

**WATER AND SEWER INFRASTRUCTURE: WS MAINTENANCE  
CAPITAL PROGRAM**

10 YEAR CATEGORY SUMMARY (in \$1,000s)

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	10 Year Total
1. Sewer-Infiltration and Inflow	3,000	3,105	3,210	3,315	3,315	3,420	3,420	3,525	585	605	27,500
2. Sewer-Large Diameter Main Rehabilitation	2,780	2,185	4,140	2,550	3,090	2,340	100	4,220	1,040	2,050	24,495
3. Water-Large Diameter Main & Valve Rehabilitation	1,000	1,035	1,070	1,105	1,105	1,140	1,140	1,175	1,175	1,210	11,155
4. Water-Large Meter Vault Rehabilitation & Replacement	200	205	215	220	220	230	230	235	235	240	2,230
5. Manhole Rehabilitation	1,000	1,035	1,070	1,105	1,105	1,140	1,140	1,175	1,175	1,210	11,155
6. Water-Pump Station Rehabilitation	0	105	0	110	0	115	0	115	0	120	565
7. Sewer-Force Mains	2,100	155	160	165	165	170	170	175	175	180	3,615
8. Sewer-Main Replacement Program	2,000	2,590	3,210	3,315	3,315	3,420	3,420	3,525	3,525	3,630	31,950
9. Water-Small Diameter Valve Rehabilitation & Replacement	300	310	320	330	330	340	340	350	350	365	3,335
10. Technology Enhancements	725	1,365	60	2,630	2,735	2,935	3,050	65	65	65	13,695
11. Trades Center Equipment & Improvements	0	1,035	0	0	0	0	0	0	0	0	1,035
12. Washington Aqueduct Capital	7,800	8,075	8,345	8,620	8,620	8,890	8,890	67,915	9,165	9,440	145,760
13. Water-Main Cleaning and Lining Program	1,600	1,655	1,710	1,770	1,770	1,825	1,825	1,880	1,880	1,935	17,850
14. Water-Main Replacement Program	7,000	6,725	6,955	7,180	7,735	7,980	8,550	8,810	8,810	9,075	78,820
15. Water/Sewer Frames/Covers	1,000	1,035	1,070	1,105	1,105	1,140	1,140	1,175	1,175	1,210	11,155
16. Water-Tank Rehabilitation	100	0	105	2,320	830	115	0	115	0	120	3,705
<b>Total Recommendation</b>	<b>30,605</b>	<b>30,615</b>	<b>31,640</b>	<b>35,840</b>	<b>35,440</b>	<b>35,200</b>	<b>33,415</b>	<b>94,455</b>	<b>29,355</b>	<b>31,455</b>	<b>388,020</b>

CATEGORY FUNDING SOURCES (in \$1,000s)

	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	10 Year Total
<b>New Funding</b>											
Federal Funding	0	0	0	0	0	0	0	0	0	0	0
State Funding	0	0	0	0	0	0	0	0	0	0	0
Developer Contributions	6,665	7,940	8,175	8,730	8,725	9,285	9,285	9,675	8,585	9,110	86,175
New Bond Issue	3,400	9,030	9,190	10,410	9,015	10,090	8,660	70,065	9,115	9,845	148,820
PAYG	6,008	9,305	14,220	13,215	17,315	15,425	16,170	13,205	11,460	11,870	128,193
Short Term Finance	0	0	0	0	0	0	0	0	0	0	0
Stormwater Utility Fee Revenue	0	0	0	0	0	0	0	0	0	0	0
Other Funding	3,010	1,115	1,640	815	385	400	400	410	405	420	9,000
<b>Subtotal New Funding</b>	<b>19,083</b>	<b>27,390</b>	<b>33,225</b>	<b>33,170</b>	<b>35,440</b>	<b>35,200</b>	<b>34,515</b>	<b>93,355</b>	<b>29,565</b>	<b>31,245</b>	<b>372,188</b>
<b>Previously Approved Funding</b>											
Authorized but Unissued Bonds	2,900	0	0	0	0	0	0	0	0	0	2,900
Issued but Unspent Bonds	0	0	0	0	0	0	0	0	0	0	0
Other Previously Approved Funds	9,122	3,810	0	0	0	0	0	0	0	0	12,932
<b>Subtotal Previously Approved Funding</b>	<b>12,022</b>	<b>3,810</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,832</b>
<b>Total Funding Sources</b>	<b>31,105</b>	<b>31,200</b>	<b>33,225</b>	<b>33,170</b>	<b>35,440</b>	<b>35,200</b>	<b>34,515</b>	<b>93,355</b>	<b>29,565</b>	<b>31,245</b>	<b>388,020</b>



## 1. SEWER-INFILTRATION AND INFLOW

**Project Highlights:**

- This program rehabilitates the small diameter (less than 15-inch) sanitary sewer system to eliminate infiltration and inflow, the intrusion of rain, ground, or surface water into the County's sanitary sewer system.
- The County's goal is to line two percent of the system annually. As of March 2024, over 58 percent of the system has been lined.

**Associated Plan(s):**

Sanitary Sewer Collection System Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** A portion of the annual funding will be from infrastructure availability fees (developer contributions). Other funding includes interest income.

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Developer Contributions</b>	2,100	2,275	2,355	2,485	2,485	2,620	2,620	2,700	295	300	20,235
<b>PAYG</b>	650	570	590	555	555	515	515	530		5	4,485
<b>Other Funding</b>	250	260	265	275	275	285	285	295	290	300	2,780
<b>Previous Funding</b>											
<b>Total Funding</b>	<b>3,000</b>	<b>3,105</b>	<b>3,210</b>	<b>3,315</b>	<b>3,315</b>	<b>3,420</b>	<b>3,420</b>	<b>3,525</b>	<b>585</b>	<b>605</b>	<b>27,500</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

The last two years of the CIP reflect anticipated reductions in the small diameter relining program as program goals are achieved.



## 2. SEWER-LARGE DIAMETER MAIN REHABILITATION

**Project Highlights:**

- This program rehabilitates 15-inch and larger sanitary sewer mains and appurtenances to eliminate infiltration and inflow, the intrusion of rain, ground, or surface water into the County's sanitary sewer system.
- The County periodically performs condition inspections and assessments on the large diameter sanitary sewer mains to identify deficiencies and make recommendations on repairs.

**Associated Plan(s):**

Sanitary Sewer Collection System Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** County funding is set aside annually for these larger cost projects to accumulate sufficient funding while avoiding rate spikes. Other funding includes \$2,030,000 of Inter-Jurisdictional (IJ) revenue for projects on the Four Mile Run Interceptor, with each IJ's portion based on its reserved capacity. Other funding also includes HUD Community Project Funding grants and \$1,500,000 of federal funding. Other Previously Approved Funds include existing PAYG balances.

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Developer Contributions</b>	500	1,000	1,000	1,100	1,100	1,200	1,200	1,200	1,250	1,500	11,050
<b>New Bond Issue</b>			1,000	1,015	1,000	1,140		1,920		340	6,415
<b>PAYG</b>		65	865		990						1,920
<b>Other Funding</b>	1,070	750	1,275	435							3,530
<b>Previous Funding</b>											
<b>Other Previously Approved Funds</b>	1,210	370									1,580
<b>Total Funding</b>	<b>2,780</b>	<b>2,185</b>	<b>4,140</b>	<b>2,550</b>	<b>3,090</b>	<b>2,340</b>	<b>1,200</b>	<b>3,120</b>	<b>1,250</b>	<b>1,840</b>	<b>24,495</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>129</b>	<b>193</b>	<b>266</b>	<b>266</b>	<b>389</b>	<b>389</b>	<b>1,696</b>

**Changes from Prior CIP:**

Projects originally scheduled for FY 2023 and FY 2024 have shifted to FY 2025 and FY 2026 (Four Mile Run Relief Route 50 to Columbia Pike; Rosslyn - Potomac Interceptor). This CIP also includes funding for additional large diameter sewer projects as focus shifts from small diameter to large diameter rehabilitations.



### 3. WATER-LARGE DIAMETER MAIN & VALVE REHABILITATION

**Project Highlights:**

- This program includes the rehabilitation of old (more than 50 years) large diameter (20 - 36-inch) water mains and the rehabilitation or replacement of 16-inch or larger valves and pressure regulating valves.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** A portion of the annual funding is from infrastructure availability fees (developer contributions). Other Previously Approved Funds include existing PAYG balances.

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Developer Contributions</b>	115	160	165	170	170	175	175	195	195	200	1,720
<b>PAYG</b>	680	875	905	935	935	965	965	980	980	1,010	9,230
<b>Previous Funding</b>											
<b>Other Previously Approved Funds</b>	205										205
<b>Total Funding</b>	<b>1,000</b>	<b>1,035</b>	<b>1,070</b>	<b>1,105</b>	<b>1,105</b>	<b>1,140</b>	<b>1,140</b>	<b>1,175</b>	<b>1,175</b>	<b>1,210</b>	<b>11,155</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

Program costs have increased from the previous CIP based on the priority to rehabilitate and/or replace large water valves based on results from the large valve inspection program. These valves are critical to the operation of the drinking water system and enable control over transmission mains.



## 4. WATER-LARGE METER VAULT REHABILITATION & REPLACEMENT

**Project Highlights:**

- This program ensures that large commercial meters, which account for approximately 75 percent of the system revenue, remain in a good state of repair.
- Large meter vault inspections and condition assessments are being conducted in conjunction with the large meter replacements to identify vaults requiring rehabilitation or replacement.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** Other previously approved funds include existing PAYG balances.

New Funding	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
PAYG	50	205	215	220	220	230	230	235	235	240	2,080
Previous Funding											
Other Previously Approved Funds	150										150
<b>Total Funding</b>	<b>200</b>	<b>205</b>	<b>215</b>	<b>220</b>	<b>220</b>	<b>230</b>	<b>230</b>	<b>235</b>	<b>235</b>	<b>240</b>	<b>2,230</b>
Operating Impact	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
Total Impact	0	0	0	0	0	0	0	0	0	0	0

**Changes from Prior CIP:**

Program costs changed slightly from the previous CIP.



## 5. MANHOLE REHABILITATION

**Project Highlights:**

- This program provides for the rehabilitation of sanitary sewer manholes through epoxy lining and structural rebuilds when necessary.
- Manhole rehabilitation occurs in conjunction with the Infiltration and Inflow (I&I) Program (sewer main relining) and the Large Diameter Sewer Rehabilitation Program.

**Associated Plan(s):**

Sanitary Sewer Collection System Plan

**Neighborhood(s):**

VARIOUS

<b>Funding Notes:</b> Other Previously Approved Funds include existing PAYG balances.											
<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>PAYG</b>	608	1,035	1,070	1,105	1,105	1,140	1,140	1,175	1,175	1,210	10,763
<b>Previous Funding</b>											
<b>Other Previously Approved Funds</b>	392										392
<b>Total Funding</b>	<b>1,000</b>	<b>1,035</b>	<b>1,070</b>	<b>1,105</b>	<b>1,105</b>	<b>1,140</b>	<b>1,140</b>	<b>1,175</b>	<b>1,175</b>	<b>1,210</b>	<b>11,155</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

Investment in this program nearly doubled since the previous CIP based on the recently adopted Sanitary Sewer Collection System Plan.



## 6. WATER-PUMP STATION REHABILITATION

**Project Highlights:**

- This program includes maintenance capital and rehabilitation of various water pump stations throughout the County to keep the equipment and facilities properly functioning.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** Other Previously Approved Funds include existing PAYG balances.

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>PAYG</b>		30		110		115		115		120	490
<b>Previous Funding</b>											
<b>Other Previously Approved Funds</b>		75									75
<b>Total Funding</b>	<b>0</b>	<b>105</b>	<b>0</b>	<b>110</b>	<b>0</b>	<b>115</b>	<b>0</b>	<b>115</b>	<b>0</b>	<b>120</b>	<b>565</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

No significant change from the previous CIP.





## 7. SEWER-FORCE MAINS

**Project Highlights:**

- This program rehabilitates and replaces the County's force main systems, which are necessary to convey sewage for much of the northern third of the County, which are at a lower elevation than the rest of the County.
- Force mains are located at Donaldson Run, Gulf Run, Windy Run, and other sewage lift stations.

**Associated Plan(s):**

Sanitary Sewer Collection System Plan

**Neighborhood(s):**

VARIOUS

<b>Funding Notes:</b> Other Previously Approved Funds include existing PAYG balances.											
<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>PAYG</b>	510	155	160	165	165	170	170	175	175	180	2,025
<b>Other Funding</b>	1,590										1,590
<b>Previous Funding</b>											
<b>Total Funding</b>	<b>2,100</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>165</b>	<b>170</b>	<b>170</b>	<b>175</b>	<b>175</b>	<b>180</b>	<b>3,615</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	0	0	0	0	0	0	0	0	0	0	0

**Critical Milestones:**

- Gulf Run Force Main construction                      Fall 2024 - Summer 2025

**Changes from Prior CIP:**

This CIP includes funding for rehabilitation of the Gulf Run Force Main in FY 2025.



## 8. SEWER-MAIN REPLACEMENT PROGRAM

**Project Highlights:**

- This program replaces smaller diameter sewer mains when lining sewer mains is not viable or recommended.
- Traditional replacement may be necessary to address severely deteriorated or failed sanitary sewer mains.

**Associated Plan(s):**

Sanitary Sewer Collection System Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** A portion of the annual funding will be from infrastructure availability fees (developer contributions). Other Previously Approved Funds include existing PAYG balances.

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Developer Contributions</b>	750	830	855	885	885	910	910	940	2,205	2,150	11,320
<b>PAYG</b>	1,110	1,760	2,355	2,430	2,430	2,510	2,510	2,585	1,320	1,480	20,490
<b>Previous Funding</b>											
<b>Other Previously Approved Funds</b>	140										140
<b>Total Funding</b>	<b>2,000</b>	<b>2,590</b>	<b>3,210</b>	<b>3,315</b>	<b>3,315</b>	<b>3,420</b>	<b>3,420</b>	<b>3,525</b>	<b>3,525</b>	<b>3,630</b>	<b>31,950</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

Program costs have increased from the previous CIP based on priority and to align with actual spending levels.



## 9. WATER-SMALL DIAMETER VALVE REHABILITATION & REPLACEMENT

**Project Highlights:**

- This program rehabilitates and/or replaces small diameter water valves throughout the County, as identified through the Valve Inspection and Exercise Program.
- This program ensures the County's water distribution system valves are operable to minimize the extent and duration of water service outages during planned or emergency work.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>PAYG</b>	300	310	320	330	330	340	340	350	350	365	3,335
<b>Previous Funding</b>											
<b>Total Funding</b>	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>330</b>	<b>340</b>	<b>340</b>	<b>350</b>	<b>350</b>	<b>365</b>	<b>3,335</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

A slight increase in annual funding from the previous CIP.



## 10. TECHNOLOGY ENHANCEMENTS

### Project Highlights:

- Periodic upgrades and replacements for technology infrastructure and systems are necessary to maintain secure, efficient, and effective operation of the water distribution and sanitary sewer collection systems.
- FY 2024 – FY 2025 includes funding for planned implementation of the next generation of meter reading technology, including piloting Advanced Metering Infrastructure (AMI). It also includes funding for a systemwide leak detection pilot (FY 2025 - FY 2027).

### Associated Plan(s):

Community Energy Plan  
Water System Master Plan

### Neighborhood(s):

VARIOUS

**Funding Notes:** Other previously approved funds include existing PAYG balances.

New Funding	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
PAYG		45	1,060	1,630	2,735	2,935	3,050	65	65	65	11,650
Previous Funding											
Other Previously Approved Funds	725	1,320									2,045
<b>Total Funding</b>	<b>725</b>	<b>1,365</b>	<b>1,060</b>	<b>1,630</b>	<b>2,735</b>	<b>2,935</b>	<b>3,050</b>	<b>65</b>	<b>65</b>	<b>65</b>	<b>13,695</b>
Operating Impact	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
Operations Costs (+/-)		21	56	108	197	301	404	455	455	455	2,452
<b>Total Impact</b>	<b>0</b>	<b>21</b>	<b>56</b>	<b>108</b>	<b>197</b>	<b>301</b>	<b>404</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>2,452</b>

### Critical Milestones:

- Piloting AMI Spring 2024 - Summer 2025
- Transition commercial accounts to AMI Fall 2025 - Fall 2026
- Transition residential accounts to AMI Fall 2028 - Spring 2031

### Changes from Prior CIP:

Costs for transition to Advanced Metering Infrastructure (AMI) increased in this CIP due to further refinement of technology planned to be implemented and the inclusion of meter replacements for those beyond their accuracy warranty period. Meter replacement costs are approximately 50 percent of the total AMI costs.



## 11. TRADES CENTER EQUIPMENT & IMPROVEMENTS

**Project Highlights:**

- Funding will be used for various equipment and facility improvements at the Trades Center in support of Utilities operations.
- Funding is related to relocating staff at the Trades Center from trailers that are beyond their useful life to permanent facilities.

**Associated Plan(s):**

Community Energy Plan  
 Water System Master Plan

**Neighborhood(s):**

Shirlington

New Funding	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
New Bond Issue		535									535
PAYG	500										500
Previous Funding											
<b>Total Funding</b>	<b>500</b>	<b>535</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,035</b>
Operating Impact	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

Expenditures are one year later than the previous CIP.



## 12. WASHINGTON AQUEDUCT CAPITAL

**Project Highlights:**

- This program provides the County's share of funding for capital improvements at the Washington Aqueduct, the County's wholesale water supplier, which is managed by the U.S. Army Corps of Engineers.
- The Washington Aqueduct is currently the County's sole source of drinking water.
- The Aqueduct's capital budget is approved by its three customers (DC Water, Fairfax Water, and Arlington County) during the annual budget process. Arlington's contributions are based upon a prorate share of usage of the system.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** Other previously approved funds include existing PAYG balances. The Aqueduct is owned and maintained by the U.S. Army Corps of Engineers.

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>New Bond Issue</b>	3,400	6,005	4,600	5,305	4,200	4,330	4,045	62,920	3,885	4,300	102,990
<b>PAYG</b>		2,070	3,745	3,315	4,420	4,560	4,845	4,995	5,280	5,140	38,370
<b>Previous Funding</b>											
<b>Authorized but Unissued Bonds</b>	2,900										2,900
<b>Other Previously Approved Funds</b>	1,500										1,500
<b>Total Funding</b>	<b>7,800</b>	<b>8,075</b>	<b>8,345</b>	<b>8,620</b>	<b>8,620</b>	<b>8,890</b>	<b>8,890</b>	<b>67,915</b>	<b>9,165</b>	<b>9,440</b>	<b>145,760</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

The wholesale customers (DC Water, Fairfax Water, and Arlington County) approved increased funding to address previously deferred as well as currently planned capital investments in the Washington Aqueduct. Notional future amounts in FY 2032 are for regulatory changes and will be further refined in future CIPs.



### 13. WATER-MAIN CLEANING AND LINING PROGRAM

**Project Highlights:**

- This program rehabilitates small diameter (8-inch and below) pre-1960s cast iron water mains to restore flow capacity and improve water quality. In conjunction with the water main replacement program, this project will improve the overall condition of the County's water main assets.
- The Water Distribution System Master Plan's goal is to rehabilitate the 250 miles of small diameter mains by 2040.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>PAYG</b>	1,600	1,655	1,710	1,770	1,770	1,825	1,825	1,880	1,880	1,935	17,850
<b>Previous Funding</b>											
<b>Total Funding</b>	<b>1,600</b>	<b>1,655</b>	<b>1,710</b>	<b>1,770</b>	<b>1,770</b>	<b>1,825</b>	<b>1,825</b>	<b>1,880</b>	<b>1,880</b>	<b>1,935</b>	<b>17,850</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

Slight annual increases from the previous CIP.



## 14. WATER-MAIN REPLACEMENT PROGRAM

**Project Highlights:**

- This program replaces small diameter (8-inch and below) old cast iron water mains that are more susceptible to breaks with new ductile iron mains. In conjunction with the water main cleaning and lining program, this project will improve the overall condition of the County's water main assets.
- The Water Distribution System Master Plan's goal is to rehabilitate the 250 miles of small diameter mains by 2040.
- As necessary, pipes are upsized to provide appropriate water flow and pressure.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** A portion of the annual funding will be from infrastructure availability fees (developer contributions). Other funding includes interest income. Other previously approved funds include existing PAYG balances.

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Developer Contributions</b>	2,200	2,640	2,730	2,985	2,980	3,245	3,250	3,470	3,465	3,750	30,715
<b>New Bond Issue</b>		2,490	3,590	4,090	3,815	4,620	4,615	5,225	5,230	5,205	38,880
<b>PAYG</b>			535		830		570				1,935
<b>Other Funding</b>	100	105	100	105	110	115	115	115	115	120	1,100
<b>Previous Funding</b>											
<b>Other Previously Approved Funds</b>	4,700	1,490									6,190
<b>Total Funding</b>	<b>7,000</b>	<b>6,725</b>	<b>6,955</b>	<b>7,180</b>	<b>7,735</b>	<b>7,980</b>	<b>8,550</b>	<b>8,810</b>	<b>8,810</b>	<b>9,075</b>	<b>78,820</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

Funding reflects a slight increase from the previous CIP.





**15. WATER/SEWER FRAMES/COVERS**

**Project Highlights:**

- This project involves raising or lowering a casting or precast water valve or manhole frame top from its existing elevation to line up with the adjacent grade, pavement, curb, etc.
- Water valve and manhole frames and covers are adjusted in conjunction with the annual street paving program.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** A portion of the annual funding will be from infrastructure availability fees (developer contributions).

<b>New Funding</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Developer Contributions</b>	1,000	1,035	1,070	1,105	1,105	1,135	1,130	1,170	1,175	1,210	11,135
<b>PAYG</b>						5	10	5			20
<b>Previous Funding</b>											
<b>Total Funding</b>	<b>1,000</b>	<b>1,035</b>	<b>1,070</b>	<b>1,105</b>	<b>1,105</b>	<b>1,140</b>	<b>1,140</b>	<b>1,175</b>	<b>1,175</b>	<b>1,210</b>	<b>11,155</b>
<b>Operating Impact</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>FY 2030</b>	<b>FY 2031</b>	<b>FY 2032</b>	<b>FY 2033</b>	<b>FY 2034</b>	<b>Total</b>
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

Funding increases to align funding with actual spending levels and pace of the paving program.



## 16. WATER-TANK REHABILITATION

**Project Highlights:**

- Water tanks are inspected every five years. Painting and other maintenance work are programmed accordingly based on results.
- The current funding schedule includes rehabilitation of Lee underground tank.

**Associated Plan(s):**

Water System Master Plan

**Neighborhood(s):**

VARIOUS

**Funding Notes:** Other Previously Approved Funds includes existing PAYG balances.

New Funding	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
<b>PAYG</b>		530	690	650	830	115		115		120	3,050
<b>Previous Funding</b>											
<b>Other Previously Approved Funds</b>	100	555									655
<b>Total Funding</b>	<b>100</b>	<b>1,085</b>	<b>690</b>	<b>650</b>	<b>830</b>	<b>115</b>	<b>0</b>	<b>115</b>	<b>0</b>	<b>120</b>	<b>3,705</b>
<b>Operating Impact</b>	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	Total
<b>Total Impact</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Changes from Prior CIP:**

No change from the previous CIP.