

CAPITAL IMPROVEMENT PROGRAM - 2021-2025
SUMMARY OF RESOURCE REQUIREMENTS AND FUNDING SOURCES

<i>Amounts in thousands</i>	Previous Allocations	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total	Total All Years
RESOURCE REQUIREMENTS								
General Government								
Community Facilities	\$ 50,389	\$ 12,877	\$ 17,345	\$ 4,360	\$ 6,960	\$ 6,600	\$ 48,142	\$ 98,531
Economic Development	7,285	13,476	2,692	714	730	710	18,322	25,606
Education	79,624	13,000	13,000	13,000	56,500	73,000	168,500	248,124
Information Technology	10,846	4,165	5,990	5,000	5,204	9,860	30,219	41,066
Parks, Recreation & Tourism	18,725	5,810	5,650	5,405	6,310	4,247	27,422	46,147
Public Safety	19,123	5,002	8,993	3,076	7,011	7,670	31,752	50,875
Transportation	53,869	28,570	46,485	13,724	1,200	11,027	101,004	154,873
Subtotal	\$ 239,862	\$ 82,900	\$ 100,155	\$ 45,279	\$ 83,915	\$ 113,114	\$ 425,361	\$ 665,223
Enterprise Funds								
Public Utilities Capital	\$ 71,690	\$ 38,714	\$ 20,772	\$ 27,845	\$ 24,250	\$ 18,370	\$ 129,951	\$ 201,641
Storm Water Capital	23,601	6,000	4,300	2,250	2,100	1,900	16,550	40,151
Transportation - CTS	200	140	3,670	3,630	4,600	-	12,040	12,240
Subtotal	\$ 95,491	\$ 44,854	\$ 28,742	\$ 33,725	\$ 30,950	\$ 20,270	\$ 158,541	\$ 254,032
Total Resource Requirements	\$ 335,353	\$ 127,754	\$ 128,897	\$ 79,004	\$ 114,865	\$ 133,384	\$ 583,902	\$ 919,255
FUNDING SOURCES								
Cash								
Lockbox City	25,413	7,570	10,644	10,088	10,955	8,920	48,177	73,590
Lockbox Schools	41,097	7,000	7,000	7,000	10,500	14,500	46,000	87,097
Other City Funds	1,490	610	610	610	610	610	3,050	4,540
Greenbrier TIF	\$ 200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200
South Norfolk TIF	4,156	11,400	8,000	-	-	-	19,400	23,556
Stormwater Fund	22,401	2,400	2,700	2,250	2,100	1,900	11,350	33,751
Public Utilities Fund	39,267	9,390	11,790	15,845	17,250	14,870	69,145	108,412
Fund Balance - Capital Fund	8,883	1,300	1,000	500	500	500	3,800	12,683
Fund Balance - CTS Fund	200	140	3,670	3,630	4,600	-	12,040	12,240
Fund Balance - General Fund	36,885	16,219	13,058	6,025	3,575	6,680	45,556	82,441
Fund Balance - IT Fund	1,400	1,085	1,000	1,000	-	-	3,085	4,485
Fund Balance - Other Funds	5,373	7,397	140	250	250	250	8,287	13,660
Fund Balance - Stormwater	1,200	1,300	-	-	-	-	1,300	2,500
Subtotal City Cash	\$ 187,965	\$ 65,811	\$ 59,612	\$ 47,198	\$ 50,340	\$ 48,230	\$ 271,190	\$ 459,155
Grant proceeds	3,765	10,170	170	170	-	1,002	11,512	15,277
Developer Proffers	-	-	500	-	-	-	500	500
Virginia Dept. of Transportation	22,420	12,373	28,152	10,536	900	6,577	58,537	80,957
Subtotal Cash - All Sources	\$ 214,151	\$ 88,354	\$ 88,434	\$ 57,904	\$ 51,240	\$ 55,809	\$ 341,739	\$ 555,890
Debt Financing								
G.O. Debt - City	\$ 48,348	\$ 9,271	\$ 22,811	\$ 3,100	\$ 6,625	\$ 11,575	\$ 53,382	\$ 101,729
G.O. Debt - Short Term Financing	1,905	-	-	-	-	-	-	1,905
G.O. Debt - South Norfolk TIF	-	4,805	2,670	-	-	-	7,475	7,475
G.O. Debt - VPSA	37,527	6,000	6,000	6,000	46,000	58,500	122,500	160,027
Revenue Bonds - Utility Fund	33,423	19,324	8,982	12,000	11,000	7,500	58,806	92,229
Subtotal - Debt Financing	\$ 121,202	\$ 39,400	\$ 40,463	\$ 21,100	\$ 63,625	\$ 77,575	\$ 242,163	\$ 363,365
Total Funding Sources	\$ 335,353	\$ 127,754	\$ 128,897	\$ 79,004	\$ 114,865	\$ 133,384	\$ 583,902	\$ 919,255

**CAPITAL IMPROVEMENT PLAN 2021-2025
SUMMARY OF RESOURCE REQUIREMENTS**

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total
Community Facilities							
ADA Facility and Infrastructure Retrofits	01-220	50,000	50,000	-	-	-	100,000
CIBH - Expansion and Renovation of 224 Great Bridge Blvd. Building	01-230	5,997,000	-	-	-	-	5,997,000
Facilities - High Priority Renewal and Replacements - Phase III	02-150	2,180,000	2,295,000	2,335,000	2,360,000	2,400,000	11,570,000
Joint City/School Garage Facility	48-230	4,000,000	-	-	-	-	4,000,000
Juvenile Services Building Replacement	01-240	-	-	500,000	-	-	500,000
LED Lighting Retrofits - Various Buildings	02-240	100,000	100,000	100,000	100,000	-	400,000
Libraries - Music Shelving Replacement	03-230	-	-	175,000	-	-	175,000
Libraries - Refresh and Reconfigure Shelving, Staff Lounges, and Food Preparation Areas	02-250	-	-	650,000	-	-	650,000
Libraries - Refresh Indian River, Major Hillard, and Russell Memorial Libraries	03-250	-	-	-	300,000	-	300,000
Libraries - Shelving Replacement	04-230	-	-	400,000	-	-	400,000
Municipal Center Master Plan Update	81-250	150,000	-	-	-	-	150,000
Municipal Parking Lots and Sidewalks II	04-150	150,000	150,000	200,000	200,000	200,000	900,000
Public Works/Public Utilities Operating Facilities Replacement/Relocation	01-150	-	14,500,000	-	4,000,000	4,000,000	22,500,000
Security Improvements - Various Facilities	06-240	250,000	250,000	-	-	-	500,000
Community Facilities Total		12,877,000	17,345,000	4,360,000	6,960,000	6,600,000	48,142,000
Economic Development							
Airport Authority Improvements and Expansion - Phase II	53-230	60,500	82,000	4,000	20,000	-	166,500
Great Bridge Village Plan Implementation Seed Funding	04-250	100,000	100,000	100,000	100,000	100,000	500,000
Industrial Waterfront Study	06-250	400,000	400,000	-	-	-	800,000
Open Space and Agriculture Preservation (OSAP) Program	05-230	610,000	610,000	610,000	610,000	610,000	3,050,000
South Norfolk Municipal Building	51-230	12,305,000	-	-	-	-	12,305,000
Tidewater Community College - Science/Engineering Building	40-200	-	1,500,000	-	-	-	1,500,000
Economic Development Total		13,475,500	2,692,000	714,000	730,000	710,000	18,321,500

**CAPITAL IMPROVEMENT PLAN 2021-2025
SUMMARY OF RESOURCE REQUIREMENTS**

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total
Education							
Modernization/Renovation of Schools (to be determined by School Board)	32-190	-	-	-	43,500,000	60,000,000	103,500,000
Non-routine Renewal & Replacement Projects - Schools	03-180	11,000,000	11,000,000	11,000,000	11,000,000	11,000,000	55,000,000
School Bus - Replacement	29-190	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
School Technology - Replacement	30-190	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Education Total		13,000,000	13,000,000	13,000,000	56,500,000	73,000,000	168,500,000
Information Technology							
ArcGIS Enterprise Implementation	08-250	200,000	-	-	-	-	200,000
Citizen Experience Study - City Digital Content	10-240	250,000	250,000	-	-	-	500,000
Data Access Governance Design and Implementation	09-250	285,000	20,000	-	-	-	305,000
Data Center Equipment Replacement	12-240	-	1,500,000	1,500,000	1,500,000	1,650,000	6,150,000
DIT Building Space and Condition Study	10-250	40,000	-	-	-	-	40,000
Enterprise Application Modernization (formerly Citywide ERP Solution)	06-220	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000
Enterprise Cybersecurity Incident Responses Planning and Policy Review	11-250	120,000	-	-	-	-	120,000
Enterprise KRONOS Upgrade - Phase II	09-170	135,000	-	-	-	-	135,000
Enterprise Wide Technology III	08-210	-	250,000	250,000	250,000	250,000	1,000,000
Enterprise-wide Next Generation Identity Access Management	09-230	100,000	80,000	50,000	-	-	230,000
Fiber Optic - Conduit Installation - Mt. Pleasant Road Cost Share	15-250	60,000	400,000	-	-	-	460,000
Fire/EMS - Mobile Data Terminal Replacements	13-240	-	200,000	-	-	-	200,000
HR - Learning Management System	14-250	-	100,000	-	-	-	100,000
Laserfiche Upgrade	13-210	-	100,000	-	100,000	-	200,000
Libraries - Data Center Technology and Switching Replacement	10-230	-	-	600,000	-	-	600,000
Libraries - Expansion of Services	13-250	-	-	-	354,000	300,000	654,000
Libraries - Technology Upgrade/Replacement - Phase III	10-220	160,000	90,000	-	-	-	250,000
Network Equipment Replacement - Phase II	12-220	600,000	600,000	600,000	600,000	660,000	3,060,000
PeopleSoft Update Manager & PeopleTools Upgrade	11-220	-	400,000	-	400,000	-	800,000
Regional Broadband Ring	35-240	-	-	-	-	5,000,000	5,000,000
Standardize Interactive Displays - Conference Rooms and Digital Signs	16-250	50,000	-	-	-	-	50,000
Telephone System - Replace Existing PBX with VoIP	14-210	165,170	-	-	-	-	165,170
Information Technology Total		4,165,170	5,990,000	5,000,000	5,204,000	9,860,000	30,219,170

CAPITAL IMPROVEMENT PLAN 2021-2025
SUMMARY OF RESOURCE REQUIREMENTS

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total
Parks, Recreation & Tourism							
ADA Facility Compliance	22-190	75,000	75,000	75,000	75,000	75,000	375,000
Athletic Field Improvements	16-190	380,000	380,000	380,000	380,000	380,000	1,900,000
Centerville Park Phase II	17-250	-	-	-	-	-	-
Chesapeake Multipurpose Stadium	50-230	-	-	-	-	-	-
Commonwealth/Seaboard Multi-City Rail Trail (Western Branch Rail to Trail)	18-210	-	-	-	-	550,000	550,000
Conference Center Renovation	12-200	300,000	140,000	-	-	-	440,000
Deep Creek Park - Phase II	20-250	-	-	-	-	-	-
Dismal Swamp Canal Trail - Phase III (Renovation, Restroom, Parking Lot)	19-210	-	-	-	-	452,000	452,000
Heritage Park - Phase II	14-240	-	-	-	1,525,000	-	1,525,000
Heron Landing Park on the Indian River	15-240	225,000	225,000	300,000	-	-	750,000
New Athletic Field Lighting	21-250	500,000	500,000	500,000	500,000	-	2,000,000
Northwest River Park Improvements	11-230	1,000,000	1,000,000	1,000,000	1,000,000	-	4,000,000
Oak Grove Lake Park - Phase II	16-240	-	-	320,000	-	-	320,000
Open Space and Recreation Program	47-200	1,000,000	1,000,000	500,000	500,000	500,000	3,500,000
Park Program Improvements	18-190	300,000	300,000	300,000	300,000	300,000	1,500,000
Parking Lot Improvements	21-190	90,000	90,000	90,000	90,000	90,000	450,000
Parks and Recreation - Improvements, Additions & Expansions	12-230	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	8,000,000
Recreational Facility Improvements	19-190	300,000	300,000	300,000	300,000	300,000	1,500,000
Security Improvements - Parks, Recreation and Tourism	24-190	40,000	40,000	40,000	40,000	-	160,000
Parks, Recreation & Tourism Total		5,810,000	5,650,000	5,405,000	6,310,000	4,247,000	27,422,000

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Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total
Public Safety							
Dock Landing Fire Station #11 - Replace	28-190	640,500	6,211,000	-	-	-	6,851,500
Emergency Power Supply - Shelters	80-250	170,000	170,000	170,000	-	-	510,000
Fire - Bio Medical Replacement	23-250	-	-	-	-	3,500,000	3,500,000
Fire - Enclosed Air Trailer	24-250	150,000	-	-	-	-	150,000
Fire - Hazardous Materials Monitoring and Detection Systems	17-240	-	-	-	265,000	-	265,000
Fire - Hydraulic Rescue Tools	25-250	-	-	-	-	335,000	335,000
Fire - Mass Care / Mass Sheltering Upgrade	26-250	-	-	-	150,000	-	150,000
Fire - Multipurpose Tow/Rescue Vehicle Replacement	18-240	-	-	-	500,000	-	500,000
Fire - Portable Radio Replacement	27-250	-	-	-	2,679,000	-	2,679,000
Fire - Structural/Trench Shoring System Replacement	19-240	-	-	-	150,000	-	150,000
Fire - Thermal Imaging Cameras (TICs)/Forward-Looking Infrared Radar (FLIR) Units	28-250	-	-	-	-	395,000	395,000
Fire - Vehicle Replacement	39-200	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000
Fire Station #16 - Joint Fire & Police Station - Grassfield/Scenic Pkwy.	17-220	500,000	-	-	-	-	500,000
Fire Station #4 Replacement	16-220	-	-	-	-	975,000	975,000
Fire/Police - Base Station Radio Replacement	29-250	-	-	250,000	250,000	250,000	750,000
Jail and Sheriff HQ - Renewal and Replacements	26-210	506,000	472,000	516,000	577,000	625,000	2,696,000
P25 Radio System Upgrade	30-250	1,100,000	-	-	-	-	1,100,000
Police - 911 Recording Solution Replacement	31-250	-	-	-	300,000	-	300,000
Police - Electronic Summons Collection Equipment	34-240	80,000	-	-	-	-	80,000
Police - Portable Radio Replacement	34-250	-	550,000	550,000	550,000	-	1,650,000
Police & Sheriff - Virtual Firearm Training/Safety Awareness System	22-240	40,000	-	-	-	-	40,000
Police and Fire - Door Card Control Panel Replacement and Fire Station Access	13-230	23,500	-	-	-	-	23,500
Police, Fire, and Sheriff - New World App	15-230	102,000	-	-	-	-	102,000
Public Safety Facility Issue Studies - Feasibility & Conceptual Design	16-230	-	-	-	-	-	-
Public Safety Two Factor Authentication System Upgrade	17-230	100,000	-	-	-	-	100,000
Sheriff - Radio Replacement	43-250	90,000	90,000	90,000	90,000	90,000	450,000
Public Safety Total		5,002,000	8,993,000	3,076,000	7,011,000	7,670,000	31,752,000

**CAPITAL IMPROVEMENT PLAN 2021-2025
SUMMARY OF RESOURCE REQUIREMENTS**

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total
Public Utilities Capital							
Automated Meter Reading Equipment and Software	53-120	4,000,000	4,000,000	4,000,000	2,000,000	-	14,000,000
Cavalier Elevated and Ground Storage Tanks Rehabilitation	19-220	-	-	-	-	1,595,000	1,595,000
Chesapeake Connector Water Pipeline	20-230	-	2,000,000	-	-	-	2,000,000
Deep Creek Pump Station Upgrade	20-140	-	-	-	-	-	-
Fentress NALF Water Transmission Main	37-240	10,000,000	-	-	-	-	10,000,000
Gravity Sewer Renewal: Bainbridge Blvd. Basin (HRSD Project Area)	16-170	-	-	-	-	-	-
Great Bridge Force Main Redundancy Study	21-230	-	-	300,000	-	-	300,000
Lake Gaston Pipeline - Capital Cost Sharing with Virginia Beach	22-230	340,000	340,000	350,000	350,000	375,000	1,755,000
Lake Gaston WTP - Membrane Replacement - Phase II	21-130	-	2,200,000	-	-	-	2,200,000
Lake Gaston WTP - Miscellaneous Modifications	37-200	-	-	500,000	2,700,000	1,000,000	4,200,000
Lake Gaston WTP - Strategic Treatment and Facility Development Plan	38-200	-	-	-	-	-	-
Norfolk Highlands Elevated Tank Rehabilitation	28-200	-	-	-	-	-	-
Northwest River Lakes & Pump Station	23-230	-	-	1,000,000	-	1,000,000	2,000,000
Northwest River WTP - Miscellaneous Modifications	19-130	500,000	1,000,000	2,095,000	4,700,000	1,000,000	9,295,000
Northwest River WTP - Switchgear Replacement	20-220	-	5,982,000	-	-	-	5,982,000
Oak Grove Elevated Tank Rehabilitation	47-250	-	-	-	-	1,500,000	1,500,000
Pump Stations: Replace Electric Control Panels	48-250	-	-	-	-	500,000	500,000
Red Top Raw Water Transmission Main	39-120	2,717,000	-	-	-	-	2,717,000
Replacement of Lead Service Lines	24-230	-	-	500,000	500,000	500,000	1,500,000
Sewer Lines: West Road Force Main	78-250	-	-	7,500,000	-	-	7,500,000
Sewer Pump Station Safety Improvements	35-200	500,000	500,000	500,000	500,000	500,000	2,500,000
Sewer Pump Station: Replacement and Rehabilitation	21-220	-	-	2,700,000	3,000,000	3,000,000	8,700,000
Sewer Renewal: Additional Consent Order Capital Requirement	05-180	1,000,000	3,000,000	4,500,000	7,000,000	3,500,000	19,000,000
Sewer Renewal: Raleigh Place (Pump Station #7 Basin)	33-170	3,800,000	-	-	-	-	3,800,000
South Central Water Transmission Main & Loop - Phase I	31-240	15,607,000	-	-	-	-	15,607,000
Supervisory Control and Data Acquisition (SCADA) Upgrade	23-240	-	1,500,000	1,500,000	1,500,000	1,500,000	6,000,000
Water Renewals: Waterline Upgrades - Phase II	14-160	-	-	2,000,000	2,000,000	2,000,000	6,000,000
Water System Planning and Upgrades	33-210	250,000	250,000	400,000	-	400,000	1,300,000
Public Utilities Capital Total		38,714,000	20,772,000	27,845,000	24,250,000	18,370,000	129,951,000

**CAPITAL IMPROVEMENT PLAN 2021-2025
SUMMARY OF RESOURCE REQUIREMENTS**

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total
Storm Water Capital							
Arboretum Channel Improvements	49-250	300,000	-	-	-	-	300,000
BMP Restoration Citywide	73-120	100,000	100,000	100,000	-	-	300,000
Chesapeake Ave. Area Drainage Improvements	50-250	2,000,000	1,600,000	-	-	-	3,600,000
Citywide Outfall Re-Grading and Restoration	03-160	400,000	300,000	300,000	200,000	300,000	1,500,000
Citywide System Rehab	43-170	200,000	200,000	200,000	300,000	200,000	1,100,000
Citywide Undesignated Drainage - Phase III	07-150	50,000	50,000	50,000	-	-	150,000
Cooper's Ditch Re-Grading, Phase II	51-250	1,000,000	-	-	-	-	1,000,000
Drum Creek Farms Drainage Improvements - Phase II	24-240	-	-	-	1,400,000	-	1,400,000
Hickory Ridge Outfall Improvements	27-230	-	200,000	650,000	-	-	850,000
John Street Area Outfall Improvements	25-240	800,000	-	-	-	-	800,000
Loxley Gardens Drainage Improvements - Phase II	23-220	-	1,100,000	-	-	-	1,100,000
Major Equipment Purchases - PW Stormwater Division	07-180	200,000	200,000	200,000	-	-	600,000
Neighborhood Drainage Improvements - Phase II	08-150	500,000	200,000	200,000	200,000	200,000	1,300,000
Norfolk Highlands Drainage Improvements	52-250	-	-	-	-	1,200,000	1,200,000
Parkview Area Drainage Improvements	28-230	250,000	250,000	350,000	-	-	850,000
Stormwater Mapping & Master Drainage Plan III	10-150	100,000	-	100,000	-	-	200,000
Stormwater Quality Program - Phase II	11-150	100,000	100,000	100,000	-	-	300,000
Storm Water Capital Total		6,000,000	4,300,000	2,250,000	2,100,000	1,900,000	16,550,000
Transportation							
Advanced Right-of-Way Acquisition Program	30-230	200,000	200,000	200,000	-	-	600,000
Battlefield Blvd. at Volvo Pkwy. - Intersection Improvements Phase II	62-250	-	-	-	282,500	1,192,500	1,475,000
Cedar Rd. Widening	57-250	-	-	-	-	400,000	400,000
Centerville Turnpike Bridge Rehabilitation	03-190	86,000	-	-	-	-	86,000
Citywide Guardrail Installation & Replacement	25-220	100,000	100,000	-	-	-	200,000
Citywide Sidewalk Installation	26-220	300,000	300,000	300,000	300,000	-	1,200,000
Citywide Traffic Signal Retiming - Phase I	31-220	115,000	-	-	-	-	115,000
Citywide Traffic Signal Retiming - Phase II	62-230	415,000	-	-	-	-	415,000
Citywide Trails and Open Space Connectivity Plan	58-250	-	187,500	187,500	-	-	375,000
CTS - Chesapeake Expressway Renewals - Phase III - Variable Message Boards	32-230	-	720,000	-	-	-	720,000
CTS - Chesapeake Expressway Repaving	28-240	-	2,950,000	3,300,000	4,600,000	-	10,850,000
CTS - Dominion Blvd. Veterans Bridge Toll System Upgrades	56-250	-	-	330,000	-	-	330,000

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SUMMARY OF RESOURCE REQUIREMENTS

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5-Year Total
CTS - Dominion Blvd./Veterans Bridge - Closed Circuit Television (CCTV)	34-230	140,000	-	-	-	-	140,000
Edwin Drive Improvements	29-240	1,282,000	-	-	-	-	1,282,000
Elbow Road Bridge Replacement	38-240	213,000	5,186,000	536,000	-	-	5,935,000
Elbow Road Center Lane Addition	59-250	-	-	-	-	250,000	250,000
Elbow Road Widening - Phase II	35-230	2,860,000	-	-	-	-	2,860,000
Flashing Yellow Arrow (FYA) Installation - Providence Rd./Mt. Pleasant Rd.	61-230	162,000	-	-	-	-	162,000
Freeman Ave. Railroad Overpass Bridge	09-180	1,500,000	23,925,000	-	-	-	25,425,000
George Washington Hwy. (US Route 17) Widening	37-230	-	-	-	-	2,000,000	2,000,000
Greentree Road Extension	60-250	-	-	-	-	500,000	500,000
Johnston Road Ditch and Shoulder Improvements	30-240	5,000,000	5,000,000	12,500,000	-	-	22,500,000
Johnstown Road at Battlefield Blvd - Right Turn Lane	67-250	750,000	-	-	-	300,000	1,050,000
Master Transportation Plan Update	63-250	250,000	-	-	-	-	250,000
Mt. Pleasant Rd. Widening - Phase II	42-230	2,800,000	5,950,000	-	-	-	8,750,000
Mt. Pleasant Road at Great Bridge Bypass - Interchange Improvement	61-250	-	-	-	617,000	5,384,000	6,001,000
Mt. Pleasant Road. Widening - Right-of-Way Acquisition	69-250	-	-	-	-	600,000	600,000
Non-Arterial Street Repaving	07-190	2,000,000	-	-	-	-	2,000,000
Number 10 Lane Bridge - Replacement/Repairs	58-230	-	1,090,000	-	-	-	1,090,000
Oaklette Bridge (Indian River Road) - Replacement/Repairs	56-230	1,200,000	3,446,000	-	-	-	4,646,000
Old Mill Rd. Bridge - Replacement/Repairs	57-230	1,016,000	-	-	-	-	1,016,000
Pavement Condition Study	65-250	300,000	-	-	-	-	300,000
Repair & Maintenance Roads and Bridges - Phase IV	37-210	500,000	500,000	-	-	-	1,000,000
Rural Roads Safety Improvement Program	41-210	500,000	-	-	-	-	500,000
Traffic Signal Reconstruction Project	70-250	1,155,000	-	-	-	-	1,155,000
Traffic Signals and Intersection Improvements - Phase III	28-220	100,000	100,000	-	-	-	200,000
Triple Decker Bridge Rehabilitation	46-170	5,766,000	-	-	-	-	5,766,000
Weiss Lane Widening	71-250	-	500,000	-	-	400,000	900,000
Transportation Total		28,710,000	50,154,500	17,353,500	5,799,500	11,026,500	113,044,000
Grand Total		127,753,670	128,896,500	79,003,500	114,864,500	133,383,500	583,901,670

CAPITAL IMPROVEMENT PLAN 2021-2025 FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
Security Improvements - Parks, Recreation and Tourism	24-190	40,000	40,000	40,000	40,000	-	160,000
Tidewater Community College - Science/Engineering Building	40-200	-	1,500,000	-	-	-	1,500,000
Traffic Signal Reconstruction Project	70-250	577,500	-	-	-	-	577,500
Weiss Lane Widening	71-250	-	-	-	-	400,000	400,000
Municipal Center Master Plan Update	81-250	150,000	-	-	-	-	150,000
Enterprise-wide Next Generation Identity Access Management	09-230	100,000	80,000	50,000	-	-	230,000
Cash - Lockbox City Total		7,570,000	10,644,000	10,088,000	10,955,000	8,920,000	48,177,000
Cash - Lockbox Schools							
Modernization/Renovation of Schools (to be determined by School Board)	32-190	-	-	-	3,500,000	7,500,000	11,000,000
Non-routine Renewal & Replacement Projects - Schools	03-180	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000
School Bus - Replacement	29-190	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
School Technology - Replacement	30-190	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Cash - Lockbox Schools Total		7,000,000	7,000,000	7,000,000	10,500,000	14,500,000	46,000,000
Cash - Other City Funds							
Open Space and Agriculture Preservation (OSAP) Program	05-230	610,000	610,000	610,000	610,000	610,000	3,050,000
Cash - Other City Funds Total		610,000	610,000	610,000	610,000	610,000	3,050,000
Cash - South Norfolk TIF							
Chesapeake Ave. Area Drainage Improvements	50-250	2,000,000	1,600,000	-	-	-	3,600,000
Industrial Waterfront Study	06-250	400,000	400,000	-	-	-	800,000
South Norfolk Municipal Building	51-230	7,500,000	-	-	-	-	7,500,000
Freeman Ave. Railroad Overpass Bridge	09-180	1,500,000	6,000,000	-	-	-	7,500,000
Cash - South Norfolk TIF Total		11,400,000	8,000,000	-	-	-	19,400,000

CAPITAL IMPROVEMENT PLAN 2021-2025
FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
Cash - Stormwater							
BMP Restoration Citywide	73-120	100,000	100,000	100,000	-	-	300,000
Citywide Outfall Re-Grading and Restoration	03-160	400,000	300,000	300,000	200,000	300,000	1,500,000
Citywide System Rehab	43-170	200,000	200,000	200,000	300,000	200,000	1,100,000
Citywide Undesignated Drainage - Phase III	07-150	50,000	50,000	50,000	-	-	150,000
Drum Creek Farms Drainage Improvements - Phase II	24-240	-	-	-	1,400,000	-	1,400,000
Hickory Ridge Outfall Improvements	27-230	-	200,000	650,000	-	-	850,000
John Street Area Outfall Improvements	25-240	500,000	-	-	-	-	500,000
Loxley Gardens Drainage Improvements - Phase II	23-220	-	1,100,000	-	-	-	1,100,000
Major Equipment Purchases - PW Stormwater Division	07-180	200,000	200,000	200,000	-	-	600,000
Neighborhood Drainage Improvements - Phase II	08-150	500,000	200,000	200,000	200,000	200,000	1,300,000
Norfolk Highlands Drainage Improvements	52-250	-	-	-	-	1,200,000	1,200,000
Parkview Area Drainage Improvements	28-230	250,000	250,000	350,000	-	-	850,000
Stormwater Mapping & Master Drainage Plan III	10-150	100,000	-	100,000	-	-	200,000
Stormwater Quality Program - Phase II	11-150	100,000	100,000	100,000	-	-	300,000
Cash - Stormwater Total		2,400,000	2,700,000	2,250,000	2,100,000	1,900,000	11,350,000
Cash - Utilities							
Automated Meter Reading Equipment and Software	53-120	4,000,000	4,000,000	4,000,000	2,000,000	-	14,000,000
Cavalier Elevated and Ground Storage Tanks Rehabilitation	19-220	-	-	-	-	1,595,000	1,595,000
Chesapeake Connector Water Pipeline	20-230	-	2,000,000	-	-	-	2,000,000
Deep Creek Pump Station Upgrade	20-140	-	-	-	-	-	-
Gravity Sewer Renewal: Bainbridge Blvd. Basin (HRSD Project Area)	16-170	-	-	-	-	-	-
Great Bridge Force Main Redundancy Study	21-230	-	-	300,000	-	-	300,000
Lake Gaston Pipeline - Capital Cost Sharing with Virginia Beach	22-230	340,000	340,000	350,000	350,000	375,000	1,755,000
Lake Gaston WTP - Membrane Replacement - Phase II	21-130	-	2,200,000	-	-	-	2,200,000
Lake Gaston WTP - Miscellaneous Modifications	37-200	-	-	500,000	2,700,000	1,000,000	4,200,000
Norfolk Highlands Elevated Tank Rehabilitation	28-200	-	-	-	-	-	-
Northwest River Lakes & Pump Station	23-230	-	-	1,000,000	-	1,000,000	2,000,000
Northwest River WTP - Miscellaneous Modifications	19-130	500,000	1,000,000	2,095,000	4,700,000	1,000,000	9,295,000
Oak Grove Elevated Tank Rehabilitation	47-250	-	-	-	-	1,500,000	1,500,000
Pump Stations: Replace Electric Control Panels	48-250	-	-	-	-	500,000	500,000
Replacement of Lead Service Lines	24-230	-	-	500,000	500,000	500,000	1,500,000
Sewer Pump Station Safety Improvements	35-200	500,000	500,000	500,000	500,000	500,000	2,500,000
Sewer Pump Station: Replacement and Rehabilitation	21-220	-	-	2,700,000	3,000,000	3,000,000	8,700,000

CAPITAL IMPROVEMENT PLAN 2021-2025

FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
Sewer Renewal: Raleigh Place (Pump Station #7 Basin)	33-170	3,800,000	-	-	-	-	3,800,000
Supervisory Control and Data Acquisition (SCADA) Upgrade	23-240	-	1,500,000	1,500,000	1,500,000	1,500,000	6,000,000
Water Renewals: Waterline Upgrades - Phase II	14-160	-	-	2,000,000	2,000,000	2,000,000	6,000,000
Water System Planning and Upgrades	33-210	250,000	250,000	400,000	-	400,000	1,300,000
Cash - Utilities Total		9,390,000	11,790,000	15,845,000	17,250,000	14,870,000	69,145,000
Fund Balance - Capital Projects Fund							
John Street Area Outfall Improvements	25-240	300,000	-	-	-	-	300,000
Open Space and Recreation Program	47-200	1,000,000	1,000,000	500,000	500,000	500,000	3,500,000
Fund Balance - Capital Projects Fund Total		1,300,000	1,000,000	500,000	500,000	500,000	3,800,000
Fund Balance - CTS							
CTS - Chesapeake Expressway Renewals - Phase III - Variable Message Boards	32-230	-	720,000	-	-	-	720,000
CTS - Dominion Blvd. Veterans Bridge Toll System Upgrades	56-250	-	-	330,000	-	-	330,000
CTS - Dominion Blvd./Veterans Bridge - Closed Circuit Television (CCTV)	34-230	140,000	-	-	-	-	140,000
CTS - Chesapeake Expressway Repaving	28-240	-	2,950,000	3,300,000	4,600,000	-	10,850,000
Fund Balance - CTS Total		140,000	3,670,000	3,630,000	4,600,000	-	12,040,000
Fund Balance - General Fund							
Advanced Right-of-Way Acquisition Program	30-230	200,000	200,000	200,000	-	-	600,000
Airport Authority Improvements and Expansion - Phase II	53-230	7,500	60,000	(3,000)	20,000	-	84,500
ArcGIS Enterprise Implementation	08-250	200,000	-	-	-	-	200,000
Cedar Rd. Widening	57-250	-	-	-	-	-	-
Citizen Experience Study - City Digital Content	10-240	250,000	250,000	-	-	-	500,000
Citywide Traffic Signal Retiming - Phase I	31-220	5,000	-	-	-	-	5,000
Citywide Trails and Open Space Connectivity Plan	58-250	-	187,500	187,500	-	-	375,000
Data Access Governance Design and Implementation	09-250	285,000	20,000	-	-	-	305,000
DIT Building Space and Condition Study	10-250	40,000	-	-	-	-	40,000
Edwin Drive Improvements	29-240	1,282,000	-	-	-	-	1,282,000
Elbow Road Center Lane Addition	59-250	-	-	-	-	250,000	250,000
Enterprise Application Modernization (formerly Citywide ERP Solution)	06-220	1,000,000	1,000,000	-	-	-	2,000,000

CAPITAL IMPROVEMENT PLAN 2021-2025

FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
Enterprise Cybersecurity Incident Responses Planning and Policy Review	11-250	120,000	-	-	-	-	120,000
Enterprise Wide Technology III	08-210	-	250,000	250,000	250,000	250,000	1,000,000
Fiber Optic - Conduit Installation - Mt. Pleasant Road Cost Share	15-250	60,000	400,000	-	-	-	460,000
Fire - Bio Medical Replacement	23-250	-	-	-	-	3,500,000	3,500,000
Fire - Enclosed Air Trailer	24-250	150,000	-	-	-	-	150,000
Fire - Hazardous Materials Monitoring and Detection Systems	17-240	-	-	-	265,000	-	265,000
Fire - Hydraulic Rescue Tools	25-250	-	-	-	-	335,000	335,000
Fire - Mass Care / Mass Sheltering Upgrade	26-250	-	-	-	150,000	-	150,000
Fire - Multipurpose Tow/Rescue Vehicle Replacement	18-240	-	-	-	500,000	-	500,000
Fire - Structural/Trench Shoring System Replacement	19-240	-	-	-	150,000	-	150,000
Fire - Thermal Imaging Cameras (TICs)/Forward-Looking Infrared Radar (FLIR) Units	28-250	-	-	-	-	395,000	395,000
Great Bridge Village Plan Implementation Seed Funding	04-250	100,000	100,000	100,000	100,000	100,000	500,000
Heron Landing Park on the Indian River	15-240	225,000	225,000	300,000	-	-	750,000
HR - Learning Management System	14-250	-	100,000	-	-	-	100,000
Johnston Road Ditch and Shoulder Improvements	30-240	5,000,000	5,000,000	2,500,000	-	-	12,500,000
Johnstown Road at Battlefield Blvd - Right Turn Lane	67-250	750,000	-	-	-	-	750,000
Juvenile Services Building Replacement	01-240	-	-	500,000	-	-	500,000
Laserfiche Upgrade	13-210	-	-	-	100,000	-	100,000
LED Lighting Retrofits - Various Buildings	02-240	100,000	100,000	100,000	100,000	-	400,000
Libraries - Refresh and Reconfigure Shelving, Staff Lounges, and Food Preparation Areas	02-250	-	-	650,000	-	-	650,000
Master Transportation Plan Update	63-250	250,000	-	-	-	-	250,000
Mt. Pleasant Rd. Widening - Phase II	42-230	925,000	2,975,000	-	-	-	3,900,000
Mt. Pleasant Road. Widening - Right-of-Way Acquisition	69-250	-	-	-	-	600,000	600,000
Network Equipment Replacement - Phase II	12-220	600,000	600,000	600,000	600,000	660,000	3,060,000
Non-Arterial Street Repaving	07-190	2,000,000	-	-	-	-	2,000,000
Pavement Condition Study	65-250	300,000	-	-	-	-	300,000
PeopleSoft Update Manager & PeopleTools Upgrade	11-220	-	-	-	400,000	-	400,000
Police - 911 Recording Solution Replacement	31-250	-	-	-	300,000	-	300,000
Police - Electronic Summons Collection Equipment	34-240	80,000	-	-	-	-	80,000
Police - Portable Radio Replacement	34-250	-	550,000	550,000	550,000	-	1,650,000
Police & Sheriff - Virtual Firearm Training/Safety Awareness System	22-240	40,000	-	-	-	-	40,000
Police, Fire, and Sheriff - New World App	15-230	102,000	-	-	-	-	102,000

CAPITAL IMPROVEMENT PLAN 2021-2025

FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
Public Safety Two Factor Authentication System Upgrade	17-230	100,000	-	-	-	-	100,000
Repair & Maintenance Roads and Bridges - Phase IV	37-210	500,000	500,000	-	-	-	1,000,000
Rural Roads Safety Improvement Program	41-210	500,000	-	-	-	-	500,000
Security Improvements - Various Facilities	06-240	250,000	250,000	-	-	-	500,000
Telephone System - Replace Existing PBX with VoIP	14-210	80,170	-	-	-	-	80,170
Traffic Signal Reconstruction Project	70-250	577,500	-	-	-	-	577,500
Weiss Lane Widening	71-250	-	-	-	-	-	-
Standardize Interactive Displays - Conference Rooms and Digital Signs	16-250	50,000	-	-	-	-	50,000
Sheriff - Radio Replacement	43-250	90,000	90,000	90,000	90,000	90,000	450,000
Greentree Road Extension	60-250	-	-	-	-	500,000	500,000
Fire/EMS - Mobile Data Terminal Replacements	13-240	-	200,000	-	-	-	200,000
Fund Balance - General Fund Total		16,219,170	13,057,500	6,024,500	3,575,000	6,680,000	45,556,170
Fund Balance - IT							
Enterprise Application Modernization (formerly Citywide ERP Solution)	06-220	1,000,000	1,000,000	1,000,000	-	-	3,000,000
Telephone System - Replace Existing PBX with VoIP	14-210	85,000	-	-	-	-	85,000
Fund Balance - IT Total		1,085,000	1,000,000	1,000,000	-	-	3,085,000
Fund Balance - Other Funds							
CIBH - Expansion and Renovation of 224 Great Bridge Blvd. Building	01-230	5,997,000	-	-	-	-	5,997,000
Conference Center Renovation	12-200	300,000	140,000	-	-	-	440,000
Fire/Police - Base Station Radio Replacement	29-250	-	-	250,000	250,000	250,000	750,000
P25 Radio System Upgrade	30-250	1,100,000	-	-	-	-	1,100,000
Fund Balance - Other Funds Total		7,397,000	140,000	250,000	250,000	250,000	8,287,000
Fund Balance - Stormwater							
Arboretum Channel Improvements	49-250	300,000	-	-	-	-	300,000
Cooper's Ditch Re-Grading, Phase II	51-250	1,000,000	-	-	-	-	1,000,000
Fund Balance - Stormwater Total		1,300,000	-	-	-	-	1,300,000

CAPITAL IMPROVEMENT PLAN 2021-2025
FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
G.O. Debt - City							
Centerville Park Phase II	17-250	-	-	-	-	-	-
Chesapeake Multipurpose Stadium	50-230	-	-	-	-	-	-
Deep Creek Park - Phase II	20-250	-	-	-	-	-	-
Dock Landing Fire Station #11 - Replace	28-190	640,500	6,211,000	-	-	-	6,851,500
Elbow Road Widening - Phase II	35-230	1,530,000	-	-	-	-	1,530,000
Enterprise Application Modernization (formerly Citywide ERP Solution)	06-220	-	-	-	2,000,000	2,000,000	4,000,000
Fire Station #16 - Joint Fire & Police Station - Grassfield/Scenic Pkwy.	17-220	-	-	-	-	-	-
Fire Station #4 Replacement	16-220	-	-	-	-	975,000	975,000
George Washington Hwy. (US Route 17) Widening	37-230	-	-	-	-	2,000,000	2,000,000
Heritage Park - Phase II	14-240	-	-	-	1,525,000	-	1,525,000
Joint City/School Garage Facility	48-230	4,000,000	-	-	-	-	4,000,000
Juvenile Services Building Replacement	01-240	-	-	-	-	-	-
New Athletic Field Lighting	21-250	500,000	500,000	500,000	500,000	-	2,000,000
Northwest River Park Improvements	11-230	1,000,000	1,000,000	1,000,000	1,000,000	-	4,000,000
Public Safety Facility Issue Studies - Feasibility & Conceptual Design	16-230	-	-	-	-	-	-
Public Works/Public Utilities Operating Facilities Replacement/Relocation	01-150	-	13,500,000	-	-	-	13,500,000
Regional Broadband Ring	35-240	-	-	-	-	5,000,000	5,000,000
Parks and Recreation - Improvements, Additions & Expansions	12-230	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	8,000,000
G.O. Debt - City Total		9,270,500	22,811,000	3,100,000	6,625,000	11,575,000	53,381,500
G.O. Debt - South Norfolk TIF							
South Norfolk Municipal Building	51-230	4,805,000	-	-	-	-	4,805,000
Freeman Ave. Railroad Overpass Bridge	09-180	-	2,670,000	-	-	-	2,670,000
G.O. Debt - South Norfolk TIF Total		4,805,000	2,670,000	-	-	-	7,475,000

CAPITAL IMPROVEMENT PLAN 2021-2025
FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
G.O. Debt - VPSA							
Modernization/Renovation of Schools (to be determined by School Board)	32-190	-	-	-	40,000,000	52,500,000	92,500,000
Non-routine Renewal & Replacement Projects - Schools	03-180	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000	30,000,000
G.O. Debt - VPSA Total		6,000,000	6,000,000	6,000,000	46,000,000	58,500,000	122,500,000
Grants							
Commonwealth/Seaboard Multi-City Rail Trail (Western Branch Rail to Trail)	18-210	-	-	-	-	550,000	550,000
Dismal Swamp Canal Trail - Phase III (Renovation, Restroom, Parking Lot)	19-210	-	-	-	-	452,000	452,000
Fentress NALF Water Transmission Main	37-240	10,000,000	-	-	-	-	10,000,000
Emergency Power Supply - Shelters	80-250	170,000	170,000	170,000	-	-	510,000
Grants Total		10,170,000	170,000	170,000	-	1,002,000	11,512,000
Proffers							
Weiss Lane Widening	71-250	-	500,000	-	-	-	500,000
Proffers Total		-	500,000	-	-	-	500,000
Revenue Bonds - Utility Fund							
Lake Gaston WTP - Strategic Treatment and Facility Development Plan	38-200	-	-	-	-	-	-
Northwest River WTP - Switchgear Replacement	20-220	-	5,982,000	-	-	-	5,982,000
Public Works/Public Utilities Operating Facilities Replacement/Relocation	01-150	-	-	-	4,000,000	4,000,000	8,000,000
Red Top Raw Water Transmission Main	39-120	2,717,000	-	-	-	-	2,717,000
Sewer Renewal: Additional Consent Order Capital Requirement	05-180	1,000,000	3,000,000	4,500,000	7,000,000	3,500,000	19,000,000
South Central Water Transmission Main & Loop - Phase I	31-240	15,607,000	-	-	-	-	15,607,000
Sewer Lines: West Road Force Main	78-250	-	-	7,500,000	-	-	7,500,000
Revenue Bonds - Utility Fund Total		19,324,000	8,982,000	12,000,000	11,000,000	7,500,000	58,806,000

CAPITAL IMPROVEMENT PLAN 2021-2025 FUNDING SOURCES

Project Title	Project #	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	5 Year Plan
VDOT Reimbursements							
Battlefield Blvd. at Volvo Pkwy. - Intersection Improvements Phase II	62-250	-	-	-	282,500	1,192,500	1,475,000
Cedar Rd. Widening	57-250	-	-	-	-	-	-
Centerville Turnpike Bridge Rehabilitation	03-190	86,000	-	-	-	-	86,000
Citywide Guardrail Installation & Replacement	25-220	100,000	100,000	-	-	-	200,000
Citywide Traffic Signal Retiming - Phase I	31-220	110,000	-	-	-	-	110,000
Citywide Traffic Signal Retiming - Phase II	62-230	415,000	-	-	-	-	415,000
Elbow Road Bridge Replacement	38-240	213,000	5,186,000	536,000	-	-	5,935,000
Elbow Road Center Lane Addition	59-250	-	-	-	-	-	-
Elbow Road Widening - Phase II	35-230	1,330,000	-	-	-	-	1,330,000
Flashing Yellow Arrow (FYA) Installation - Providence Rd./Mt. Pleasant Rd.	61-230	162,000	-	-	-	-	162,000
George Washington Hwy. (US Route 17) Widening	37-230	-	-	-	-	-	-
Mt. Pleasant Rd. Widening - Phase II	42-230	1,875,000	2,975,000	-	-	-	4,850,000
Mt. Pleasant Road at Great Bridge Bypass - Interchange Improvement	61-250	-	-	-	617,000	5,384,000	6,001,000
Number 10 Lane Bridge - Replacement/Repairs	58-230	-	1,090,000	-	-	-	1,090,000
Oaklette Bridge (Indian River Road) - Replacement/Repairs	56-230	1,200,000	3,446,000	-	-	-	4,646,000
Old Mill Rd. Bridge - Replacement/Repairs	57-230	1,016,000	-	-	-	-	1,016,000
Traffic Signals and Intersection Improvements - Phase III	28-220	100,000	100,000	-	-	-	200,000
Triple Decker Bridge Rehabilitation	46-170	5,766,000	-	-	-	-	5,766,000
Weiss Lane Widening	71-250	-	-	-	-	-	-
Greentree Road Extension	60-250	-	-	-	-	-	-
Freeman Ave. Railroad Overpass Bridge	09-180	-	15,255,000	-	-	-	15,255,000
VDOT Reimbursements Total		12,373,000	28,152,000	536,000	899,500	6,576,500	48,537,000
VDOT Revenue Share							
Johnston Road Ditch and Shoulder Improvements	30-240	-	-	10,000,000	-	-	10,000,000
VDOT Revenue Share Total		-	-	10,000,000	-	-	10,000,000
Grand Total		127,753,670	128,896,500	79,003,500	114,864,500	133,383,500	583,901,670