

2022-2023 RiverRenew Stakeholder Advisory Group

Meeting No. 2

May 19, 2022

Healthier waterways start here.

Healthier waterways start here.

See something, say something – reach out with construction concerns at

Recap from March Meeting

- Provided an update on the **General Assembly**
- Introduced **Steven App**, new SAG member
- Tunnel Project **progress update**
- Tunnel Project **6-month look-ahead**
- **Community outreach** update

Tonight's Presentation

- SAG Feedback
- Tunnel Boring Machine Update
- One Water Costs in Alexandria
- Proposed Wayfinding Signage
- Tunnel Project Update and Look-Ahead
- Community Outreach
- Major Takeaways
- Public Comment Period

Virtual Meeting Best Practices

Video

- **Camera turned on** for SAG members, when possible

Audio

- **Microphones muted** unless speaking
- Avoid speaking over or interrupting each other (**see Ground Rules**)

Participation

- Questions for **SAG members only** will be taken **after each section**
- Please use the **“Raise Hand”** button to ask a question
- Questions will be **answered in the order received**
- **Public comment** will be taken at the end of the meeting. Each speaker will be allotted **3 minutes**

SAG Feedback



Review and **monitor construction/program progress**



Communicate progress to the community by leveraging existing networks



Identify concerns and **receive input** from the public



Provide recommendations regarding mitigation of construction impacts

**ATTENTION!
SIDEWALK
CLOSED**

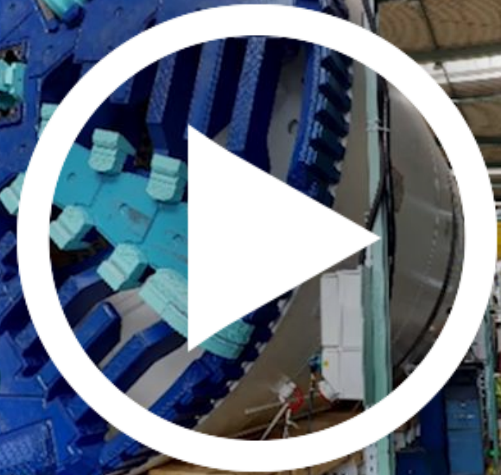




Tunnel Boring Machine Update

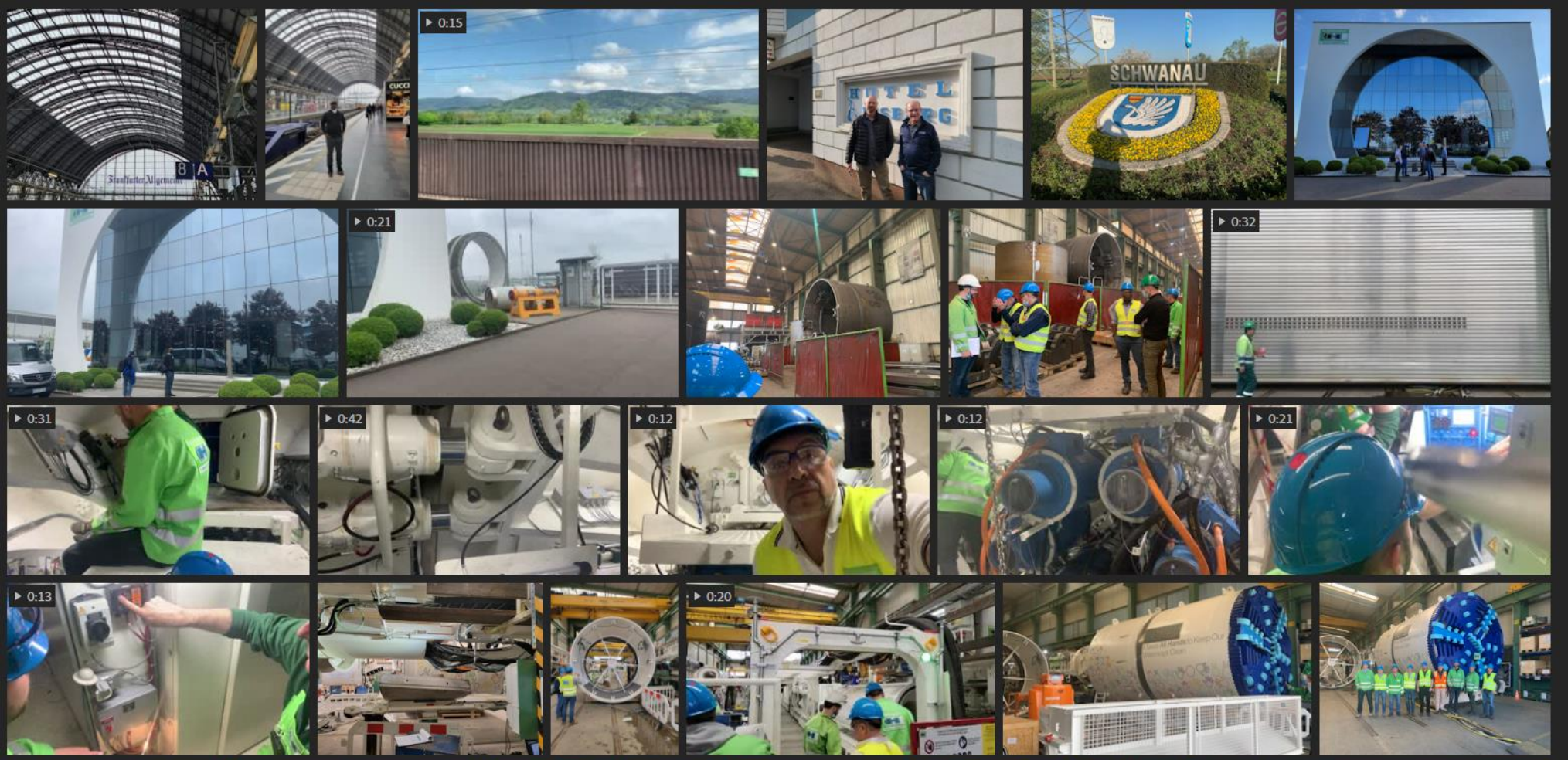
Step Inside the TBM with a Virtual Tour Video!

my.matterport.com/show/?m=DF5zxEgPUT1

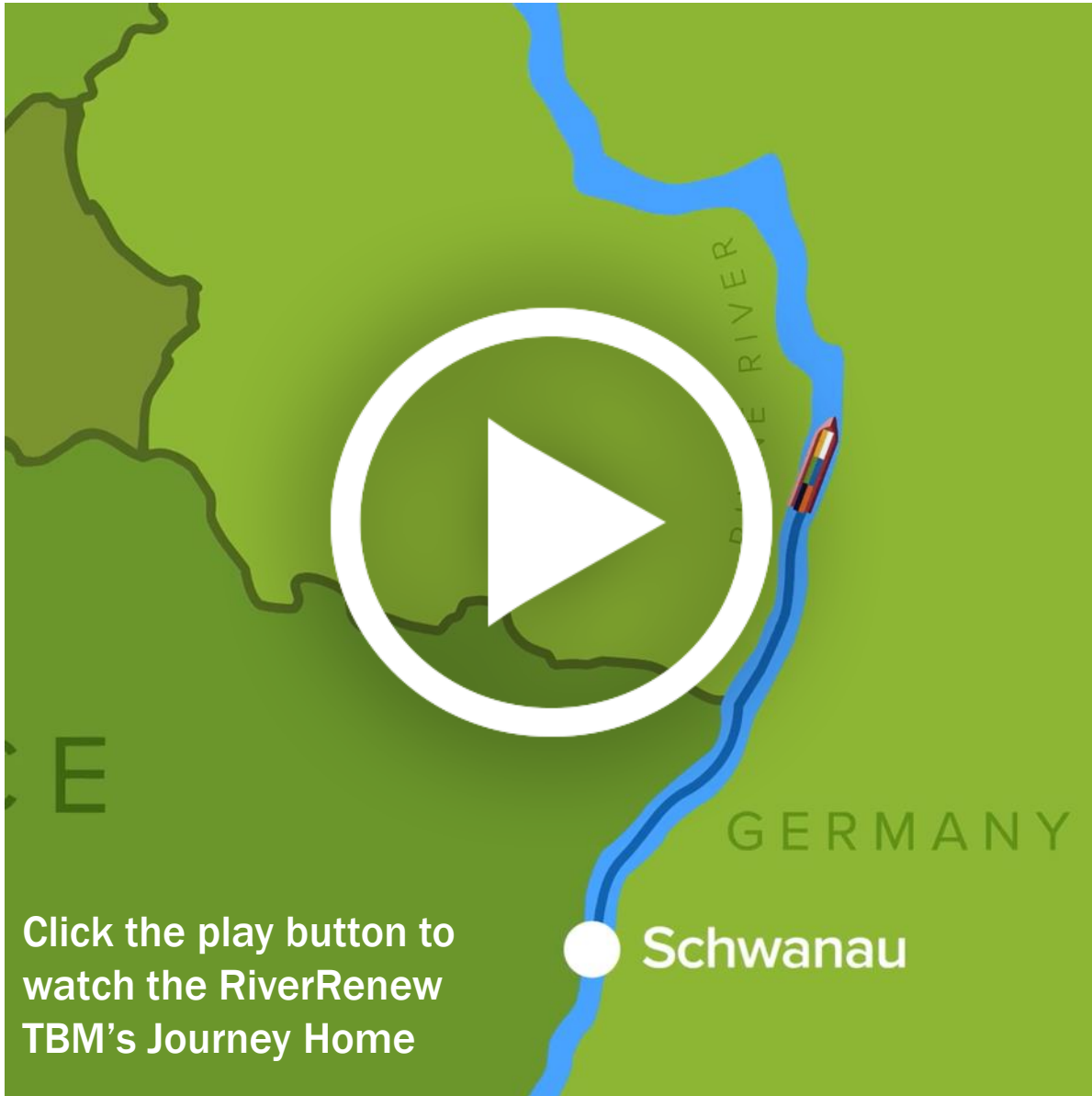


Click the play button to Step Inside the RiverRenew TBM with a Virtual Tour!

Final TBM tests and checks. Factory Acceptance Test complete!



See More Pictures and Videos:
<https://www.riverrenew.com/news/program-updates/tbm-testing>



Video of the RiverRenew TBM's journey home. Travel route from Germany to Alexandria (May-June 2022).

Last leg of the TBM journey. Potential “parade” route.

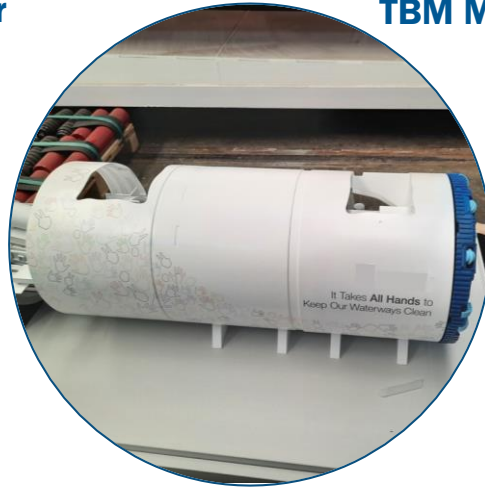


Educating the next generation. Potential TBM STEM opportunities.

TBM Virtual Tour



TBM Model



**Lobby Tours/
Classroom
Engagement**



**View from
Limerick
Field**



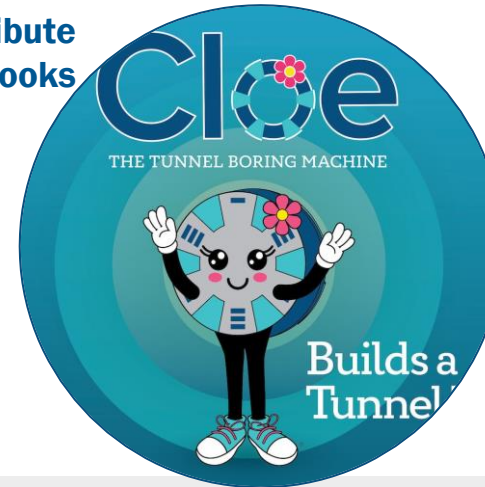
TBM "Parade"



Comic Strip



**Distribute
Storybooks**



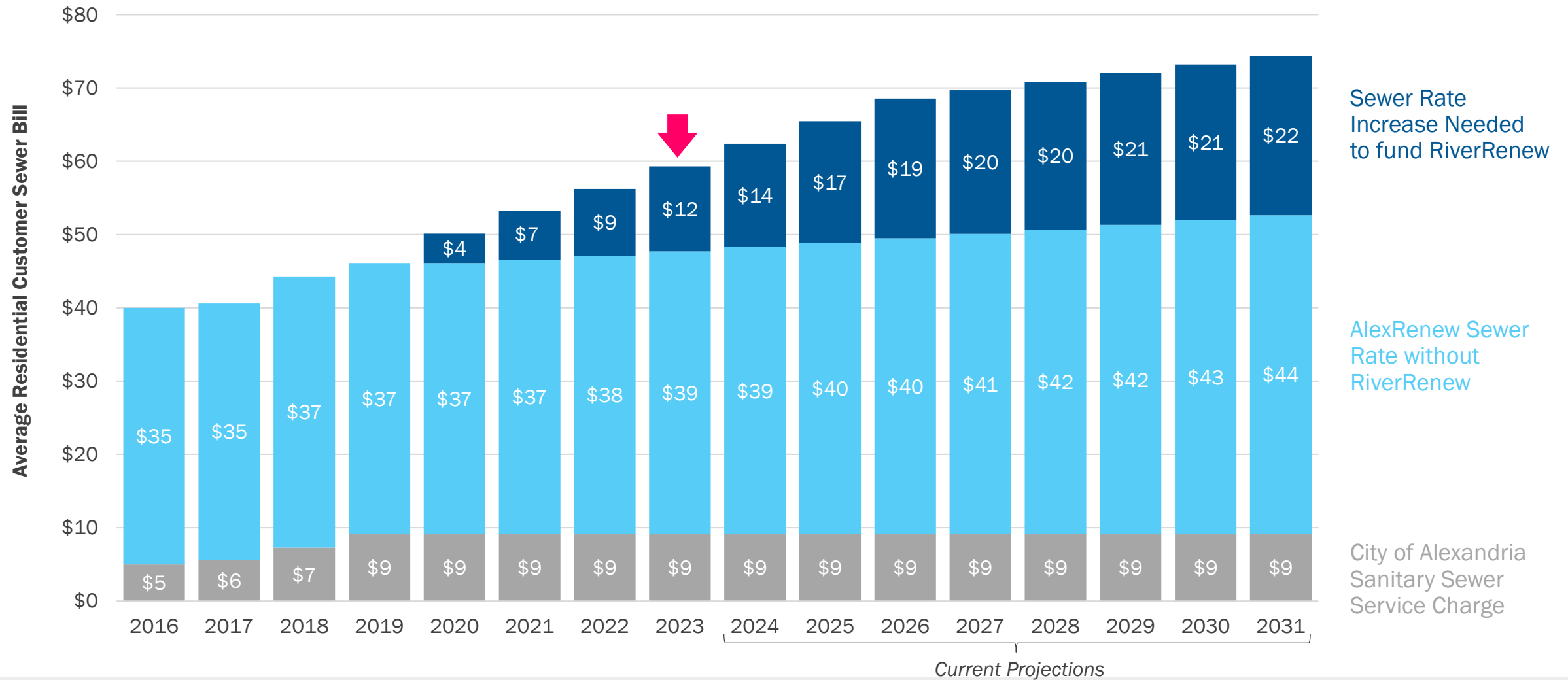
**Build Your
Own Cloe**




A man in a suit is standing at the front of a meeting room, presenting to a group of people seated at long tables. A large screen behind him displays a presentation slide with the text: "A tidal wave of a year. In 2018 AlexRenew assumed responsibility of Alexandria's combined sewer outfalls and the RiverRenew program." The slide includes a photo of a man in a blue shirt and a logo for "POTOMAC RIVERKEEPERS NETWORK". To the left of the screen is a whiteboard with handwritten notes: "Desktop Log-in user: AV605 pass: Lmarrck1" and "Guest Viter Water4Life". The room has large windows on the right side, and an "EXIT" sign is visible above the glass. The audience members are seated at tables with nameplates, including "Michelle Smith Howard", "Brian Stout", "Meg Tinkiepaugh", and "Stella Hanly".

One Water Costs in Alexandria


Funding RiverRenew. Estimated monthly sewer bill projections with RiverRenew fee.



Taking a holistic look at water in Alexandria. Estimated One Water costs in July 2022 and July 2025.



Drinking Water


Sanitary and Combined Sewer System

Current FY 23		Projected FY 26	
Monthly	Annual	Monthly	Annual
\$30	\$358	\$30	\$358

Note: FY 26 projections not available (used FY 23 values)

Current FY 23		Projected FY 26	
Monthly	Annual	Monthly	Annual
\$9	\$109	\$9	\$109



Note: Sanitary Sewer Charge appears on AlexRenew Bill



Wastewater and Combined Sewer Treatment

Current FY 23		Projected FY 26	
Monthly	Annual	Monthly	Annual
\$114	\$1,363	\$133	\$1,592

Current FY 23		Projected FY 26	
Monthly	Annual	Monthly	Annual
\$50	\$602	\$59	\$711

Stormwater

Current FY 23		Projected FY 26	
Monthly	Annual	Monthly	Annual
\$25	\$294	\$35	\$415

Note: Stormwater Fee appears on Real Estate Bill

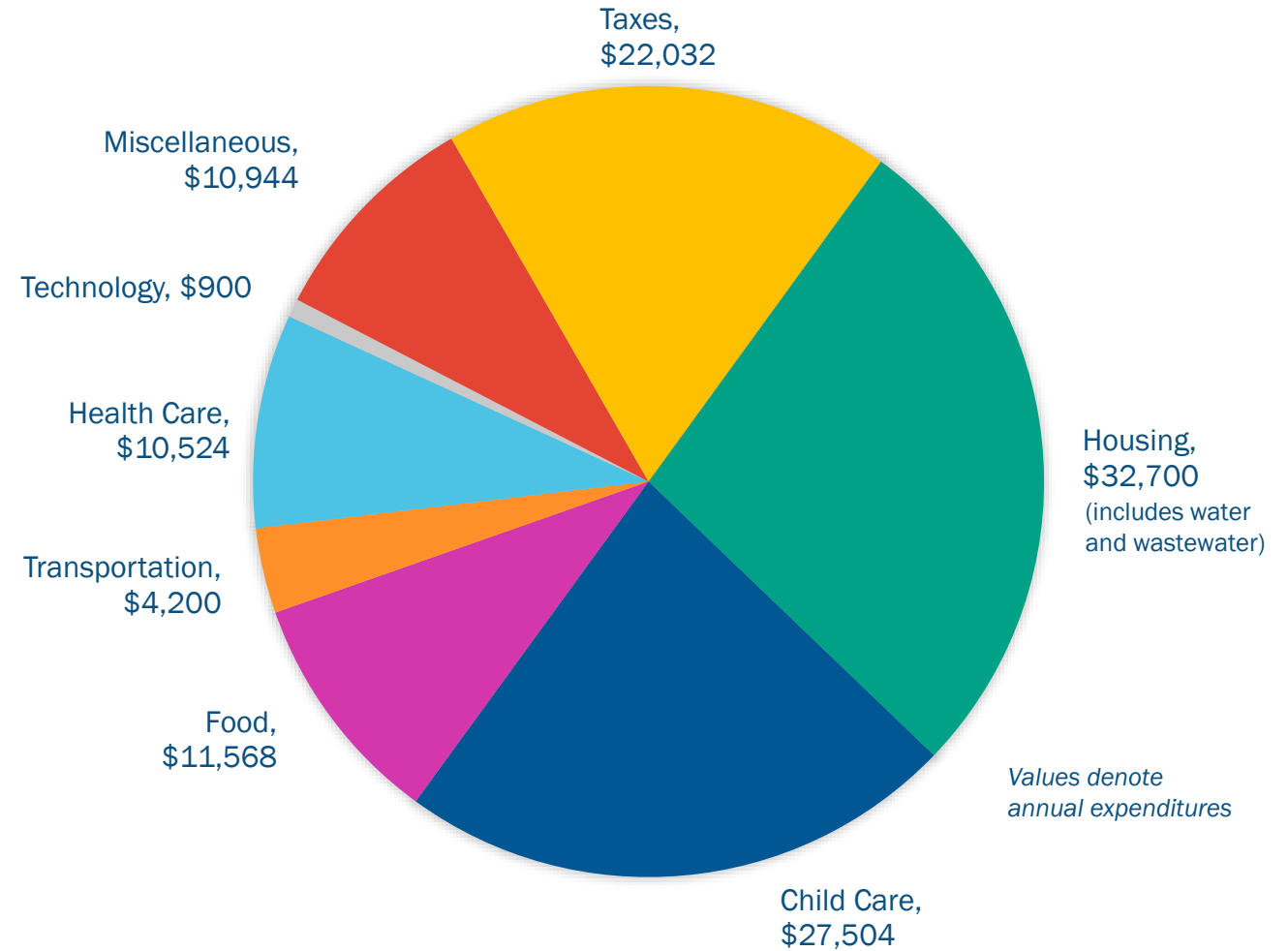
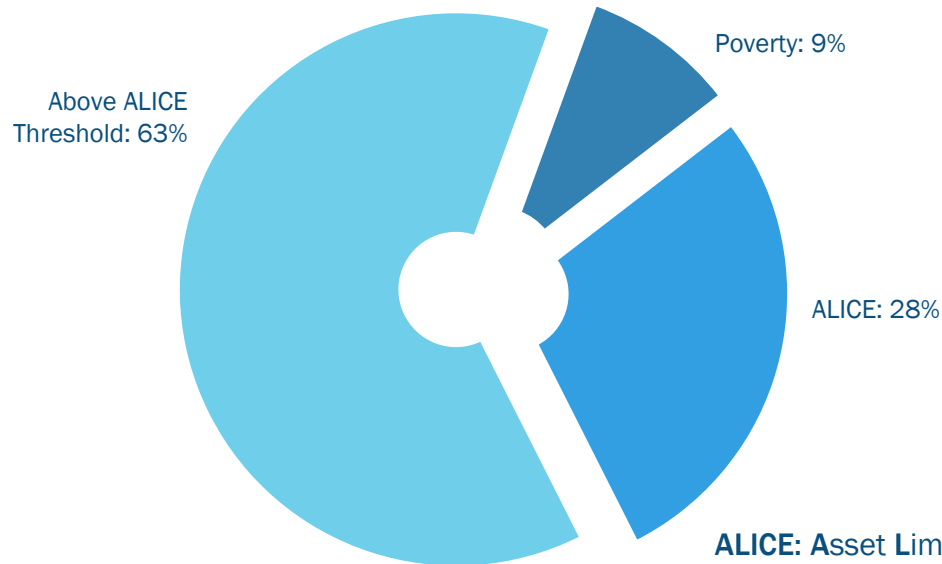
 **One Water**



Note: Based on known projections from Alexandria water entities

ALICE. Cost of basic household necessities in Alexandria.

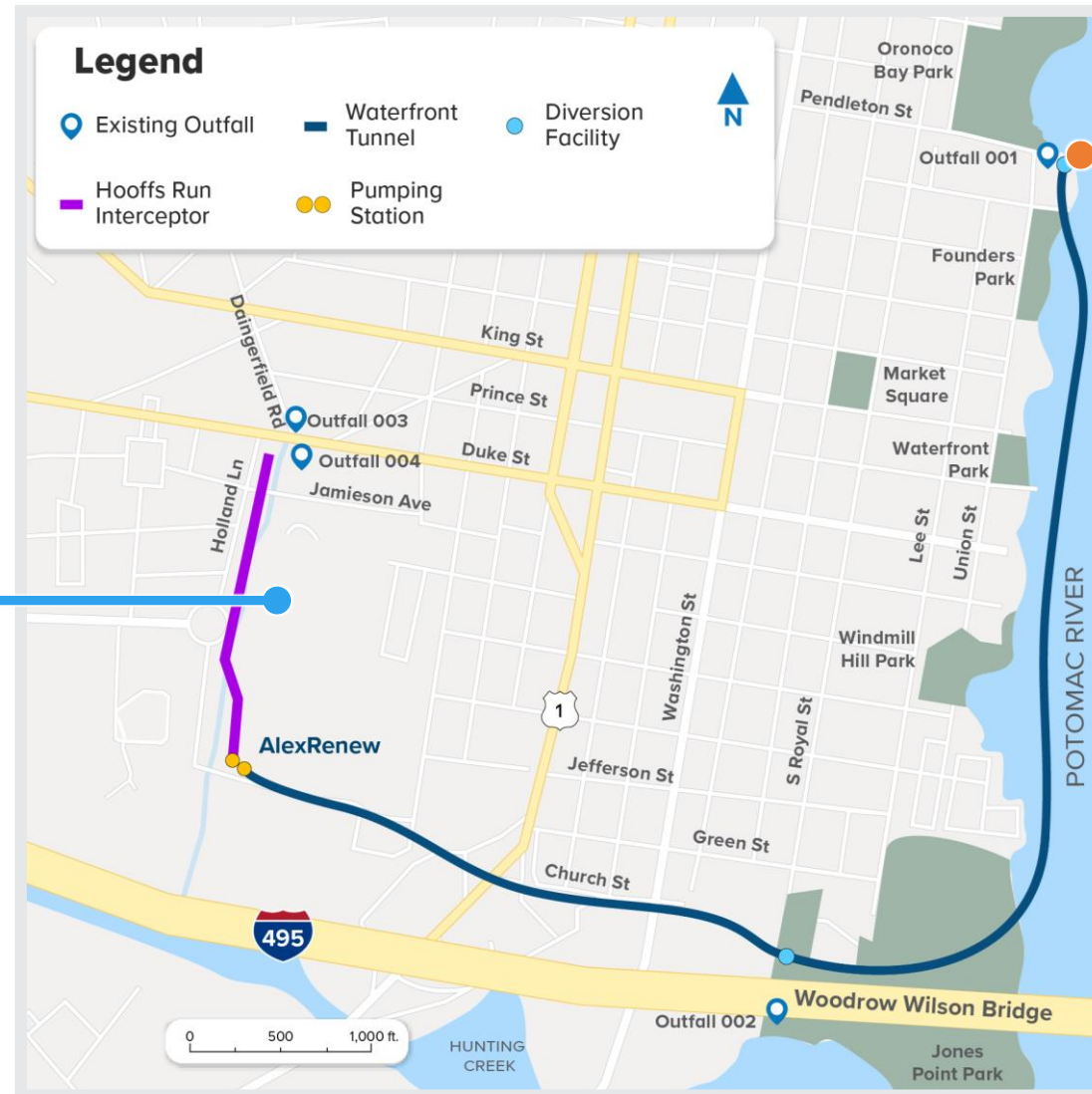
- Basic Household Survival Budget: **\$120,372**
- Full Time Hourly Wage Required: **\$60.19**
- Median Household Income **\$101,215**
- Does not include any “savings” or “extra”
- One Water Costs: **\$1,363/year**



Proposed Wayfinding Signage



Connecting Alexandria's story. Proposed wayfinding signage locations and inspiration.



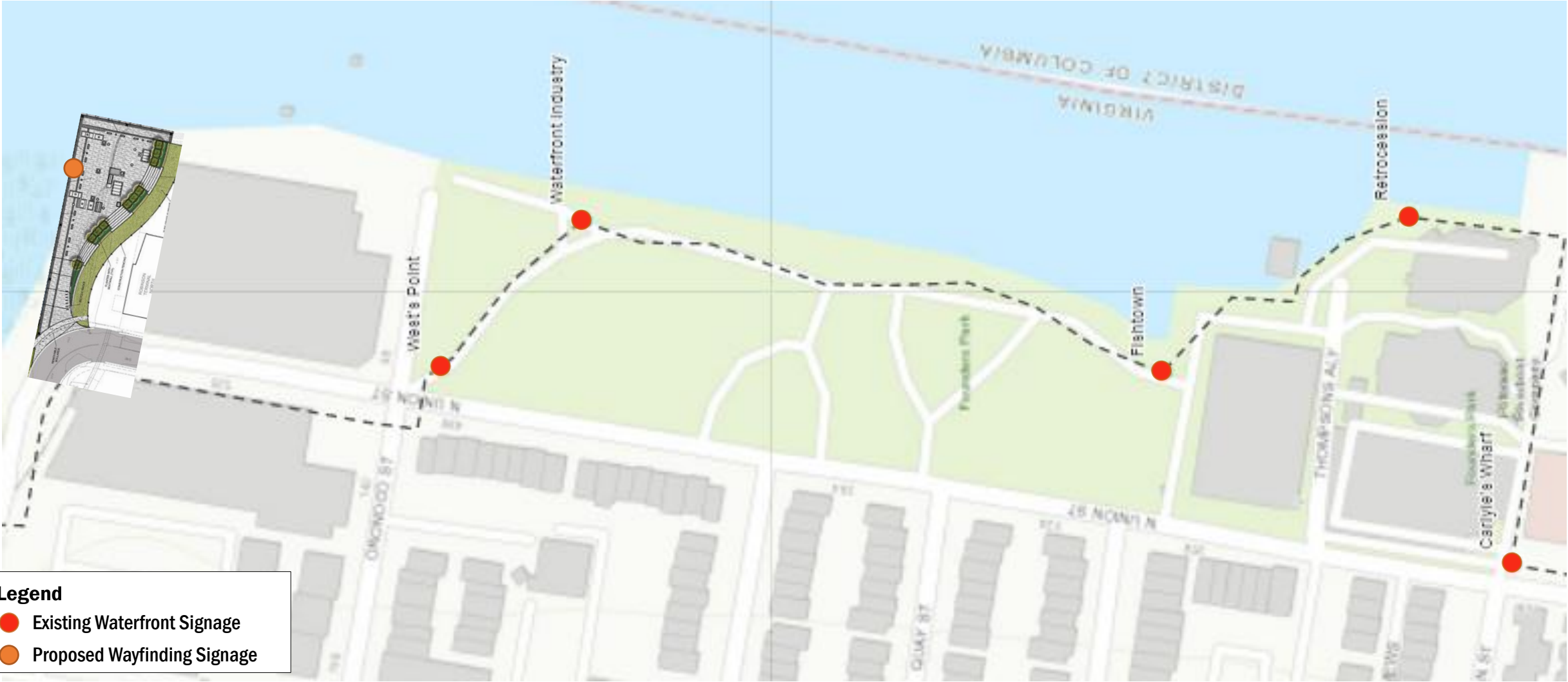
Pendleton Street Signage

- Integrate with existing Waterfront History signage
- Give history of Robinson Terminal North development
- Highlight African Americans' contributions to development

African American Heritage Park Signage

- Integrate with existing AAHP monuments
- Highlight African American history in Alexandria
- Create enhanced park experience for visitors

Telling the story of West's Point. Integrating new wayfinding signage at Pendleton Street with the Waterfront African American Heritage Trail.



DEVELOPMENT & HISTORY OF WEST'S POINT



Just south of a swampy marsh known as Ralph's Gut, a tobacco warehouse was established on a point of land at the end of Oronoco Street circa 1731. Hugh West bought the land in the 1730s and the area was named after him. At West's Point, a County Wharf for tobacco and a Public Wharf would be set up. West's Point became the earliest continuously occupied site in Alexandria. The warehouses and businesses that operated from here through the labor of enslaved African Americans would help lead to Alexandria's emergence as a city.



Plat of the land where on stands the town of Alexandria

West's Point benefitted from transportation developments within and around the City of Alexandria. In 1843, the Alexandria Canal was completed, connecting the City to the coal fields of Appalachia. The canal entered the Potomac River north of West's Point and Oronoco Bay. The canal's direct competitor quickly became the railroad. By 1851, the Orange & Alexandria Railroad (O&ARR) laid tracks along Union Street to West's Point. Soon after, the Alexandria, Loudoun, and Hampshire Railroad (AL&HRR) had a terminal southwest of the Point. The canal and railroads transformed the area creating new industries and storage, such as the American Coal Company.



Circa 1854, Orange and Alexandria Rail Road with its Warrenton Branch and a portion of the Manassas Gap Rail Road

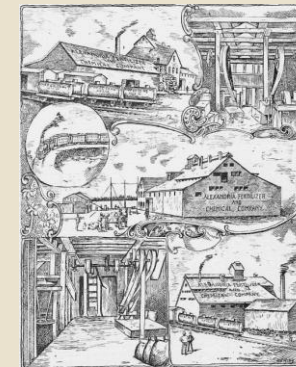
In 1889, the Alexandria Fertilizer & Chemical Company (AF&C) was established adjacent to the waterfront. After the American Coal Company closed in 1887, AF&C began leasing the former coal wharf. Modern farming methods throughout the south increased demand for fertilizer. The company would buy the former public wharf from the city in 1895; this would be the first time the wharf came under private ownership. AF&C operated, under the American Agricultural Chemical Company, until 1962. This area, however, continued its historic use for storage with the construction of Robinson Terminal North Warehouse which stood until 2013.



Circa 1863, two men sitting facing the Coal Wharf. (Library of Congress)



Circa 1861-1865, Alexandria Coal Wharf. (City of Alexandria)



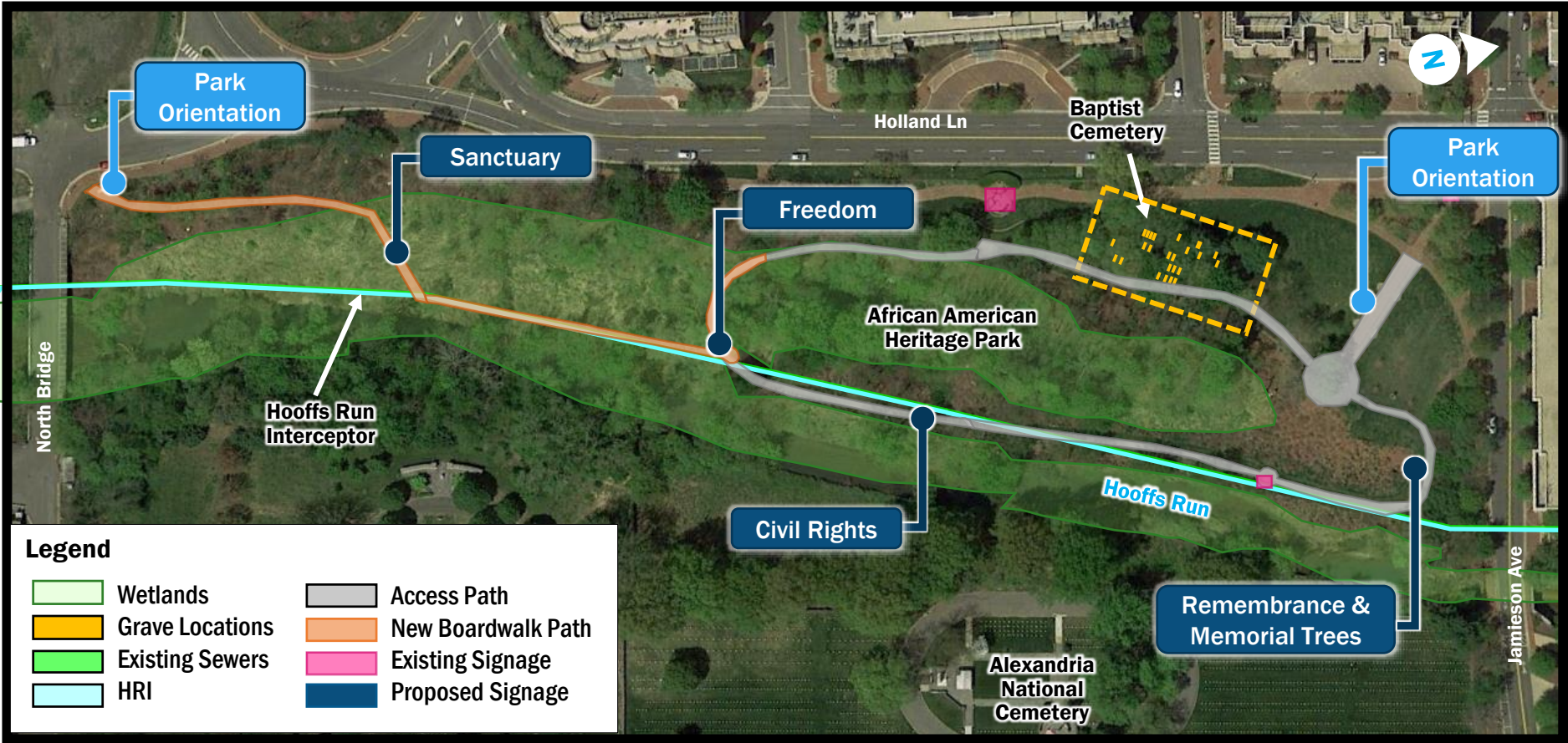
Alexandria Fertilizer and Chemical Company. Princess Street between Union and Lee. (AGVA 16 September 1893)

AFRICAN AMERICANS FIGHTING FOR LABOR RIGHTS

After the Civil War, one of the largest industries in Alexandria was fertilizer production. The work of the fertilizer plant was dirty and dangerous, leading white men to avoid the factory which created job opportunities for African American men. However, over time the terrible working conditions led to hundreds of men leaving the fertilizer plants for the steel industry to the north. Those that remained, unionized to protest against the multitude of labor issues. On August 1, 1944, 59 African American employees went on strike. When the strike ended that fall, workers won an increase in wages, a small victory for African American workers at the time.



Expanding the story in African American Heritage Park. Proposed wayfinding signage along the new and existing walkway.



Sanctuary. Proposed African American Heritage Park themes.

“Much of African American history is the story of Americans creating their own sense of sanctuary in a land that often seems antithetical to their presence and needs.”

- Early 1800s: thriving free African American population
- Organized religion and education as sanctuaries
- First all-Black churches popped up in the early 1800s
- Many schools met in secret
- Public schools were established in late 1800s

The exhibit of the schools of Virginia for December is as follows :

School report for January 1, 1867.

Day schools.....	143	Left school this month.....	1,023
Night schools.....	49	New scholars this month.....	4,595
	192	Average attendance.....	8,879
Schools sustained by freedmen....	29	Pupils paying tuition.....	926
Schools sustained in part by freedmen.....	22	White pupils.....	391
Teachers transported by bureau....	46	Always present.....	5,396
School buildings owned by freedmen.....	25	Always punctual.....	4,165
School buildings furnished by bureau.....	61	Over sixteen years of age.....	2,531
Teachers, white.....	164	In alphabet.....	1,596
colored.....	63	Spell and read easy lessons.....	6,861
	227	Advanced readers.....	4,280
Pupils enrolled in day and night schools, male.....	6,461	Geography.....	2,848
female.....	7,541	Arithmetic.....	4,893
	14,002	Higher branches.....	212
Pupils enrolled, last report.....	10,430	Writing.....	5,384
		Needle-work.....	311
		Free before the war.....	1,144
		Sabbath schools.....	64
		Pupils in Sabbath schools.....	7,382



The Hallowell School for Girls, built in the 1870s



A-186—Alexandria Academy, Built 1785, Free Endowed School by George Washington, Alexandria, Va.

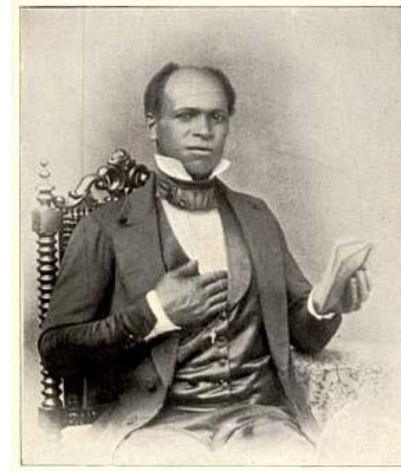
Freedom. Proposed African American Heritage Park theme.

Meaning of “Freedom,” as it pertains to slavery



Harriet Jacobs circa 1894

- Escaped slavery
- Moved to Alexandria and focused on relief work
- Opened *The Jacobs School* in 1864



George Henry circa 1894

- Enslaved in Alexandria and captain of ship
- After seeing others brutally enslaved, decided to escape to freedom in Philadelphia



The Jacobs School circa 1864

Civil Rights. Proposed African American Heritage Park theme.

Meaning of “Civil Rights”

- African American soldiers during the Civil War:
 - African American men could fight, but were not allowed to be buried in military cemeteries
 - Wrote to America National Cemetery in Alexandria petitioning they should be buried alongside others
 - The cemeteries were then integrated
- The Secret Seven:
 - Anonymous group of nine men
 - Fought for better living conditions for African Americans in Alexandria
 - Sent a report to Alexandria City Council in 1968, outlining these problems
 - Potentially include names and short bio of all the men

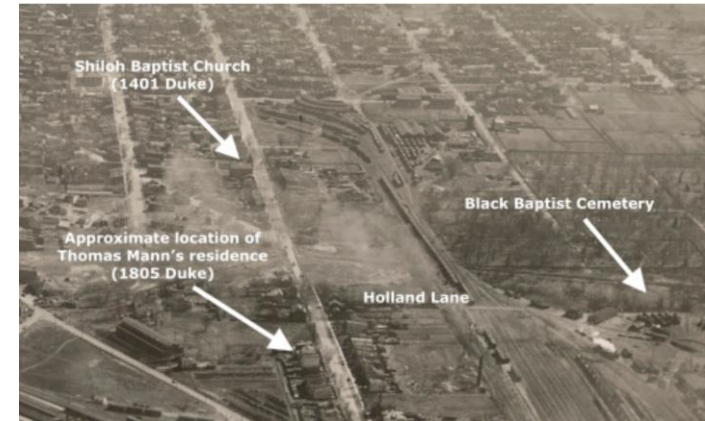


A group of African American soldiers circa 1894

Remembrance and Memorial Trees. Proposed African American Heritage Park theme.

Meaning of “Remembrance”

- Black Baptist Cemetery:
 - Established in AAHP in late 19th century
 - Five headstones, one footstone, twenty-eight burials discovered
 - Cemetery may have been associated with Shiloh Baptist Church
- Shaw Memorial Chapel:
 - Named in honor of the commander of the 54th Massachusetts Regiment of African American soldiers
 - Cornerstone was laid in 1918, in a ceremony attended by over 300 African American soldiers
- Freeman Murray:
 - Civil rights activist and journalist
- Memorial Trees:
 - Highlight existing trees within the park



Aerial image of Alexandria circa 1929



Memorial Trees in AAHP

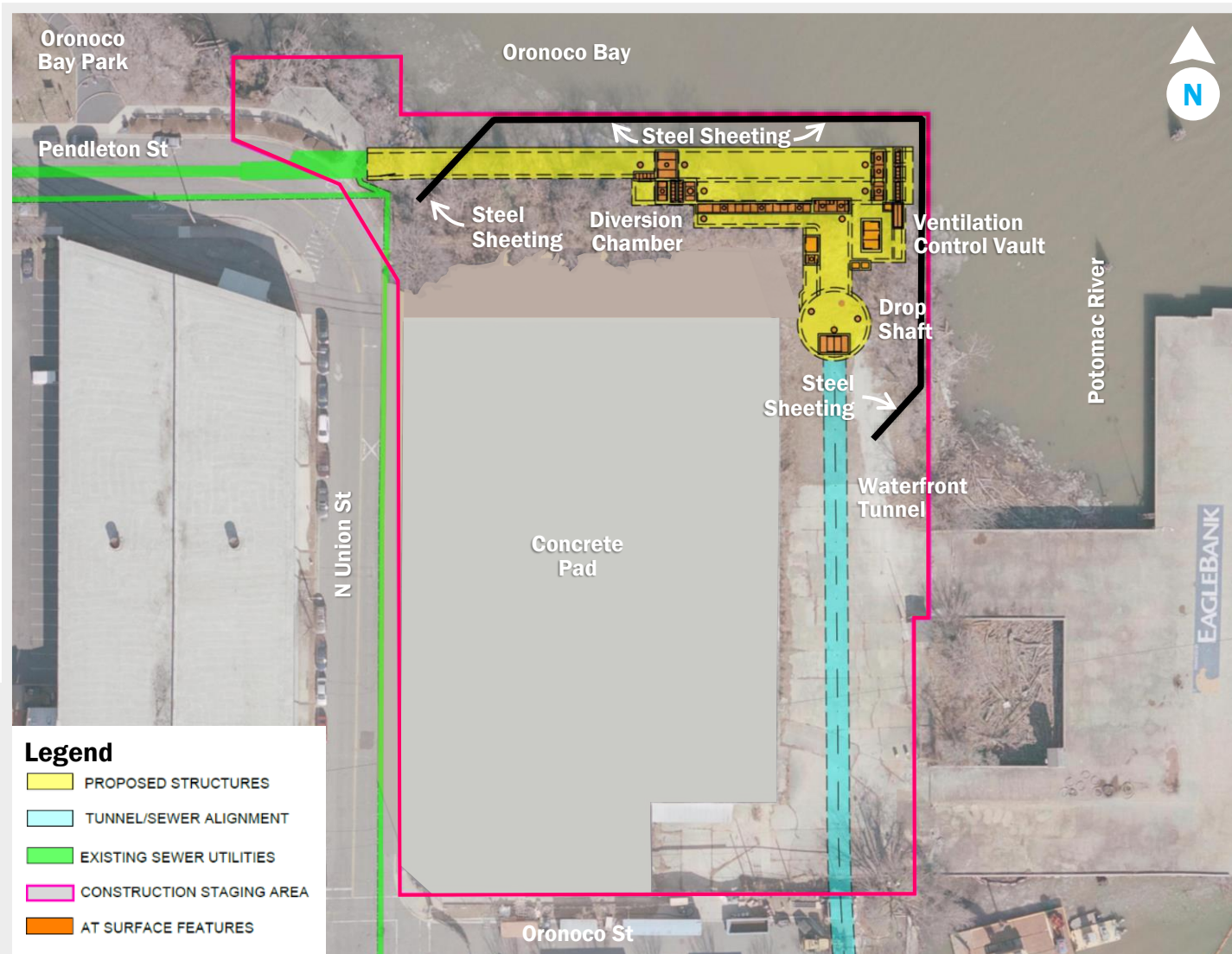
Getting your input. Next steps for wayfinding signage development.

- **July 21, 2022.** Receive feedback from SAG at next meeting.
- **Summer 2022.** Meet with external stakeholders.
- **Fall 2022.** Coordinate with City to finalize signs.
- **Fall 2023.** Install signage in African American Heritage Park.
- **Winter 2024.** Install signage at Pendleton Street.

A group of construction workers in safety gear, including hard hats and high-visibility vests, are gathered around two large concrete mixers at a construction site. The mixers are labeled with the numbers 733 and 673. The workers are engaged in various activities, some standing and others kneeling, amidst a complex network of pipes and machinery. The background shows a brick building and other construction equipment under a cloudy sky.

Tunnel Project Update

Pendleton Street Site. Design and construction update.



Design Progress

■ Actual ▨ Planned As of April 30, 2022



Construction Progress



Jun 2022 ▲
Nov 2024 ▲

Major Activities

- Preparing site for backfill
- Site mostly dormant until shaft construction begins in August 2022



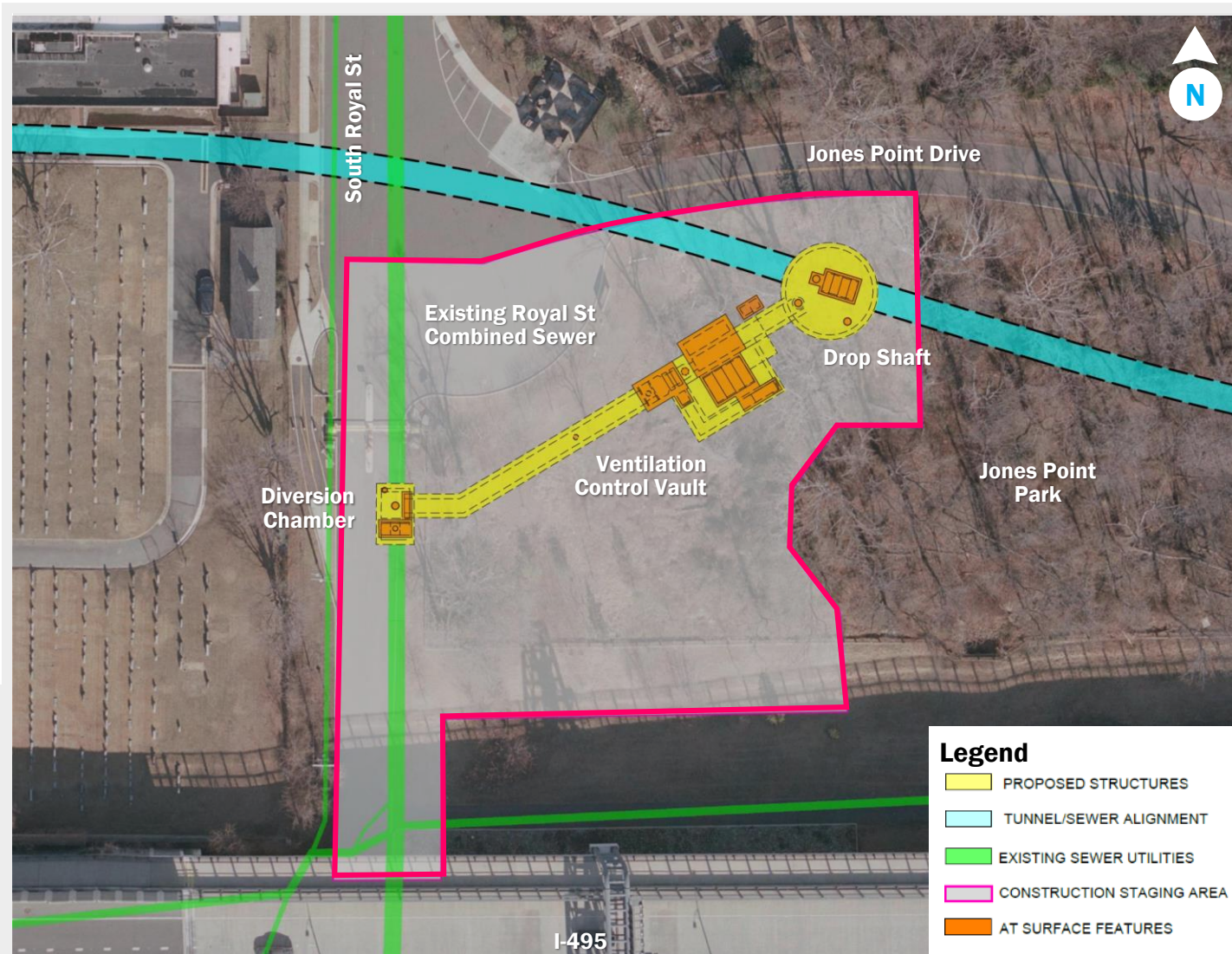
Seeking a noise variance for removal of TBM trailing gear and supporting equipment at Pendleton St Site to minimize schedule risk

! Noise Variance for Extended Work Hours

Removal of TBM trailing gear and supporting equipment

- 24-hour work
- Fall/winter 2023
- Up to 30 days

Royal Street Site. Design and construction update.



Design Progress

Actual Planned As of April 30, 2022



Construction Progress



Major Activities

- Preparing site for shaft slurry wall construction
- Guide wall installation underway

Ensuring existing structures are protected. Seismographs installed near Royal Street site.



WHAT AM I?

I am a **seismograph**! I measure potential ground vibrations during construction of the RiverRenew Tunnel Project at the Royal Street Site.

SEISMOGRAPH

protected from the elements by a waterproof box

SOLAR PANEL

powers the seismograph

GEOPHONE

buried sensor detects ground vibrations




For more information:

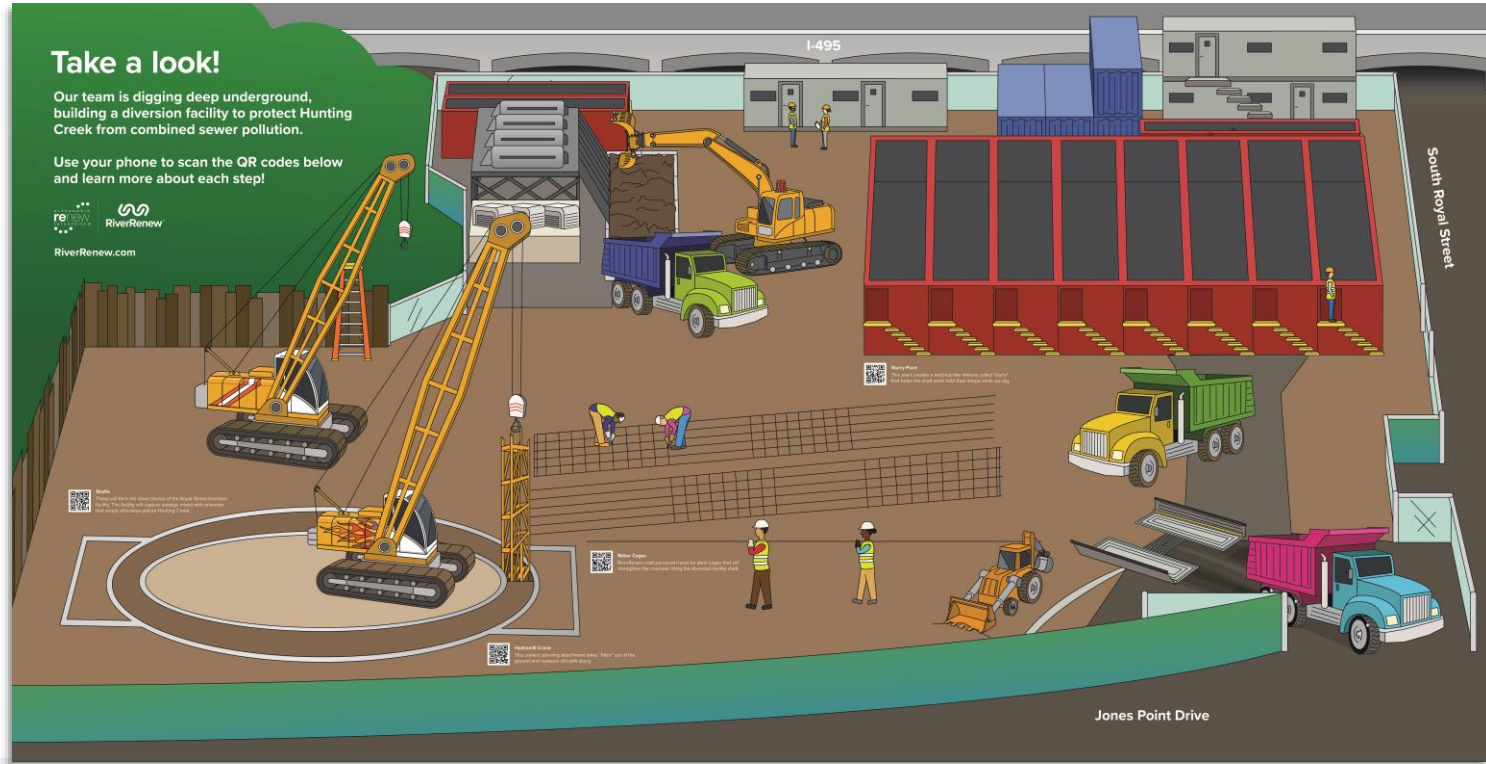
- 🌐 [RiverRenew.com/construction/royal-street](https://www.RiverRenew.com/construction/royal-street)
- 📞 Construction hotline: 1-800-234-6592
- ✉️ AskRiverRenew@AlexRenew.com



Rebar lifts may temporarily impact traffic in cul-de-sac and bike path

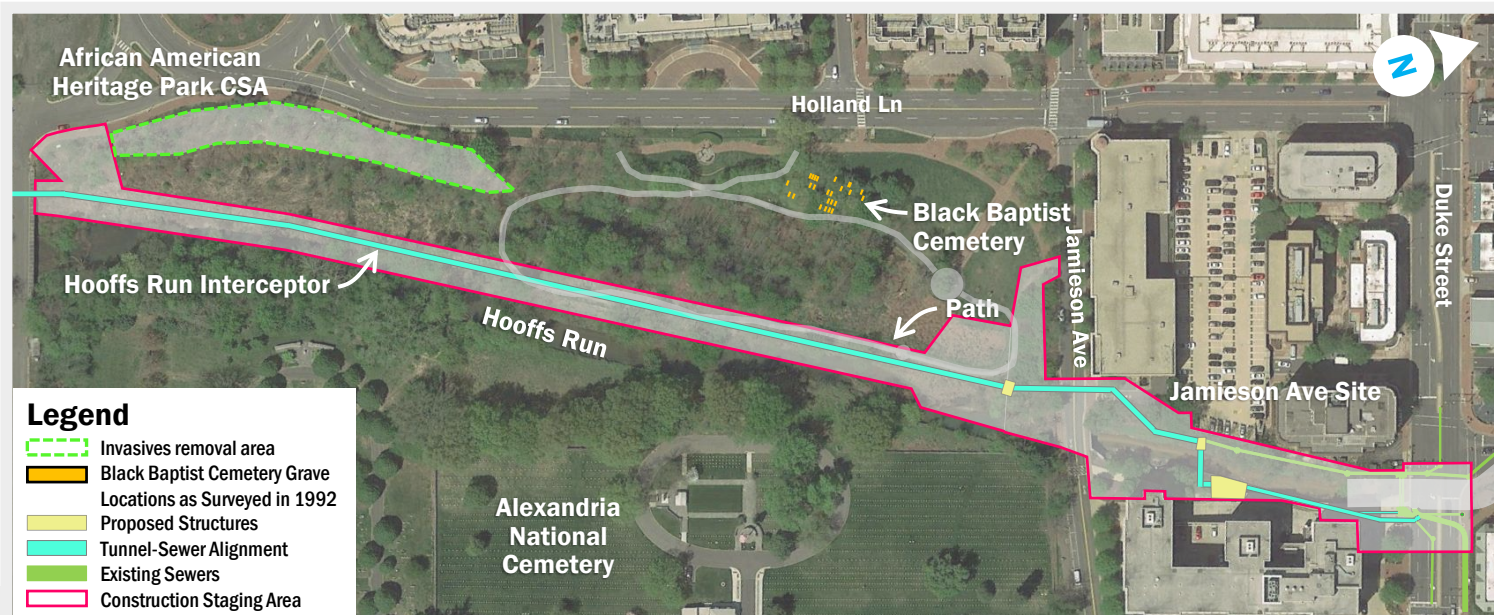
Construction impacts coming up at Royal Street Site. Temporary traffic impacts and extended work hours

 Noise Variance Issued for Extended Work Hours	
Shaft Slurry Wall Construction	Shaft Excavation
<ul style="list-style-type: none"> - 24-hour work - 9 full days between June and August 	<ul style="list-style-type: none"> - Work between 5am – 11pm - Hauling 7am – 6pm - As needed



Note: Picture representative of upcoming construction work

Hooffs Run Interceptor. Design and construction update

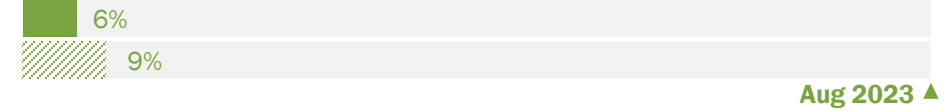


Design Progress

■ Actual ▨ Planned As of April 30, 2022



Construction Progress



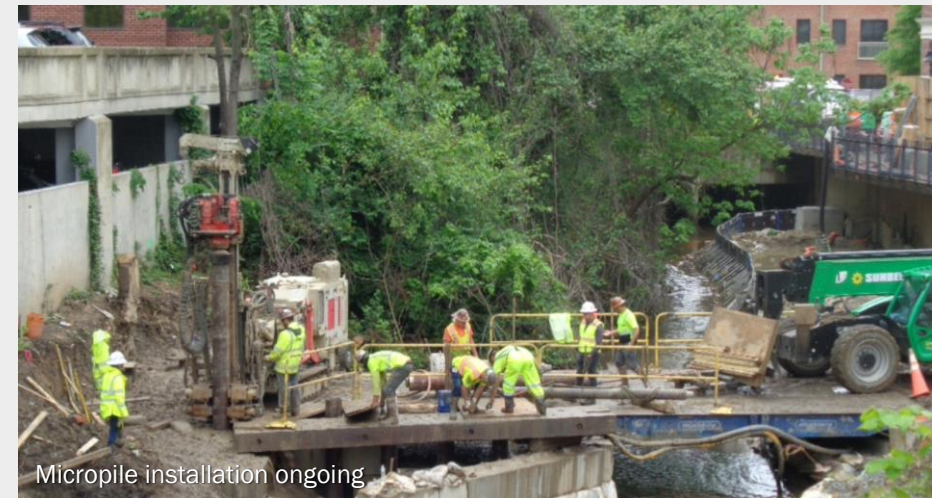
Major Activities

- Installation of diversion chamber support of excavation and foundation piles ongoing
- African American Heritage Park Site mobilization mostly completed



Installing temporary access road

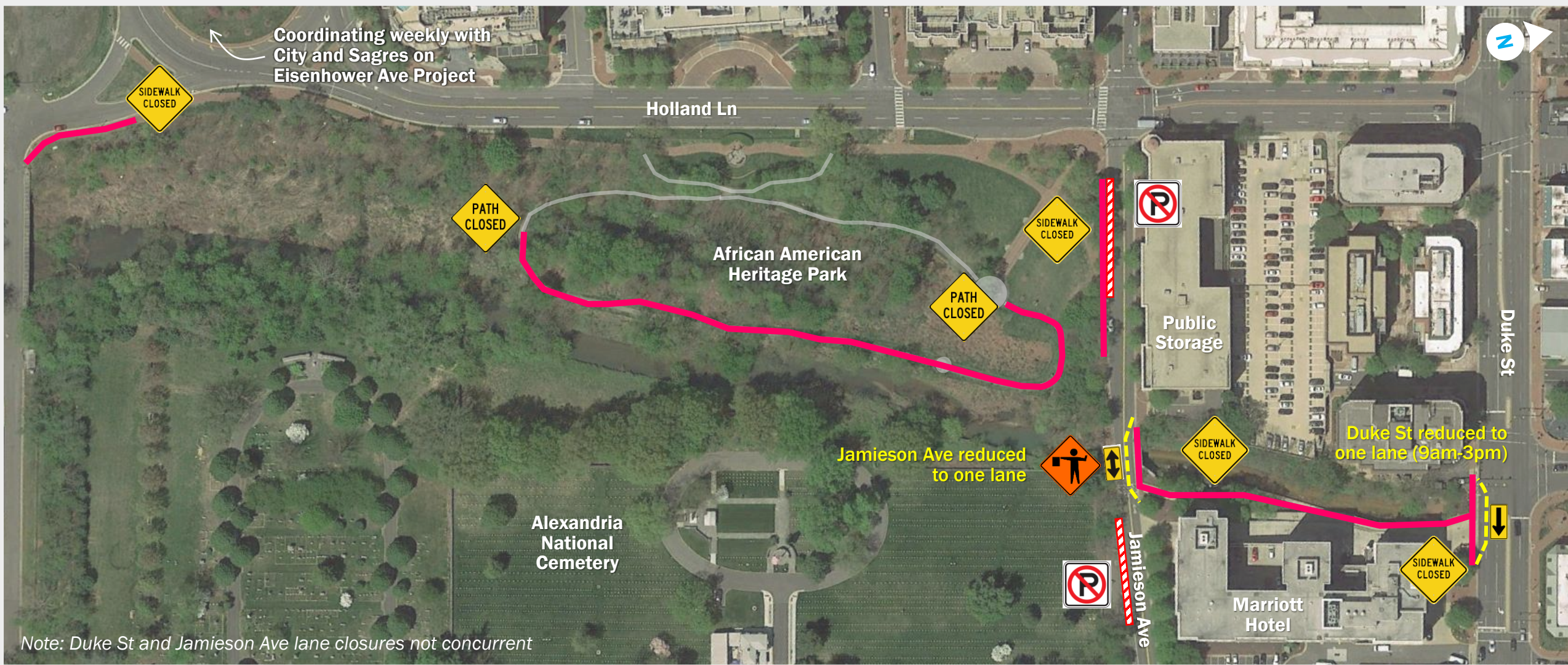
◀ African American Heritage Park Site



Micropile installation ongoing

◀ Jamieson Avenue Site

Managing Hooffs Run Interceptor construction impacts. Road and sidewalk impacts through August 2023.



Pardon our appearance. Restoration of areas treated for invasive plant species will be restored with native species by Fall 2023.



Red Maples



Flowering Dogwood



Sweetspire



American Sycamore



Willow Oak



Buttonbush



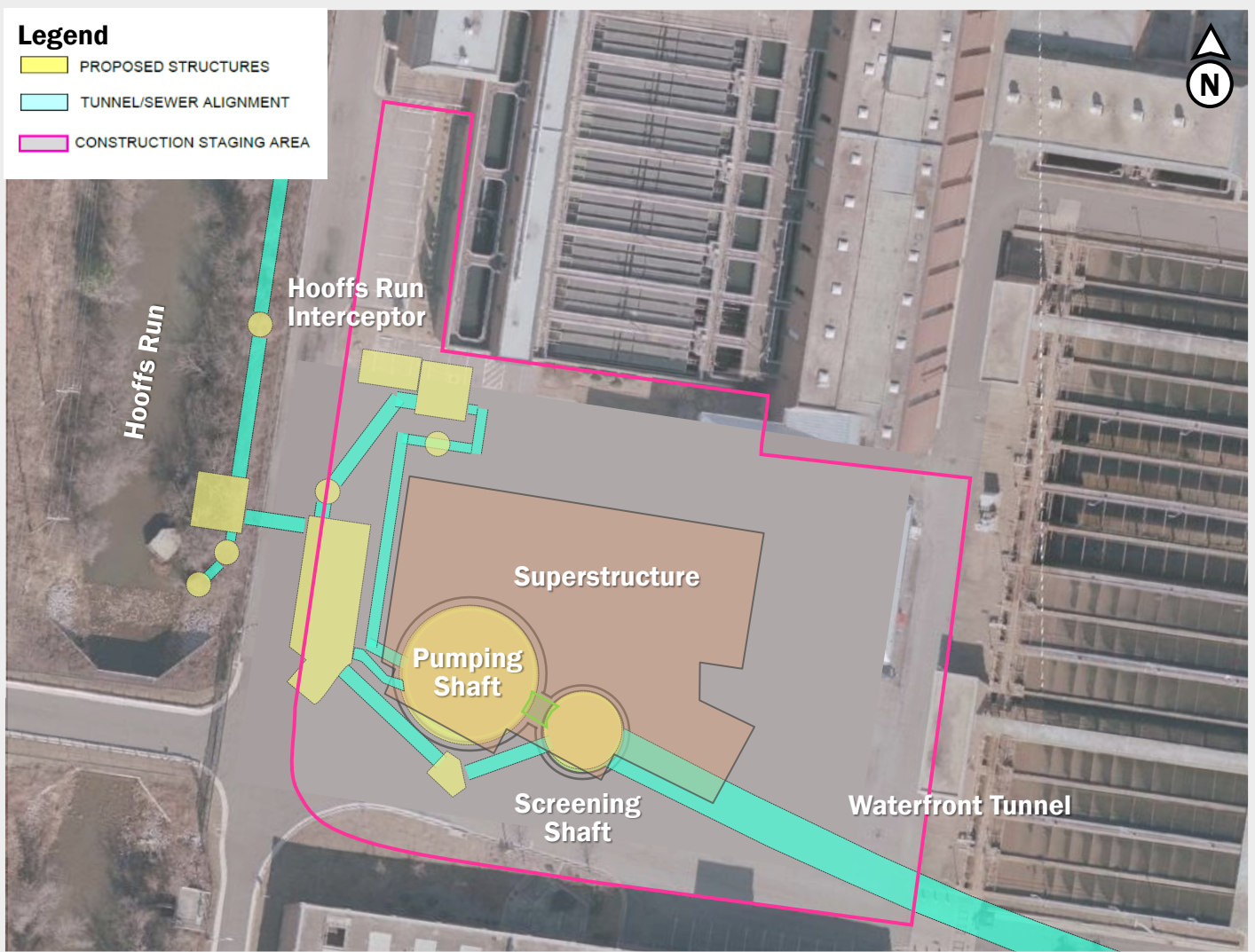
Pardon our appearance...
We're building for a healthier Hooffs Run.



When our work here is done in 2023, we'll fully restore this area and replant it with native species, creating a healthier environment for wildlife and park visitors alike.

Learn more at [RiverRenew.com/construction/hooffs-run](https://www.RiverRenew.com/construction/hooffs-run)

AlexRenew Site. Design and construction update.



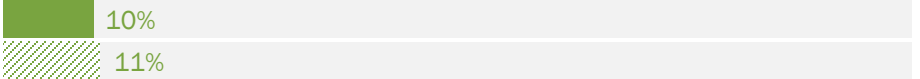
Design Progress

■ Actual ▨ Planned As of April 30, 2022



Construction Progress

Jun 2022 ▲



Jul 2025 ▲

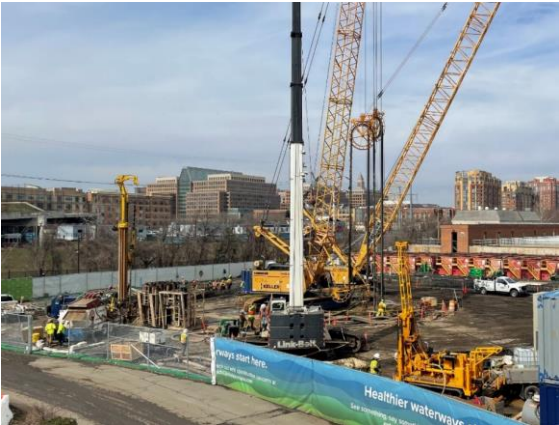
Major Activities

- Shaft slurry wall construction completed
- Shaft excavation ongoing

Looking ahead. RiverRenew Tunnel project over the next six months.



Pendleton Street: **Backfill, then site largely dormant until August when shaft slurry wall construction begins**



Royal Street: **Shaft slurry wall construction and excavation**
! Noise variance for these phases approved



Hooffs Run Interceptor: **Diversion chamber and open-cut sewer construction**



AlexRenew: **Shaft excavation, TBM assembly and launch**
! Noise variance for these phases approved



Community Outreach

Street Sweeper operator Patricia unveiling new wrap

Upcoming community outreach.



RIVERRENEW TBM WELCOME RECEPTION

Presented by AlexRenew

July 14 with
livestream

Upcoming RiverRenew Community Listening Sessions

July 11 - 14
6:30 - 8:30 p.m.



Take a look!

Our team is digging deep underground, building a diversion facility to protect Hunting Creek from combined sewer pollution.

Use your phone to scan the QR codes below and learn more about each step!

South Royal Street

Jones Point Drive

Sip 'n See Events

Hooffs Run: Tues 11-1
Royal St: Weds 11-1

Meeting Takeaways

- Wayfinding signage feedback
 - TBM STEM opportunities feedback
 - Noise variance permit for extended work hours at Pendleton Street Site
 - Shaft slurry wall excavation starting at Royal Street Site
 - Sidewalk and path impacts at AAHP
 - Duke Street and Jamieson Avenue lane closures ongoing
 - Shaft excavation underway at AlexRenew
 - TBM unveiling ceremony in July
 - Community Listening Sessions July 11-14, 2022
-

Public Comment Period



RiverRenewTM

INVESTING IN HEALTHIER WATERWAYS FOR ALEXANDRIA