ADVISORY GROUP

MANAGER'S MESSAGE

ABOUT US

Are We There Yet? A question that we get asked often is why it takes so long to design a new storm sewer. It is

a valid question: our large capacity projects can take two to three years to design. Sometimes the next question we get asked is why design takes longer than construction. I like to use the analogy of a free kick in a soccer match. The goalie is telling the defenders where to stand and where to form the barrier. The attackers are deciding who is going to kick and what maneuvers they will use to trick the

but the kick itself is a matter of seconds.

rivals. The referee is making sure no one is standing in an illicit position. Finally, one of the strikers kicks the ball in hopes of scoring a goal. All this preparation takes a few minutes, Loosely, this is what happens when we design a new storm sewer system. These are complex projects with numerous variables and, more importantly, numerous unknowns. Like the free kick, we need to do quite a bit of work upfront to ensure the success of the project.

ENEWS

The main source of unknowns is what we cannot see, for example buried utilities such as water and gas lines, electric wires, sanitary sewers, telecommunications, fuel lines- even an archeological site is a possibility in Alexandria. These utilities need to be relocated in order to have space for new storm sewers, and everything must fit within the right-of-way, which often

is a tight squeeze because the new pipes are very large. Sometimes the City needs to acquire an easement for construction access and future maintenance. Careful attention is paid to maintenance of traffic for residents and businesses to move about during construction. In addition, we must conduct environmental surveys to investigate whether there are hazardous materials, and inventory trees in the project areas to

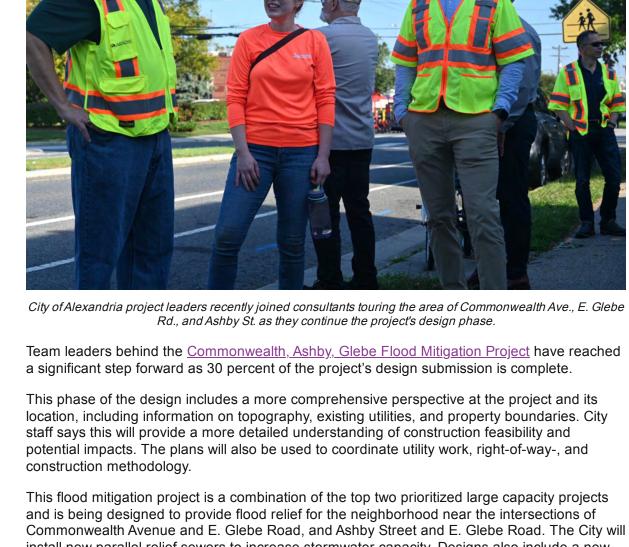
minimize potential impacts. All solutions to these problems need to be carefully documented in engineering drawings and standards that a construction contractor can use to implement the project. Finally, all permits must be secured to be able to construct the project. These are some of the issues we encounter when we are designing flood control infrastructure. It all takes time. Moreover, each project is one of a kind; therefore, we cannot recycle much of the design work we do in other projects.

In the end, all this preparation is carefully done so that the free kick- construction- results in scoring a goal.

Dan Medina, Program Manager of Flood Action Alexandria Editor's note: The Manager's Message is a periodic editorial authored by senior leaders of the City of Alexandria.

PROJECT UPDATES

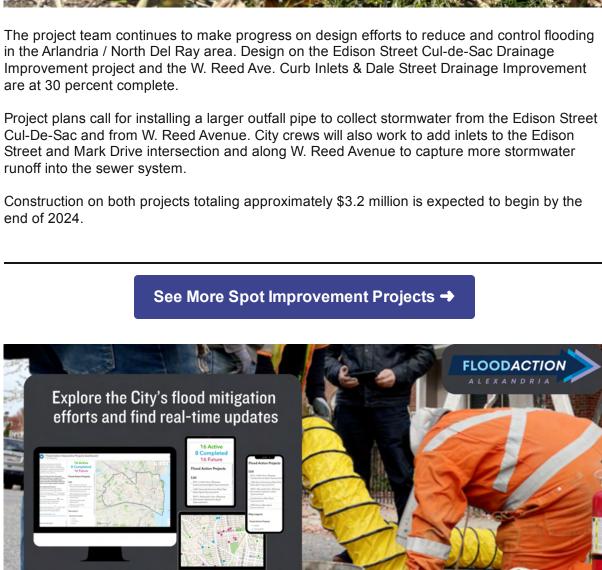
LARGE CAPACITY PROJECTS Commonwealth, Ashby, and Glebe



install new parallel relief sewers to increase stormwater capacity. Designs also include a new outfall to discharge flows to Four Mile Run. The total project is estimated at \$50 million. Team leaders are now looking ahead to the project's next milestone, when the design

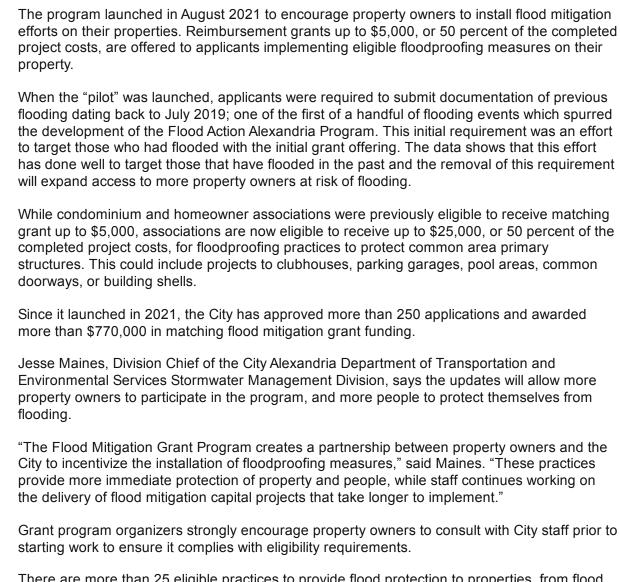
submission will reach 60 percent. City staff anticipate that to take place by spring of next year and will be accompanied by a public outreach event to discuss with stakeholders. **Hooffs Run Culvert Bypass Project**

The bypass project will provide flood relief for neighbors, homeowners, and businesses along the Hooffs Run and Timber Branch culverts while sustaining conditions in other locations in the City. Models are currently considering installing new parallel stormwater pipes under Russell Road to increase stormwater capacity, provide storage, and reduce flooding. Project leaders continue to consider multiple metrics for its design, which measure how effective the project will be at reducing flooding, its complexity, cost, and impact to residents. The design team is beginning to review potential alternatives for the project. They are asking residents in the area of Hooffs Run and Timber Branch who have experienced or witnessed flooding to complete a short questionnaire. Feedback will be used to provide the City with information as design alternatives are being considered. The questionnaire is available online and will be open through December 8. See More Large Capacity Projects →





NEWS



(DCR) and, if approved, will provide grant funding up to \$525,000 to develop this plan. The City-wide Flood Resilience Plan will identify flood mitigation, preparedness, response, policies, and regulations. This will help guide Flood Action Alexandria programs and projects to better serve the community and build flood preparedness. **Turn Your Flood Mitigation Practices Into Money in Your Pocket** The City is accepting applications for the

> Stormwater Utility Fee Credit Program. Property owners can submit eligible flood mitigation practices to receive a reduction in

The credit program is designed to encourage residents to be proactive in reducing flooding

their Stormwater Utility Fee.

grant through the Federal Emergency Management Agency (FEMA) and the Virginia

effort expected to cost about \$50 million.

<u>Department of Emergency Management.</u> If accepted, this grant would help fund construction of the first phase of the Commonwealth, Ashby, Glebe large capacity project, a flood mitigation

City Council also approved the application to the Virginia Community Flood Preparedness <u>Fund (CFPF) grant program</u> to support efforts to develop of Flood Resilience Plan for the City. The grant program is administered by the <u>Virginia Department of Conservation and Recreation</u>

The credit program was updated last year by unanimous vote by City Council to add eligible flood mitigation practices as a way to reduce the fee, make the application process easier in order to provide more access to the credit program. Below is an outline of stormwater management, landscaping, and dry floodproofing practices included in the Credit Manual for residential properties. RESIDENTIAL PROPERTIES CREDIT MENU RESIDENTIAL CONDOMINIUM ASSOCIATION CREDIT MENU MANAGEMENT PRACTICES PRACTICES AIN BARRELS 10% ISTERN 10% 20% 10% 1096 RY WELL/ NFILTRATION 20% 10% 10% AIN GARDEN 10% 10% 10% 10% 20% **ELIGIBLE LANDSCAPING PRACTICES** 10% 10%

Approved credit program applicants will receive a credit reducing their Stormwater Utility Fee for two years. Property owners must then reapply in order to continue receiving credits. Online applications are available and encouraged through the City's Real Estate Assessment website. Just search for your property address and navigate to the credit application screen to fill it out electronically. Submit questions to <u>stormwater@alexandriava.gov</u>. The full Credit Manual can

The application window opens December 1 each year and deadline to apply is February 15.

Stormwater Management Division Chief Jesse Maines Named Vice

Jesse Maines, Division Chief of the City of Alexandria Transportation and Environmental Services (T&ES) Stormwater Management Division was recently selected as Vice President of the Virginia Municipal Stormwater Association (VAMSA) Board of Directors. The organization brings together more than 70 proactive local governments and leading stormwater consulting

Maines has represented the City of Alexandria as an active VAMSA member for more than a

CONGRATULATIONS

JESSE MAINES

NCRETE SEALE

be found on the Stormwater Utility Fee website.

President of VAMSA Board of Directors

BEING NAMED

firms to work for clean water and safe infrastructure across Virginia.

decade, serving the past five years as a member of the Board.

VICE PRESIDENT OF THE BOARD OF DIRECTORS

ELIGIBLE LANDSCAPING PRACTICES

UP TO 30 UP TO 209 5%

5%



SNAPSHOT

The City of Alexandria retains Class 6 rating

from the National Flood

System (CRS)

Insurance Community Rating

City Storm Crew cleaning inlets The City of Alexandria Transportation and Environmental Services, Public Works Division has

In October 2023, crews finished cleaning the inlet openings between Linden St. and Rosemont Avenue. Once that work was completed, a contractor began inspecting the culvert using

Ad Hoc Advisory Group Aims to Become Permanent Committee Over the past couple of years, the Ad Hoc Stormwater and Flood Mitigation Advisory Group and City staff have developed a collegial working relationship that continues to evolve and improve. As the Flood Action Alexandria Program increases its efforts to address flooding issues and expand its scope of improvement projects, the Group hopes to continue working alongside the City as a permanent committee.

source of communication of these efforts to neighbors, and assisting in funding and

residential communities, Civic Associations, and business groups with expertise on

environmental, engineering, and financial matters.

flooding across the City.

When it was first created in 2021, the Group was conceived as a temporary committee. Its goal was to serve as a stakeholder advisory group on the City's flood mitigation efforts, providing a

implementation oversight of projects. The ten-member group consists of representatives from

The Flood Action Alexandria Program will be implemented over the next ten years, bringing large capacity projects to fruition, and completing smaller improvement projects for targeted flood relief. Staff will be presenting an ordinance on behalf of the Group to City Council in December 2023 to install a permanent committee to replace the temporary one. This measure will allow the group to continue its support of the Flood Action Program and its efforts to reduce

FROM THE AD HOC GROUP

STORMWATER STEWARD Culverts, inlets, sanitary sewer, stormwater management, and Flood Action. These are just a few of the topics which have seldom left my mind since sitting down at my desk in the City

and Environmental Services office. As these subjects settle into the foundation of my daily routine, I'm stepping into the shoes of the many residents who are passionate about flood resiliency and eager to learn more about the stormwater projects and developments taking place across the City. That's why I'm here.

When it was time for me to step away from the world of local news, my passion for storytelling remained a driving force behind my career's next steps. That is what I hope to bring to this team of stormwater warriors. I am to shine a light on the Flood Action Alexandria story, and communicate the answers to your questions. I'm excited to have a hand in growing this newsletter, and I can't wait to see how far it will go. If

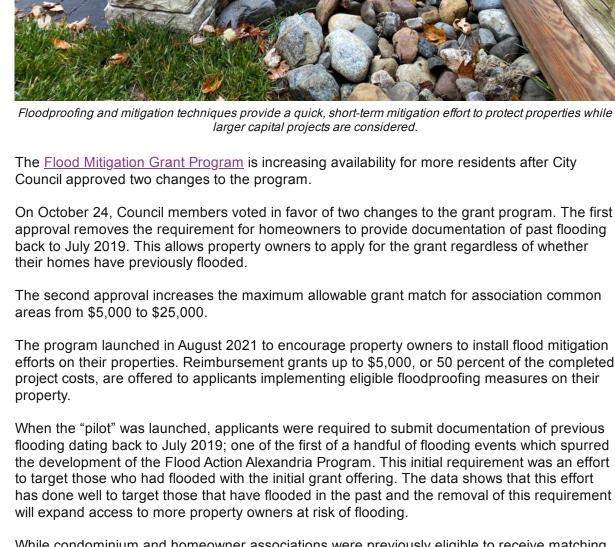
Staff from the City of Alexandria, Virginia Passenger Rail Authority (VRPA), and Virginia Railway Express (VRE) shared information and answered questions from the public on upcoming and ongoing infrastructure projects during an October open house meeting. Plans continue to move forward on the <u>Hooffs Run Culvert Bypass Project</u>. Project leaders have completed a site survey along Russell Road and the proposed project area.

SPOT IMPROVEMENT PROJECTS

Hume Avenue Stormdrain Bypass Project

The <u>Hume Avenue Stormdrain Bypass project</u> has reached a milestone completing 60 percent of the design phase. The City will install new storm sewer along Hume Avenue and E. Raymond Avenue to provide flood mitigation for homes along both roadways. The new storm sewer pipes and inlets will help capture flood water before it collects in lowlying areas and convey it safely. Construction is expected to begin in Spring of 2025 and be completed before the end of the year. Edison Street Cul-de-Sac Drainage Improvement and W. Reed Ave. **Curb Inlets & Dale Street Drainage Improvements Project**





There are more than 25 eligible practices to provide flood protection to properties, from flood gates, and window wells, to elevating utilities and using flood-resistant building materials. Applications can be submitted online via APEX, the Alexandria Permitting and Land Use System. The Flood Action website has a full list of eligible practices. Questions about the program can be submitted to Floodgrant@alexandriava.gov. The recently approved changes are now in effect. Applications are accepted on an ongoing basis. City Staff Move Forward with Grant Applications for Flood **Preparedness, Resilient Infrastructure** City Council voted unanimously at the October 24 Legislative session to approve two grant applications to help fund efforts of Flood Action Alexandria. One of the applications approved by City Council is a \$28.5 million grant for the Federal Emergency Management Agency's Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA) Grant Programs. This is a request for a 75/25 matching

and improving water quality on their properties. Owners of single-family homes, townhomes, condominiums, or businesses and other nonresidential properties may receive a reduction of up to 50 percent from their annual Stormwater Utility Fee by installing stormwater management practices based on the program's <u>Credit Manual</u>. Approved fee reductions are good for two years before a property owner Rain barrels are installed at downspouts and capture needs to reapply. roof runoff. Established in 2018, the fee provides a funding source for stormwater management services and capital infrastructure projects to Clean up the Bay by reducing nutrient and sediment pollution into the Chesapeake Bay, Potomac River, and local waterways. The funding also supports large capacity and spot improvement capital projects, operations and maintenance, and other flood mitigation efforts by the City's Flood Alexandria program. Fees are based on property type and the amount of impervious surface on the property.



SANITARY SEWER ASSET

Hooffs Run Culvert Cleaning and Inspection

RENEWAL PROGRAM

43,400 LINEAR FEET OF MAINLINE SEWER INSPECTED 733 LATERAL SEWERS INSPECTED

CCTV INSPECTIONS

27,265 FT. OF SANITARY SEWERS

pected 24.8 miles of local

streams this year to exami

their ability to properly

In 2013, The City of

Alexandria became the first

receive a Class 6 rating.

There are 1,343 flood

nsurance policies in

of Alexandria Department of Transportation

nunity in Virginia to

Closed Circuit Television (CCTV), a process which uses pictures and videos to determine a pipe's condition. To complete this work, crews place a rolling camera inside the culvert where it can be used to identify any potential defects or failures, or potential debris accumulation along the structure, and its exact location. The City contractor completed inspections to the Hooffs Run Culvert in November 2023.

nunity Rating System (CRS) is a voluntary ederal incentive program

that recognizes communities

flood management practices that exceed federal minimun

SECURING FLOOD SURANCE DISCOUN

The Class 6 rating entitles City

residents owning property in

azard Areas to receive up

designated Special Flood

a 20% discount on flood

been working on maintenance and inspection projects along the Hooffs Run culvert.

My name is Emma Wheeler, Communications Officer for the City's Stormwater Management Division. My goal is to bring an inside look into Flood Action Alexandria, to dive into the details of infrastructure and improvement projects, and share the story of the dedicated team making

Before joining the City of Alexandria, I spent several years working in television news as a multimedia journalist. I kept an ear to the pavement, detailed stories of community experience,

The Flood Action Alexandria newsletter is produced by City staff. Email us

and always asked the question why.

at <u>stormwater@alexandriava.gov</u>.

