

**CAPITAL IMPROVEMENT PLAN FOR THE FIVE YEAR PERIOD ENDING JUNE 30, 2020  
ESTIMATED COST REQUIREMENTS**

Project Name	Project #	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5 Year Total	Previous Funding	Future Requirements	Project Total
<b>Community Facilities</b>										
ADA Door & Restroom Retrofits at Various Facilities - Phase I		220,000	220,000	-	-	-	440,000	-	-	440,000
City Hall 6th Floor Redesign/Expansion for City Attorney & City Manager's Offices	03-200	100,000	-	-	-	-	100,000	-	-	100,000
Facilities - High Priority Renewal and Replacements - Phase III	02-150	2,310,000	2,095,000	2,175,000	1,745,000	2,175,000	10,500,000	2,600,000	-	13,100,000
Juvenile Services Building Renovations	04-200	2,000,000	-	-	-	-	2,000,000	-	-	2,000,000
Library Automated Materials Handling System	12-190	-	-	-	-	-	0	425,756	482,800	908,556
Library Bookmobile Replacement	01-200	163,800	-	-	-	-	163,800	-	-	163,800
Mosquito Control Facilities Relocation	01-160	3,382,320	-	-	-	-	3,382,320	3,828,000	-	7,210,320
Municipal Parking Lots and Sidewalks II	04-150	200,000	200,000	200,000	200,000	200,000	1,000,000	600,000	-	1,600,000
Public Health Center/Health Department Expansion	08-190	4,828,826	-	-	-	-	4,828,826	730,000	-	5,558,826
Public Works/Public Utilities Operating Facilities Relocation	01-150	-	-	-	-	-	0	13,700,000	-	13,700,000
Voting Equipment	02-200	-	-	-	-	-	0	-	1,500,000	1,500,000
<b>Community Facilities Total</b>		<b>13,204,946</b>	<b>2,515,000</b>	<b>2,375,000</b>	<b>1,945,000</b>	<b>2,375,000</b>	<b>22,414,946</b>	<b>21,883,756</b>	<b>1,982,800</b>	<b>46,281,502</b>
<b>Economic Development</b>										
Commerce Park	62-120	1,500,000	-	-	-	-	1,500,000	6,359,662	-	7,859,662
Fentress Encroachment Protection	10-190	4,200,000	4,092,266	-	-	-	8,292,266	4,092,266	-	12,384,532
Greenbrier Commerce Improvement District	03-170	-	16,000,000	-	-	-	16,000,000	-	-	16,000,000
Tidewater Community College - Science/Engineering Building	40-200	-	1,500,000	-	-	-	1,500,000	-	-	1,500,000
<b>Economic Development Total</b>		<b>5,700,000</b>	<b>21,592,266</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>27,292,266</b>	<b>10,451,928</b>	<b>-</b>	<b>37,744,194</b>

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Project Name	Project #	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5 Year Total	Previous Funding	Future Requirements	Project Total
<b>Education</b>										
Great Bridge Primary School - Modernization	31-190	22,275,000	-	-	-	-	22,275,000	2,500,000	-	24,775,000
Modernization/Renovation of Schools (to be determined by School Board)	32-190	-	-	4,725,000	25,275,000	15,000,000	45,000,000	-	-	45,000,000
Non-routine Renewal & Replacement Projects - Schools	03-180	6,750,000	7,500,000	7,500,000	7,500,000	7,500,000	36,750,000	13,601,093	37,500,000	87,851,093
School Bus - Replacement	29-190	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	1,000,000	-	6,000,000
School Technology - Replacement	30-190	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	1,000,000	-	6,000,000
<b>Education Total</b>		<b>31,025,000</b>	<b>9,500,000</b>	<b>14,225,000</b>	<b>34,775,000</b>	<b>24,500,000</b>	<b>114,025,000</b>	<b>18,101,093</b>	<b>37,500,000</b>	<b>169,626,093</b>
<b>Information Technology</b>										
Citizen Mobile Apps Project	11-190	150,000	-	-	-	-	150,000	-	-	150,000
Enterprise Financials PeopleSoft/PeopleTools Upgrade	06-170	620,000	-	-	-	-	620,000	600,000	-	1,220,000
Enterprise Wide Technology Improvements	07-170	250,000	-	-	-	-	250,000	500,000	-	750,000
Information Technology Help Desk/Service Desk Software Replacement	11-200	254,043	71,000	-	-	-	325,043	-	-	325,043
Kronos Upgrade	09-170	-	135,000	-	-	-	135,000	130,000	-	265,000
Library - Cisco Telepresence Refresh	05-200	-	-	-	83,160	-	83,160	-	-	83,160
Library - Integrated Library System (ILS) Hosting	06-200	-	-	-	-	175,000	175,000	-	-	175,000
Library - Switch/Router Refresh	07-200	-	-	150,000	-	-	150,000	-	-	150,000
Library - Tablet Lending System	08-200	-	30,000	30,000	-	-	60,000	-	-	60,000
Library - Technology Upgrade/Replacement Ph. II	13-190	90,000	26,590	-	-	-	116,590	115,855	-	232,445
Library - Virtual Desktop Infrastructure (VDI) Expansion	09-200	272,696	-	-	-	-	272,696	-	-	272,696
Police Mobile Communication Security	10-200	95,000	-	-	-	-	95,000	-	-	95,000
<b>Information Technology Total</b>		<b>1,731,739</b>	<b>262,590</b>	<b>180,000</b>	<b>83,160</b>	<b>175,000</b>	<b>2,432,489</b>	<b>1,345,855</b>	<b>-</b>	<b>3,778,344</b>

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Project Name	Project #	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5 Year Total	Previous Funding	Future Requirements	Project Total
<b>Parks, Recreation &amp; Tourism</b>										
ADA Facility Compliance	22-190	75,000	75,000	75,000	75,000	75,000	375,000	75,000	300,000	750,000
Athletic Field Improvements	16-190	380,000	380,000	380,000	380,000	380,000	1,900,000	380,000	1,520,000	3,800,000
Conference Center Renovation	12-200	505,000	760,000	780,000	-	-	2,045,000	-	-	2,045,000
Facility Improvements on Recreational Buildings	19-190	300,000	300,000	300,000	300,000	-	1,200,000	300,000	-	1,500,000
Park Program Improvements	18-190	300,000	300,000	300,000	300,000	-	1,200,000	255,780	-	1,455,780
Parking Lot Improvements	21-190	90,000	90,000	90,000	90,000	90,000	450,000	90,000	360,000	900,000
Security Improvements-Parks & Recreation	24-190	40,000	40,000	40,000	40,000	40,000	200,000	40,000	160,000	400,000
Western Branch Trail - Commonwealth/Seaboard	13-200	-	-	600,000	-	-	600,000	-	-	600,000
<b>Parks, Recreation &amp; Tourism Total</b>		<b>1,690,000</b>	<b>1,945,000</b>	<b>2,565,000</b>	<b>1,185,000</b>	<b>585,000</b>	<b>7,970,000</b>	<b>1,140,780</b>	<b>2,340,000</b>	<b>11,450,780</b>
<b>Public Safety</b>										
Biomedical Equipment	15-200	1,725,000	-	-	-	-	1,725,000	-	-	1,725,000
Deep Creek Fire Station #8 - Relocate	27-190	-	640,464	4,696,739	-	-	5,337,203	-	-	5,337,203
Dock Landing Fire Station #11 - Replace	28-190	-	-	-	640,500	5,750,836	6,391,336	-	-	6,391,336
Fire Alarm and Public Address System	17-200	150,000	-	-	-	-	150,000	-	-	150,000
Fire Vehicle Replacement	39-200	750,000	750,000	750,000	1,500,000	1,500,000	5,250,000	-	8,750,000	14,000,000
Jail Expansion to Address Overcrowding	04-180	26,423,877	-	-	-	-	26,423,877	2,625,000	-	29,048,877
Precinct Security Camera System Upgrades	18-200	120,000	-	-	-	-	120,000	-	-	120,000
Saint Brides Fire Station #7/Hickory Police Precinct #6 - Combine	10-160	6,438,000	-	-	-	-	6,438,000	821,440	-	7,259,440
Self Contained Breathing Apparatus	16-200	-	-	2,046,150	-	-	2,046,150	-	-	2,046,150
Thermal Imaging Cameras	14-200	-	-	324,000	-	-	324,000	-	-	324,000
<b>Public Safety Total</b>		<b>35,606,877</b>	<b>1,390,464</b>	<b>7,816,889</b>	<b>2,140,500</b>	<b>7,250,836</b>	<b>54,205,566</b>	<b>3,446,440</b>	<b>8,750,000</b>	<b>66,402,006</b>

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Project Name	Project #	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5 Year Total	Previous Funding	Future Requirements	Project Total
<b>Public Utilities</b>										
Automated Meter Reading Equipment and Software	53-120	-	-	-	-	-	0	1,399,624	12,000,000	13,399,624
Battlefield to Centerville Water Main - Phase II	22-140	-	-	-	-	-	0	4,164,000	-	4,164,000
Centerville Turnpike Loop 3	43-120	-	-	500,000	2,586,749	-	3,086,749	-	-	3,086,749
Deep Creek Pump Station Upgrade	20-140	-	-	-	-	-	0	232,127	1,878,123	2,110,250
Force Main Replacement: Dominion Blvd. and I-64	34-200	1,000,000	4,238,700	-	-	-	5,238,700	-	-	5,238,700
Gravity Sewer Renewal: Bainbridge Blvd. Basin (HRSD Project Area)	16-170	-	-	-	-	-	0	-	5,000,000	5,000,000
Greenbrier Pkwy. - Force Main Upgrade	06-100	1,000,000	-	-	-	-	1,000,000	300,389	-	1,300,389
Lake Gaston WTP - Expansion	38-200	1,000,000	-	-	-	-	1,000,000	-	59,000,000	60,000,000
Lake Gaston WTP - Membrane Replacement - Phase II	21-130	-	-	-	-	2,200,000	2,200,000	1,758,385	-	3,958,385
Lake Gaston WTP - Miscellaneous Modifications	37-200	1,750,000	620,000	500,000	500,000	500,000	3,870,000	-	-	3,870,000
Military Hwy. - 36" Water Main	38-120	-	1,000,000	-	-	-	1,000,000	2,627,000	-	3,627,000
Norfolk Highlands Elevated Tank Rehabilitation	28-200	-	-	-	-	-	0	-	925,000	925,000
Northwest River WTP - 30" Raw Water Main	54-120	759,877	-	-	-	-	759,877	4,066,511	-	4,826,388
Northwest River WTP - Membrane Replacement - Phase III	01-090	-	-	-	-	1,625,000	1,625,000	400,000	-	2,025,000
Northwest River WTP - Miscellaneous Modifications	19-130	-	-	1,000,000	500,000	500,000	2,000,000	7,175,000	1,750,000	10,925,000
Northwest River WTP - Replace Bulk Chemical Storage Tanks	30-200	300,000	900,000	-	-	-	1,200,000	-	-	1,200,000
Northwest River WTP - Replace Ground Storage Tank	29-200	-	-	-	-	-	0	-	3,200,000	3,200,000
Northwest River WTP - Riverbank Filtration System	36-200	-	-	-	-	-	0	-	175,000	175,000
Raw Water Transmission Main	39-120	-	-	3,500,000	3,500,000	-	7,000,000	15,575,000	-	22,575,000
Sewer and Water Renewal: Elbyrne Dr.	23-170	-	-	-	2,155,000	-	2,155,000	-	-	2,155,000

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Project Name	Project #	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5 Year Total	Previous Funding	Future Requirements	Project Total
System at Indian River Service Area - Phase I (Pump Station #3)	35-170	2,000,000	-	-	-	-	2,000,000	2,672,978	-	4,672,978
Sewer Management Operations & Maintenance	13-160	-	1,000,000	1,000,000	1,500,000	1,500,000	5,000,000	2,000,000	1,000,000	8,000,000
Sewer Pump Station Safety Improvements	35-200	500,000	500,000	500,000	500,000	500,000	2,500,000	-	-	2,500,000
Sewer Renewal: 18th Street	15-170	736,270	-	-	-	-	736,270	-	-	736,270
Sewer Renewal: Additional Consent Order Capital Requirement	05-180	3,061,609	1,000,000	2,000,000	4,000,000	4,000,000	14,061,609	-	263,000,000	277,061,609
Sewer Renewal: Chesapeake Ave. (Guerriere to Ohio Sewer)	18-170	288,823	-	-	-	-	288,823	-	-	288,823
Sewer Renewal: Liberty St. (500 Block to Collingswood Ave.)	26-170	1,389,259	-	-	-	-	1,389,259	-	-	1,389,259
Sewer Renewal: Raleigh Place (Pump Station #7 Basin)	33-170	-	-	-	-	-	0	-	4,258,756	4,258,756
Sewer Renewal: SSES Implementation - Phase I	32-120	500,000	-	-	-	-	500,000	4,016,036	-	4,516,036
Sewer Renewal: Westwood Ave. and Redstart Ave.	42-170	-	-	1,106,000	-	-	1,106,000	-	-	1,106,000
Sewer Replacement: Orville Ave. Alleyway (Bainbridge to Seaboard)	31-170	-	-	1,351,000	-	-	1,351,000	-	-	1,351,000
Unserved Areas/Cost Participation - Phase II	25-200	164,900	1,483,300	85,500	769,500	-	2,503,200	-	-	2,503,200
Water Control Laboratory - Upgrade HVAC	26-200	-	480,000	-	-	-	480,000	-	-	480,000
Water Production Security System Upgrades	31-200	-	-	-	-	-	0	-	200,000	200,000
Water Renewal: Buchanan St.	24-200	256,870	-	-	-	-	256,870	-	-	256,870
Water Renewals: Waterline Upgrading - Phase II	14-160	-	-	750,000	1,000,000	1,000,000	2,750,000	1,500,000	5,750,000	10,000,000
Water Residuals Disposal	32-200	-	-	-	320,000	-	320,000	-	-	320,000
Water Treatment Plant Control System Upgrade	27-200	-	820,000	-	-	-	820,000	-	-	820,000
Western Branch Elevated Tank Rehabilitation	33-200	-	-	-	-	1,200,000	1,200,000	-	-	1,200,000
<b>Public Utilities Total</b>		<b>14,707,608</b>	<b>12,042,000</b>	<b>12,292,500</b>	<b>17,331,249</b>	<b>13,025,000</b>	<b>69,398,357</b>	<b>47,887,050</b>	<b>358,136,879</b>	<b>475,422,286</b>

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<b>Transportation</b>										
22nd Street Bridge Replacement	21-120	-	12,300,000	-	-	-	12,300,000	6,049,300	-	18,349,300
Battlefield Blvd. Paving between Debaun Ave. and Campostella Rd. - VDOT Primary Ext Grant	41-200	702,000	-	-	-	-	702,000	-	-	702,000
Benefit Rd. Ditch and Shoulder Improvements	22-200	284,100	-	-	-	-	284,100	-	-	284,100
Bruce Rd. Safety Improvements	02-190	1,131,720	-	-	-	-	1,131,720	153,280	-	1,285,000
Centerville Bridge Rehabilitation	03-190	3,236,000	-	-	-	-	3,236,000	330,000	-	3,566,000
Deep Creek AIW Bridge Replacement	08-180	-	-	44,000,000	-	-	44,000,000	1,500,000	-	45,500,000
Freeman Ave. Railroad Overpass	09-180	-	-	-	-	-	0	75,000	25,425,000	25,500,000
Military Hwy. and Smith Ave. Intersection Improvements	06-190	440,000	-	-	-	-	440,000	100,000	-	540,000
Non-Arterial Street Repaving Blvd. at Hickory High School	07-190	-	8,300,000	1,000,000	4,000,000	-	13,300,000	2,000,000	-	15,300,000
Blvd. at Hickory High School	23-200	100,000	-	-	-	-	100,000	-	-	100,000
Right Turn Lane: Military Hwy. at Galberry Rd.	42-200	125,000	-	-	-	-	125,000	-	-	125,000
US Route 17 South of Cedar Rd.	47-170	11,572,000	-	-	-	-	11,572,000	8,800,000	-	20,372,000
<b>Transportation Total</b>		<b>17,590,820</b>	<b>20,600,000</b>	<b>45,000,000</b>	<b>4,000,000</b>	<b>-</b>	<b>87,190,820</b>	<b>19,007,580</b>	<b>25,425,000</b>	<b>131,623,400</b>
<b>Storm Water</b>										
BMP Restoration Citywide	73-120	100,000	300,000	200,000	400,000	300,000	1,300,000	1,300,000	-	2,600,000
Citywide Outfall Re-Grading and Restoration	03-160	100,000	200,000	100,000	150,000	150,000	700,000	720,000	-	1,420,000
Citywide System Rehab	43-170	300,000	400,000	500,000	500,000	500,000	2,200,000	1,200,000	-	3,400,000
Citywide Undesignated Drainage - Phase III	07-150	-	50,000	50,000	100,000	100,000	300,000	506,347	-	806,347
Major Equipment Purchases - PW Stormwater Division	07-180	666,000	-	-	-	-	666,000	3,308,000	-	3,974,000
Neighborhood Drainage Improvements II	08-150	600,000	500,000	570,000	650,000	750,000	3,070,000	1,224,600	-	4,294,600
Oakdale Area BMP and Drainage Improvements	09-150	-	500,000	1,500,000	2,000,000	1,000,000	5,000,000	-	-	5,000,000
Shillelagh Rd. Drainage Outfall Improvement	77-120	2,000,000	1,100,000	-	-	-	3,100,000	-	-	3,100,000
Stormwater Mapping & Master Drainage Plan III	10-150	100,000	200,000	100,000	200,000	200,000	800,000	200,000	-	1,000,000

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Stormwater Quality Program - Phase II	11-150	-	2,000,000	2,000,000	1,500,000	2,500,000	8,000,000	340,565	-	8,340,565
Sunray Area Outfall Re-Grading	13-130	1,200,000	-	-	-	-	1,200,000	-	-	1,200,000
Welch Ln. Drainage Improvements	19-200	-	-	480,000	-	-	480,000	-	-	480,000
Whittamore Rd. Outfall Improvements	20-200	-	300,000	-	-	-	300,000	-	-	300,000
<b>Storm Water Total</b>		<b>5,066,000</b>	<b>5,550,000</b>	<b>5,500,000</b>	<b>5,500,000</b>	<b>5,500,000</b>	<b>27,116,000</b>	<b>8,799,512</b>	<b>-</b>	<b>35,915,512</b>
<b>Total Resources</b>		<b>126,322,990</b>	<b>75,397,320</b>	<b>89,954,389</b>	<b>66,959,909</b>	<b>53,410,836</b>	<b>412,045,444</b>	<b>132,063,994</b>	<b>434,134,679</b>	<b>978,244,117</b>