Stormwater Utility and Flood Mitigation Advisory Committee

January 15, 2025 Meeting

Tonight's Agenda

- 1. Welcome (7pm, 5 min)
- 2. Approve minutes of November meeting (7:05, 5 min, John)
- 3. Approve Committee charter (7:10, 10 mins, John)
- 4. Program Update from City Staff (7:20pm, 40 min, City staff)
 - Large capacity projects: Commonwealth/Ashby/Glebe; Hooffs Run Culvert Bypass, Pitt & Gibbon
 - Spot Improvements
 - Sanitary Sewer Upgrades
 - Sanitary Sewer Renewal program
 - Communications
 - Maintenance
 - Mitigation grant program
- 5. Preparation for FY2026 Budget Season (8:00, 20 min, John)
- 6. Discussion of recent Virginia law allowing property tax exemption for flood mitigation improvements by homeowners (8:20, 20 min, John & Katie)
- 7. Public Comment (8:40pm, 20 min)
- 8. Adjourn (9:00pm)



Welcome remarks



Review of Minutes



Approve Committee Charter



Program Update from City Staff



Flood Action Progress Report: Commonwealth, Ashby, Glebe

Large Capacity - Commonwealth Ave & E.Glebe/Ashby St & Glebe Rd

Project Webpage		Project Description											
https://www.alexandriava.gov/si management/commonwealth-ai	tormwater- shby-glebe-flood-mitigation-project	This project will improve storm sewer system to mitigate flooding for the future 10-year design storm at two problem areas: the intersection of Commonwealth Ave and Ashby St, and at the intersection of Ashby St and E Glebe Rd											
Project Information													
Current Phase:	Design												
Total Planned Budget:	\$47,166,354.00												
Funding Sources:	SWU, CPFP												
Schedule - Calendar Year	• •												
chedule Phase	2020 2021 01 02 03 04 01 02 03 04 01	2022 2023 2024 2025 2026 2027 2028 2029 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1											
lanning													

- Continuing 90% design progression
- Performed additional survey at outfall. Looking at design options to lower culvert to avoid utility conflicts
- Reviewing consultant proposal on utility test pits. Anticipate start within 4-6 weeks
- Putting together materials for Winter public meeting



Flood Action Progress Report: Hooffs Run Culvert Bypass Project

- Project objectives
 - Convey the 10-year future rainfall event without worsening flooding elsewhere in the drainage system.
 - Where control of the 10-year future storm is not practicable, reduce flooding as much as possible.



Flood Action Progress Report: Hooffs Run Culvert Bypass Project

- A desktop analysis is being performed on the high-performing alternatives.
- The analysis is an initial assessment to evaluate the feasibility of the alternatives
- The analysis includes:
 - Engineering feasibility
 - o Cost
 - Constructability
 - Disruption of City functions
 - Potential negative impacts on the community



Flood Action Progress Report: Hooffs Run Culvert Bypass Project

- City staff and project consultants are developing a set of possible design alternatives, which are being analyzed and evaluated.
- As the planning phase continues, project teams will be narrowing down the alternatives, based on several different aspects, including flood mitigation effectiveness, cost, project schedule, construction impacts, and complexity.
- Next steps
 - \circ Refine evaluation criteria
 - Continue evaluation of alternatives
 - $\,\circ\,$ Define a course of action
 - $\,\circ\,$ Start the design phase



Flood Action Progress Report: CSS

- Pitt & Gibbon (\$20-25M) CSO surcharge mitigation. Project team reviewing alternatives to mitigate flooding for the 10-year storm. Schedule pending.
- Nethergate (\$5M) CSO Surcharge mitigation. Project transitioned from planning to design phase. Project team working on task order request for on-call design consultants. Public meeting to be scheduled once designer on board.

Project Webpage		Project Description
https://www.alexandriava.gov/capital-projects/project/nethergate- storm-sewer-improvements		The purpose of this project is to mitigate flooding in the Nethergate Townhome community based on reports from residents after intense rainfall events. The project area is bound by Bashford Ln to the north, Second St. to the south Portner Rd to the west and W Abingdon Dr to the east. As part of this project, the design team will analyze hydraulic
Project Information		capacity of the existing storm sewer, and develop alternatives to mitigate flooding.
Current Phase:	Planning	
Total Planned Budget:	\$1,587,951.82	
Funding Sources:	SSF	

Schedule - Calendar Year (CY)												
Schedule Phase	2022 2023 2024 2025 2026 2027 Q1 Q2 Q3 Q4 Q1 Q2 Q3											
Planning												
Design												
Construction												

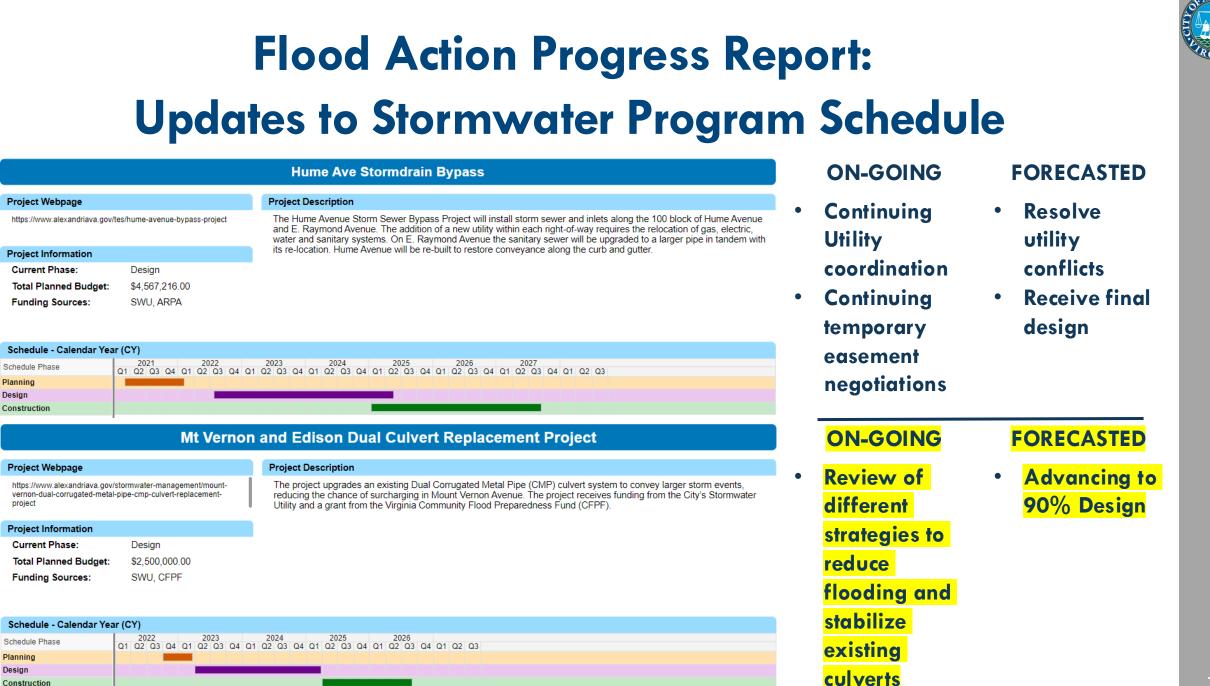


	Ве	Ilefonte Ave Storm Drain Improvements		ON-GOING	FORECASTED
Project Webpage		Project Description		Deceived for	• Advancing to
https://www.alexandriava.gov/ avenue-storm-drain-improvem	/capital-projects/project/bellefonte- nents	The Bellefonte Avenue Storm Drain improvement project aims to improve the local storm drainage system, specifically targeting areas prone to flooding during the City's standard 10-year, 24-hour storm event along East Bellefonte Avenue and East Howell Avenue. The project seeks to mitigate the impact of larger storm events while ensuring that		Received fee proposal	 Advancing to design
Project Information		improvements do not worsen flooding in other parts of the drainage system.			•
Current Phase:	Design		•	Continued	kickoff
Total Planned Budget:	\$1,564,869.29				
Funding Sources:	SWU			negotiations	
Schedule - Calendar Yea	ar (CY)				
ahadula Dhaaa	2022 2023	2024 2025 2026 2027			
anning	Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1	1 Q2 Q3 Q4 Q1 Q2 Q3			
esign					
construction					
	Clifford Ave, Fulto	on St. & Manning St. (CFM) Storm Sewer Improvements		ON-GOING	FORECASTED
Project Webpage		Project Description		Received 30%	• Comulato
https://www.alexandriava.gov/o avenue-fulton-street-and-manr improvements		The Clifford Avenue, Fulton Street and Manning Street (CFM) Storm Sewer Improvements Project will provide flooding mitigation to townhouses along the 3000 block of Fulton Street and Manning Street. The alley bound between the two streets will be re-built to channelize surface flow and improve drainage. Inlets and underground storage will be installed to capture and attenuate stormwater runoff. Utility impacts will be identified and resolved during the design phase.	•	Design &	 Complete 30% design
Project Information				boggs 200%	• Host
Current Phase:	Design			began 30%	- 1021
Total Planned Budget:	\$831,630.00			design review	community
Funding Sources:	SWU, HUD (Beyer)				Meeting
Schedule - Calendar Yea	ır (CY)				
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Planning Design Construction



		Edison St. Storm Sewer Upgrades		ON-GOING	FORECASTED
Project Webpage		Project Description		Continuina	
https://www.alexandriava.gov/stormwater-management/edison- street-and-dale-street-early-phase		The Edison St. Storm Sewer Upgrades Project proposes to upgrade the storm sewer system capacity along the 3800 block of Edison Street to the outfall in Four Mile Run Park. Additional inlets are proposed along Edison Street to increase storm water capture. These storm sewer improvements are a portion of the future Large Capacity Project –	•	Continuing Utility	 Planning Pre- construction
Project Information		Edison and Dale that have been accelerated upon receiving funding from Virginia Community Flood Preparedness Fund (CFPF) prior to the funding becoming available in FY 2026.			
Current Phase:	Design	r and (or r r) phone are randing becoming available in r r 2020.		coordination	community
Total Planned Budget:	\$979,000.00				
Funding Sources:	SWU, CFPF		•	Received revised final	meetingAdvancing to
Schedule - Calendar Year	r (CY)			destaus	
		2023 2024 2025 2026 1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3		design	Construction
Planning					Procurement
Design Construction					
	Four Mile R	tun and Hoofs Run Inlet Installation and Enhancement		ON-GOING	FORECASTED
Project Webpage		Project Description			
https://www.alexandriava.gov/o and-hooffs-run-inlet-installation	capital-projects/project/four-mile-run- n-and-enhancement	This project will focus on comprehensive analysis of the existing stormwater inlet capacity across Four Mile Run and Hoofs Run watersheds. By evaluating the capacity of existing stormwater inlets within these two watersheds, this project will provide recommendations on installing new inlets and upsizing existing ones to mitigate local flash floods	•	Planning completed	 Development of design
Project Information		and to enhance the overall conveyance efficiency of the storm sewer system. The project receives funding from the City's Stormwater Utility and the Virginia Community Flood Preparedness Fund (CFPF) grant.		•	or design
Current Phase:	Design	• Oky 3 Clothiwater Ounty and the Virginia Community Frood Freparedness Fund (OFFF) grant.	•	Final Inlet	solicitation
Total Planned Budget:	\$1,584,100.00				_
Funding Sources:				Study Report	Procure
				being	design
Schedule - Calendar Yea	r (CY)			U	•
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Design			·	Design begins	
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Planning Design

Planning Design



Project Webpage Project Description Miter New allebrandities goveragets indexed by other Service Intermeter Service INIT provide flood mitigation for townhomes on the address and share to address and to address and share to address a		Mt. Vernon Cul	-de-sac Inlets and Alley Storm Sewer Improvements		ON-GOING	FORECASTED
Index sector Index sector Project Information Current Phase Construction Schedule - Calendar Year (CY) Schedule - Calendar Yea	Project Webpage		Project Description		D	
Project Information Information of an additional during and the during addition of new during glound durings requires in effectuation concerns and planning responses and adjustments outreach Schedule - Calendar Year (CY) Schedule - Calendar Year (CY) construction outreach adjustments outreach adjustments private utility. Schedule - Plane p1 202 0 0 4 ot 10 22 0 0 4 ot 10 22 0 0 4 ot 10 22 0 0 4 ot 10 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			100 block of Mt. Vernon Avenue. Inlets and underground storage vaults will be installed on Mt. Vernon Avenue and it's adjacent alleyway to capture and attenuate storm water runoff. In tandem with work, the alleyway will be re-graded to	•		
Current Phase: Construction Concerns and outreach Total Planned Budge: S2,055,041.00 Planning • Water main Funding Sources: SWU, ARPA • Water main responses and relocation by Schedule - Calendar Year (V) • Overlook Drainage Improvements • Overlook Drainage Improvements private utility Panning • Overlook Drainage Improvements • Project Monage Improvements • Project Norder Stand • Project Project Information • Overlook Drainage Improvements • Overlook Drainage Improvements • Project weby age • Project Project Information Current Phase: Construction • Project Manage Improvements • Project Coleseout & final • Project Current Phase: Standue Phase: Standue Phase: • Standue Phase • Project • ON-GOING • Project Construction • Standue Phase: Standue Phase: • Project • Project • Omplete Project Information Current Phase: Standue Phase: • Standue Phase • Project • Omplete Total Phase: Standue Phase: Standue Phase: Standue Phase • Onstruction • Onstruction </td <td>Project Information</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Project Information					
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Project Information downstream storm sewer for the 10-year storm. Current Phase: Construction Total Planned Budget: \$387,979.35			overtops the north curb of the driveway access and flows towards Pullman PI. This project will increase inlet capture	•	•	•
Current Phase: Construction Total Planned Budget: \$387,979.35	Project Information				Closeout &	complete
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Schedule - Calendar Yea	Schedule - Calendar Year (CY)																						
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Planning																							
Design																							
Construction													_										



	Oakland Te	rrace Timber Branch Channel Wall Replacement		ON-GOING	FORECASTED
Project Webpage		Project Description		Continued	• Wall
https://www.alexandriava.gov/capital-projects/project/oakland- terrace-timber-branch-channel-wall-reconstruction		This project replaces approximately 205 linear feet of an existing concrete retaining wall with a vegetative reinforced revetment and bioengineered soil.	•	construction	replacement
Project Information					•
Current Phase:	Construction				complete
Total Planned Budget:	\$307,854.00				-
Funding Sources:	SWU				 Grow-in of live stakes &
Schedule - Calendar Year	r (CY)				vegetation
Schedule Phase	2020 2021 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q	2022 2023 2024 2025 1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 <			vegeiulioli
lanning					
lesign					
Construction					
	S	Jordan St. Stormwater Improvement Phase II		ON-GOING	FORECASTED
Project Webpage		Project Description		D : (
https://www.alexandriava.gov/capital-projects/project/s-jordon-st- stormwater-improvement-project-phase-ii		This project will design a solution to reduce backyard flooding risk to the maximum extent practicable on the north side	•	Preparing for	 Project
	ect-phase-ii	of the block of 95 to 127 South Jordan Street. After the field investigation, reviewing CCTV recordings and reading the consultants recommendations, one small scale project was identified. SWM team to work with private property owners		design phase	kickoff
stormwater-improvement-project	cc-pnase-ii	consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan		design phase	kickoff
stormwater-improvement-project	Planning	consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan to obtain a 15-ft. wide permanent easement for the storm drain system in this neighborhood as part of this project. Obtaining an easement will allow the City to provide maintenance to the storm drain system without having to request		design phase project kickoff	kickoff meeting
stormwater-improvement-project	·	consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan to obtain a 15-ft. wide permanent easement for the storm drain system in this neighborhood as part of this project.			meeting
stormwater-improvement-project Project Information Current Phase:	Planning	consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan to obtain a 15-ft. wide permanent easement for the storm drain system in this neighborhood as part of this project. Obtaining an easement will allow the City to provide maintenance to the storm drain system without having to request			
stormwater-improvement-project Project Information Current Phase: Total Planned Budget:	Planning \$530,000.00	consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan to obtain a 15-ft. wide permanent easement for the storm drain system in this neighborhood as part of this project. Obtaining an easement will allow the City to provide maintenance to the storm drain system without having to request			meeting
stormwater-improvement-project Project Information Current Phase: Total Planned Budget: Funding Sources:	Planning \$530,000.00 SWU	consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan to obtain a 15-ft. wide permanent easement for the storm drain system in this neighborhood as part of this project. Obtaining an easement will allow the City to provide maintenance to the storm drain system without having to request			meetingPurchaseOrder issued
stormwater-improvement-project Project Information Current Phase: Total Planned Budget: Funding Sources: Schedule - Calendar Year	Planning \$530,000.00 SWU	consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan to obtain a 15-ft. wide permanent easement for the storm drain system in this neighborhood as part of this project. Obtaining an easement will allow the City to provide maintenance to the storm drain system without having to request			meetingPurchase

Design Constructio



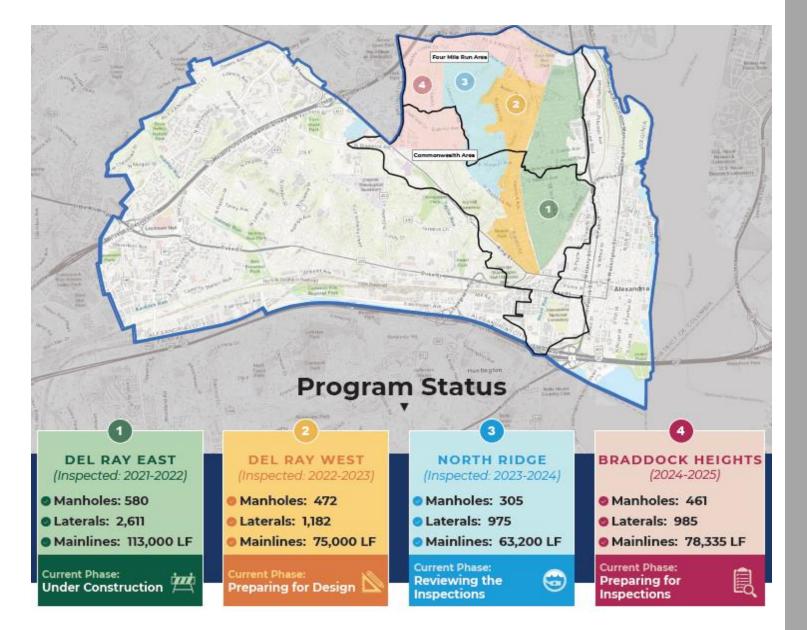
	Va	alley Drive Storm Drain Improvements		ON-GOING	FORECASTED
Project Webpage		Project Description	•		• Design
https://www.alexandriava.gov/ storm-drain-improvements	'capital-projects/project/valley-drive-	The Valley Drive Storm Drain improvement project aims to improve the local storm drainage system, specifically targeting areas prone to flooding during the City's standard 10-year, 24-hour storm event along Valley Drive, Crestwood Drive, Summit Avenue, and Dogwood Drive. The project seeks to mitigate the impact of larger storm events while	•	Survey crews are on-site	orientation
Project Information		ensuring that improvements do not worsen flooding in other parts of the drainage system. Following City Council approval, staff is working on an application for a state Community Flood Preparedness Fund (CFPF) grant for a 60/40			
Current Phase:	Design	match in the amount of \$2,160,000 with local Stormwater Utility funding of \$1,440,000 identified for the match.		collecting data	and public
Total Planned Budget:	\$3,639,999.29				
Funding Sources:	SWU		•	Continuing	<mark>engagement</mark>
				alternative	
Schedule - Calendar Yea	ır (CY)			accoccmon	
Schedule Phase	2022 2023 01 02 03 04 01 02 03 04 01	2024 2025 2026 2027 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3		assessment	
Planning					
Design					
Construction					
	W. Ree	d Ave & Dale St Storm Sewer Improvements		ON-GOING	FORECASTED
Project Webpage		Project Description		Deviewing	De estus 000/
https://www.alexandriava.gov/s street-and-dale-street-early-ph	stormwater-management/edison- lase	W. Reed Ave & Dale St. Storm Sewer Improvements Project proposes new inlets and storm sewer along the 100 block of W. Reed Ave and capacity improvements along the downstream system to the outfall in Four Mile Run Park. These storm sewer improvements are a portion of the future Large Capacity Project – Edison and Dale that have been	•	Reviewing joint permit	 Receive 90% design
Project Information		accelerated with Virginia Community Flood Preparedness Fund (CFPF) prior to the funding becoming available in FY 2026.			
Current Phase:	Design	2020.		application	• Begin 90%
Total Planned Budget:	\$2,230,000.00				_
Funding Sources:	SWU		•	Continuing	design
				90% design	review
Schedule - Calendar Year	r (CY)				
Schedule Phase	2022 2023 01 02 03 04 01 02 03 04 01	2024 2025 2026 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3			
Planning					

Design Constructio

Sanitary Sewer Asset Renewal Program

• Del Ray East Sewer Rehabilitation:

- Contractor issued Notice to Proceed Oct 16, 2023
 - Contract period = 1 year, extended until lining complete (end January)
- Construction progress:
 - 98% pipes lined
 - 100% manholes rehabilitated
 - Lateral sewers under separate contract – Invitation to Bid upcoming (early 2025)







Sanitary Sewer Backup Mitigation Projects

- Types of projects aimed at mitigating sewer backups:
 - Asset Renewal Program reduce infiltration and inflow into the sanitary sewer system
 - Sewer Upsizing Projects replace existing sewers with larger sewers
 - Del Ray Upsizing Project #1 Construction Notice to Proceed January 2025
 - 300/400 blocks N Alfred Street Construction Notice to Proceed February 2025
 - Madison and Saint Asaph Bids received, contract award Jan/Feb 2025
 - 400 block Wolfe Street 100% design completed, Invitation to Bid Feb/Mar 2025
 - Combined Sewer Separation Projects disconnection of sanitary sewers from combined sewer system and reconnection to fully separate sanitary sewer
 - 500 block N Pitt Street construction completed
 - 600 block N Columbus Street 100% design completed, Invitation to Bid Feb/Mar 2025

Communications

November - December

- 10 Total Flood Action/ Stormwater social media posts
 - SWU Fee Credit Program, National Stormwater Day
- Impressions: 63,169 increased by 56%
- Engagements: 3,720 increased by 139%
- Post link clicks: 282 increased by 253% *Compared to previous 2 months (September - October)
- 5,488 Stormwater Management webpage views

*86 total pages under Stormwater Management web group

- Average engagement rate: 57%, Average events per session: 4
- Most popular stormwater webpages:
 - <u>Flood Map</u> = 986 views
 - <u>Types of Sewer Systems</u> = 548 views
 - <u>Flood Action</u> = 496

Additional Top Ten Pages: <u>Stormwater Utility Fee</u>: 338 views <u>Flood Mitigation Grant Program</u>: 192 views Watersheds: 157 views





Upcoming Communications Priorities

- Flood Mitigation Grant Program
- Commonwealth, Ashby, Glebe
- SWU Fee Credit Program

St ALF CAL

Maintenance Activities

- Hooffs Run Culvert Maintenance and Cleaning from Linden Street to Duke Street
 - Maintenance work is underway and expected to continue until April 2025.
 - Barrel 1 is 95% cleaned.
 - Concrete repairs in Barrel 1 are ongoing.
 - Staging areas are located in Linden Street Alley, Mount Vernon Avenue cul-de-sac and Hooffs Run Park



Flood Mitigation Grant Program

- We have reimbursed a total of \$1,098,021.41 since the start of the program in July 2021.
- So far in FY2025, we have 70 applications in various stages with a total of \$107,174.18 reimbursed.
- In FY2024, we had 101 approved applications for a total of \$235,145.16 reimbursed.
- In FY2023, we had 73 approved applications for a total of \$167,538.49 reimbursed.
- In FY2022, we had 148 approved applications for a total of \$588,163.58 reimbursed.



Annual SWU Credit Application Window

- Annual credit window is open from December 1 to February 15
- Approved eligible credits are good for 2 years
- Floodproofing practices added to eligibility list
- Residents who applied in the 22/23 cycle received two emails to reapply.
 Latest email reminder was sent Tuesday, January 14th.
- Over 120 applications have been received.
- Next webinar is Wednesday, January 22nd at 7pm. Come with questions!



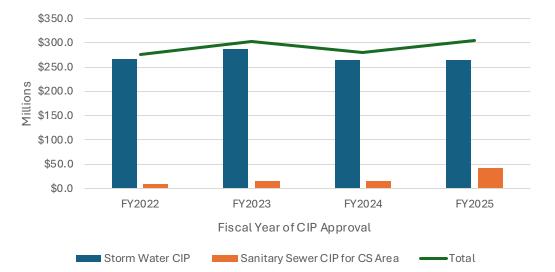




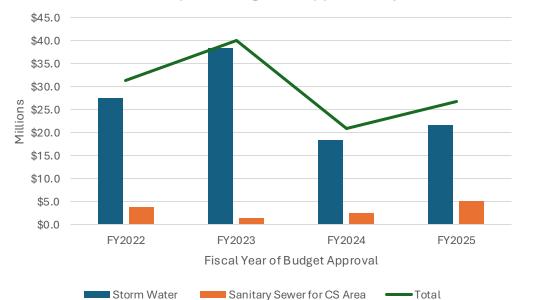


Preparation for FY2026 Budget Season

Ten-Year Capital Improvement Program as Approved by Council



Current Year Capital Budget as Approved by Council



Public Hearing Opportunities for FY2026 Budget

Note: City Manager's Budget is presented on

Tuesday, February 25, at 7pm

Monday, March 10, at 5:30pm

Saturday, March 15, at 9:30am

Tuesday, April 8, at 5:30pm

Note: Our next Committee meeting is on Wednesday, March 19, at 7pm



Discussion of recent Virginia law allowing property tax exemption for flood mitigation improvements by homeowners AGENDA ITEM #5

Recent Virginia law permits property tax exemption for flood mitigation improvements

CHAPTER 754

An Act to amend the Code of Virginia by adding in Article 3 of Chapter 32 of Title 58.1 a section numbered 58.1-3228.1, relating to partial exemption from real property taxes for flood mitigation efforts.

> [S 1588] Approved March 21, 2019

1. That the Code of Virginia is amended by adding in Article 3 of Chapter 32 of Title 58.1 a section numbered 58.1-3228.1 as follows:

§ 58.1-3228.1. Partial exemption from real property taxes for flood mitigation efforts.

B. The governing body of any county, city, or town may, by ordinance, provide a partial tax exemption for improved real estate that is subject to recurrent flooding and upon which qualifying flood improvements have been made. No exemption shall be granted for any improvements made prior to July 1, 2018.

Alexandria administers a program of tax exemptions for solar energy improvements



SOLAR ENERGY EQUIPMENT TAX EXEMPTION City of Alexandria, Virginia

General Information

Property owners can qualify for a tax exemption for the installation of solar equipment that is designed and used primarily for the purpose of providing for the collection and use of solar energy for water heating, space heating or cooling or other applications which would otherwise require a conventional source of energy. Qualifying solar



Public Comment



Adjourn