



BLUE PRINT COLUMBUS

Cleaner streams.
Stronger neighborhoods.

Clintonville Update

CAC Meeting December 2023

TIFFANY CONN

Community Relations Coordinator

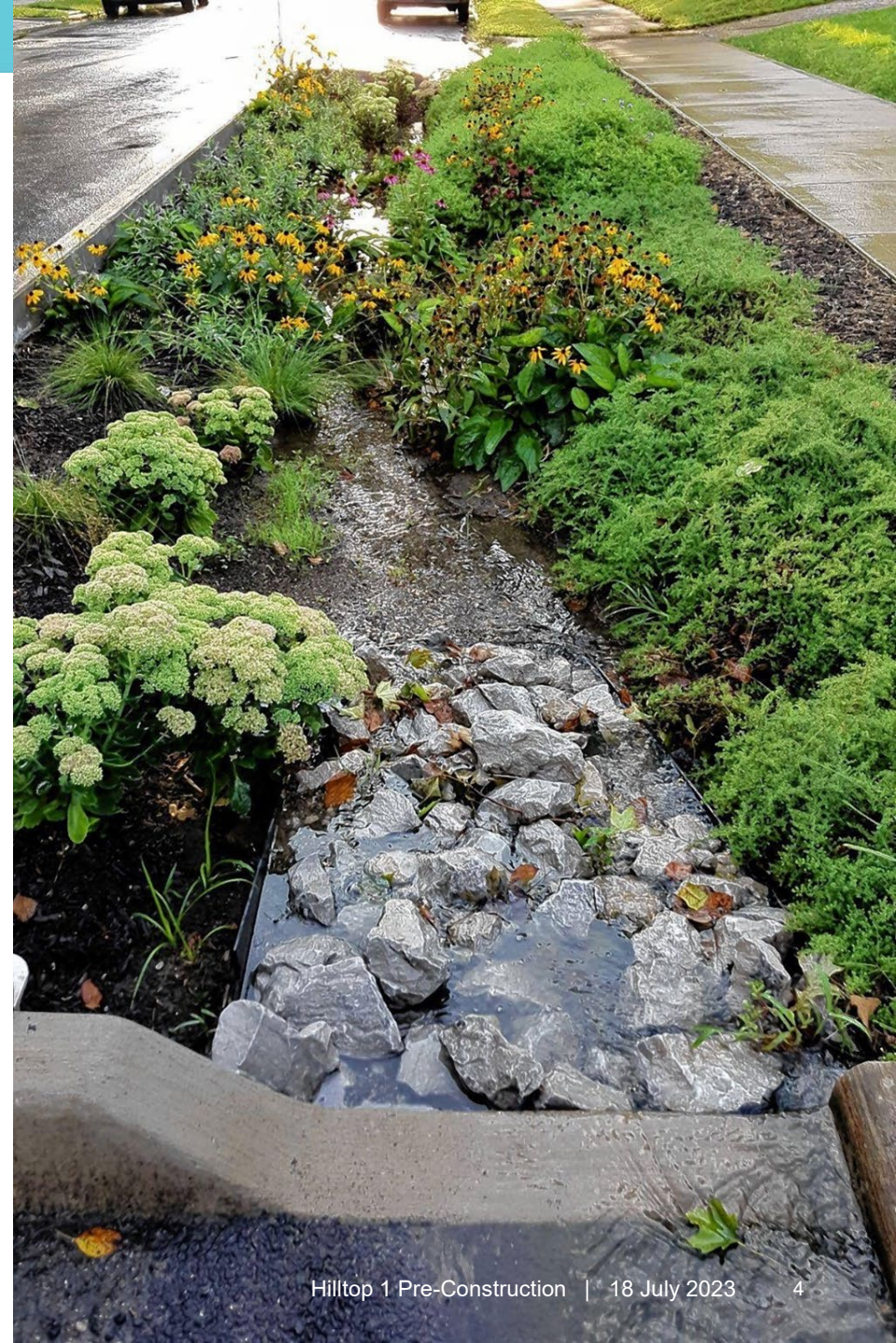
City of Columbus

Blueprint 101:

An Introduction

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

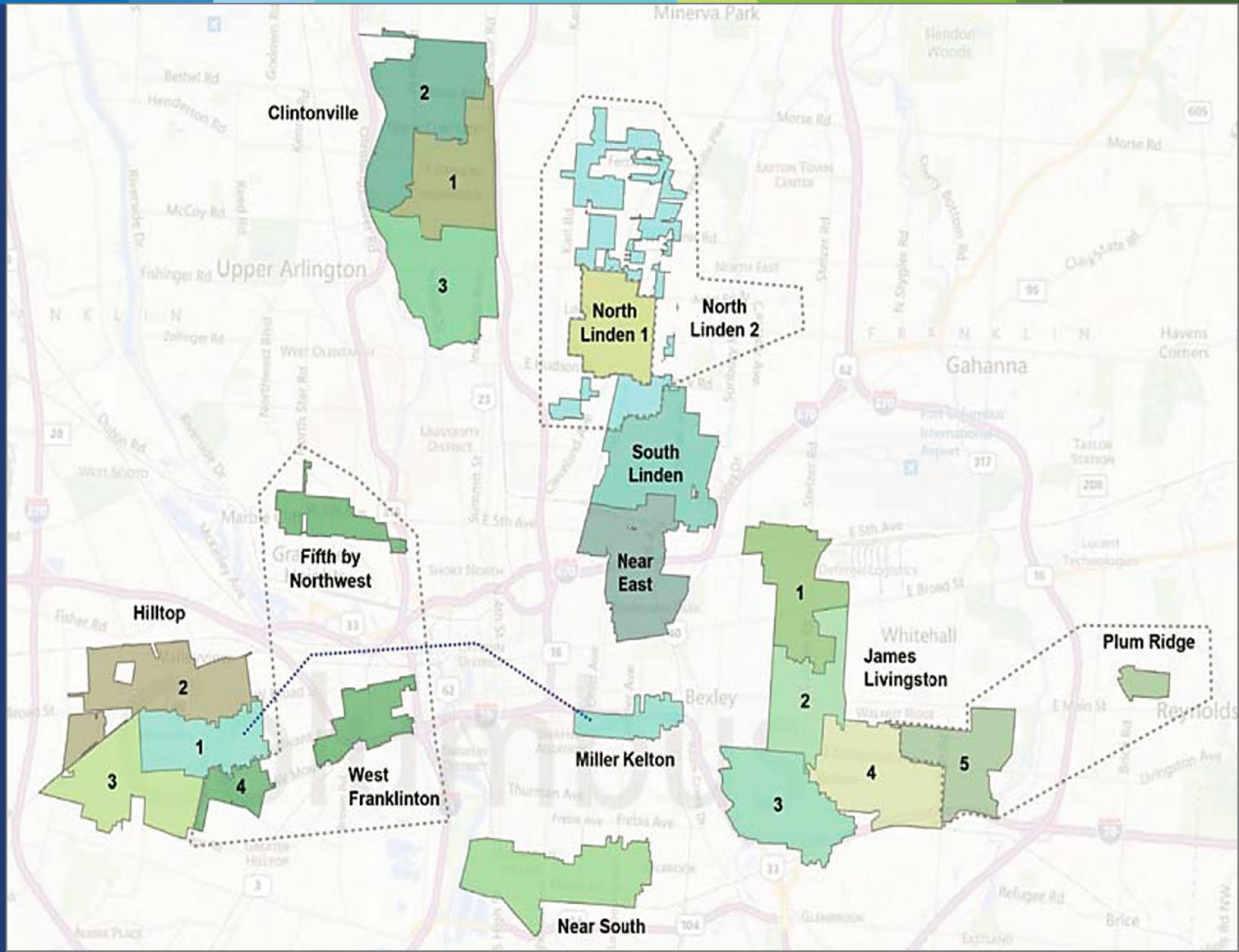


Blueprint Columbus

18,404 acres &
21 project areas
throughout
Columbus

**BLUE
PRINT
COLUMBUS**
Cleaner streams.
Stronger neighborhoods.

THE CITY OF
COLUMBUS
ANDREW J. GINTHER, MAYOR
DEPARTMENT OF
PUBLIC UTILITIES



Four Pillars



Lateral Lining

- Keeps rainwater out of sanitary sewer
- Seals cracks and small breaks in pipe that carry rain away from your home to sewers



Roof Water Redirection

- Redirects rainwater away from your home and to the street, so that it can't enter the sewer through connection joints around your home



Sump Pumps

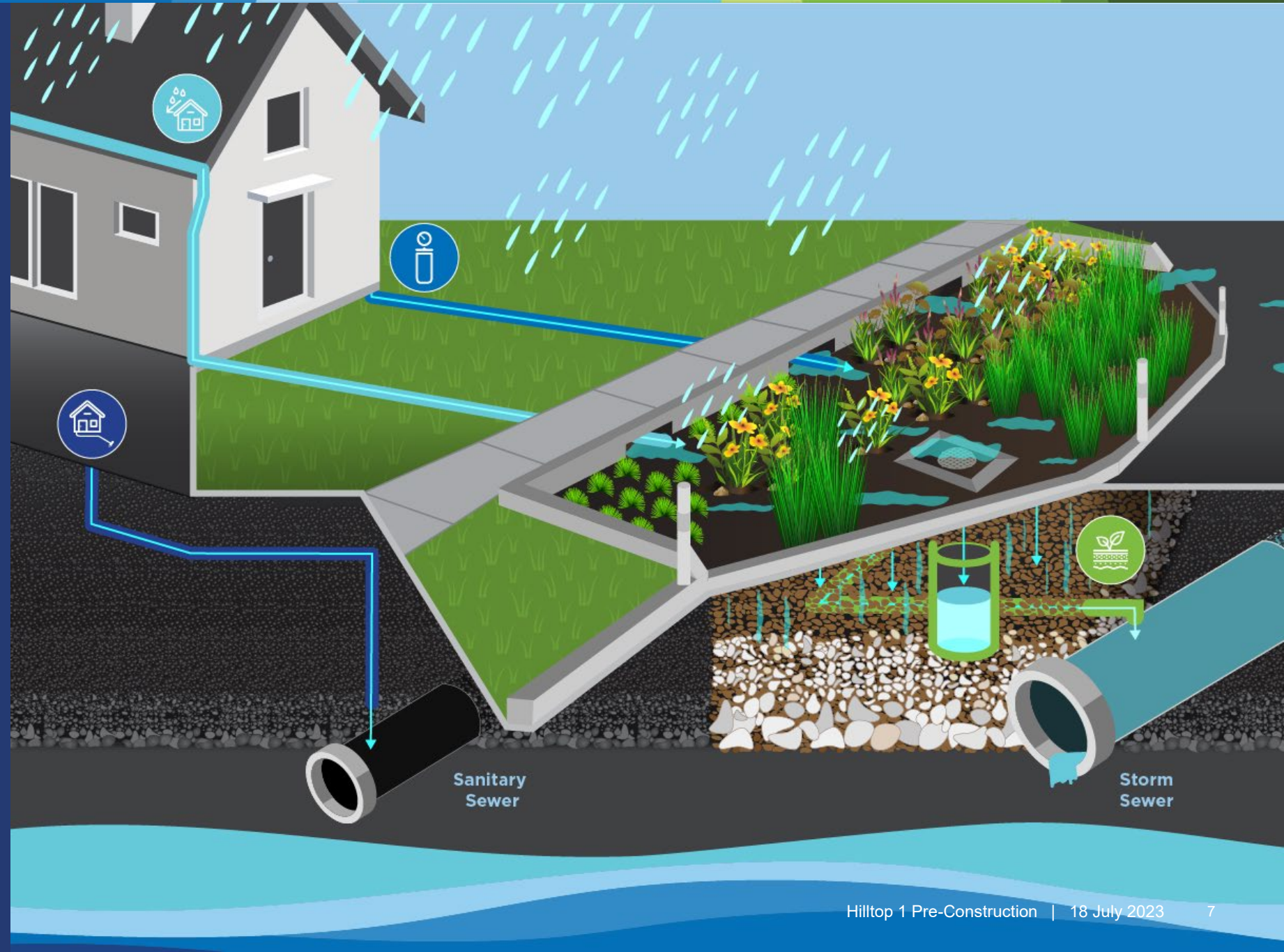
- Collects rainwater around your home's foundation
- Discharges rainwater into a pipe that discharges to the street



Green Infrastructure

- Filters rainwater from the street
- Removes pollutants and trash
- Makes rainwater cleaner when it reaches rivers and streams

How Green Infrastructure Works



Green Infrastructure Goal



Leaves and debris
carried by rainwater
rush down the street



Green Infrastructure
filters rainwater of
debris, leaves, etc.



GOAL: Improve
stormwater
discharges

Bio-Retention Basin Cross Section



Pathogens



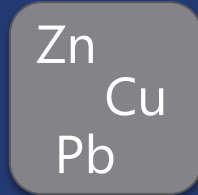
Nutrients



Sediment



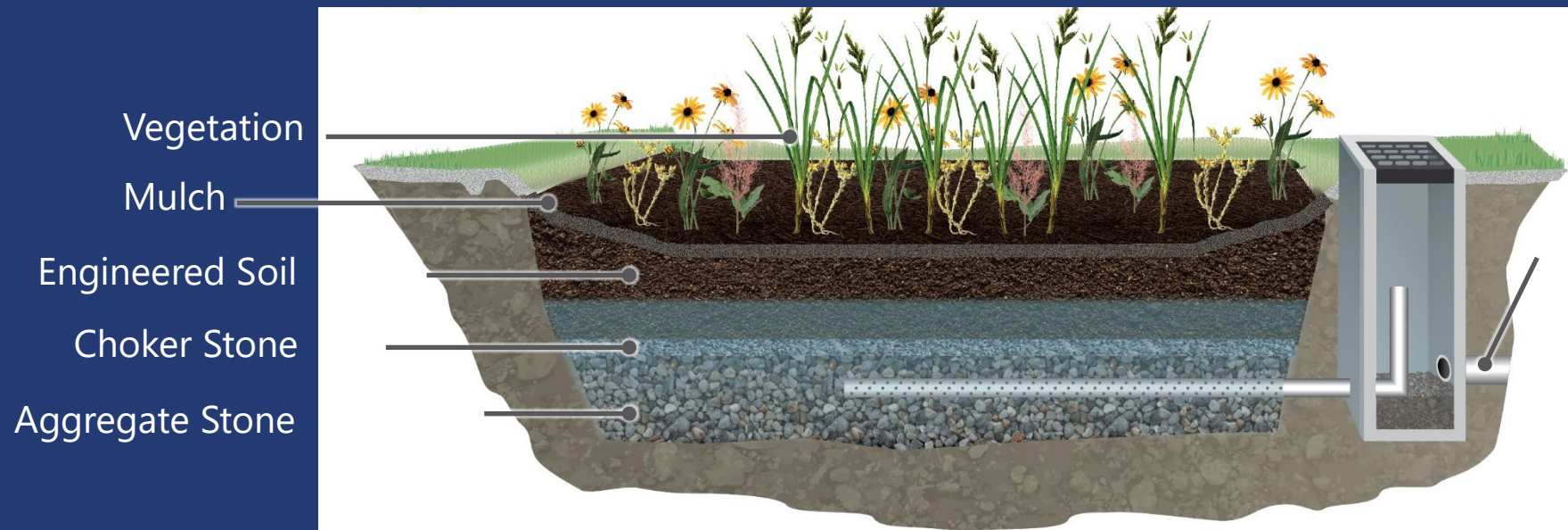
Trash



Metals



Flow



Types of Green Infrastructure



**Behind-the-curb
rain garden-
2 walls**



**Behind-the-curb
rain garden-
no walls**



**Bump-out rain
garden**

Types of Green Infrastructure



Silva Cell



Regional rain garden



Pervious pavement

The City is Responsible for All Maintenance!

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

Regular maintenance keeps it functioning!

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

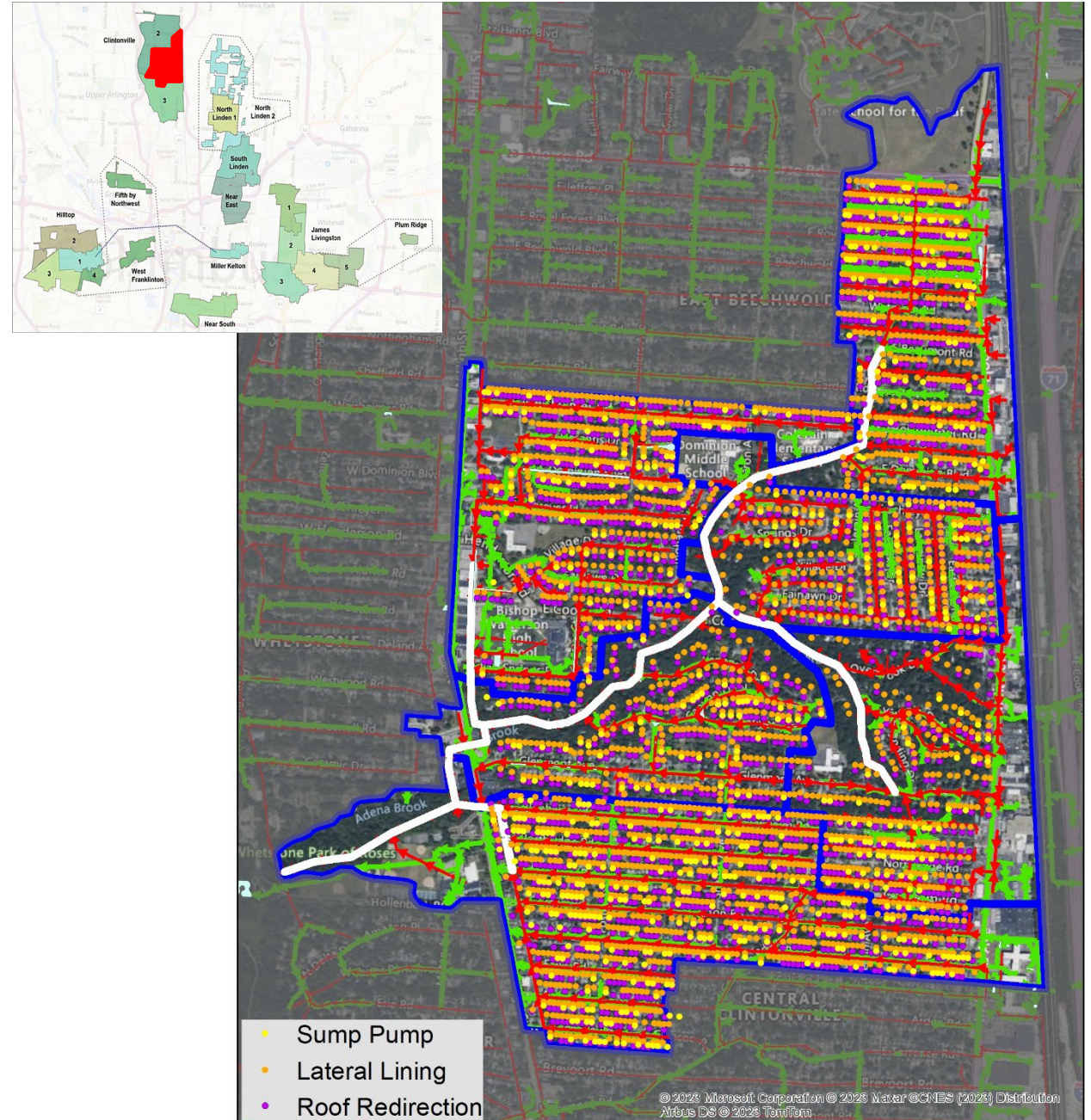


Clintonville Status Update

December 2023

Clintonville 1

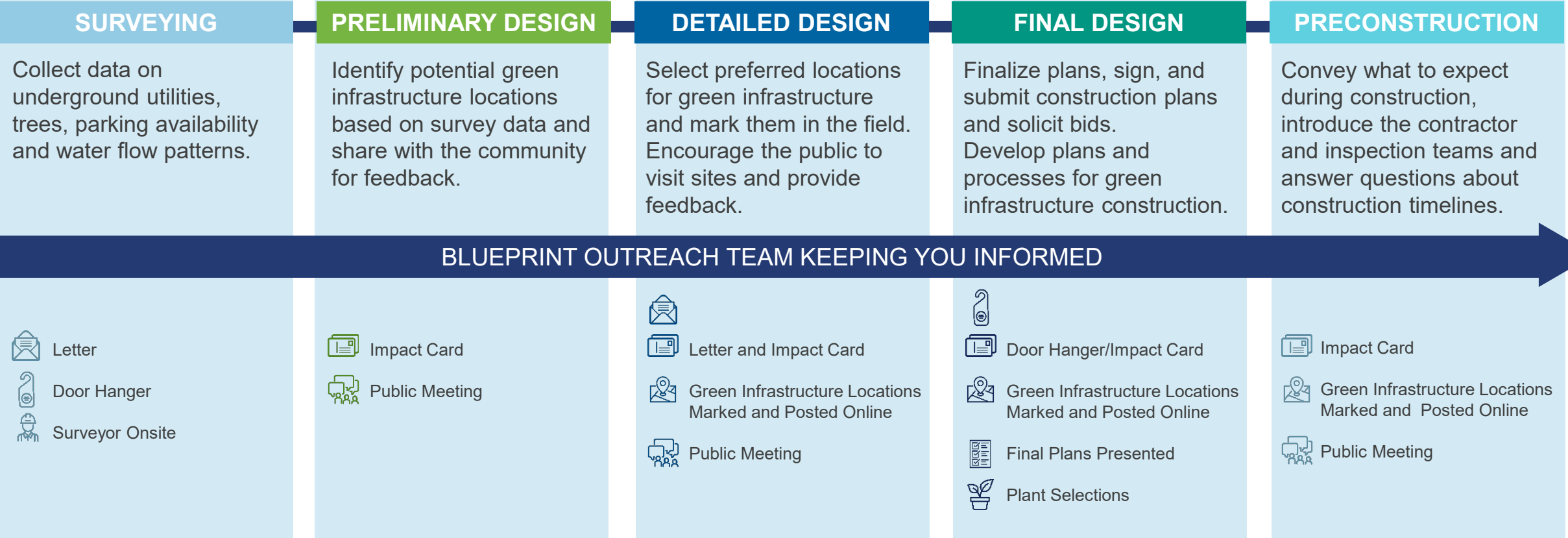
- Completed in 2021
- Sump pumps still available
- [Interactive map](#) now shows what pillar(s) each home in the project area received.
- Preliminary results:
 - DSRs – not activated in 2022
 - 10 WIBs recorded in 2022. Not capacity related:
 - 4 in dry weather
 - 6 in wet weather: 5 were private property issues, one was a result of a 25-yr storm, which is bigger than the 10 year level of service that Blueprint is supposed to handle



Schedule

 Current Phase – Walhalla Ravine

 Current Phase – Clintonville III



Clintonville 3

- Current phase: working toward Detailed Design (60%)
- Timeline: Public meeting in Spring 2024
- Sump pump program now activated!
- March 2022 Preliminary Design meeting showed potential locations for green infrastructure
- Holistic approach to the area
 - New since preliminary design:
 - Evaluated existing storm sewer capacity
 - Storm sewer upgrades considered for west side of High St. and along Summit Rd.



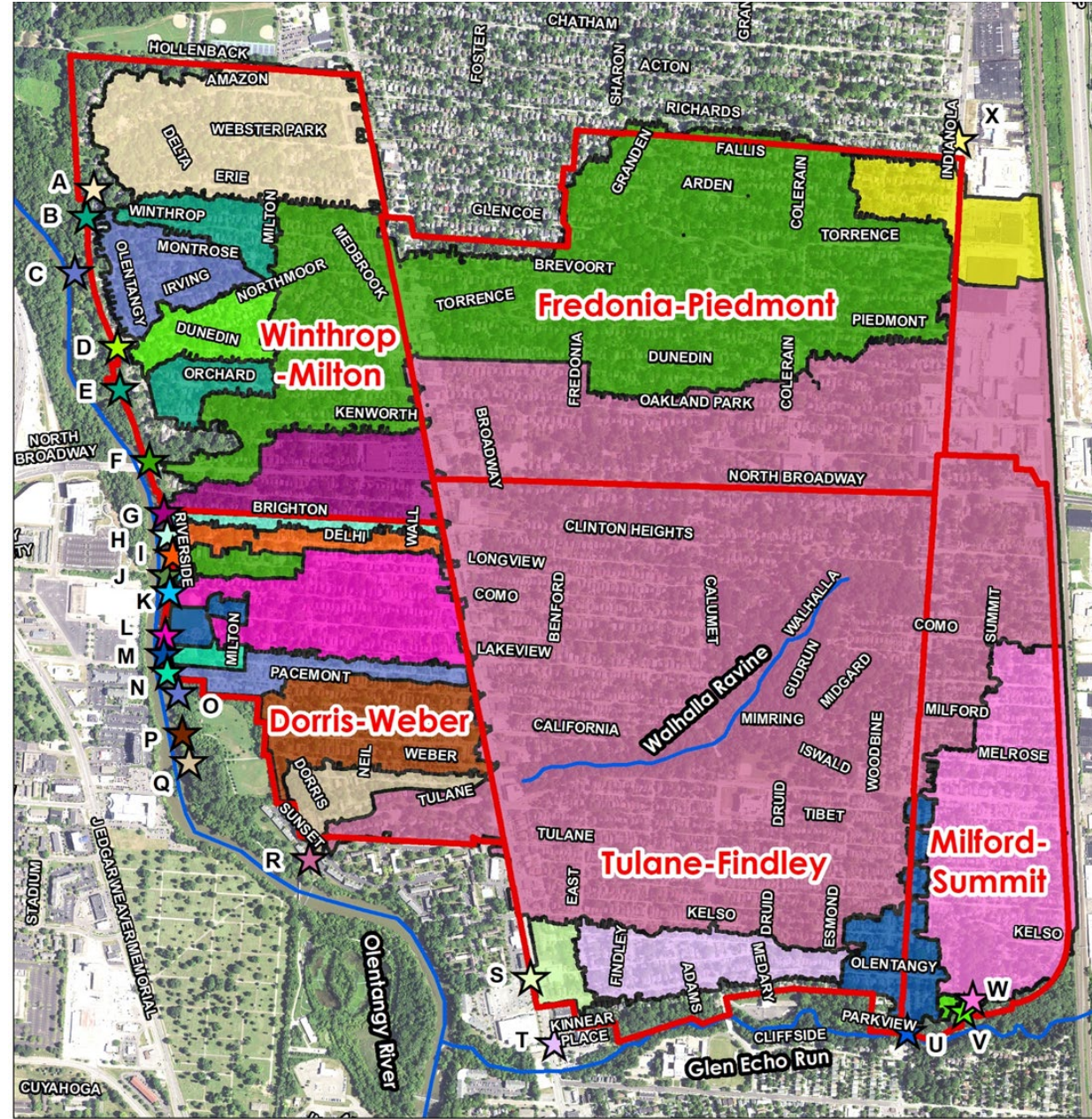
Walhalla Ravine

- By restoring banks on Walhalla Ravine, sediment is prevented from entering the Olentangy River downstream.
- This method is very cost effective removing sediments and pollutants from streams
- Also resulted in less GI in other locations throughout the watershed.
- Current phase: working toward Final Design (90-100%)
- Timeline: Final design in spring 2024
- Construction Fall 2024 (1 year duration)



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Q&A



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Thank you!

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