



BLUE
PRINT
COLUMBUS

Cleaner streams.
Stronger neighborhoods.

Hilltop 4

Pre-Construction Kickoff

Tuesday, April 7, 2026 | 6 – 8 p.m.



BLUE PRINT COLUMBUS

Cleaner streams.
Stronger neighborhoods.



COLUMBUS
WATER & POWER

Welcome

Moderators

MARIE S. KEISTER, APR, AICP
Outreach Team
MurphyEpson

ELYAS INGRAM
Outreach Team
D&D Policy Works

Presenters

CAMERON KEIR
Communications & Outreach
City of Columbus

JEREMY CAWLEY, P.E.
City of Columbus
Project Manager

TIMOTHY ROOT, P.E.
Stantec
Construction Services Manager



BLUE PRINT COLUMBUS

Cleaner streams.
Stronger neighborhoods.



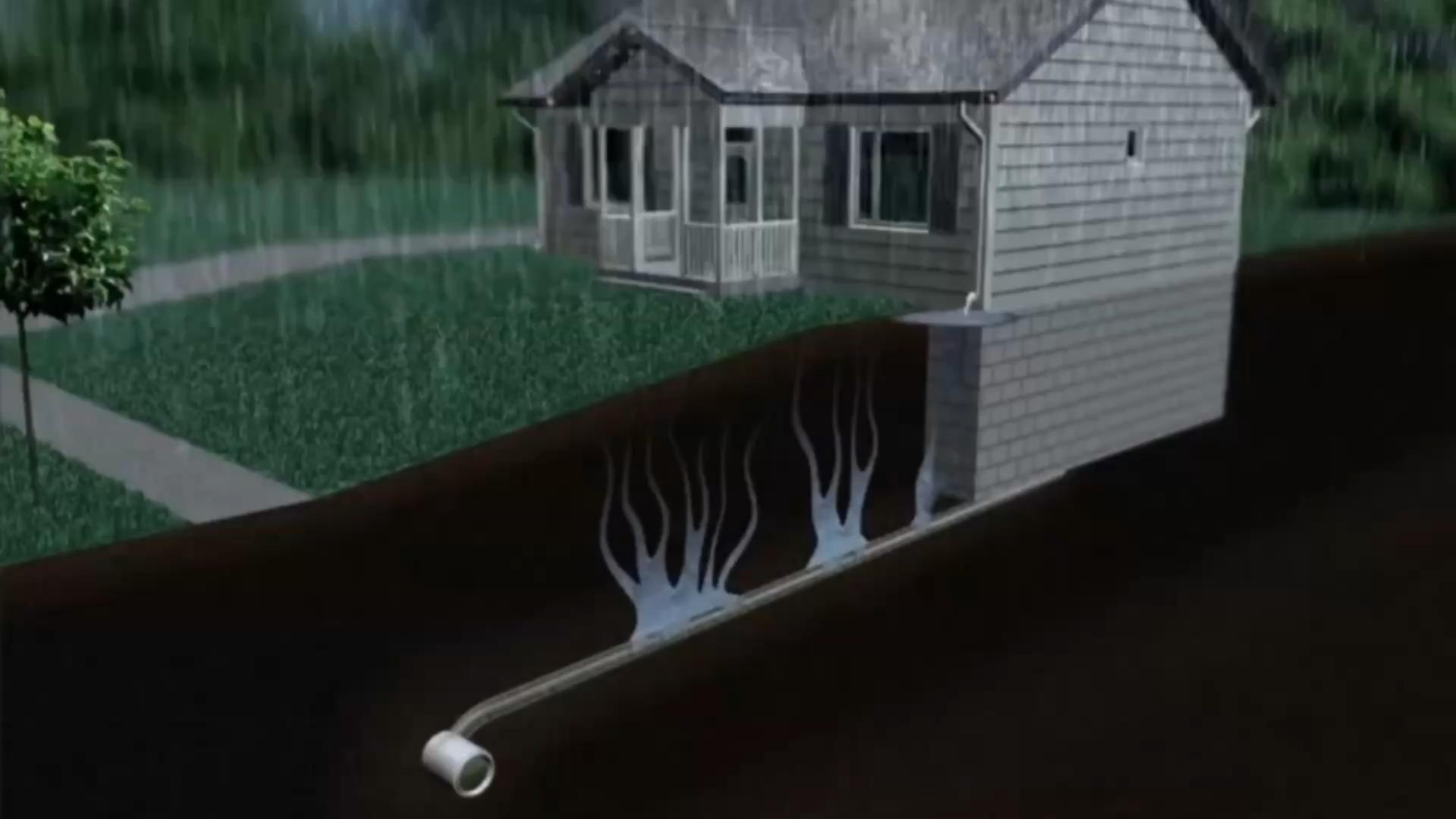
COLUMBUS
WATER & POWER

Agenda

- Blueprint 101: A refresher
- Construction plans
- Neighborhood impacts
- Open house

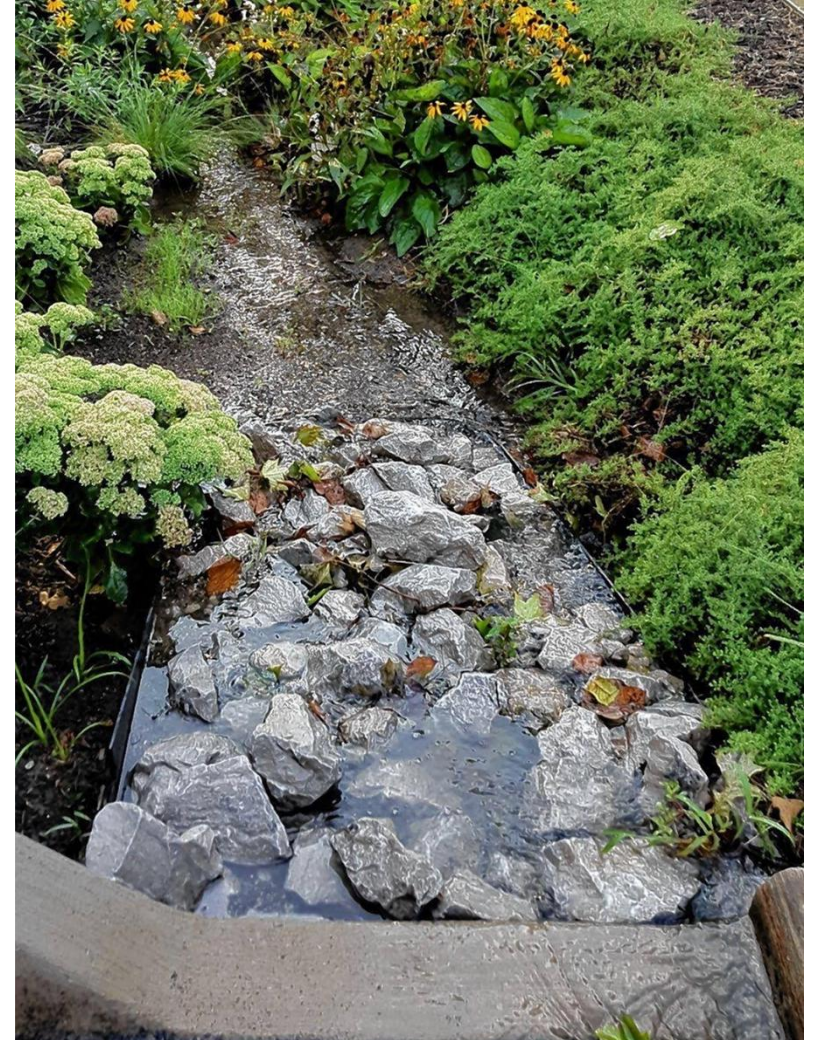
Blueprint 101: A Refresher

CAMERON KEIR
Columbus Water & Power
City of Columbus



Blueprint: An Innovative, Green Solution

- Invests in fixing our existing infrastructure
- Uses local materials, native plants
- Creates opportunities to improve stormwater discharges
- Adds permanent local jobs
- Engages neighborhoods, residents
- Addresses consent order requirements



Consent Orders

2002 SSO (Sanitary Sewer Overflow) Order

Requires Columbus to address SSOs by providing adequate system capacity for base and peak flows

- Original plan submitted in 2005
- Original plan included two 14-mile deep sewer tunnels
- “Blueprint Alternative” submitted and approved by Ohio EPA in 2015

2004 CSO (Combined Sewer Overflow) Order

- Plan submitted in 2005
- OARs tunnel completed July 2017
- CSO volumes have reduced dramatically

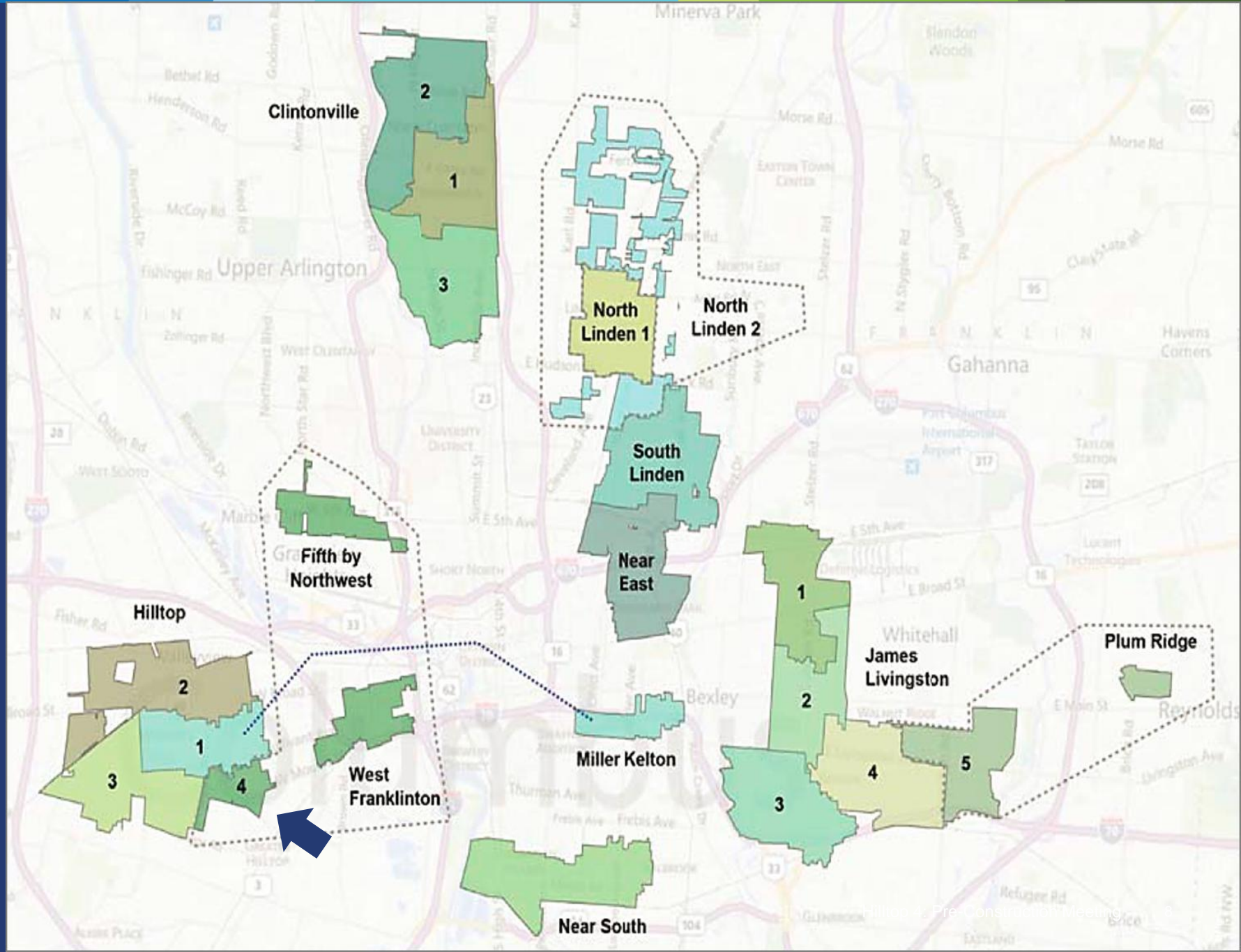
NOTE: Blueprint is NOT a flooding mitigation program by design alone

Blueprint Columbus

18,404 acres &
21 project areas
throughout
Columbus

**BLUE
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COLUMBUS
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 **COLUMBUS
WATER & POWER**



The Four Pillars: How We Accomplish Our Goals

GOAL 1: Reduce sanitary sewer overflows by keeping rainwater out of the sanitary system



Lateral Lining

Seals aging sewer pipes from the inside. This minimally invasive process prevents rainwater from entering the sanitary sewer system, reduces overflows and extends the life of existing infrastructure.



Sump Pumps

Manage groundwater at the foundation. An automated pit and float system pumps excess water away from the building. This helps keep water from entering the sanitary system through the joint in the sanitary lateral pipe near the home's foundation.



Roof Water Redirection

Manages stormwater above ground. In limited circumstances, eligible homes may connect downspouts to the street—directing rainwater to the storm sewer where it belongs.

GOAL 2: Treat stormwater before it enters our rivers and streams



Green Infrastructure

Captures, slows and treats stormwater at the surface. Rain gardens, permeable pavement and silva cells naturally filter runoff before it reaches the storm sewer—improving the health of our watershed.

Lateral Lining and Sump Pumps



Lateral Lining

- Seals cracked and loose laterals
- Prevents root intrusion/new blockage
- Seals lateral from water intrusion
- Improves property value



Sump Pumps

- Prevent groundwater from entering sanitary sewers
- Move stormwater runoff away from homes' foundations
- Keep runoff from entering basements

Goal of Green Infrastructure



Leaves and debris carried by rainwater rush down the street

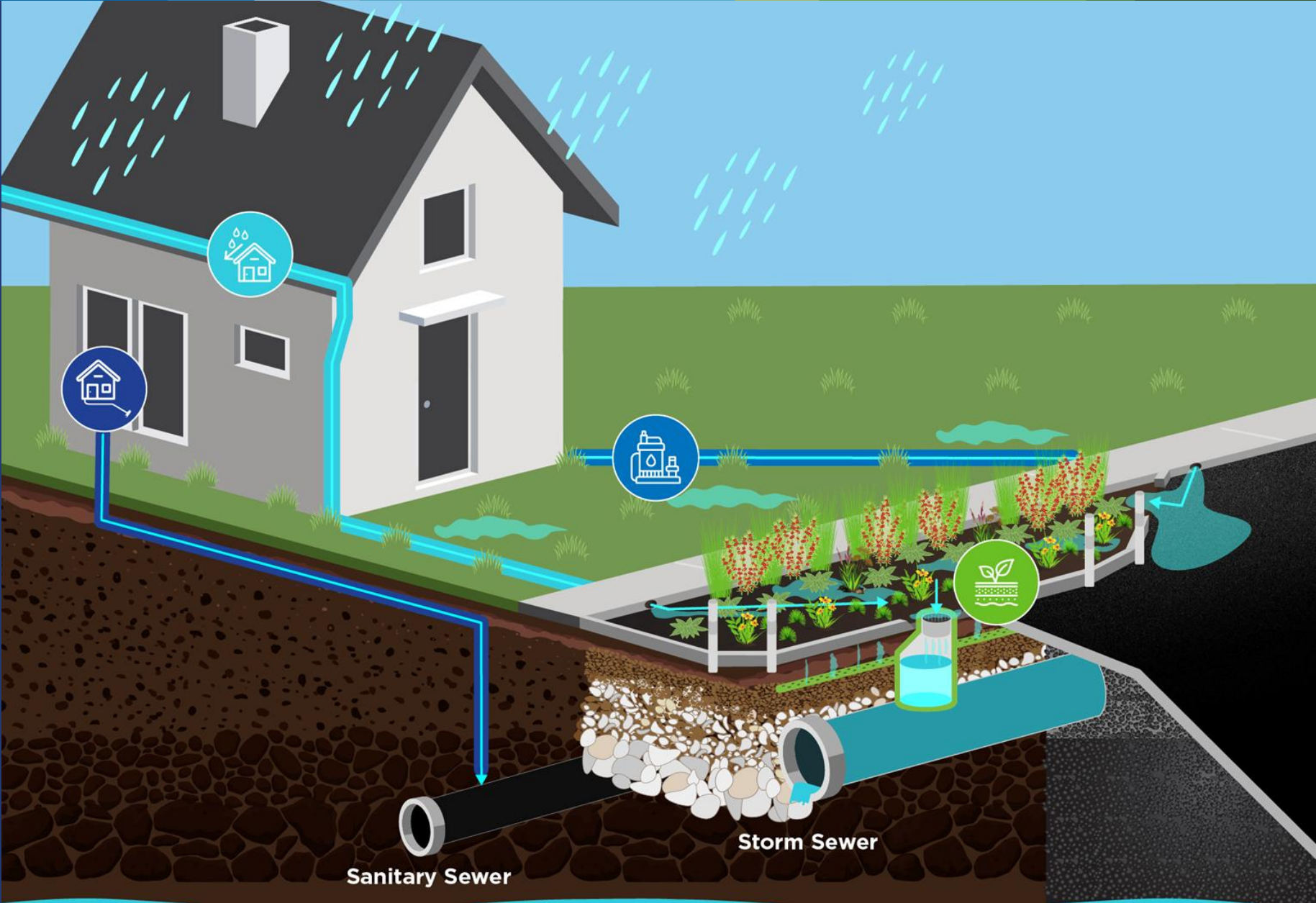


Green Infrastructure filters rainwater of debris, leaves, etc.



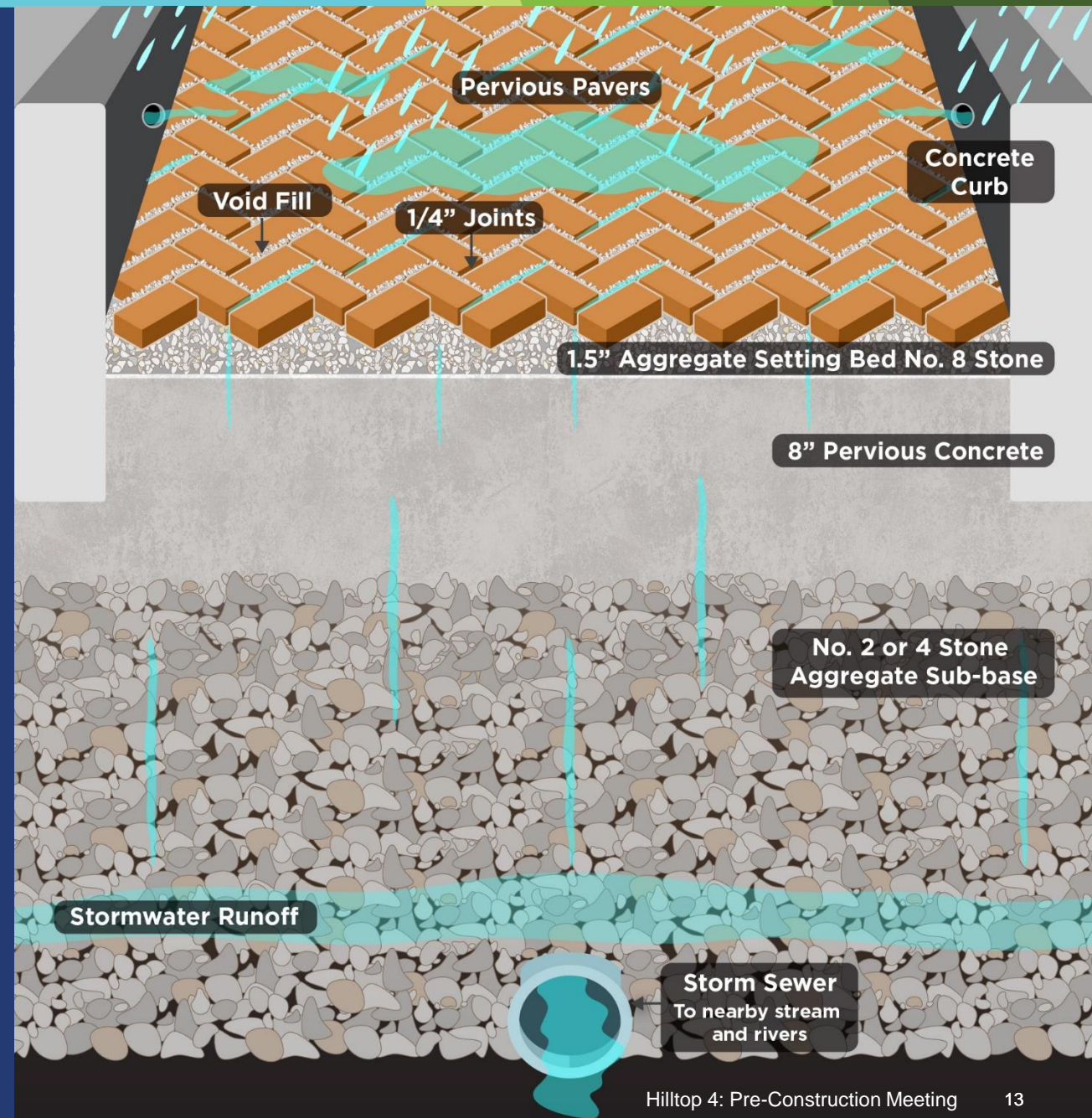
GOAL: Improve stormwater discharges

How Green Infrastructure Works



How Pervious Pavement Works

- Filters and cleans rainwater
- Reduces street flooding
- Calms traffic
- Reduces maintenance



The City is Responsible for All Maintenance

Green infrastructure installed by the City is part of the storm sewer system

Regular maintenance keeps it working!

- Weeding, mulching, plant care
- Removing trash
- Checking underdrains
- Removing sediments



Rain Garden Helpful Tips

DO

- ✓ Do report spills or illegal dumping immediately:
 - Stormwater Prevention Hotline 614-645-7873
- ✓ Do remove debris blocking curb inlets or drainage openings
- ✓ Do call Blueprint if you notice concerns like:
 - Dying or damaged plants
 - Unusual ruts or sinkholes
 - Standing water lasting more than 48 hours
- ✓ Do maintain the right-of-way outside the garden edge (mowing and light raking)

DON'T

- ✗ Don't walk, stand, dig or compact the soil inside the garden
- ✗ Don't puncture the underdrain with stakes, posts or other objects
- ✗ Don't add mulch, soil or new plantings – this reduces drainage capacity
- ✗ Don't apply fertilizers, pesticides or chemicals
- ✗ Don't rake leaves into the garden

Rain Garden Plants

WINTER BLOOM



Blue Velvet St. John's Wort



Iroquois Beauty Black Chokeberry



Pow Wow Wild Berry Coneflower



Cheyenne Sky Switch Grass



Little Henry Dwarf Sweetspire



Snow Flurry Heath Aster



Kelsey Dwarf Dogwood



Purple Dome New England Aster

Rain Garden Plants

SPRING BLOOM



Blue Ice Amsonia



Emerald Blue Moss Phlox



Grow-Low Fragrant Sumac



Lady in Fern Red
(full shade only)



Pennsylvania Sedge
(full shade only)



Sherwood Purple
Creeping Phlox



Wild Ginger
(full shade only)

SUMMER/FALL BLOOM



Blue Flag Iris



Butterfly Weed



Cheyenne Spirit Purple
Coneflower



Fox Sedge



Goldstrum Coneflower



Pow Wow White
Coneflower



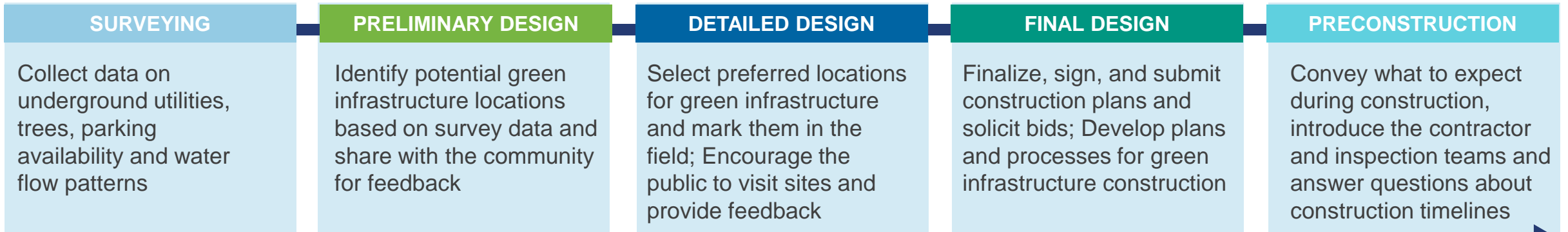
Slender Mountain Mint



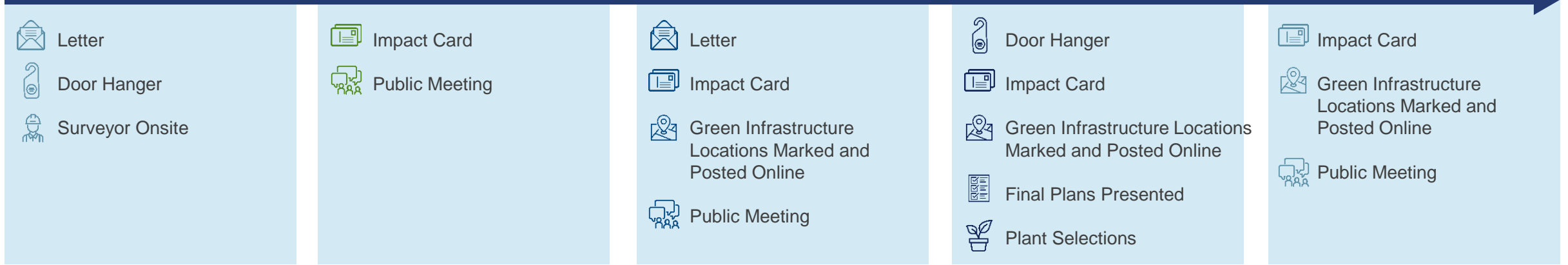
Small-headed Blazing
Star

Schedule

Current Phase



BLUEPRINT OUTREACH TEAM KEEPING YOU INFORMED



Hilltop 4: What To Expect

Jeremy Cawley, P.E.
Columbus Water & Power
City of Columbus

Hilltop 4 Project Team



Design Team



Construction Team



Construction Administrator/Inspection

Hilltop 4: Infrastructure Location



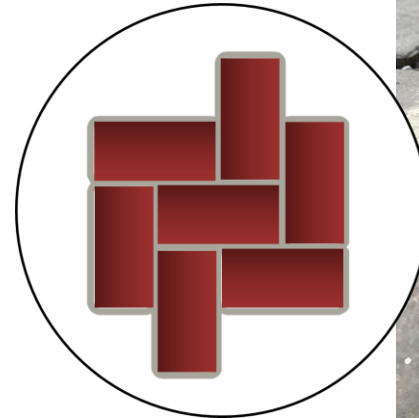
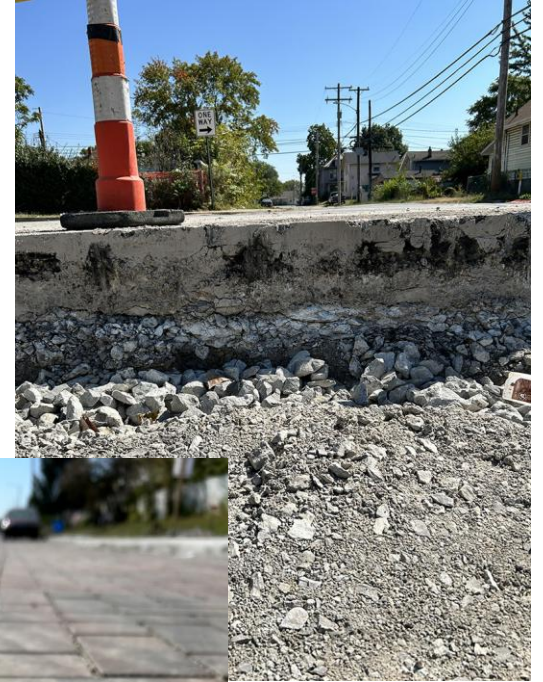
Permeable Pavers



- Richardson Avenue from Whitehead Road to Mound Street
- Eureka Avenue between Springmont Avenue and Safford Avenue

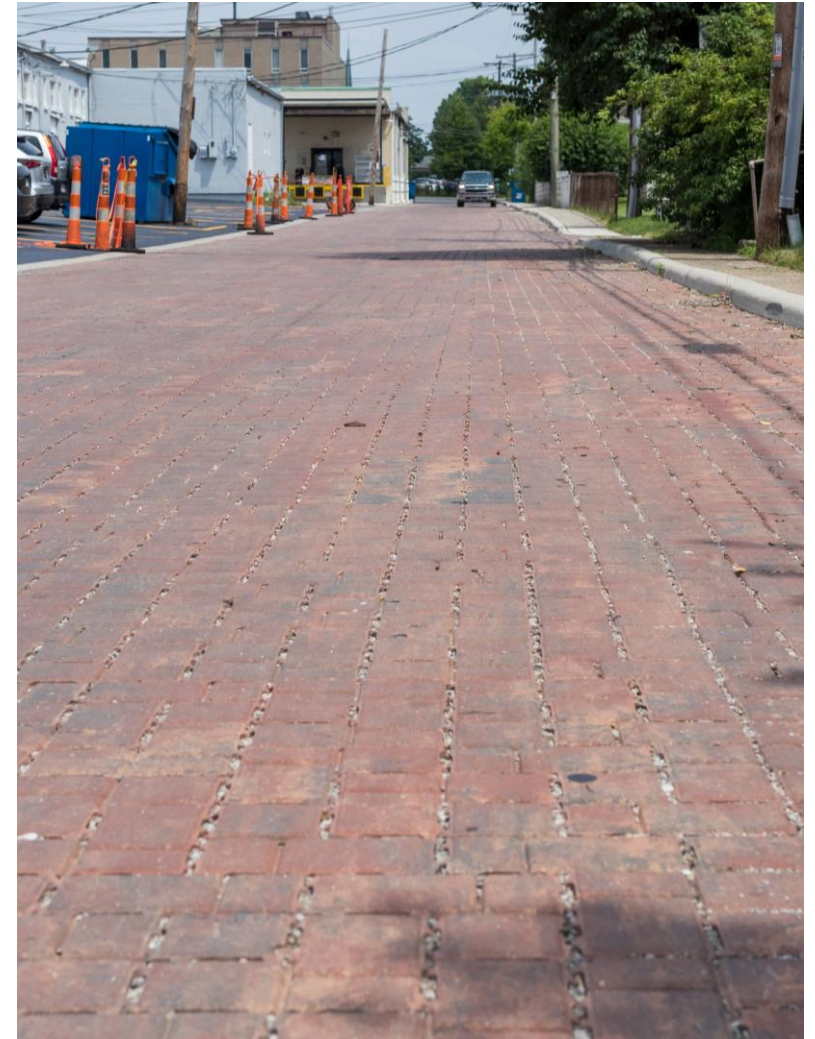
Pervious Pavement

- Permeable concrete pavers laid in a herringbone pattern
- Curbs will be replaced along permeable pavement streets
- Water mains and services will be replaced
- Existing sidewalk to be replaced if impacted by work — no new sidewalk to be constructed



Paver Construction Process

- Street sections close for approximately nine weeks to install pavers
- No vehicle access or parking allowed during construction – pedestrian access to sidewalks maintained
- Pavers will be installed only on “Priority 3” streets with speed limits of 25 miles per hour or less
- Pavers installed where alley access is available to keep traffic, trash collection, deliveries, essential services working



Hilltop 4: Rain Gardens

- We will use behind-the-curb designs, sloped rain gardens, a limited use of step-out gardens and regional basins

Design criteria

- Where is water flowing
- Where does it need to go
- Total suspended solids removal

85 green infrastructure Improvements

- 75 right-of-way rain gardens
- 1 bump-out rain garden
- 7 regional rain gardens
- 2 pervious paver streets



What is the right-of-way?

Is the city working in your yard?

- No, the public right-of-way is owned by the City of Columbus
- Designated space for sidewalks, utilities and now, green infrastructure

Where is the right-of-way?

- Typically, 30-60 feet from the centerline of your street
- In some instances, this includes alleys behind your home
- Right-of-way work requires a city permit
- By law, right-of-way must be noted on the property deed and disclosed during the sale of a home



You Care, We Care

- We know you've maintained this land as long as you've owned your property
- And we think you're doing a great job!
- Before construction, outreach team members make multiple attempts to contact impacted residents
- See our teams tonight if you still have questions



Right-of-way Basins



Sloped single-walled basins

- Rosedale Avenue
- Whitehead Road
- Springmont Avenue
- Safford Avenue
- Clarendon Avenue

Right-of-way Basins



2-walled gardens with step-out

- Hague Avenue
- Harris Avenue
- Warren Avenue
- Ogden Avenue
- Burgess Avenue
- Terrace Avenue
- Eureka Avenue
- Wayne Avenue
- Wheatland Avenue
- Highland Avenue
- Whitethorne Road
- Mound Street
- Eakin Road

Step-out Basins



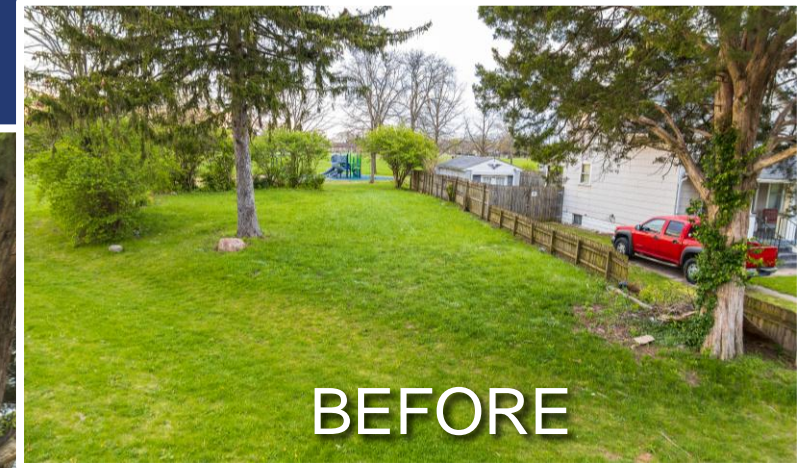
1-walled gardens with step-out

- Hague Avenue
- Eureka Avenue
- Harris Avenue
- Oakley Avenue
- Whitethorne Road
- Mound Street

Regional Rain Garden



AFTER



BEFORE

- Wayne Avenue
- Oakley Avenue
- Highland Avenue
- Mound Street and Wayne Avenue
- Safford Avenue and Oakley Avenue
- Whitehead Road and Eureka Avenue
- Sullivant Avenue and Clarendon Avenue

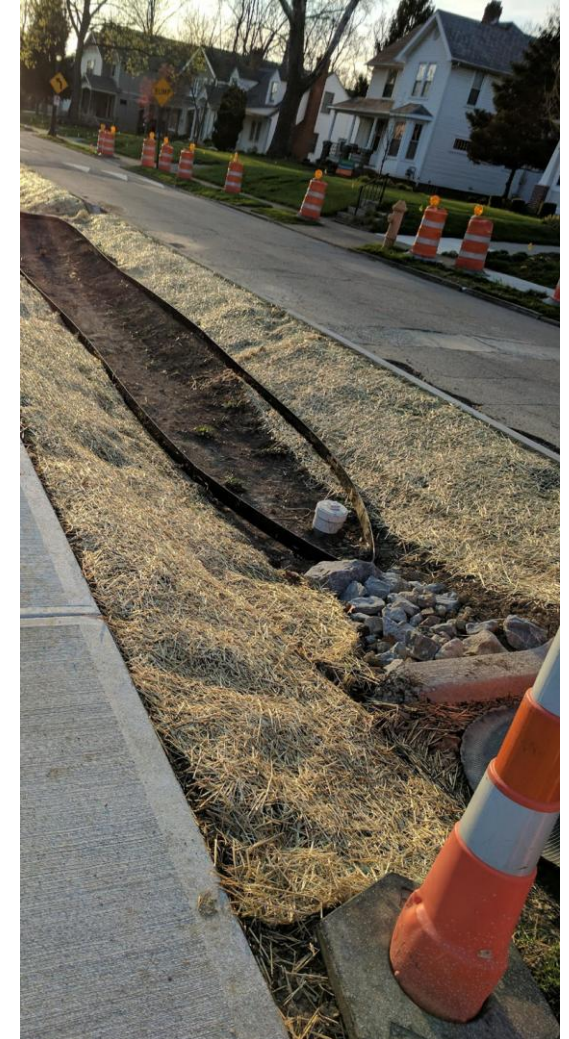
Bump-out Rain Gardens



AFTER

Rain Garden Construction & Storm Sewer Work

- Excavate and install storm sewers
- Install biosoil and hardscape features
- Restore planting and grasses
- Plant in spring and fall
- Allow approximately three weeks per garden (up to six)



Restoration

- Repave any disturbed areas
- Seed & straw to restore grass
- Plant trees
- Conduct final inspection
- Schedule is tentative and subject to weather, supply chain, etc.
- Sign-up for weekly updates



Parking Impacts

- Where you park is critical and part of everyday life
- Blueprint designs **strongly** take this into account
- We conducted a parking study, trying to limit the amount of impacts
- If your parking was impacted, you have been notified



Other Impacts

- Some curb, sidewalks and driveway approaches will be replaced
- Some waterlines will be moved/replaced
- Some fire hydrants will be moved
- Some new storm pipes will be installed
- Some light poles and street signs will be moved or replaced

Removed Tree's Trunk Diameter	Tree Replacement Ratio
≤ 12"	1:1
12"- 18"	2:1
18"- 24"	3:1
24"- 30"	4:1
≥ 30"	5:1



Lead-Safe Columbus Update

Hilltop 4

Water service line replacement

Is the water safe?

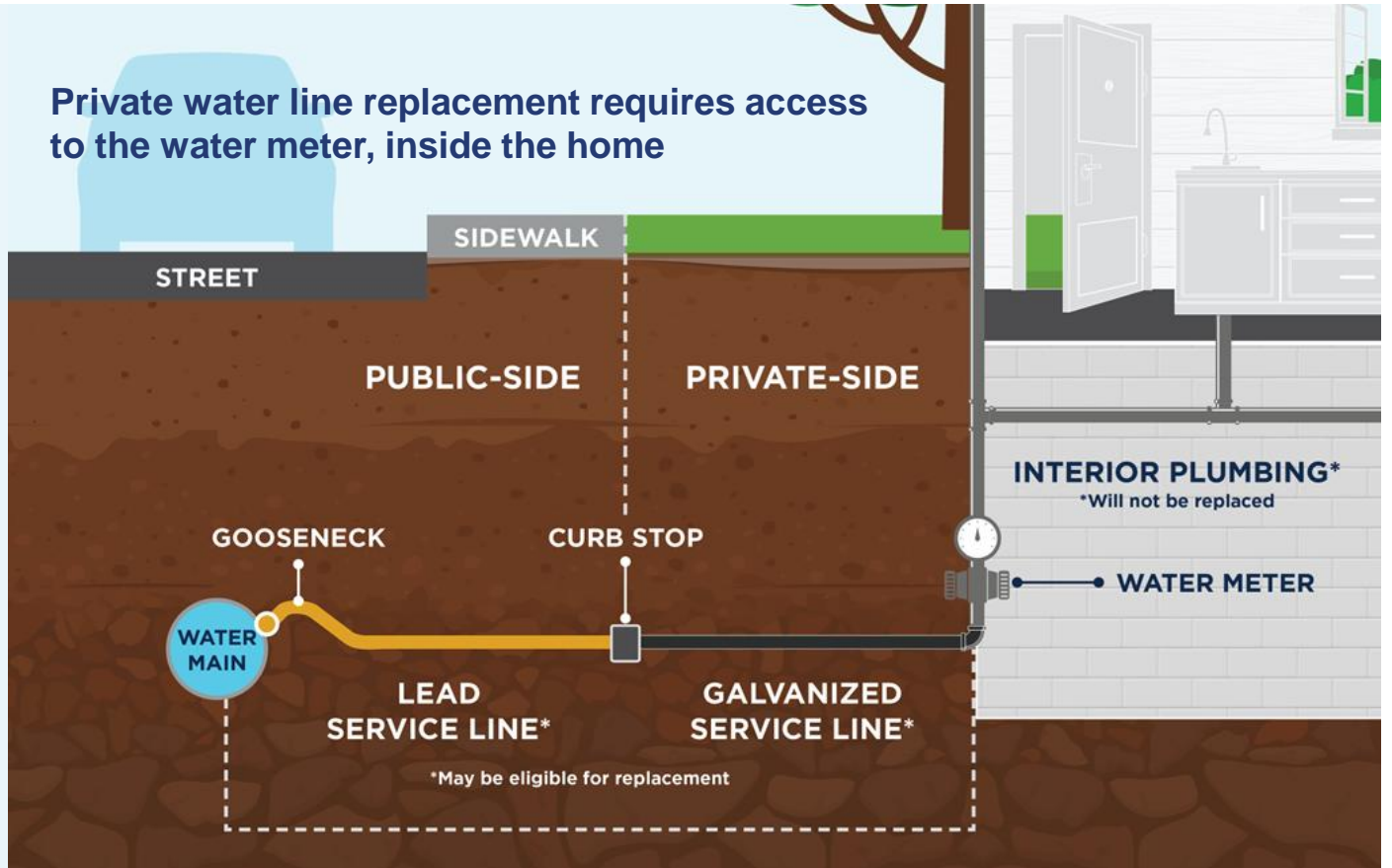
Yes!

What is being replaced?

Public and private water service lines made of lead and galvanized steel

Why are they being replaced?

To ensure we meet federal requirements and to remove old infrastructure



How are water lines being replaced?

The city will replace lead/galvanized water lines during construction projects that are already planned.

- **Blueprint**
- **Water main replacement**
- **Street by Street replacement**



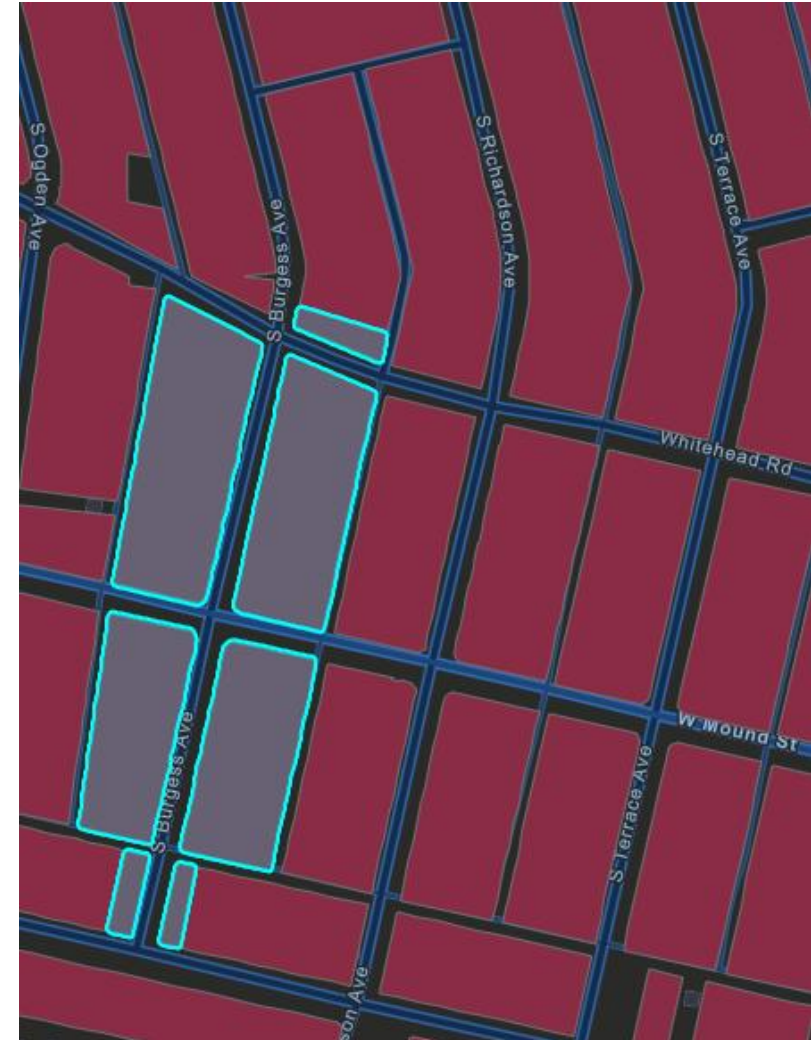
Lead Water Service Line Work in Hilltop 4

■ S Burgess Ave

- *Water main replacement*
- **Construction start date ~October 2026**
- 698-812 S Burgess Av
- 2654-2642 Eakin Rd
- *Sign work agreements!*

■ Select rainwater basins

- *See lead service line table to check individual impact*



Lead Water Service Line Work in Hilltop 4

- Surveying for future water line replacement
 - Currently soliciting work agreements to plan future water service line projects



Replacement is required—action needed!

Property owners must:

Sign a Work Agreement
columbus.gov/newline

Identify Water Line Material
columbus.gov/leadsurvey

Scan to Sign
Work Agreement



A work agreement is **required** to receive a free replacement during scheduled construction if the line is lead or galvanized.

Optional meter relocation reduces the need to enter the home in the future.

Keeping You Informed

- Meet your Outreach Team!
- You should have received an impact card if your property is directly affected
- We will be present and available throughout the construction
- Sign up for emailed construction updates



Brief Q&A

Discussion Ground Rules

- My role is to be sure we hear from each of you and that we end on time
- Please keep questions to the overall project, our open house is a perfect time to discuss address-specific concerns
- Please raise your hand and wait for the microphone to come to you so I can call on you in order
- Summarize your situation or question quickly so we can hear from everyone
- Please be respectful, polite and kind; we are all working together to find solutions

Tonight's Open House



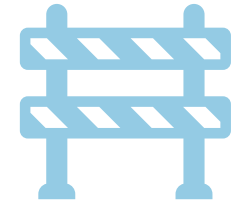
**Talk with
our team**



**Check out
the plants**



**Sign up for a
sump pump**



**Sign up for
construction updates**