

DWIGHT MOSLEY PLAYGROUND AND DAKOTA PARK STORMWATER RETROFIT PROJECTS

PUBLIC STAKEHOLDER SEMI-FINAL DESIGN PUBLIC MEETING

January 24th, 2024

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GOVERNMENT OF THE
DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

AGENDA

- Review Project Background and Objectives
- Dwight Mosley Designs and Community Feedback
- Dakota Park Designs and Community Feedback
- Project Timeline
- Additional Questions/Discussion

Background

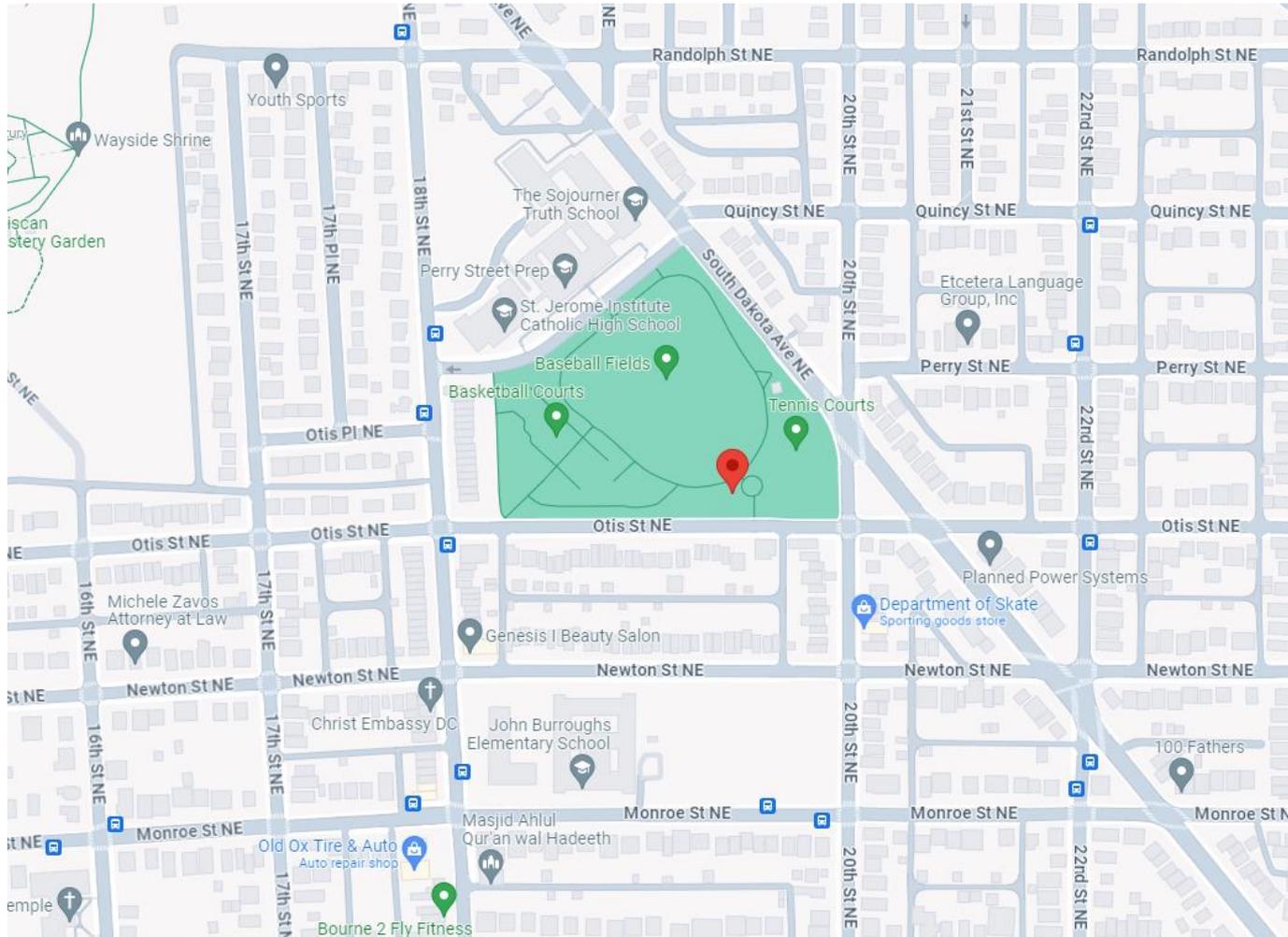
- DOEE oversees the design and construction of low impact development (LID) stormwater retrofits at various locations around the District including: federal parkland, District parkland and in the public right of way

Objectives

- To improve water quality in the Anacostia and Potomac Rivers for the benefit of District residents, visitors, wildlife and the environment, while providing high quality outdoor recreational space and facilities for children and adults to learn, play, and connect with nature
- To reduce the stormwater pollutants that enter the local waters (i.e., rivers, streams, estuaries) of the District, as required under the current applicable [EPA National Pollutant Discharge Elimination System \(NPDES\) permit for the District's municipal separate storm sewer system \(MS4\)](#)

PROJECT LOCATIONS: Dwight Mosely Playground

Address: 1800 Perry Street NE

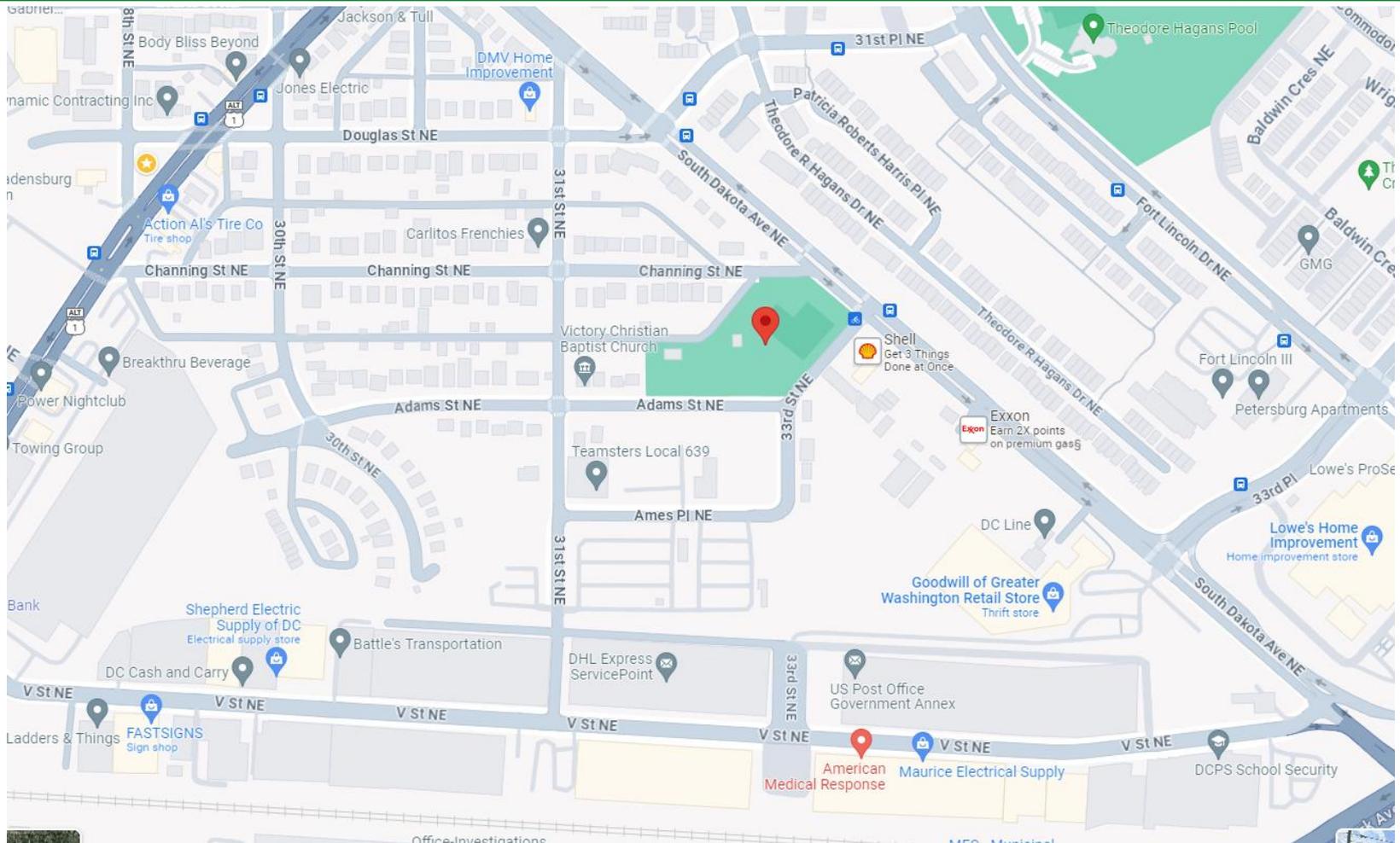


PROJECT LOCATIONS: Dwight Mosely Playground

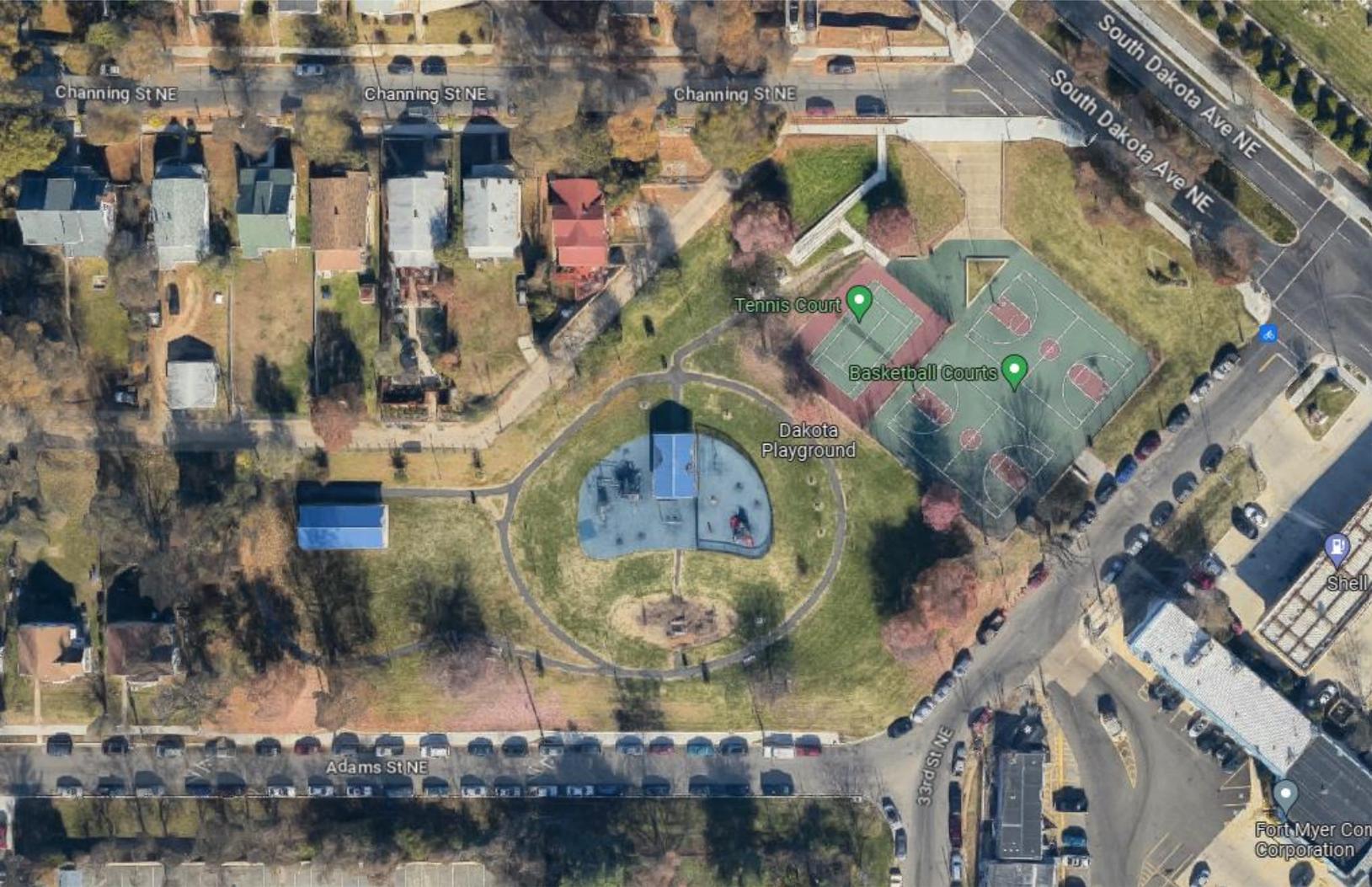


PROJECT LOCATIONS: Dakota Park

Address: Adams and 33rd Street NE



PROJECT LOCATIONS: Dakota Park



BACKGROUND

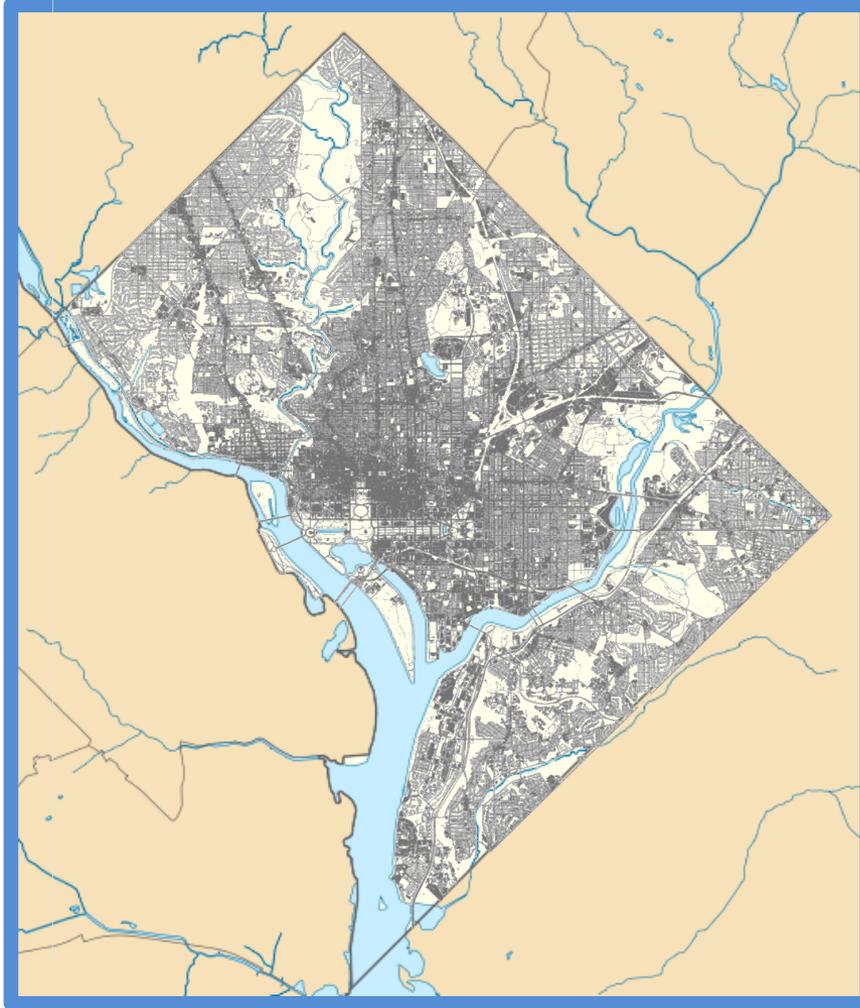
1) WHAT IS STORMWATER AND WHY DO WE TREAT IT?

2) WHAT ARE SOME SOLUTIONS?

PROBLEM OF STORMWATER POLLUTION



DISTRICT OF COLUMBIA LAND USE



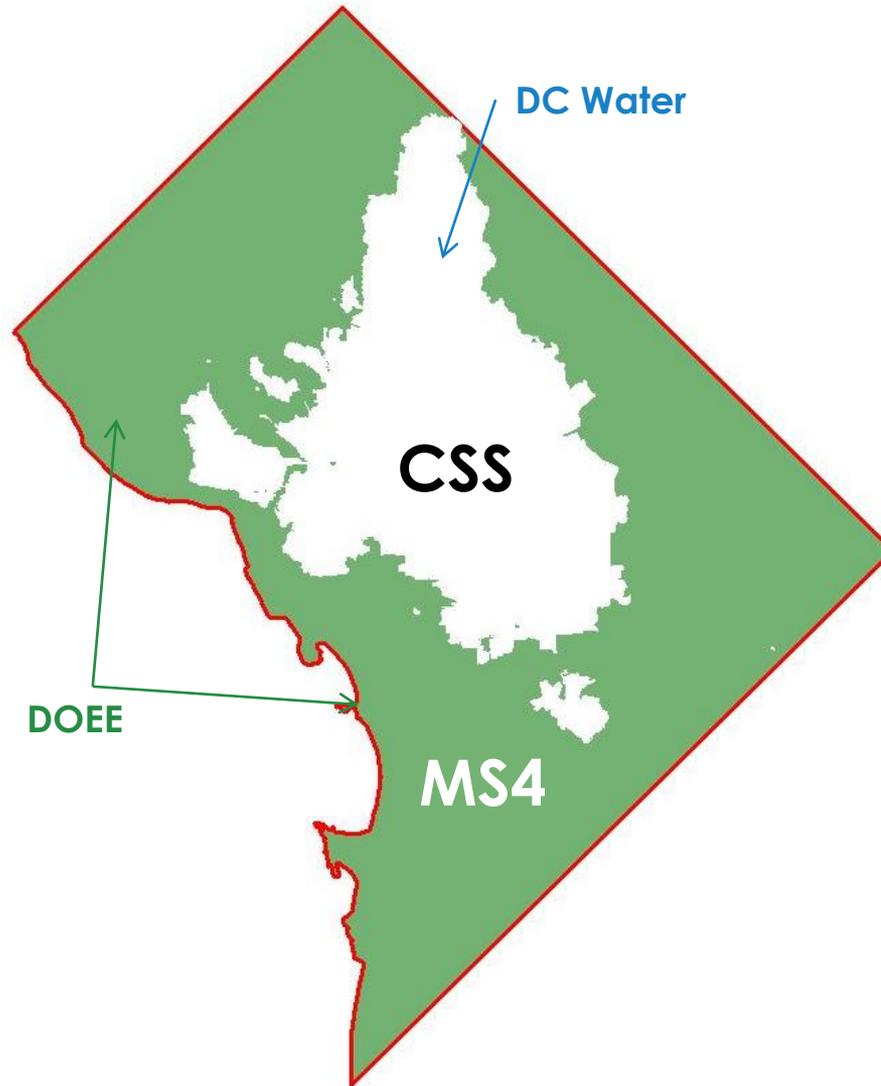
Total Area
68.3 mi²

Land Area
61.3 mi²

Impervious Area
26.6 mi²
*Approx 43%
of Land Area*

A single 1.2 inch storm falling on this area produces about 525 million gallons of stormwater runoff.

DC'S RESTORATION APPROACHES



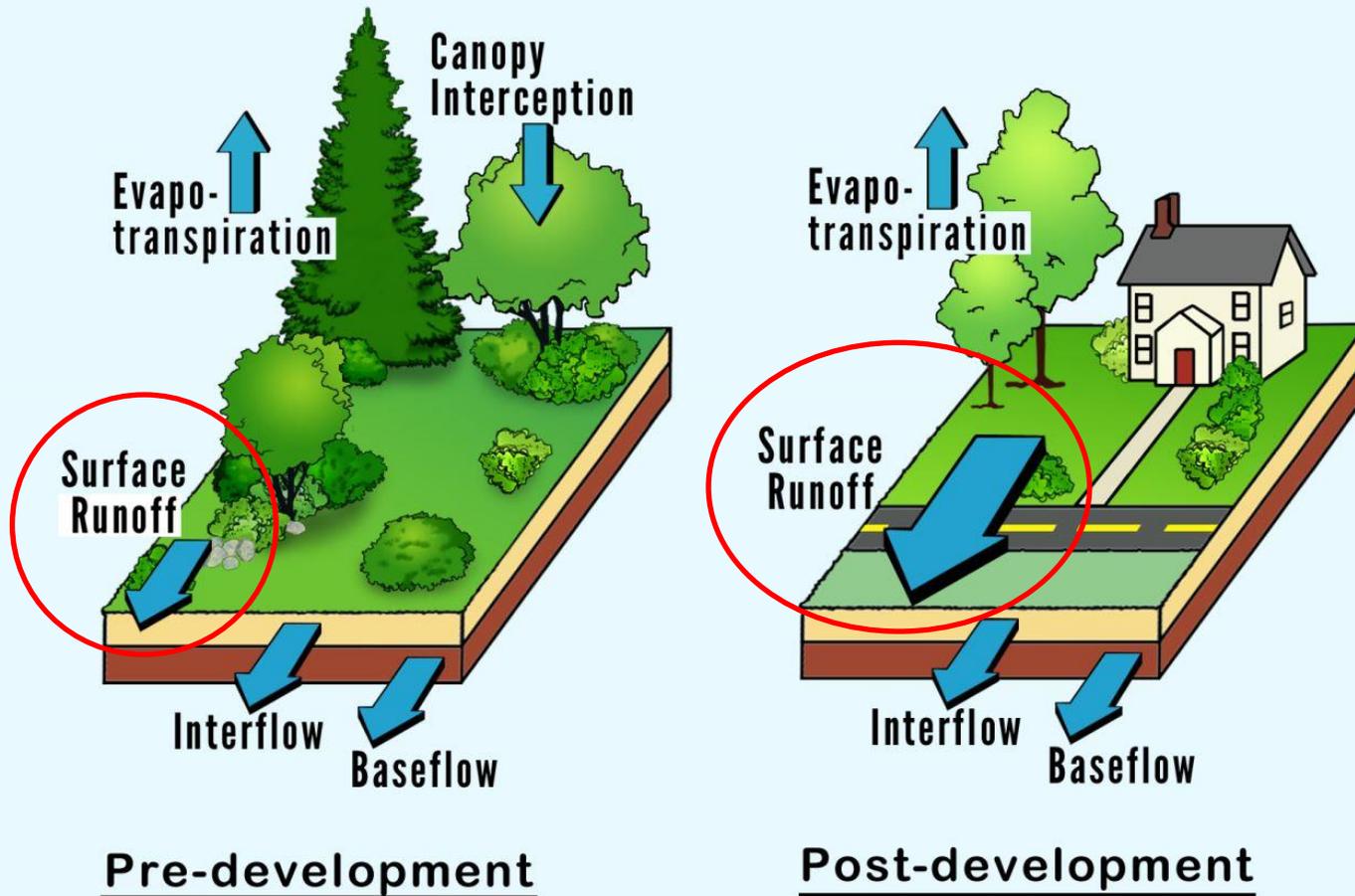
RESTORATION APPROACHES

GREEN STORMWATER INFRASTRUCTURE

Most stormwater practices all work the same way: “they collect stormwater runoff and use or mimic natural processes that result in the infiltration, evapotranspiration or use of stormwater in order to protect water quality and associated aquatic habitat” (EPA).

Slow it down, Spread it Out, Soak it In !

Figure 1.1 Water Balance at a Developed and Underdeveloped Site
(Source: Schueler, 1987)

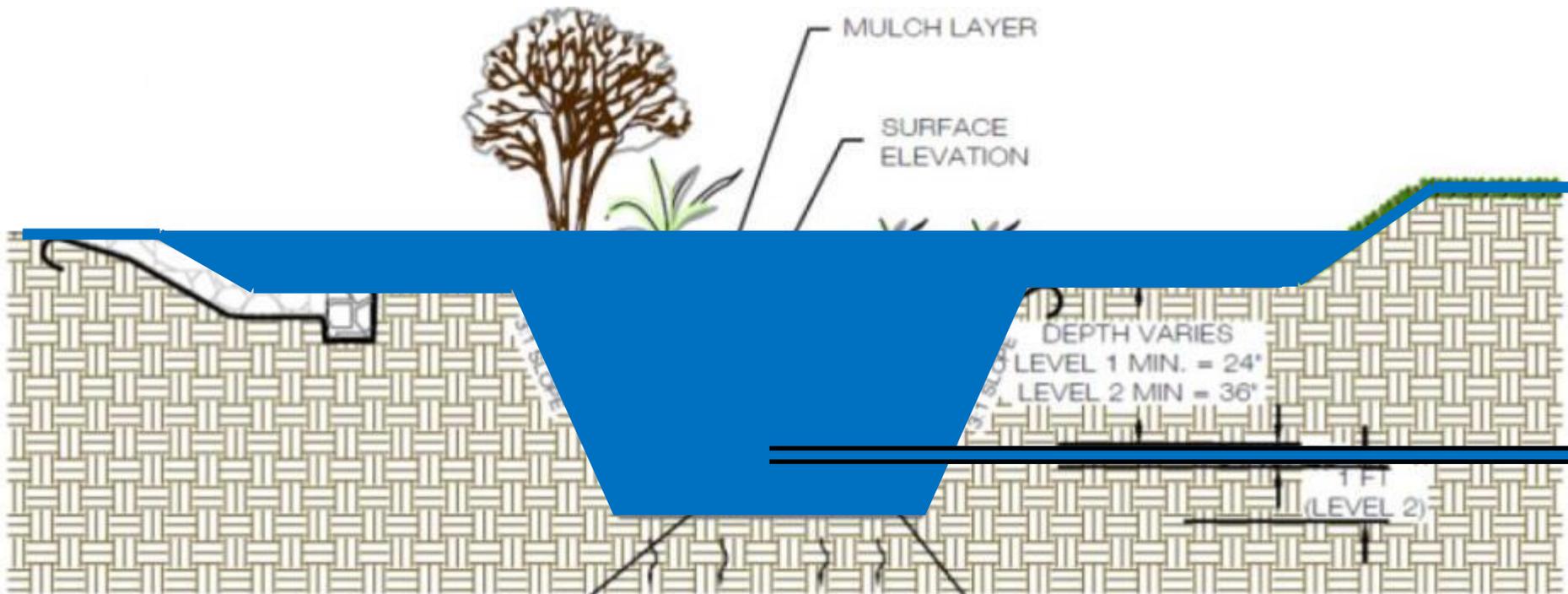


Surface runoff is minimal in an undeveloped site, but dominates the water balance at a highly impervious site.

BIORETENTION



BIORETENTION: HOW IT WORKS



BIOSWALES



PROJECT OBJECTIVES

- Treat maximum amount of stormwater from the site in the most cost effective way
- Create and enhance wildlife habitat and biodiversity within Dwight Mosley Playground and Dakota Park
- Development of a community amenity
- Educational opportunities

EXISTING CONDITIONS: Dwight Mosley Playground



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EXISTING CONDITIONS: Dwight Mosley Playground



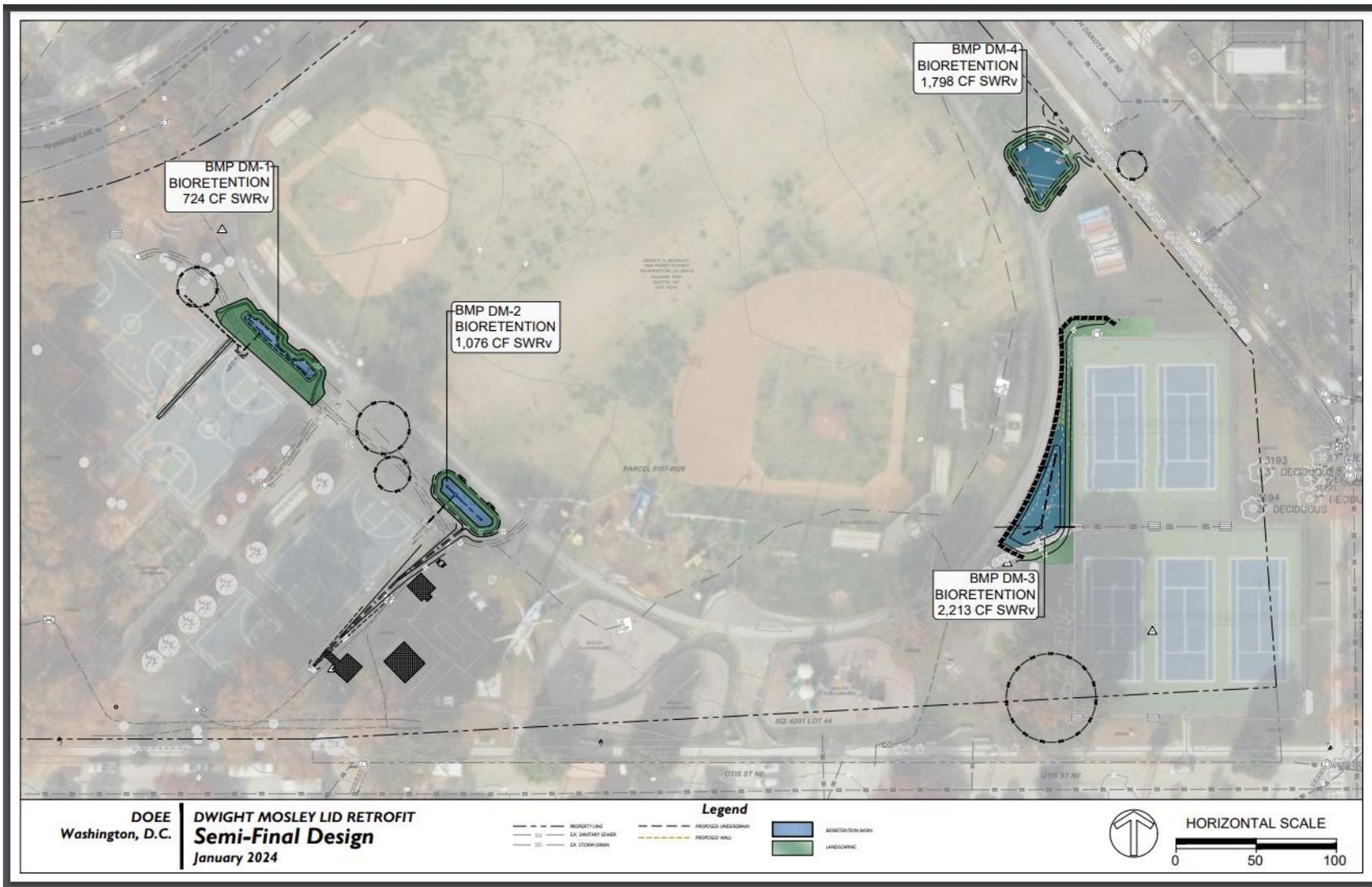
EXISTING CONDITIONS: Dwight Mosley Playground



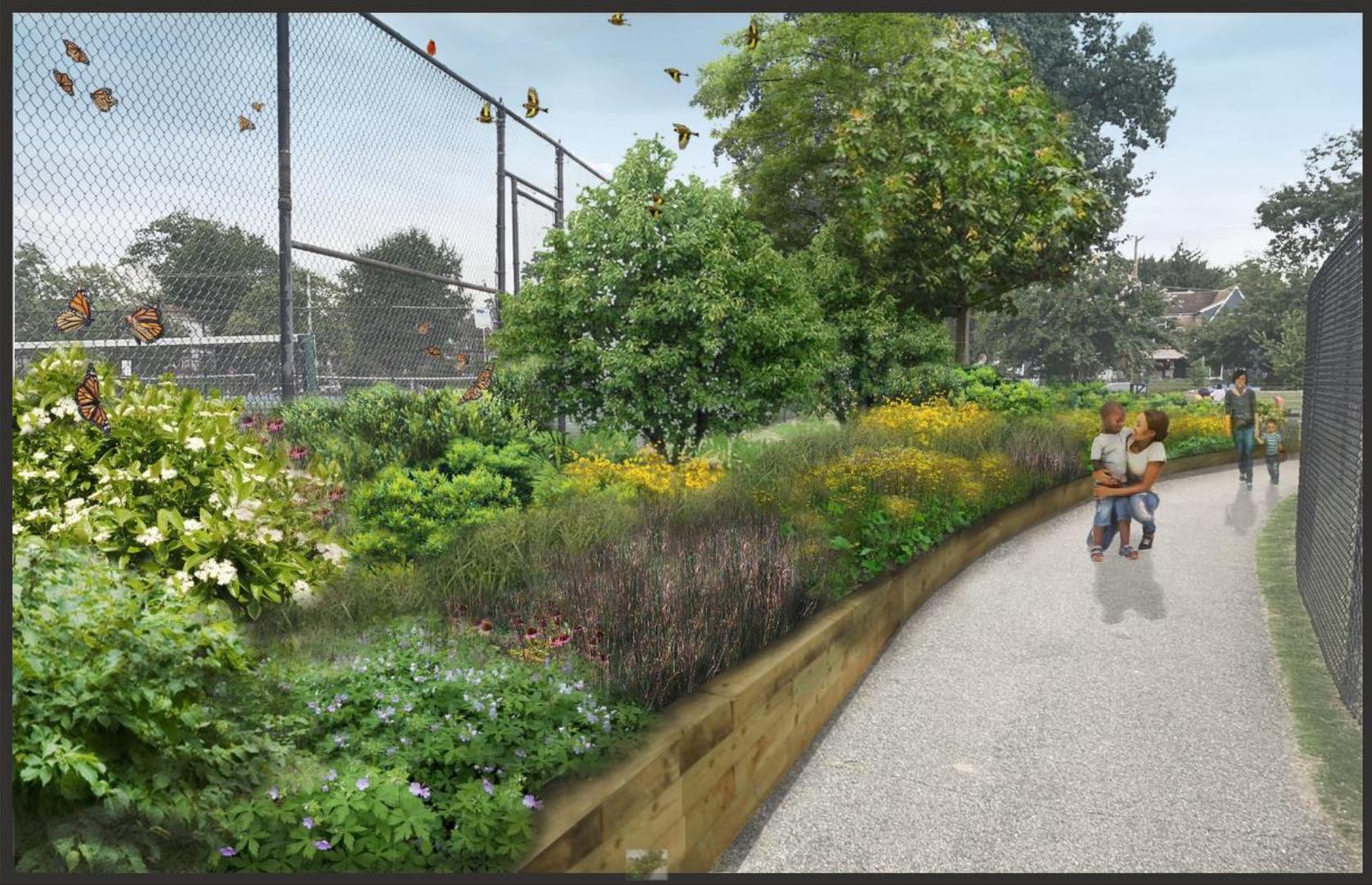
EXISTING CONDITIONS: Dwight Mosley Playground



PROJECT DESIGNS: Dwight Mosley Playground



PROJECT RENDERINGS: Dwight Mosley Playground (DM3)



PROJECT RENDERINGS: Dwight Mosley Playground



EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



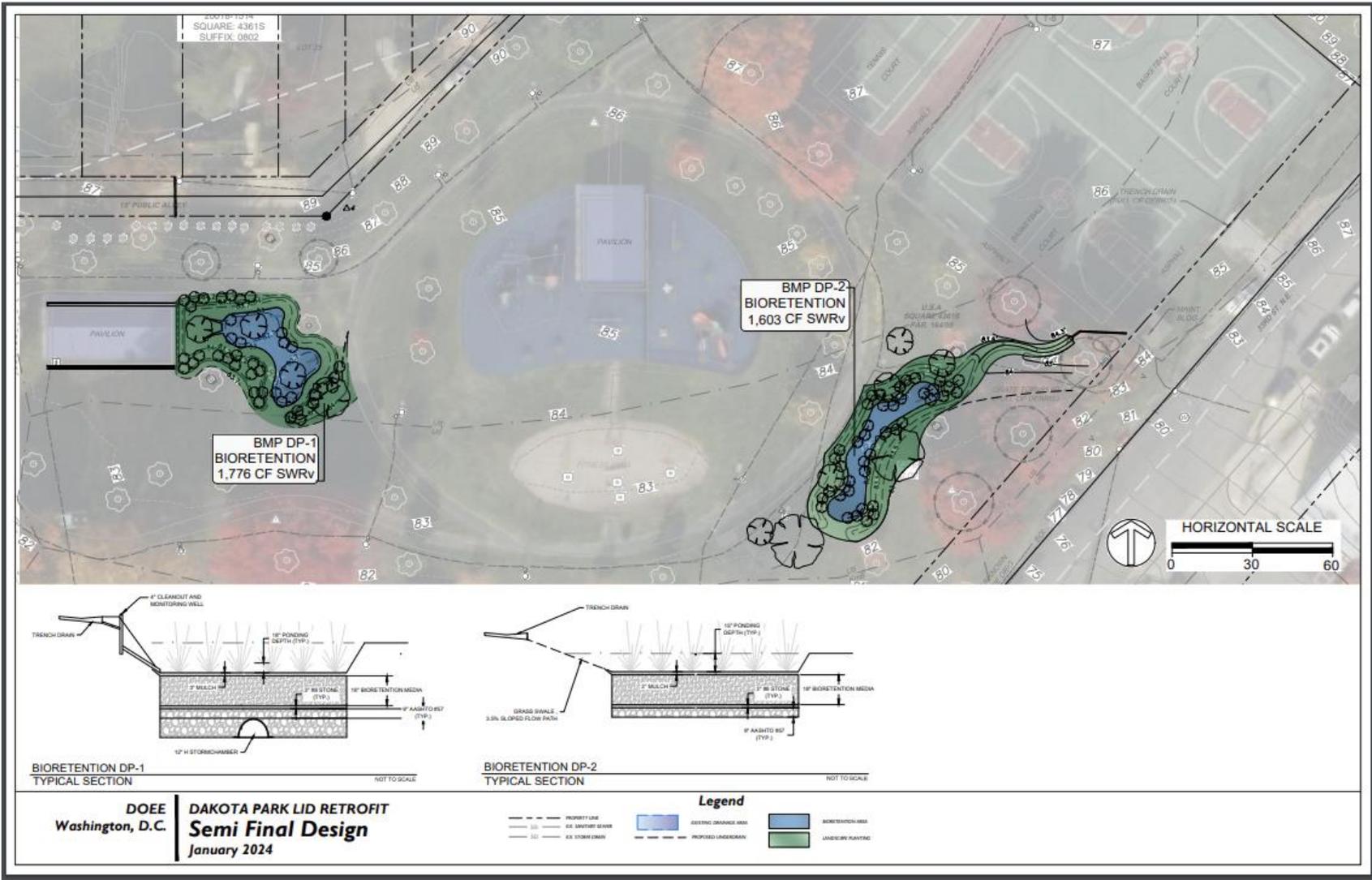
EXISTING CONDITIONS: Dakota Park



EXISTING CONDITIONS: Dakota Park



PROJECT Designs: Dakota Park



DOEE
Washington, D.C.

DAKOTA PARK LID RETROFIT
Semi Final Design
January 2024

PROJECT RENDERINGS: Dakota Park (DP2)



PROJECT TIMELINE

- June 2023: contract awarded
- July – September 2023: field assessment (topographic survey, geotechnical investigations etc.), interagency coordination
- September 2023 – March 2024: design development
- 3 public meetings:
 - Concept designs on 10/26/2023
 - Semi-final designs on 1/24/2024
 - Final designs: TBD
 - Construction kickoff meeting (timeline): TBD

Contact and Additional Information

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DPR:

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Project Websites:

Dwight Mosely: doee.dc.gov/node/1667426

Dakota Park: doee.dc.gov/node/1667421



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FAQs

- How do we find our project sites?
 - Enthusiastic landowners/partners/stakeholders!
 - Eligibility for funding sources
 - Large areas of untreated impervious cover
 - More impactful locations
- What can I do?
 - RiverSmart Homes
 - Rain Gardens
 - Permeable Pavers
 - Rain Barrels
 - Tree Planting
 - “BayScaping”



<https://www.riversmarthomes.org/>

QUESTIONS

