

2021-2022 RiverRenew Stakeholder Advisory Group

Meeting No. 5

November 18, 2021



Recap from September Meeting

- Groundbreaking Ceremony 9/30
- Cloe Storybook distribution ongoing
- Electronic message boards used to notify community about upcoming work
- Mobilization to Pendleton Street started on 10/6
- Mobilization to Royal Street started on 11/8
- Haul routes on riverrenew.com
- AlexRenew and RiverRenew Informational Flyer

Tonight's Discussion

- SAG Feedback
- 2022-2023 SAG
- AlexRenew and RiverRenew Informational Flyer
- Discussion Topics Requested by SAG Chair
- Tunnel Project Construction Update
- Six-Month Look-Ahead
- Meeting 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

Resolution Drafted for City Council's Review and Approval to Extend the Term of the Ad Hoc RiverRenew SAG for One Year

Current SAG Representation and Members:



Morgan Babcock
Eisenhower Partnership
Nominee



Mace Carpenter
Tobacco Quay, Waterfront
Residences, or Rivergate



Liz Birnbaum
Carlyle or Duke St.
Corridor



Mark McNutt
Interest in RiverRenew



Dan Bradfield (SAG Chair)
South Old Town



Michelle Millben
Interest or expertise in
diversity, race, and social
equality



Ailing Bressman
Engineering or
Construction Background



Erik Olson
NOTICe Nominee



Yvonne Callahan
OTCA Nominee

Proposed Dec 2021 City Council Resolution:

Charge:

- Review and monitor construction and 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

Other Information:

- SAG representation to remain the same
- Member appointments to be revisited
- Term: Feb 2022 – Feb 2023
- SAG can be extended to Feb 2024 (three years from first meeting)

Draft AlexRenew and RiverRenew Informational Flyer

← 7-inches →

Nearly every time it rains, Alexandria's combined sewer system pollutes our waterways via four outfalls.

Separate Sanitary Sewer System
Consists of two pipes, one for stormwater and one for sewage. Services 94% of the city.

Combined Sewer System
Consists of one pipe for stormwater and sewage. Services 6% of the city.

Combined Sewer Outfall

AlexRenew

Combined sewer discharges contain **bacteria and other harmful pollutants**, which:

- Degrade water quality and aquatic habitats
- Pose a risk to human health
- Litter shorelines
- Harm the Chesapeake Bay

RiverRenew is a water quality project that will address pollution associated with Alexandria's combined sewer system.

By preventing over **120 million of gallons** of combined sewage from polluting Alexandria's waterways each year, RiverRenew will create:

SAFER waterways for the community
HEALTHIER environments for wildlife
BRIGHTER futures for generations to come

RiverRenew.com

Front Side

↑ 5-inches ↓

RiverRenew is a program owned and implemented by Alexandria Renew Enterprises (AlexRenew).

AlexRenew was established in 1952 by the Commonwealth of Virginia as an independent authority charged with managing sewage for Alexandria and parts of Fairfax County.

AlexRenew.com

- Led by a **5-member citizen board**
- Serves over **300,000** customers
- Primarily funded through **sewer fees**

AlexRenew's state-of-the-art treatment facility transforms **38 million gallons** of sewage each day into clean water that can be safely returned to local waterways.

Questions

About AlexRenew and sewage treatment?
Call (703) 721-3500 or visit AlexRenew.com/contact-us

About RiverRenew construction?
Call (800) 234-6592 or visit RiverRenew.com/contact-us

About drinking water?
Contact Virginia American Water at (800) 452-6863 or visit amwater.com/vaaw/contact-us

About stormwater management?
Contact the City of Alexandria at (703) 746-6499 or visit alexandriava.gov/stormwater

Back Side



Discussion Topics Requested by SAG Chair

Summary of Discussion Topics Requested by SAG Chair

Local Employment

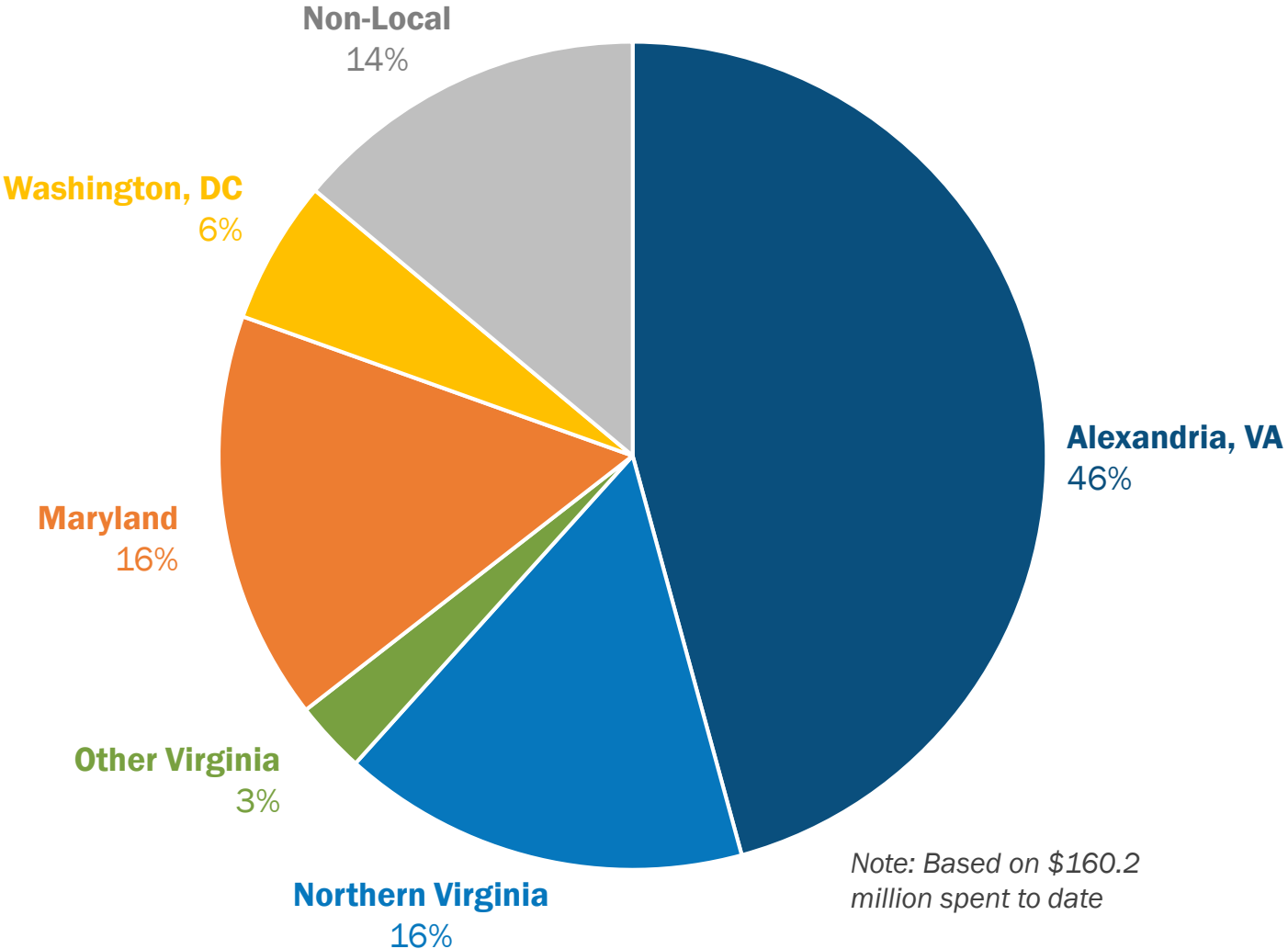
Mobility Considerations Around
Oronoco Bay Park

Rate Adjustments
and Affordability

Upcoming Community
Listening Session

Local Employment

About 90 Percent of RiverRenew Work To-Date has been Conducted by Firms Based in Alexandria, VA or the Greater Washington Metro Area



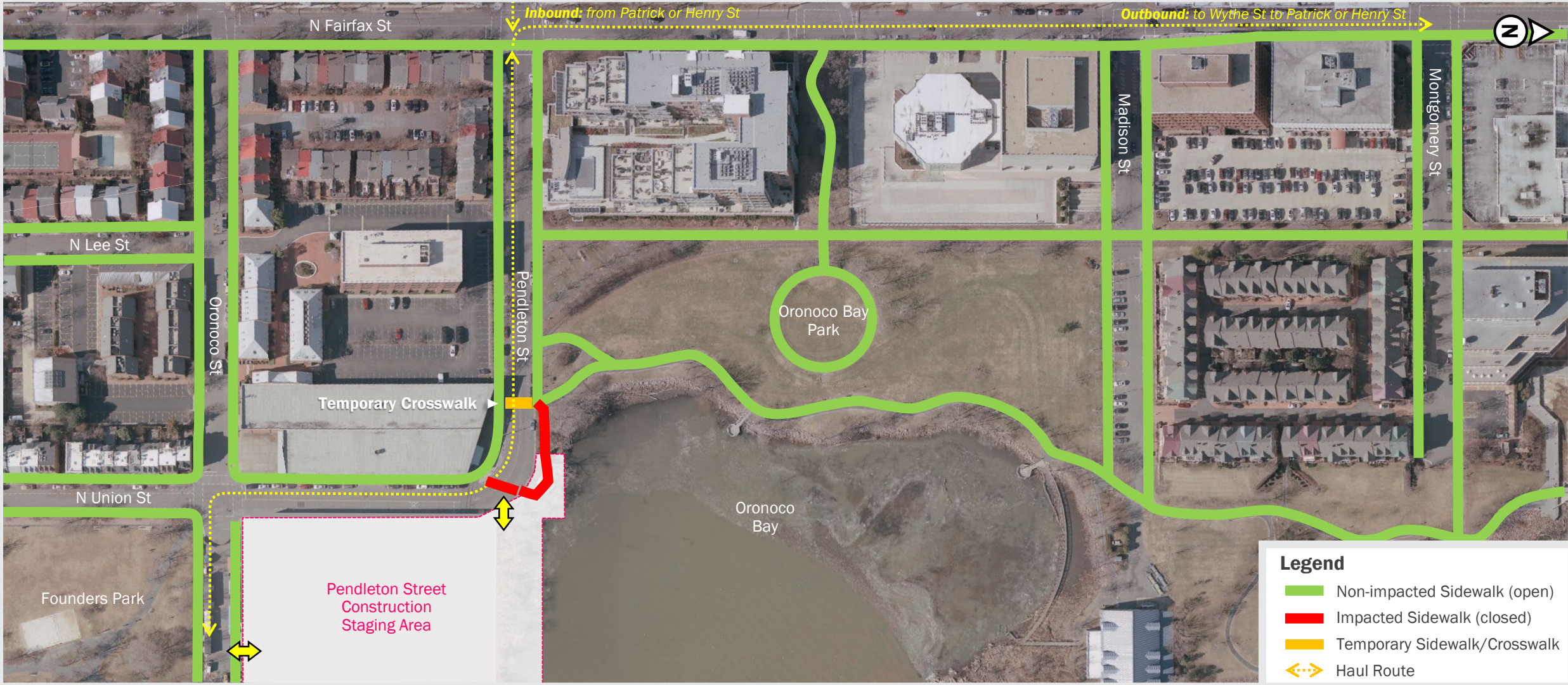
Traylor-Shea's Commitment to Using Local Workers on the Tunnel Project

- Established agreements with **Laborers' International Union of North America** and **International Union of Operating Engineers** to hire local workers through union halls
- Engaged Kokosing (formerly Corman), an established area construction firm that utilizes local workers and supervision, as a major subcontractor
- Identifies potential DBE-certified firms when procuring materials and services



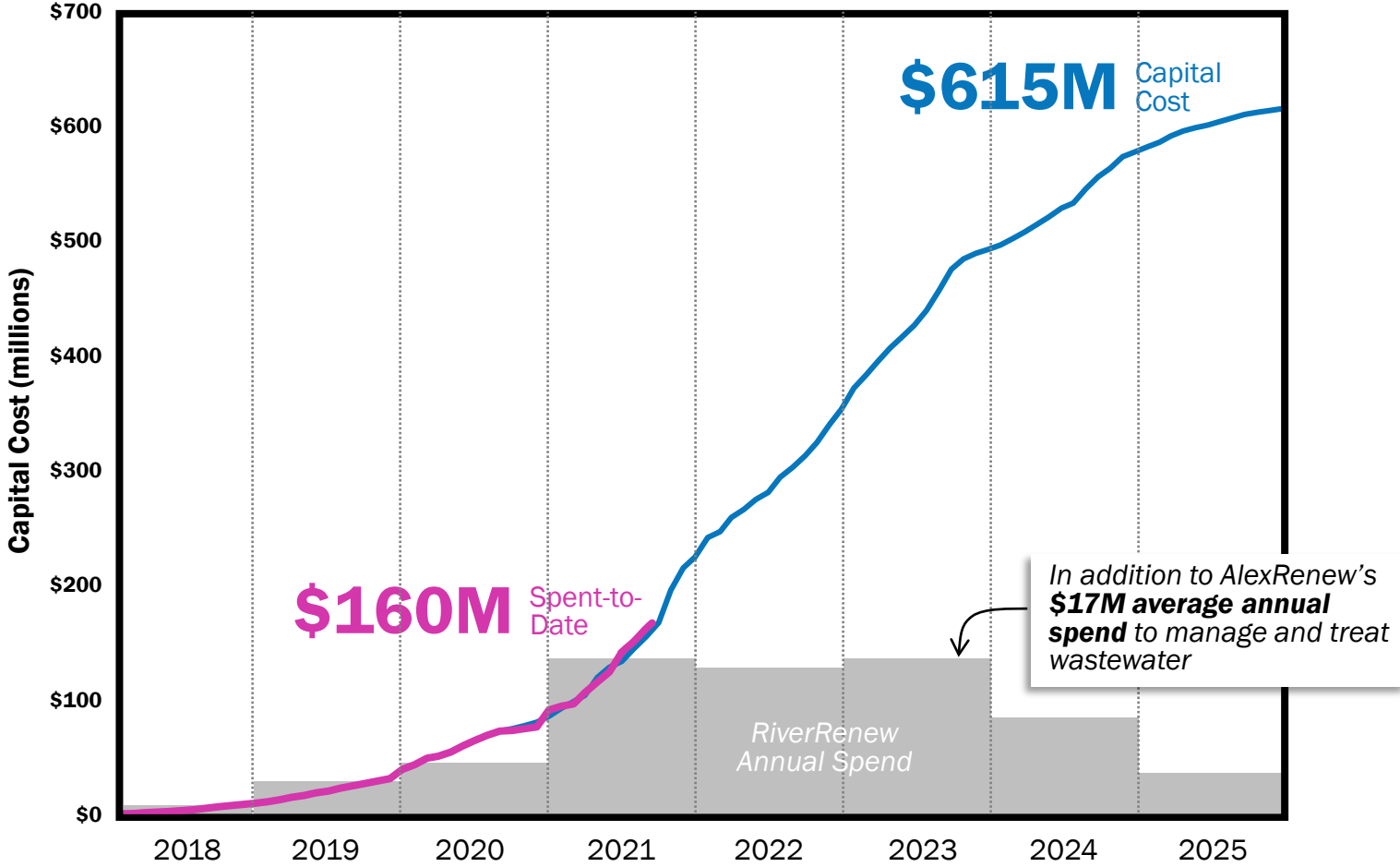
Mobility Around Oronoco Bay Park

The Pendleton Street Site has Minimal Impacts on Pedestrian and Bicyclist Facilities

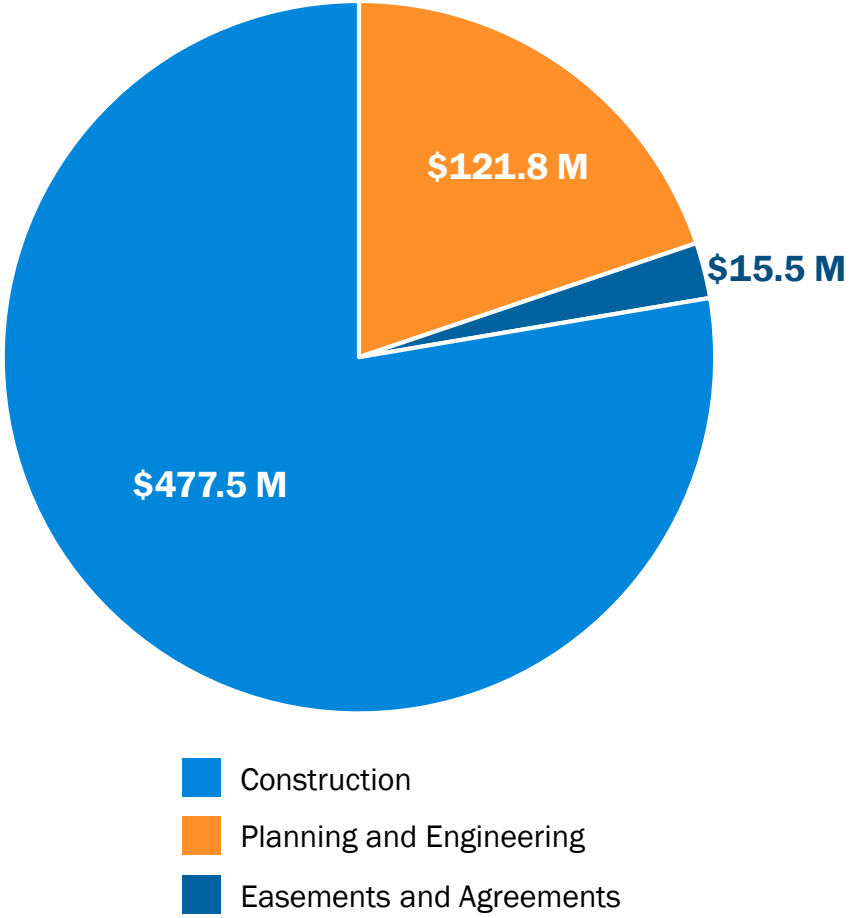


Rate Adjustments and Affordability

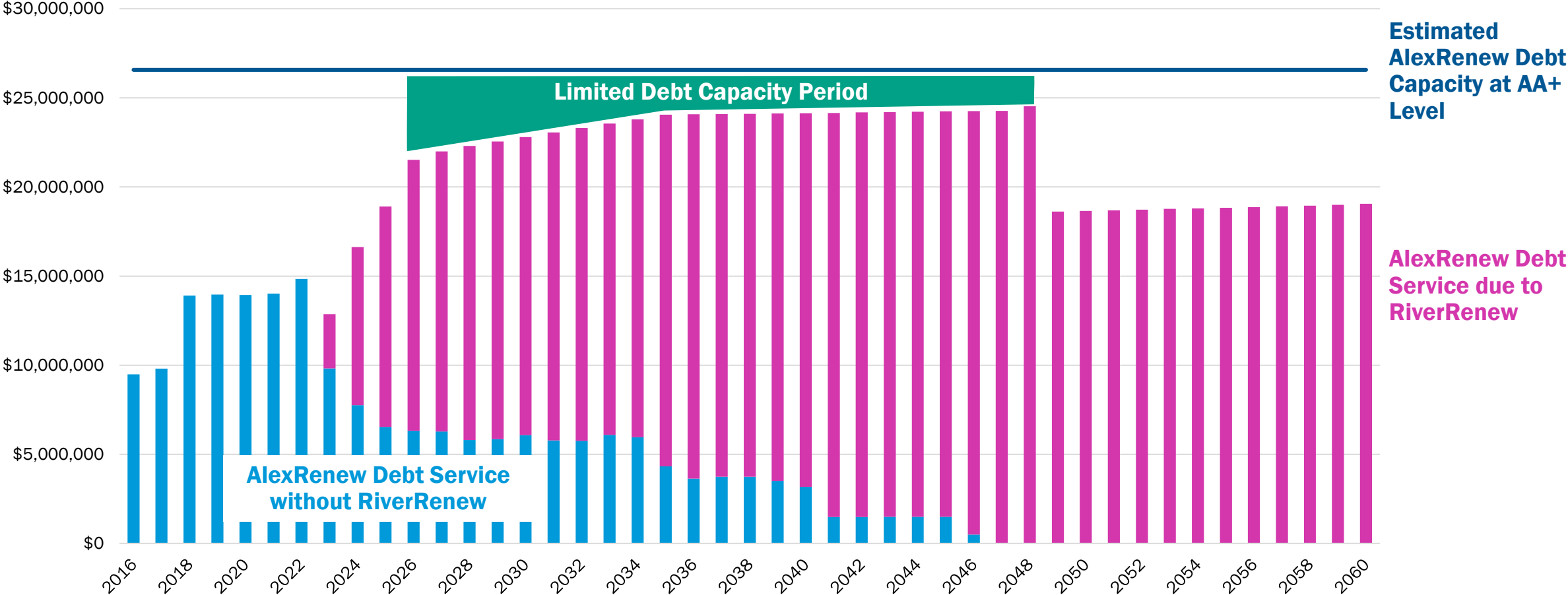
RiverRenew will Expend \$615 Million Over 8 Years to Comply with the 2017 CSO Law



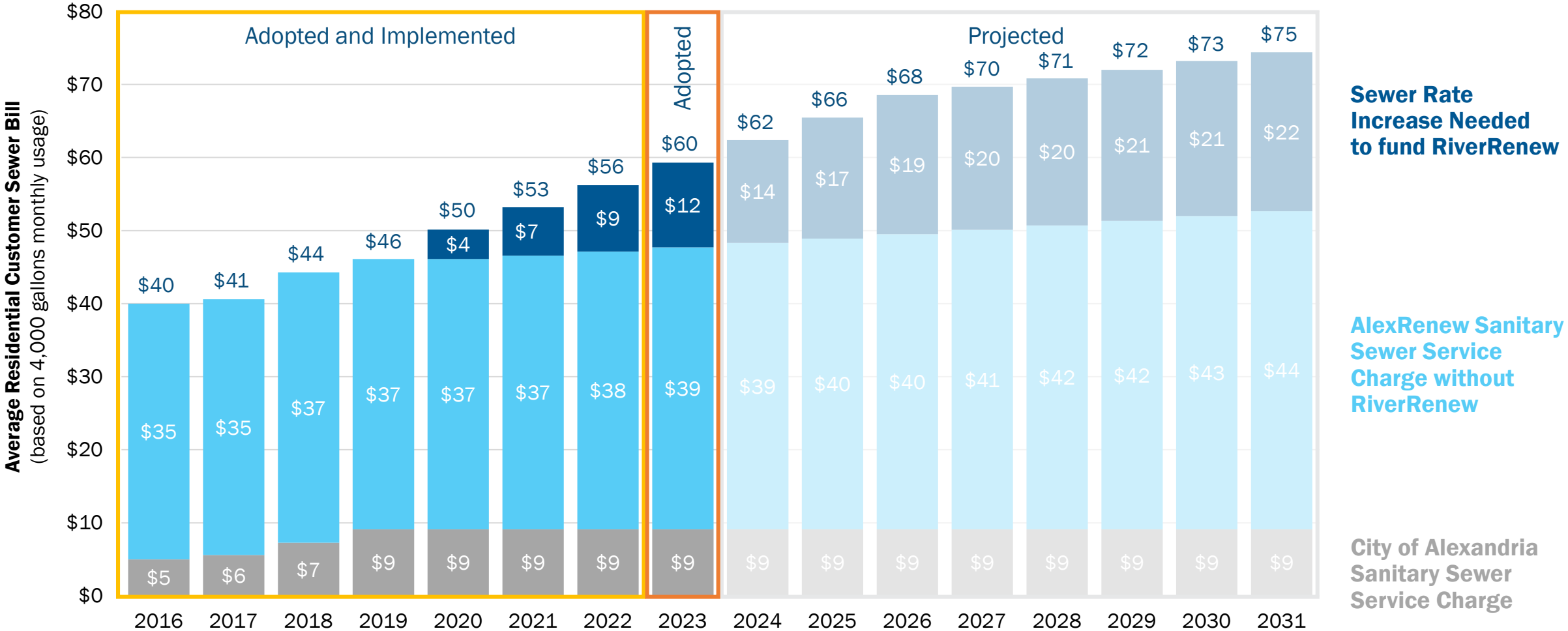
Breakdown of \$615M RiverRenew Capital Cost



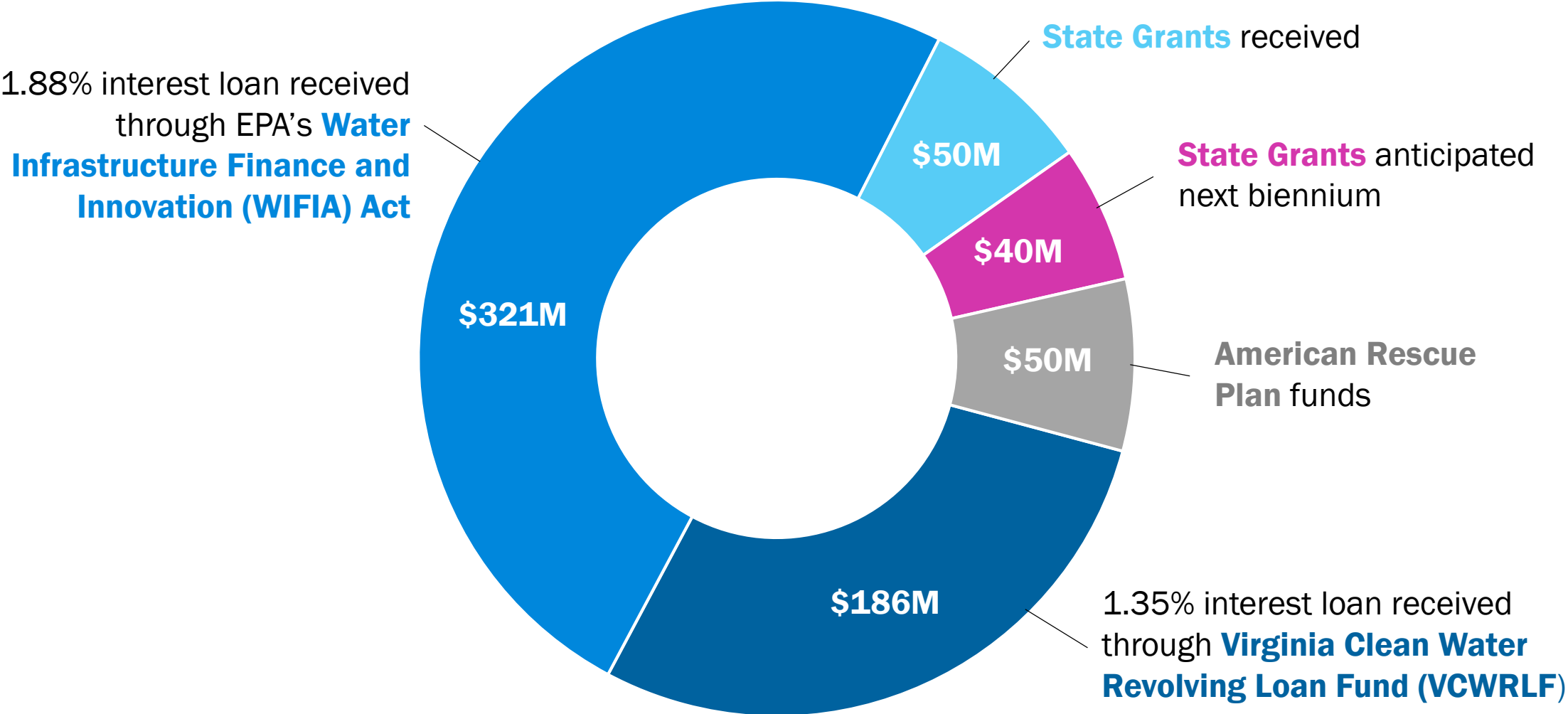
AlexRenew will Incur Significant Debt Service Over Decades to Implement RiverRenew, Limiting Our Responsiveness to Other Environmental Needs



RiverRenew has a Significant Impact on Community Sanitary Sewer Bills Over a Very Short Period of Time

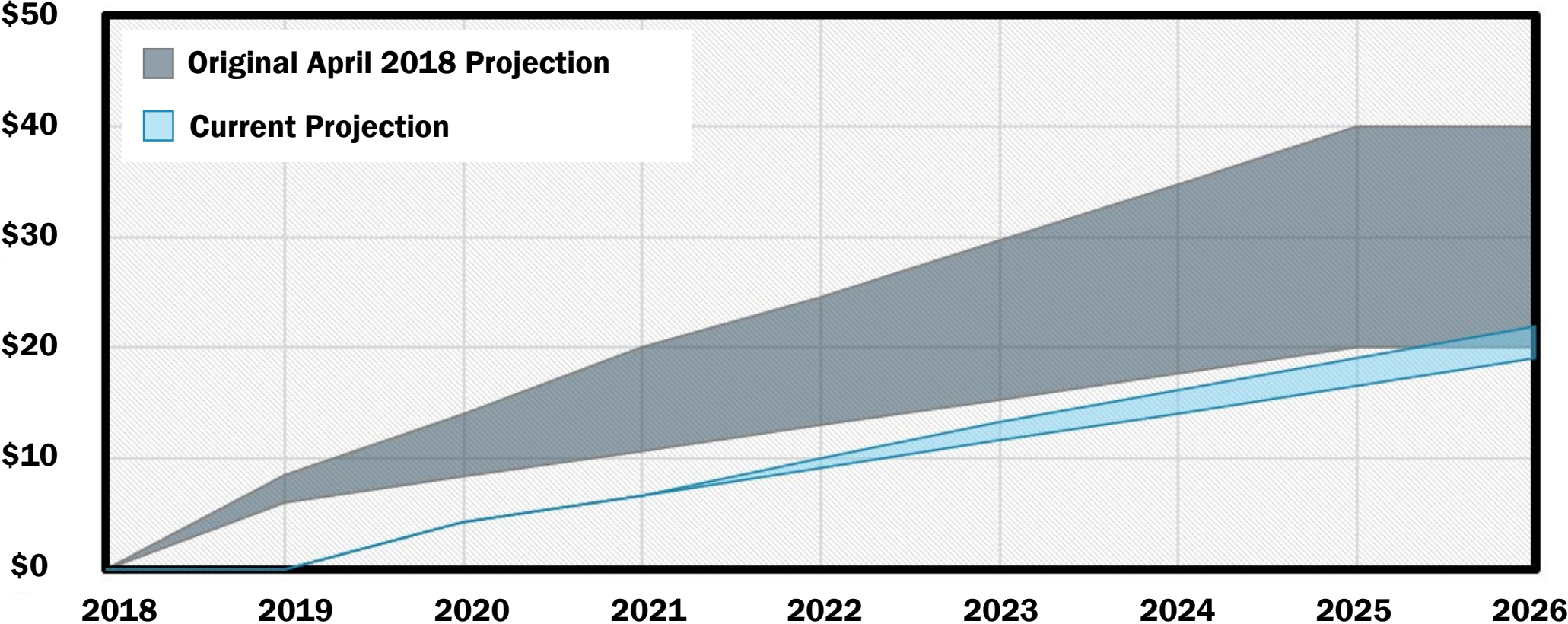


RiverRenew Capital Funding Strategy to Minimize Rate Impacts



RiverRenew Fee Projections from April 2018 and Today

Incremental Bill Impacts from RiverRenew






Note: Based on 4,000 gallons consumption, excluding City charge



In July 2021, AlexRenew Adopted its Second Rate Adjustment to Fund Loan Repayments for RiverRenew

Adopted Two-Year Rate Adjustment	Fiscal Year	Beginning on:	Maximum Rate Adjustment
	2022	July 1, 2021	6.9%
	2023	July 1, 2022	6.5%

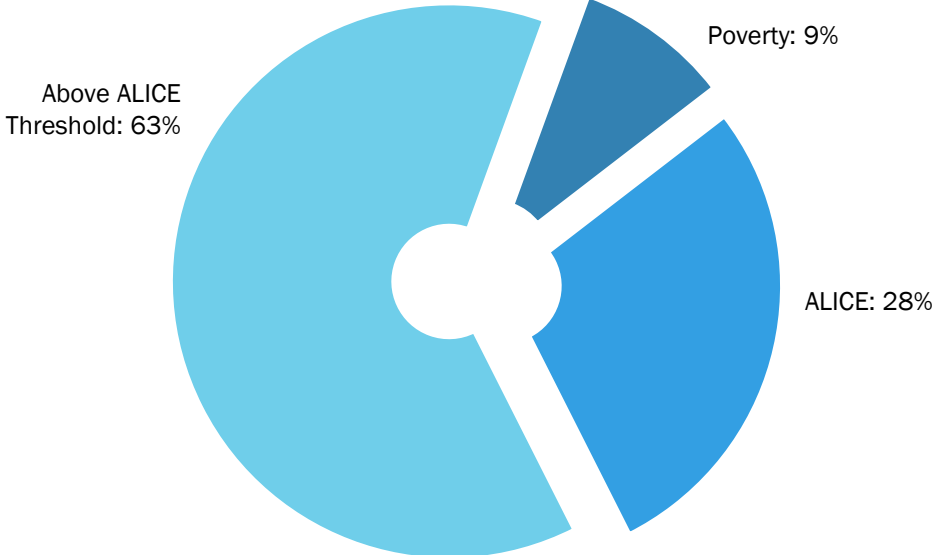
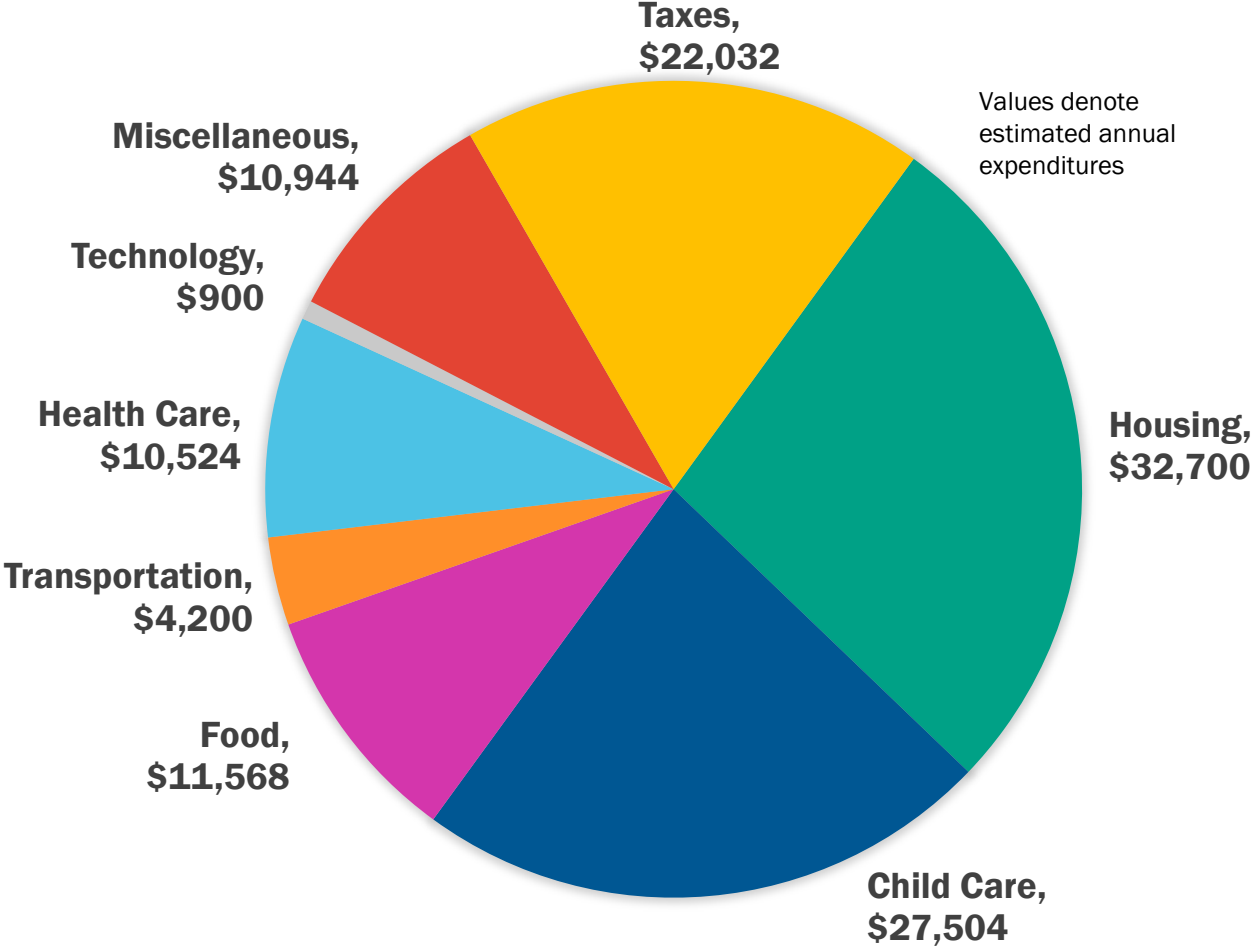
Benefits of a Two-Year Rate Adjustment:

-  **Maximizes efficiency** of staff and consultant time
-  **Allows for adjustment** of rates as conditions evolve
-  **Provides certainty** for CIP funding, particularly in FY 2022-23 when Tunnel Project spending peaks

Cost of Basic Household Necessities in Alexandria, VA Using “ALICE”

Based on 2 adult household with 2 children in childcare

- Basic Household Survival Budget: **\$120,372**
- Full Time Hourly Wage Required: **\$60.19**
- Current Median Household Income **\$101,215**
- Does not include any “savings” or “extra”
- Current One Water Costs: **\$1,042/year**





Tunnel Project Construction Updates

Turbidity curtain installed at Pendleton Street Construction Staging Area

Construction at Three Tunnel Project Construction Staging Areas is Underway

- | | |
|--|---|
| <p>1 Pendleton Street
Construction Staging Area</p> | <p>October 6, 2021</p> |
| <p>2 Royal Street
Construction Staging Area</p> | <p>November 8, 2021</p> |
| <p>3 Hooffs Run
Construction Staging Area</p> | <p>December 8, 2021*
North of Jamieson Avenue</p> <p>February 7, 2022*
South of Jamieson Avenue</p> |
| <p>4 AlexRenew
Construction Staging Area</p> | <p>May 17, 2021</p> |

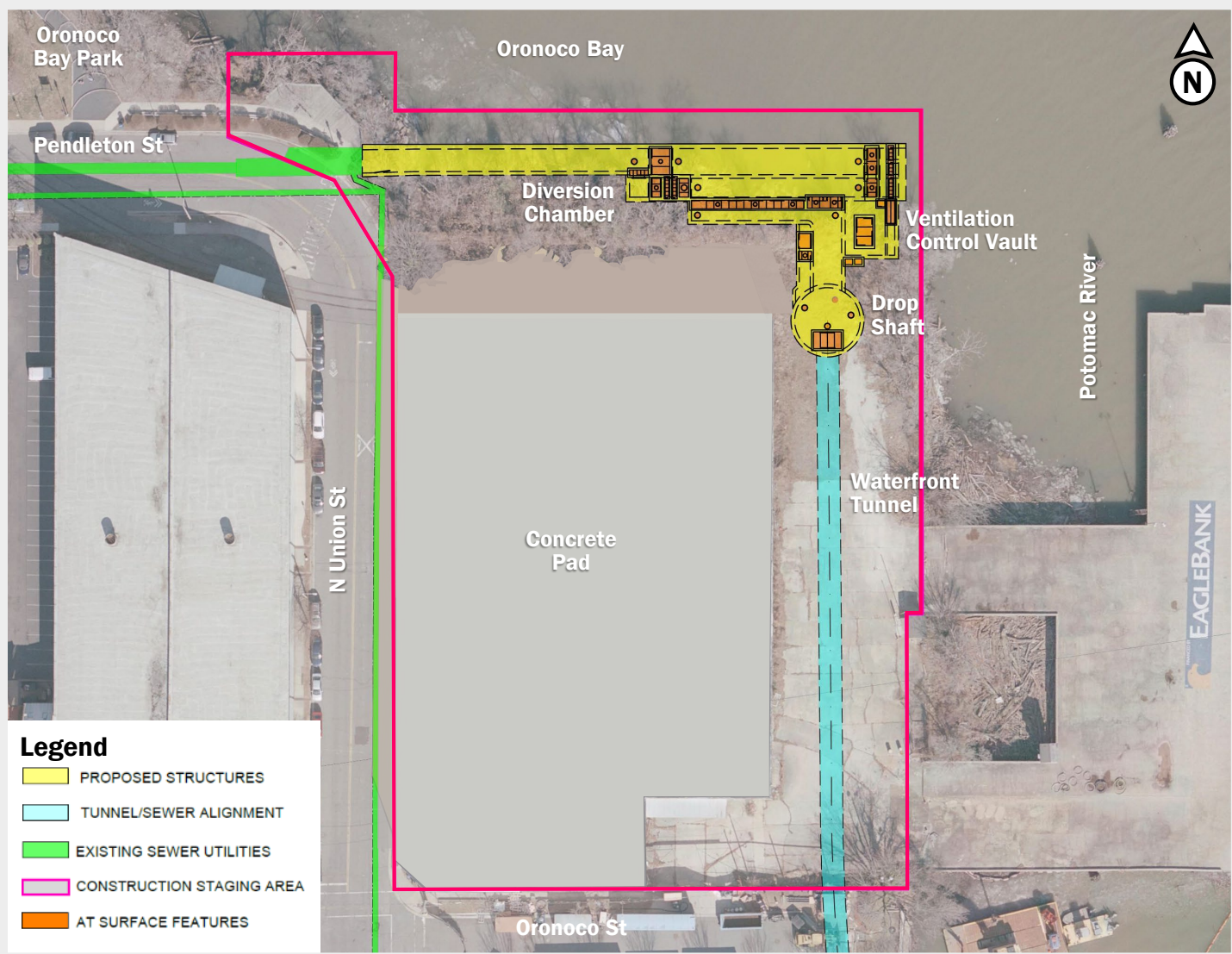
*Note: Construction start dates subject to shift by a few days or weeks

Legend

- Existing Outfall
- Waterfront Tunnel Route
- Hooffs Run Interceptor Route
- Construction Staging Area (CSA)



Pendleton Street Diversion Facility Construction Update



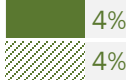
Design Progress

■ Actual ▨ Planned As of October 29, 2021



Construction Progress

Jun 2022 ▲

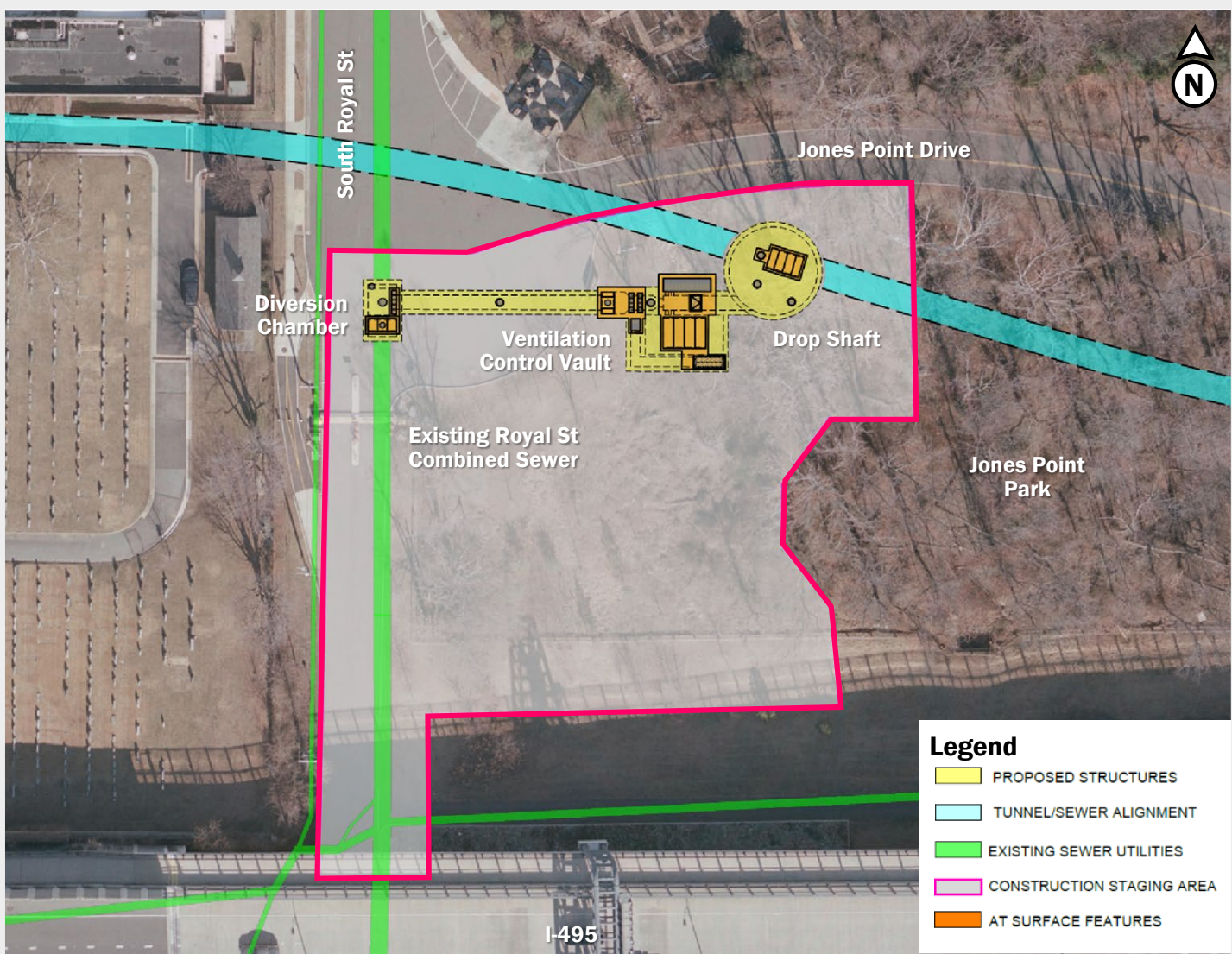


Nov 2024 ▲

Major Activities

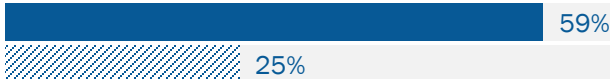
- Mobilized to site on Oct 6
- Trees and brush within work area removed
- Temporary utility installation underway
- Erosion/sediment control and turbidity curtain installed

Royal Street Diversion Facility Construction Update



Design Progress

Actual Planned As of October 29, 2021



Construction Progress

Jun 2022 ▲

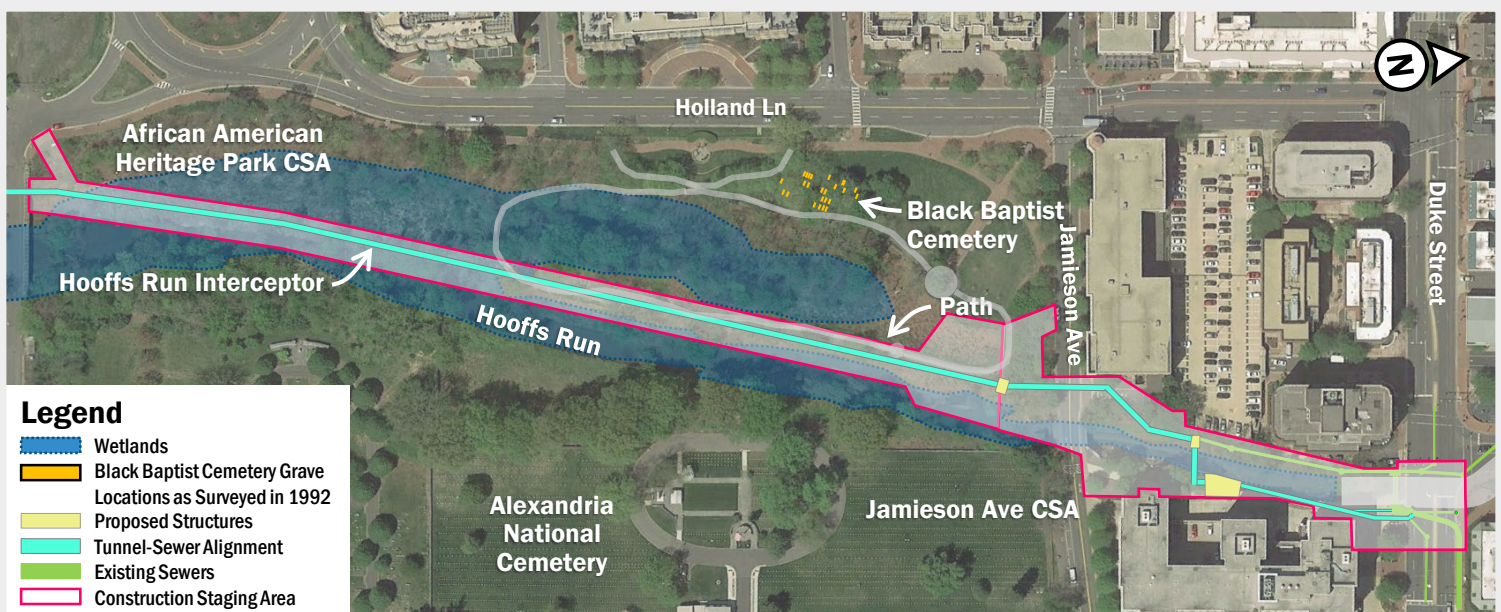


Jul 2024 ▲

Major Activities

- Mobilized to the site on Nov 8
- Tree and brush within work area being removed
- Fence installation underway
- Erosion and sediment control installation underway

Hooffs Run Interceptor Construction Update

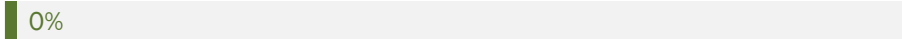


Design Progress

■ Actual ▨ Planned As of October 29, 2021



Construction Progress



Jun 2022 ▲

Jun 2023 ▲

Major Activities

- Final design ongoing
- Mobilization to Jamieson Ave CSA on Dec 6
- Mobilization to AAHP CSA in Feb 2022

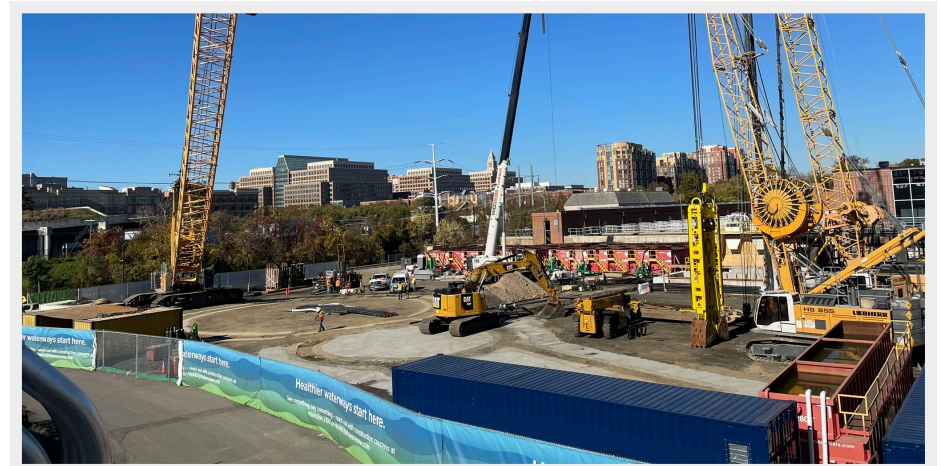
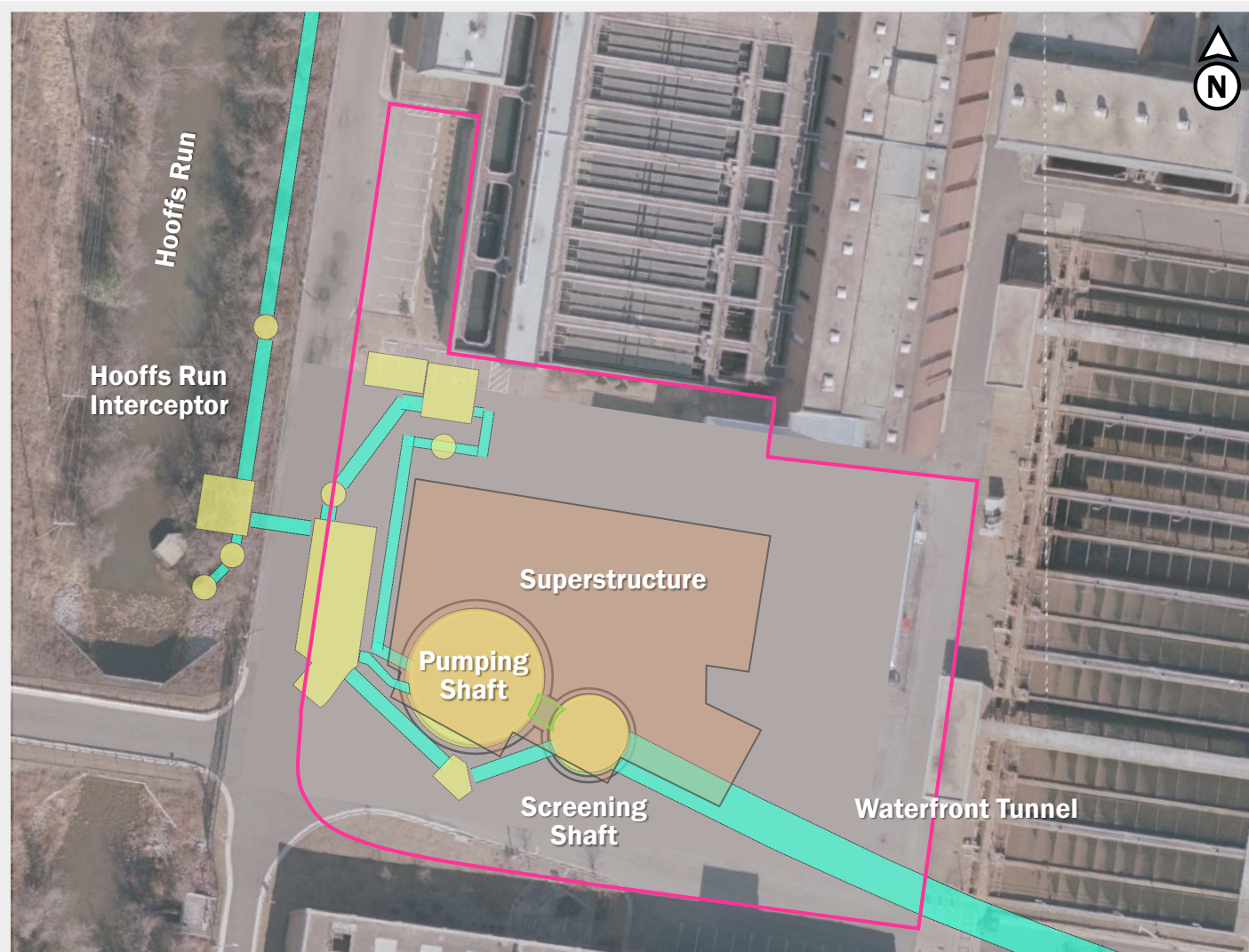


◀ African American Heritage Park CSA



◀ Jamieson Avenue CSA

AlexRenew Construction Update



Design Progress

■ Actual ▨ Planned As of October 29, 2021



Construction Progress

Jun 2022 ▲



Jul 2024 ▲

Major Activities

- Shaft guide wall installation completed
- Slurry plant installation completed
- Shaft construction underway

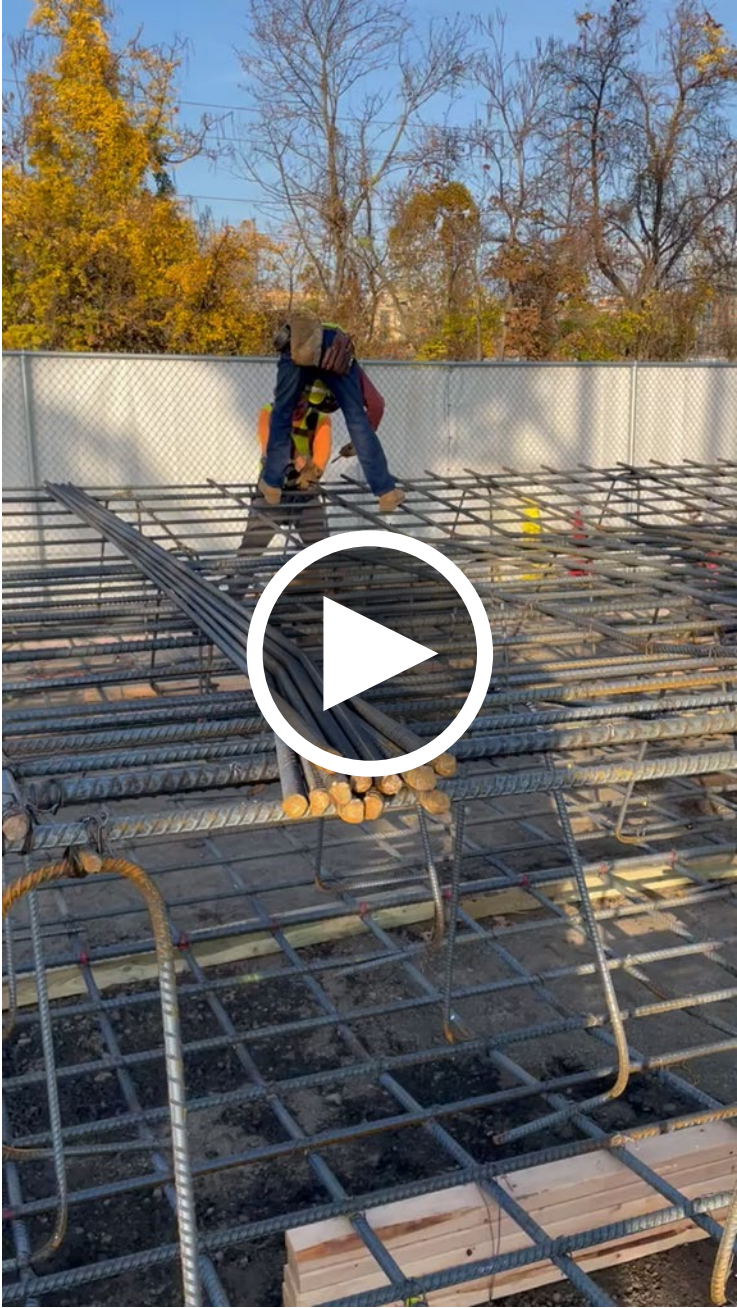
First “Bite” of Shaft Slurry Wall Panel with Clamshell



First “Bite” of Shaft Slurry Wall Panel with Hydromill



Tying Reinforcing Steel for Shaft Slurry Wall Panels



Tunnel Boring Machine Status Update

Steel fabrication of shield, cutterhead, and other components underway



Shield



Cutterhead



Airlock

Factory testing and shipping in April-May 2022 timeframe

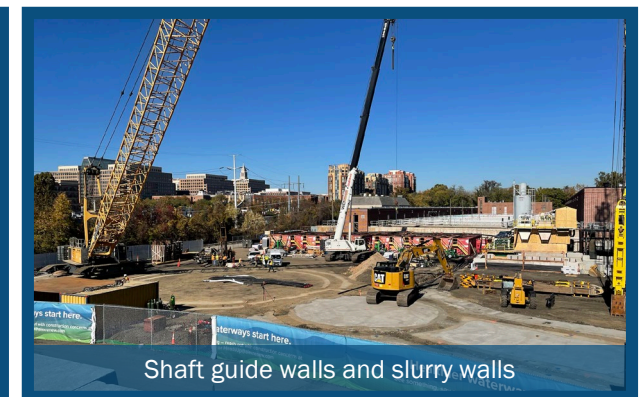
Six-Month Look-Ahead

November sunset at AlexRenew



RiverRenew Tunnel Project Six-Month Look-Ahead

Construction Staging Area	2021		2022			
	Nov	Dec	Jan	Feb	Mar	Apr
Pendleton St	Equipment delivery	Install sheeting				Backfill
Royal St	Temporary utilities, site fencing, grading, erosion/sediment control, and field offices		Equipment mobilization and construction water treatment plant set-up		Shaft guide walls	Shaft slurry walls
Hooffs Run						
Jamieson Ave		Site fencing, clearing, grading, erosion/sediment control		Install support of excavation		Cut and cover for interceptor
AAHP				Site clearing and grubbing, install site fencing and erosion and sediment control		Install sheeting
AlexRenew	Shaft slurry wall installation				Shaft excavation	



Site Preparation
 Support of Excavation
 Excavation
 Permanent Structures
 Restoration
 Tunneling
 Cut and Cover

Upcoming Community Outreach Initiatives



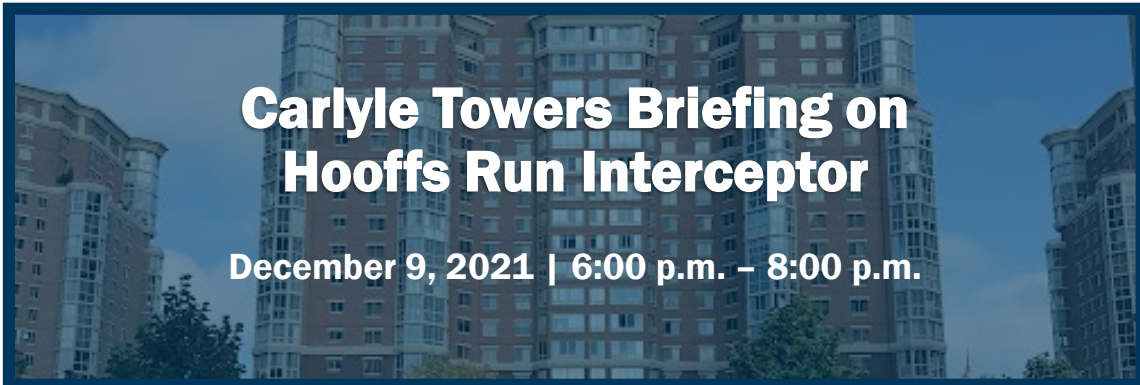
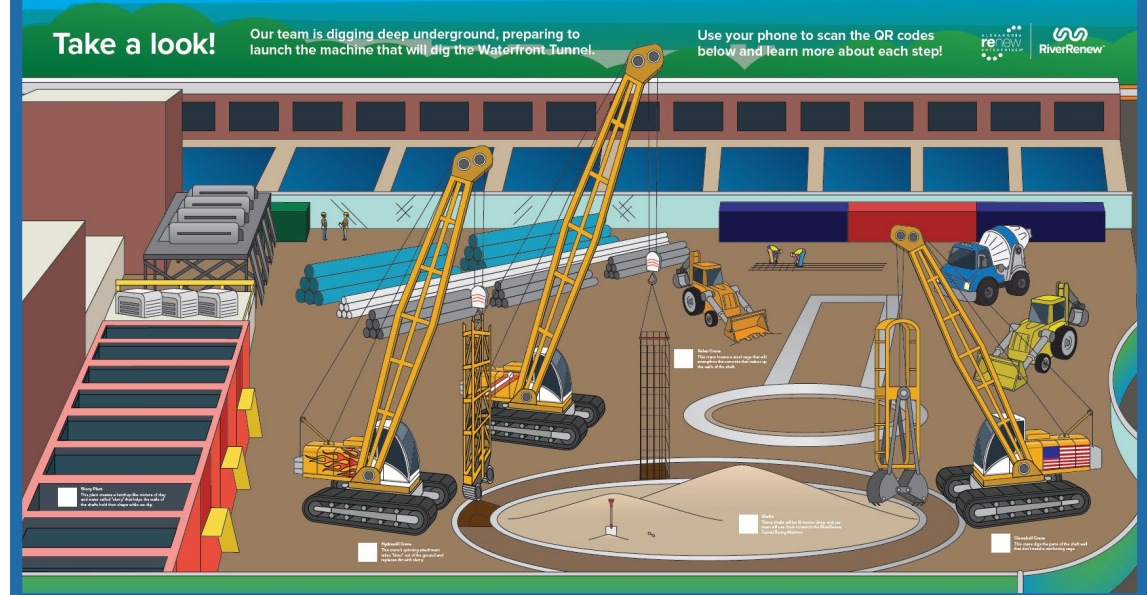
Building for the Future of Alexandria's Waterways

Upcoming RiverRenew Virtual Community Listening Session

**January 26
6:00-8:00 p.m.**



Spot the Equipment at AlexRenew Banner (draft)



Carlyle Towers Briefing on Hooffs Run Interceptor

December 9, 2021 | 6:00 p.m. – 8:00 p.m.

Check out the Pendleton St Time-Lapse Camera!

Site-Specific Program Updates

Time-Lapse Camera



SEPTEMBER 30, 2021
Breaking Ground on the Largest Infrastructure Project in Alexandria's History
MORE →



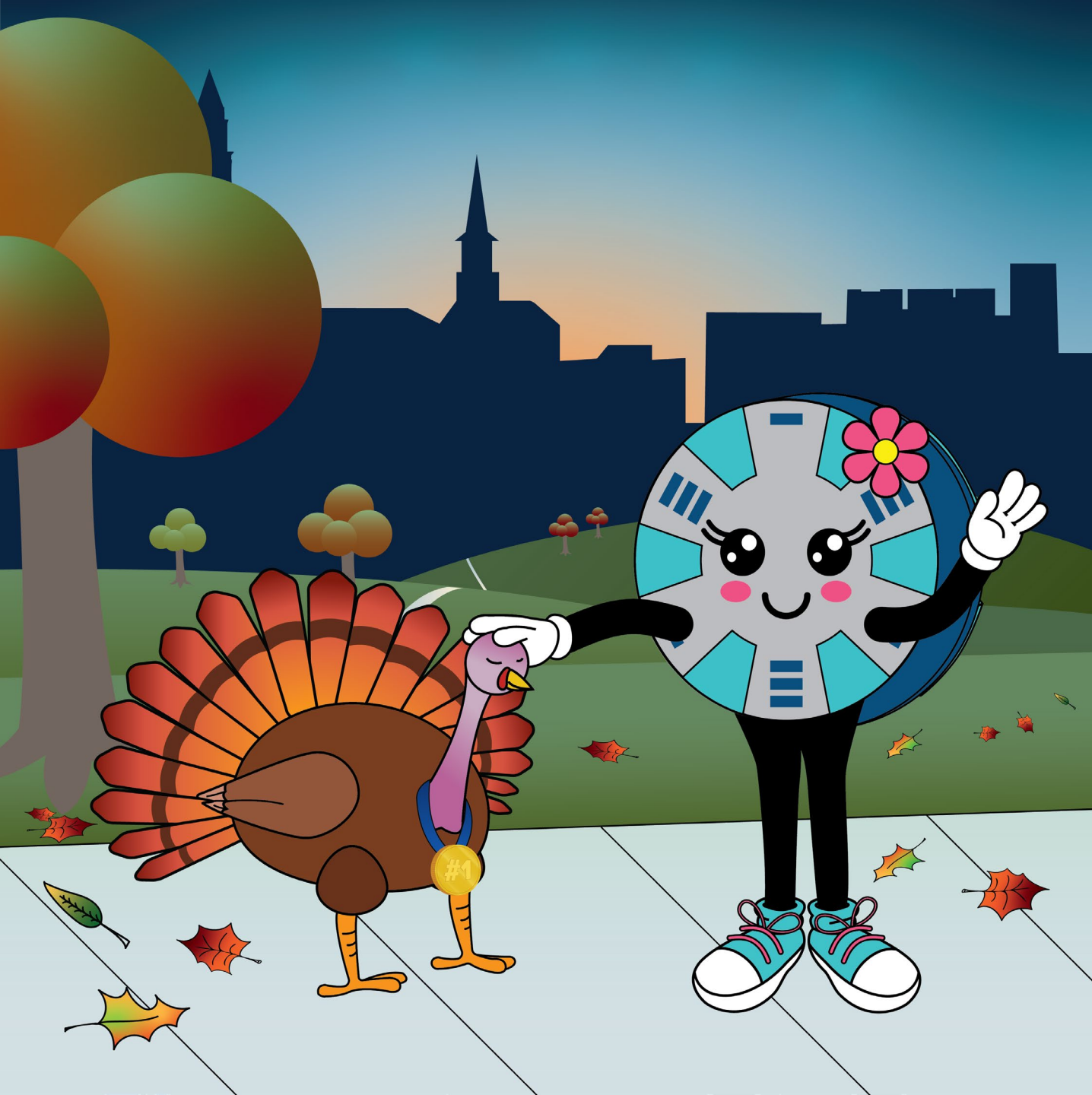
SEPTEMBER 2, 2021
Construction Toward Healthier Waterways to Begin this Fall



[riverrenew.com/
construction/pe
ndleton-street](https://riverrenew.com/construction/pendleton-street)

Meeting Takeaways

- SAG members to revisit commitment for 2022-2023 by Dec 16
 - Traylor-Shea established agreements to recruit local labor for the Tunnel Project
 - Work associated with the Pendleton St CSA has minimal impact on mobility around Oronoco Bay Park
 - AlexRenew is implementing rate adjustments to help pay off RiverRenew debt
 - Construction underway at Pendleton St, Royal St, and AlexRenew
 - Upcoming Community Listening Session on Jan 26
-



Public Comment Period



RiverRenewTM

INVESTING IN HEALTHIER WATERWAYS FOR ALEXANDRIA

To learn more, visit www.RiverRenew.com