxable property shall not exceed 3.0%. Net debt is defined as any and all debt that is tax-supported. Should this ratio exceed 3%, staff must request an exception from the City Council stating the justification and expected duration of the policy exemption.

As of June 30, 2020, this ratio was 1.50%, which is within the policy limit.

- Debt service expenditures a percentage of total governmental fund expenditures shall not exceed 15.0%. Should this ratio exceed 15%, staff must request an exception from the City Council stating the justification and expected duration of the policy exception.

As of June 30, 2020, this ratio was 6.76%, which is within the policy limit.

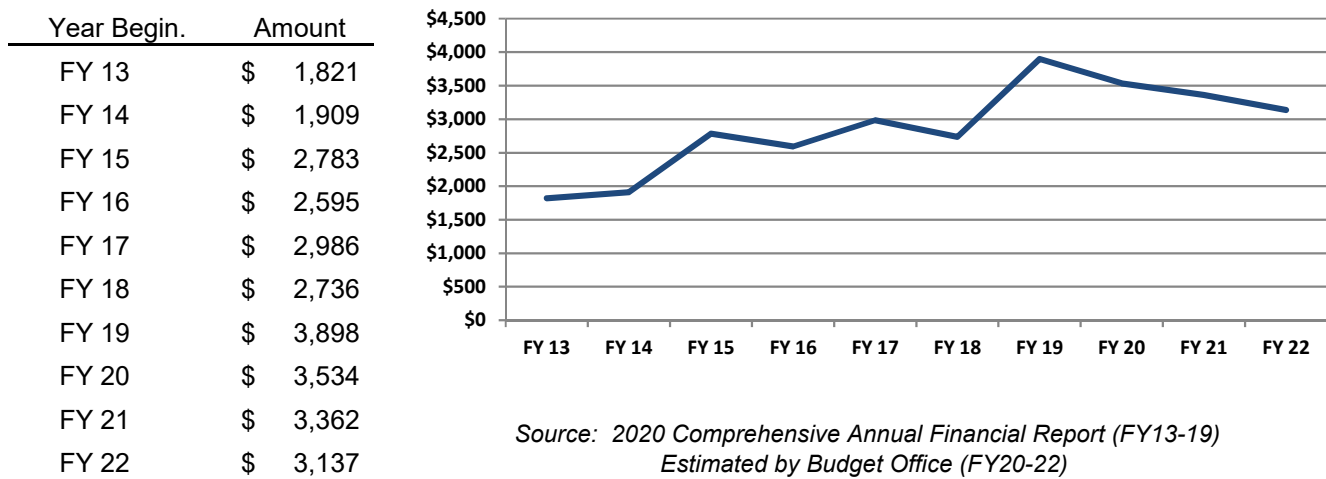
- Payout of aggregate outstanding tax-supported debt principal shall be no less than 50% repaid in 10 years. Should this ratio fall below 50%, staff must request an exception from the City Council stating the justification and expected duration of the policy exception.

As of June 30, 2020, the 10-year payout ratio was 64.4%, which is within the policy limit.

DEBT MANAGEMENT

Debt Limits

OUTSTANDING DEBT SUPPORTED BY TAXPAYERS PER CAPITA



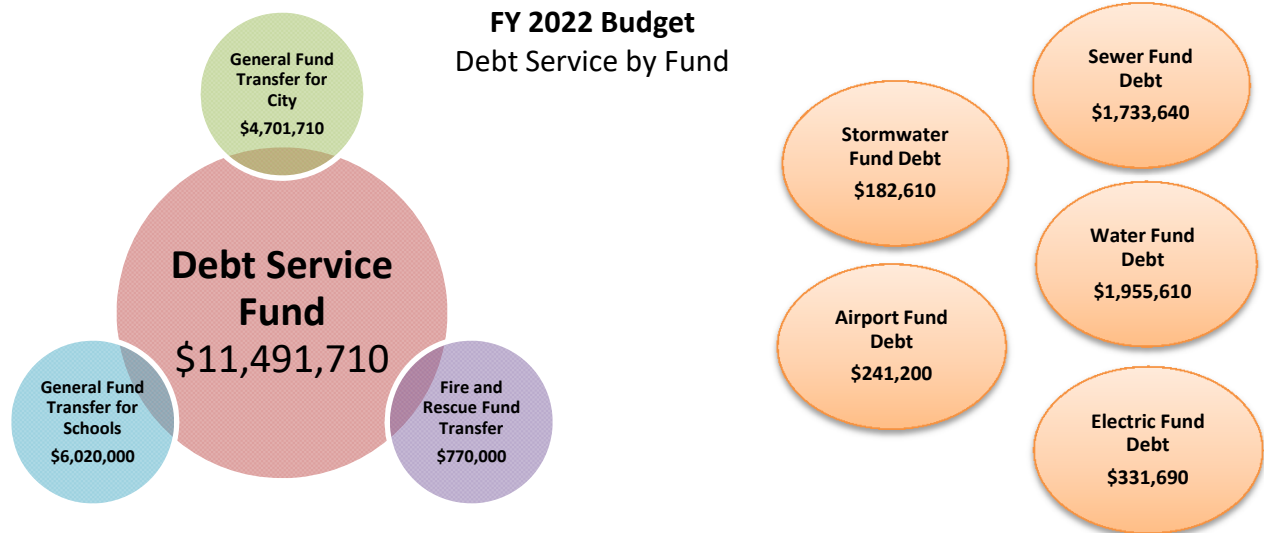
Debt per capita above reflects all general obligation bonds, both tax-supported and enterprise fund supported in accordance with the reporting requirements of the Comprehensive Annual Financial Report).

DEBT MANAGEMENT

Debt Service

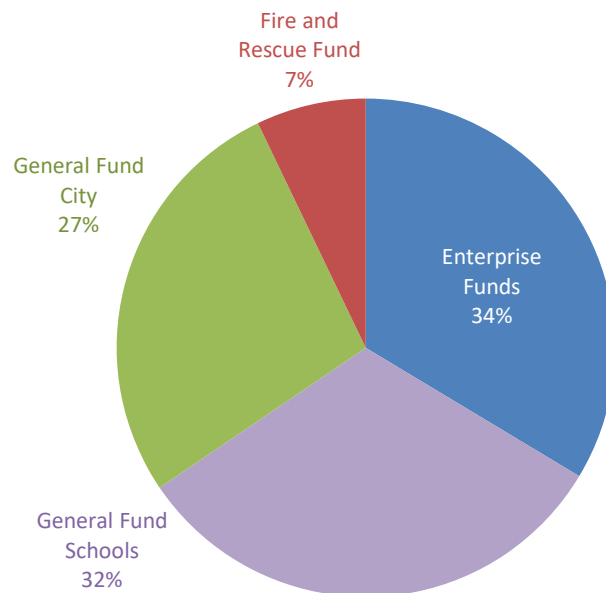
DEBT OVERVIEW

The City will have \$128,886,413 (principal only) of outstanding bonded debt as of June 30, 2021. The Enterprise Funds (Sewer, Water, Electric, Airport, and Stormwater) pay the debt service on the bonds related to their function. Of the total debt principal, \$42,536,213, or 33%, is enterprise debt. The remaining debt principal of \$86,350,200 is supported by the taxpayers via the General Fund for City and Schools and the Fire and Rescue Fund. This tax-supported debt is paid out of the Debt Service Fund through transfers from the respective governmental funds and enterprise debt is paid directly from the appropriate enterprise funds. The estimated per capita outstanding bond principal supported by taxpayers as of June 30, 2021 will be \$3,137 - of this \$2,102 is related to the tax-supported debt of governmental funds.



OUTSTANDING DEBT

	Principal	Interest	Total
FY 2022	9,481,029	5,100,958	14,581,987
FY 2023	9,546,507	4,634,146	14,180,653
FY 2024	9,851,992	4,158,270	14,010,262
FY 2025	10,157,485	3,662,352	13,819,837
FY 2026	8,922,985	3,203,310	12,126,295
FY 2027	7,653,493	2,803,601	10,457,094
FY 2028	7,924,009	2,438,367	10,362,376
FY 2029	6,944,533	2,113,476	9,058,009
FY 2030	7,125,065	1,826,384	8,951,449
FY 2031	6,955,605	1,536,386	8,491,991
FY 2032	6,843,710	1,278,582	8,122,292
FY 2033	7,000,000	1,042,328	8,042,328
FY 2034	7,165,000	810,031	7,975,031
FY 2035	6,395,000	583,925	6,978,925
FY 2036	4,040,000	438,463	4,478,463
FY 2037	4,100,000	327,537	4,427,537
FY 2038	2,875,000	227,657	3,102,657
FY 2039	2,930,000	138,750	3,068,750
FY 2040	2,975,000	46,484	3,021,484
	\$128,886,413	\$36,371,008	\$165,257,421



DEBT MANAGEMENT

Debt Service

City Projects - General Fund Debt Service

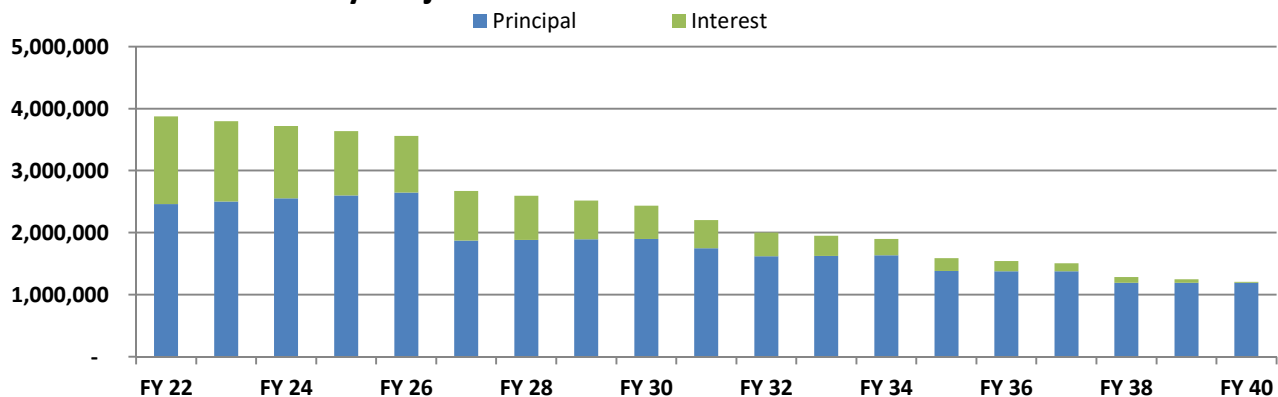
The General Fund Debt Service for City Projects for FY 2022 will be \$3,871,831 reflecting a decrease of \$78,704 or 2% from prior year debt service. This decrease is due annual roll-off. General Fund debt service is tax-supported debt. The General Fund will transfer \$4,701,710 for City projects to the Debt Service Fund in FY 2022, approximately \$830K above current debt service to build future debt capacity.

FY 2022 General Fund debt issue payments for City projects are as follows:

	<u>Amount</u>	<u>Pay Off Year</u>
Series 2010 D	\$ 167,790	FY 2025
Series 2016 Refunding	\$ 811,050	FY 2026
Series 2010 VML/VACO	\$ 187,456	FY 2030
Series 2014 C Refunding	\$ 38,454	FY 2031
Series 2014 A	\$ 267,662	FY 2034
Series 2016	\$ 278,656	FY 2037
Series 2019	\$ 2,120,763	FY 2040

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	2,458,250	1,413,581	3,871,831	FY 2031	1,750,720	450,713	2,201,433
FY 2023	2,504,010	1,290,908	3,794,918	FY 2032	1,617,520	383,005	2,000,525
FY 2024	2,554,180	1,165,910	3,720,090	FY 2033	1,625,980	323,404	1,949,384
FY 2025	2,599,940	1,036,561	3,636,501	FY 2034	1,634,440	263,287	1,897,727
FY 2026	2,648,880	908,706	3,557,586	FY 2035	1,380,000	208,319	1,588,319
FY 2027	1,871,230	798,439	2,669,669	FY 2036	1,375,000	169,125	1,544,125
FY 2028	1,883,320	709,270	2,592,590	FY 2037	1,375,000	130,006	1,505,006
FY 2029	1,894,670	622,099	2,516,769	FY 2038	1,190,000	92,225	1,282,225
FY 2030	1,900,160	536,214	2,436,374	FY 2039	1,190,000	55,781	1,245,781
				FY 2040	1,190,000	18,594	1,208,594
	20,314,640	8,481,688	28,796,328	Total	14,328,660	2,094,458	16,423,118
					\$ 34,643,300	\$ 10,576,146	\$ 45,219,446

City Projects - General Fund Debt Service



DEBT MANAGEMENT

Debt Service

Schools Projects - General Fund Debt Service

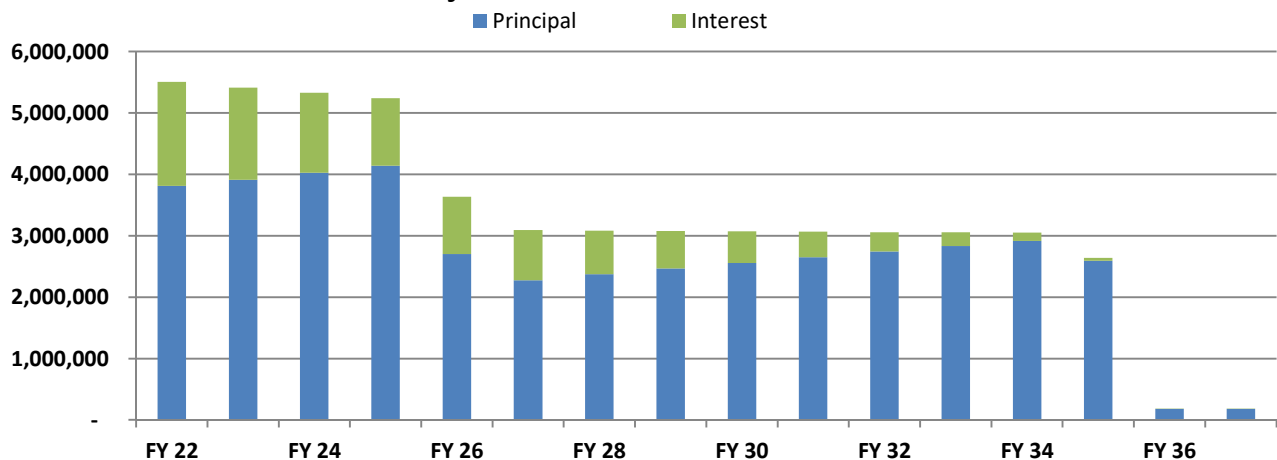
The General Fund Debt Service for Schools Projects for FY 2022 will be \$5,504,361, reflecting a decrease of \$89,310 or 1.6% from prior year debt service. This decrease is due annual roll-off. General Fund debt service is tax-supported debt. The General Fund will transfer \$6,020,000 for Schools projects to the Debt Service Fund in FY 2022, approximately \$515K above current debt service to build future debt capacity.

FY 2022 General Fund debt issue payments for Schools projects are as follows:

	<u>Amount</u>	<u>Pay Off Year</u>
Series 2010 D - Refunding	\$ 1,832,250	FY 2025
Series 2016 - Refunding	\$ 540,700	FY 2026
Series 2014 A	\$ 409,086	FY 2034
Series 2014 C	\$ 2,444,325	FY 2035
Series 2016	\$ 278,000	FY 2037

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	3,810,600	1,693,761	5,504,361	FY 2030	2,556,955	513,948	3,070,903
FY 2023	3,910,530	1,501,056	5,411,586	FY 2031	2,649,885	416,805	3,066,690
FY 2024	4,024,615	1,303,055	5,327,670	FY 2032	2,740,660	315,559	3,056,219
FY 2025	4,139,545	1,099,274	5,238,819	FY 2033	2,833,590	221,487	3,055,077
FY 2026	2,699,165	934,513	3,633,678	FY 2034	2,916,520	135,453	3,051,973
FY 2027	2,273,940	816,618	3,090,558	FY 2035	2,590,000	46,275	2,636,275
FY 2028	2,372,560	708,900	3,081,460	FY 2036	180,000	6,075	186,075
FY 2029	2,468,335	608,123	3,076,458	FY 2037	180,000	2,025	182,025
	25,699,290	8,665,300	34,364,590		16,647,610	1,657,627	18,305,237
				Total	\$ 42,346,900	\$ 10,322,927	\$ 52,669,827

Schools Projects - General Fund Debt Service



DEBT MANAGEMENT

Debt Service

Fire and Rescue Fund Debt Service

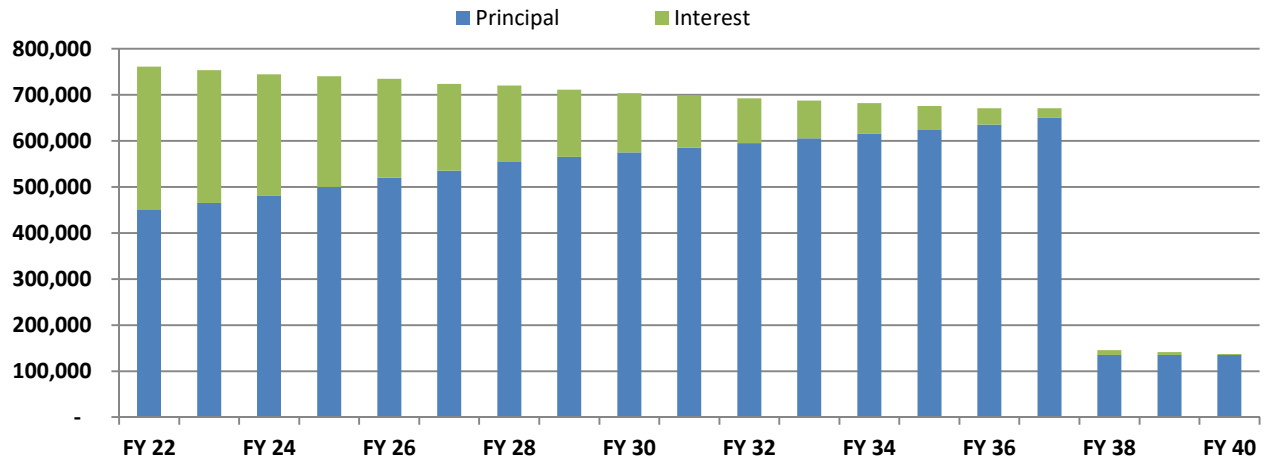
The Fire and Rescue Fund Debt Service for FY 2022 will be \$761,069, reflecting a decrease of \$7,675 or 1% from prior year debt service. This decrease is due annual roll-off. Fire and Rescue Fund debt service is tax-supported debt.

FY 2022 Fire and Rescue Fund debt issue payments are as follows:

	<u>Amount</u>	<u>Pay Off Year</u>
Series 2016	\$ 521,275	FY 2037
Series 2019	\$ 239,794	FY 2040

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	450,000	311,069	761,069	FY 2031	585,000	112,394	697,394
FY 2023	465,000	288,194	753,194	FY 2032	595,000	97,219	692,219
FY 2024	480,000	264,569	744,569	FY 2033	605,000	82,225	687,225
FY 2025	500,000	240,069	740,069	FY 2034	615,000	66,431	681,431
FY 2026	520,000	214,569	734,569	FY 2035	625,000	50,794	675,794
FY 2027	535,000	188,194	723,194	FY 2036	635,000	35,691	670,691
FY 2028	555,000	165,144	720,144	FY 2037	650,000	20,306	670,306
FY 2029	565,000	145,644	710,644	FY 2038	135,000	10,463	145,463
FY 2030	575,000	128,044	703,044	FY 2039	135,000	6,328	141,328
				FY 2040	135,000	2,109	137,109
	4,645,000	1,945,496	6,590,496		4,715,000	483,960	5,198,960
				Total	\$ 9,360,000	\$ 2,429,456	\$ 11,789,456

Fire and Rescue Fund Debt Service



DEBT MANAGEMENT

Debt Service

Sewer Fund Debt Service

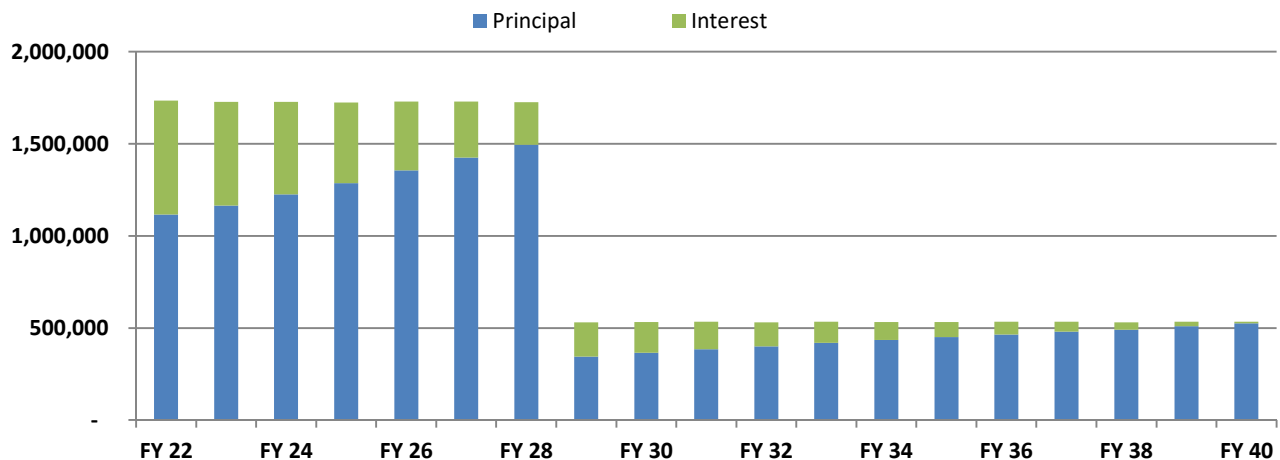
The Sewer Fund Debt Service for FY 2022 will be \$1,733,638, reflecting a decrease of \$3,363 or 0.2% from prior year debt service. This decrease is due annual roll-off. Sewer Fund debt service is supported by sewer utility rates. The debt service schedule for the Sewer Fund does not include UOSA Debt.

FY 2022 Sewer Fund debt issue payments are as follows:

	<u>Amount</u>	<u>Pay Off Year</u>
Series 2014 C - Refunding	\$ 1,201,500	FY 2028
Series 2019	\$ 532,138	FY 2040

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	1,115,000	618,638	1,733,638	FY 2031	385,000	148,138	533,138
FY 2023	1,165,000	561,638	1,726,638	FY 2032	400,000	130,513	530,513
FY 2024	1,225,000	501,888	1,726,888	FY 2033	420,000	114,113	534,113
FY 2025	1,285,000	439,138	1,724,138	FY 2034	435,000	97,013	532,013
FY 2026	1,355,000	373,138	1,728,138	FY 2035	450,000	81,563	531,563
FY 2027	1,425,000	303,638	1,728,638	FY 2036	465,000	68,128	533,128
FY 2028	1,495,000	230,638	1,725,638	FY 2037	480,000	54,244	534,244
FY 2029	345,000	184,638	529,638	FY 2038	490,000	39,694	529,694
FY 2030	365,000	166,888	531,888	FY 2039	510,000	24,375	534,375
				FY 2040	525,000	8,203	533,203
	9,775,000	3,380,238	13,155,238	Total	4,560,000	765,981	5,325,981
					\$ 14,335,000	\$ 4,146,219	\$ 18,481,219

Sewer Fund Debt Service



DEBT MANAGEMENT

Debt Service

Water Fund Debt Service

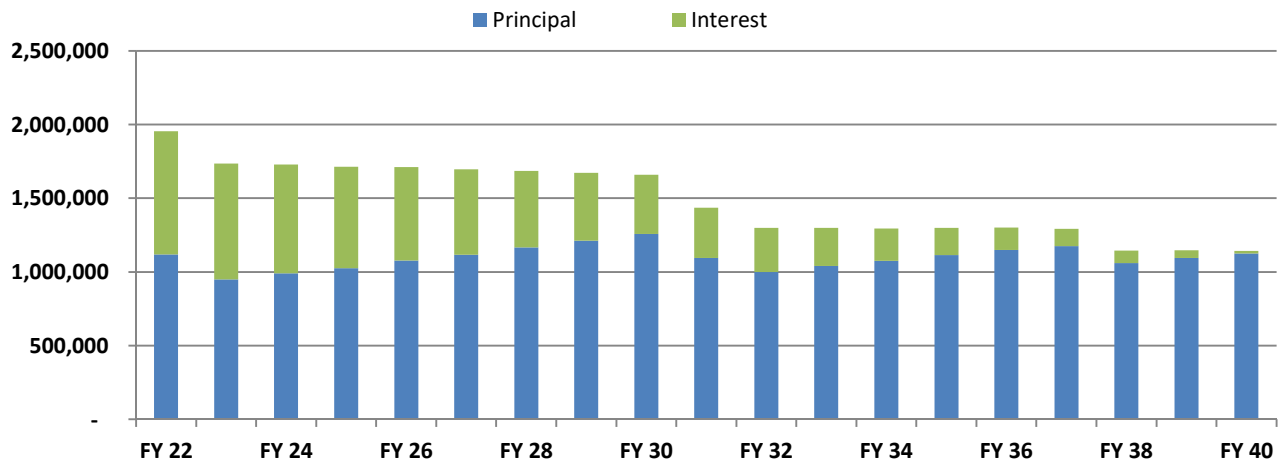
The Water Fund Debt Service for FY 2022 will be \$1,955,601, reflecting a decrease of \$8,999 or 0.5% from prior year debt service. This decrease is due annual roll-off. Water Fund debt service is supported by water utility rates.

FY 2022 Water Fund debt issue payments are as follows:

	<u>Amount</u>	<u>Pay Off Year</u>
Series 2009 VRA - Refunding	\$ 215,381	FY 2022
Series 2010 D	\$ 161,210	FY 2025
Series 2010 VML/VACO	\$ 248,488	FY 2030
Series 2014 C - Refunding	\$ 36,946	FY 2031
Series 2016	\$ 150,525	FY 2037
Series 2019	\$ 1,143,050	FY 2040

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	1,118,950	836,651	1,955,601	FY 2031	1,094,750	341,320	1,436,070
FY 2023	949,650	786,358	1,736,008	FY 2032	1,000,000	298,000	1,298,000
FY 2024	990,350	739,462	1,729,812	FY 2033	1,040,000	259,863	1,299,863
FY 2025	1,026,050	688,114	1,714,164	FY 2034	1,075,000	220,100	1,295,100
FY 2026	1,076,750	634,623	1,711,373	FY 2035	1,115,000	183,644	1,298,644
FY 2027	1,117,450	577,815	1,695,265	FY 2036	1,150,000	151,400	1,301,400
FY 2028	1,166,000	520,030	1,686,030	FY 2037	1,175,000	118,256	1,293,256
FY 2029	1,211,700	461,655	1,673,355	FY 2038	1,060,000	85,275	1,145,275
FY 2030	1,256,850	402,314	1,659,164	FY 2039	1,095,000	52,266	1,147,266
				FY 2040	1,125,000	17,578	1,142,578
	9,913,750	5,647,021	15,560,771		10,929,750	1,727,701	12,657,451
				Total	\$ 20,843,500	\$ 7,374,722	\$ 28,218,222

Water Fund Debt Service



DEBT MANAGEMENT

Debt Service

Electric Fund Debt Service

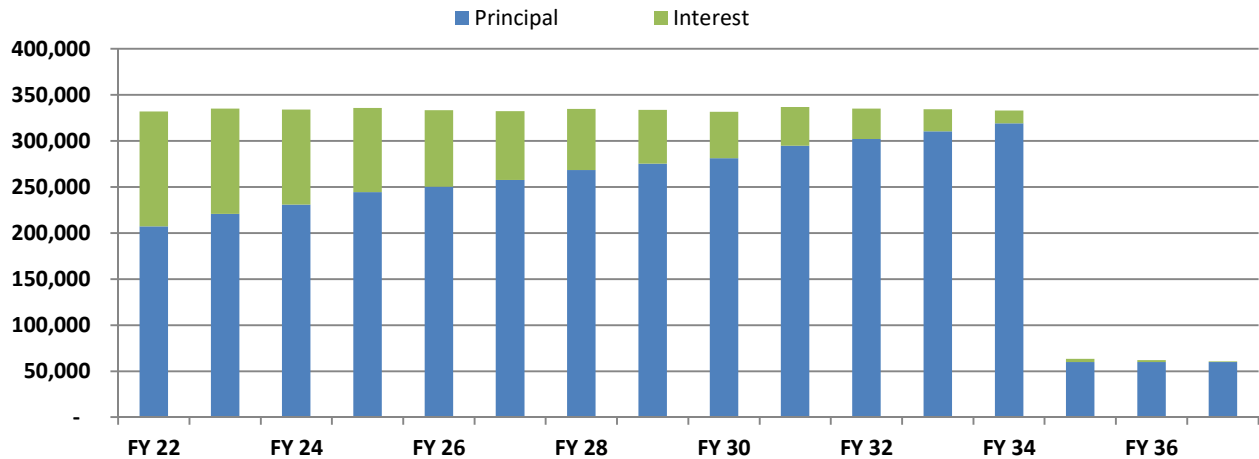
The Electric Fund Debt Service for FY 2022 will be \$331,689, reflecting a decrease of \$2,144 or 0.6% from the prior year debt service. Electric Fund debt service is supported by electric utility rates.

FY 2022 Electric Fund debt issue payments are as follows:

	<u>Amount</u>	<u>Pay Off Year</u>
Series 2014 A	\$ 272,408	FY 2034
Series 2016	\$ 59,281	FY 2037

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	207,200	124,489	331,689	FY 2030	281,035	50,357	331,392
FY 2023	220,810	114,004	334,814	FY 2031	294,645	42,087	336,732
FY 2024	230,855	102,964	333,819	FY 2032	301,820	33,199	335,019
FY 2025	244,465	91,296	335,761	FY 2033	310,430	23,734	334,164
FY 2026	250,205	83,062	333,267	FY 2034	319,040	13,910	332,950
FY 2027	257,380	74,656	332,036	FY 2035	60,000	3,375	63,375
FY 2028	268,120	66,409	334,529	FY 2036	60,000	2,025	62,025
FY 2029	275,295	58,366	333,661	FY 2037	60,000	675	60,675
	1,954,330	715,246	2,669,576		1,686,970	169,362	1,856,332
				Total	\$ 3,641,300	\$ 884,608	\$ 4,525,908

Electric Fund Debt Service



DEBT MANAGEMENT

Debt Service

Stormwater Fund Debt Service

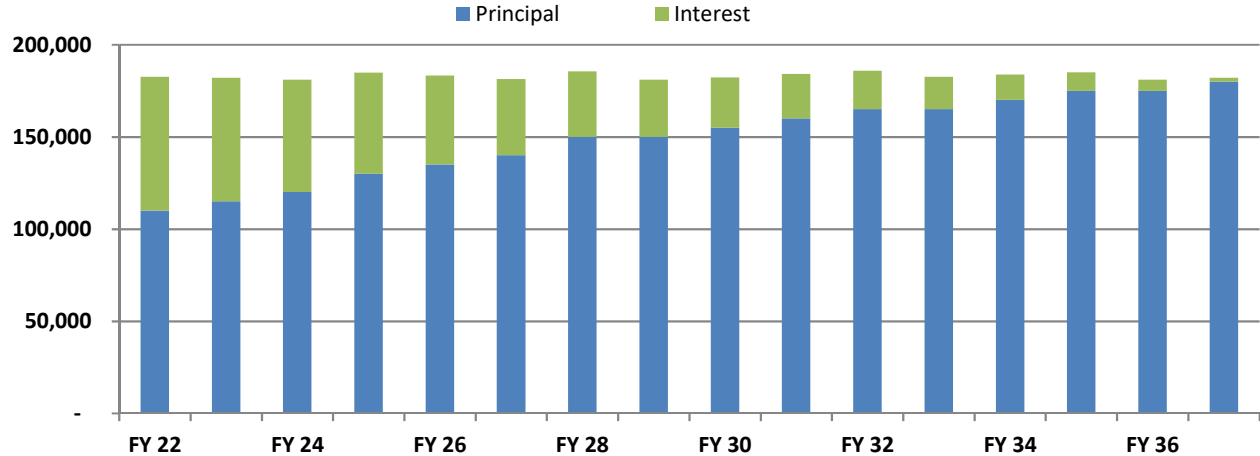
The Stormwater Fund Debt Service for FY 2022 will be \$182,406, reflecting an a minor increase of \$1,200 or 0.7% from prior year debt service. Stormwater Fund debt service is supported by stormwater utility fees.

FY 2022 Stormwater Fund debt issue payments are as follows:

Series 2016 Amount Pay Off Year
\$ 182,606 FY 2037

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	110,000	72,606	182,606	FY 2030	155,000	27,306	182,306
FY 2023	115,000	66,981	181,981	FY 2031	160,000	24,156	184,156
FY 2024	120,000	61,106	181,106	FY 2032	165,000	20,906	185,906
FY 2025	130,000	54,856	184,856	FY 2033	165,000	17,503	182,503
FY 2026	135,000	48,231	183,231	FY 2034	170,000	13,838	183,838
FY 2027	140,000	41,356	181,356	FY 2035	175,000	9,956	184,956
FY 2028	150,000	35,606	185,606	FY 2036	175,000	6,019	181,019
FY 2029	150,000	31,106	181,106	FY 2037	180,000	2,025	182,025
	1,050,000	411,848	1,461,848		1,345,000	121,709	1,466,709
Total				\$	2,395,000	\$ 533,557	\$ 2,928,557

Stormwater Fund Debt Service



DEBT MANAGEMENT

Debt Service

Airport Fund Debt Service

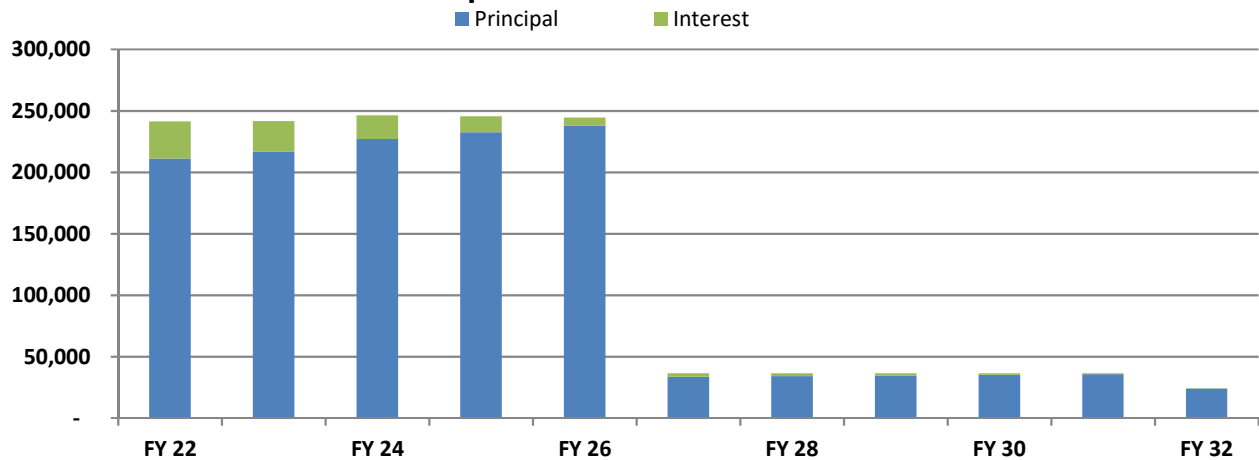
The Airport Fund Debt Service for FY 2022 will be \$241,193, reflecting a minor increase of \$782 or 0.3% from the prior year debt service. Airport Fund debt services is supported by Airport rentals and leases.

FY 2022 Airport Fund debt issue payments are as follows:

	<u>Amount</u>	<u>Pay Off Year</u>
Series 2014 D - Refunding	\$ 204,814	FY 2026
Series 2016 VRA	\$ 36,379	FY 2032

Year	Principal	Interest	Total	Year	Principal	Interest	Total
FY 2022	211,029	30,164	241,193	FY 2027	33,493	2,886	36,379
FY 2023	216,507	25,008	241,515	FY 2028	34,009	2,370	36,379
FY 2024	226,992	19,316	246,308	FY 2029	34,533	1,846	36,379
FY 2025	232,485	13,044	245,529	FY 2030	35,065	1,314	36,379
FY 2026	237,985	6,469	244,454	FY 2031	35,605	774	36,379
				FY 2032	23,710	182	23,892
	1,124,998	94,001	1,218,999		196,415	9,372	205,787
				Total	\$ 1,321,413	\$ 103,373	\$ 1,424,786

Airport Fund Debt Service



DEBT MANAGEMENT

Bond Descriptions

BOND SERIES 2009 VRA REFUNDING - RATE: 4.13 – 5.13%; ISSUED: \$1,850,000

General Obligation Bonds - the proceeds were issued to refund the Bond Series 2002 VRA obligations of the City.

BOND SERIES 2010 VML/VACO - RATE: 2.00 – 6.067%; ISSUED: \$5,115,000

General Obligation Recovery Zone Economic Development Bonds - the proceeds were issued to finance transportation projects including the VRE Parking Garage and Wellington Road; General Obligation Build America Bonds - the proceeds were issued to finance improvements to the Water Treatment Plant; General Obligation Bonds - the proceeds were issued to finance improvements to the Water Treatment Plant.

BOND SERIES 2010 D & D REFUNDING - RATE: 2.00 – 5.00%; ISSUED: \$21,545,000

General Obligation Bonds – the proceeds were issued to finance improvements of roads, public safety, and the City's Water System and to refund the Bond Series 2004 obligations of the City.

BOND SERIES 2014 A - RATE: 3.00 – 5.00%; ISSUED: \$13,525,000

General Obligation Bonds – the proceeds were issued to finance capital improvements for the City including transportation and drainage projects, School capital improvements, and Electric capital improvements including expansion of the Airport substation.

BOND SERIES 2014 C & C REFUNDING - RATE: 2.00 - 5.00%; ISSUED: \$46,895,000

General Obligation Bonds – the proceeds were issued to finance the construction of a new elementary school and to refund a portion of the Bond Series 2005 B, 2007 VML/VACO, and 2010 D obligations of the City.

BOND SERIES 2014 D REFUNDING - RATE: 0.50 – 3.00%; ISSUED: \$1,700,000

Taxable General Obligation Bonds – the proceeds were issued to refund a portion of the Bond Series 2005 C obligations of the City.

BOND SERIES 2016 & REFUNDING - RATE: 2.00 - 5.00%; ISSUED: \$29,495,000

General Obligation Bonds – the proceeds were issued to finance the acquisition, construction, extension, renovation and equipping of public school, public safety, utility and general governmental improvements and to refund a portion of the Bond Series 2014 A and 2014 B.

BOND SERIES 2016 VRA - RATE: 1.5344%; ISSUED: \$2,010,000

General Obligation Bonds – the proceeds were issued to finance improvements at the City's Airport.

BOND SERIES 2019 - RATE: 2.875 - 5.00%; ISSUED: \$50,200,000

General Obligation Bonds – the proceeds were issued to finance the acquisition, construction, extension, replacement, renovation and equipping of public safety, parks, culture and recreation, transportation, utility and general governmental improvements.