

# DWIGHT MOSLEY PLAYGROUND AND DAKOTA PARK STORMWATER RETROFIT PROJECTS

## PUBLIC STAKEHOLDER FINAL DESIGN PUBLIC MEETING

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April 4th, 2024

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GOVERNMENT OF THE  
DISTRICT OF COLUMBIA  
MURIEL BOWSER, MAYOR

# AGENDA

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

# Background

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- 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 \(MS4\)](#)

# BACKGROUND

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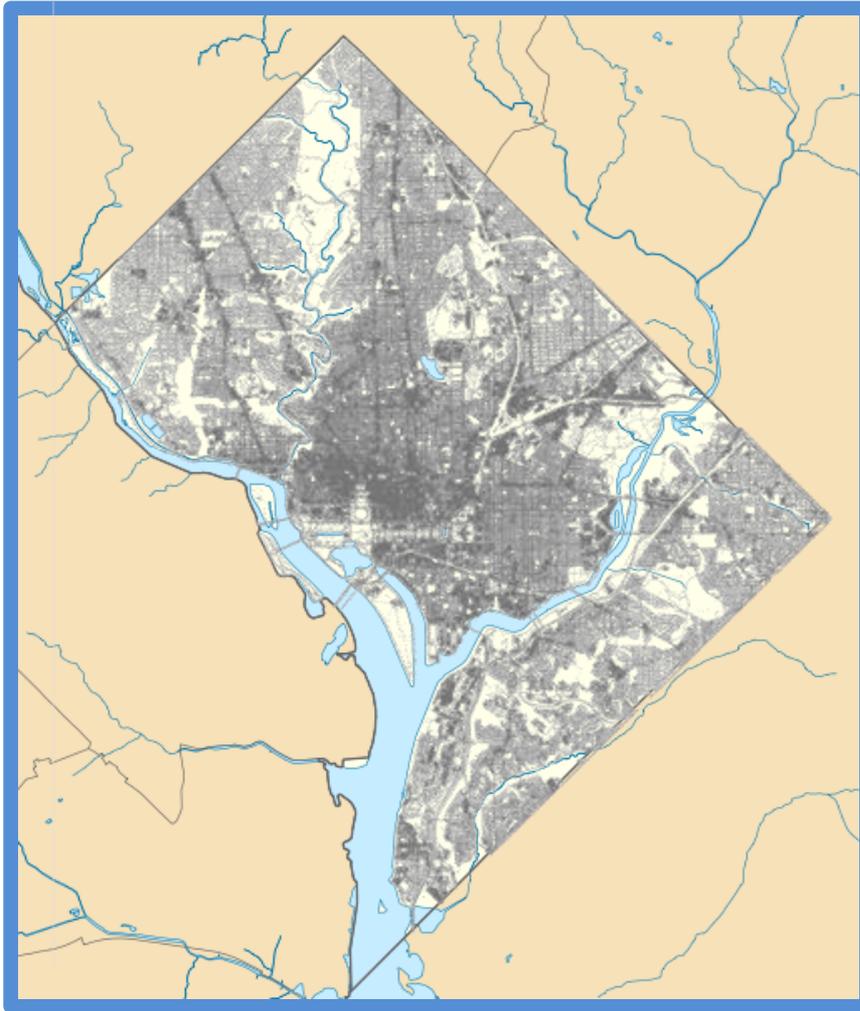
1) WHAT IS STORMWATER AND WHY DO WE TREAT IT?

2) WHAT ARE SOME SOLUTIONS?

# PROBLEM OF STORMWATER POLLUTION



# DISTRICT OF COLUMBIA LAND USE



Total Area  
68.3 mi<sup>2</sup>

Land Area  
61.3 mi<sup>2</sup>

Impervious Area  
26.6 mi<sup>2</sup>  
*Approx 43%  
of Land Area*

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

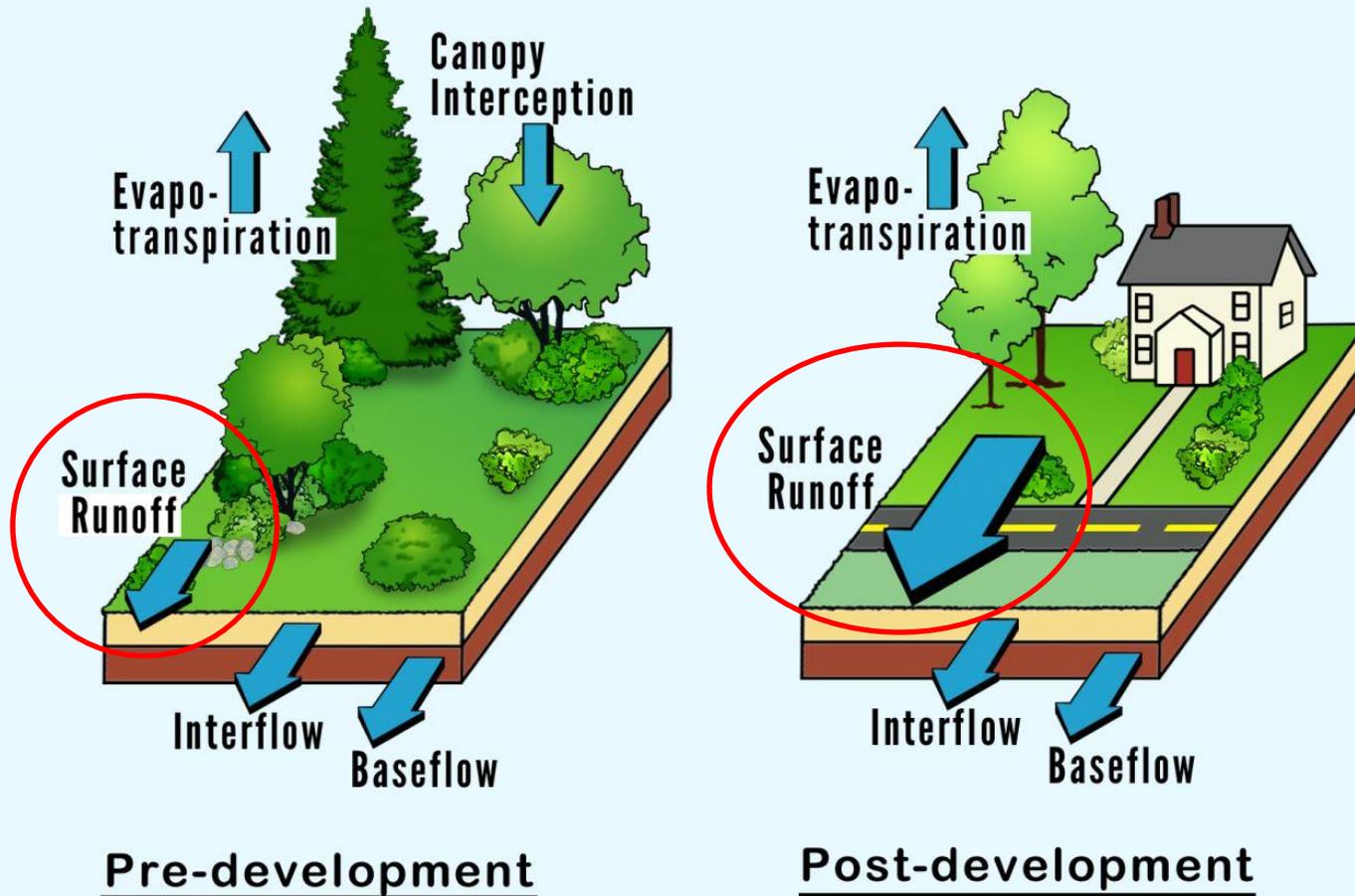
# RESTORATION APPROACHES: GREEN STORMWATER INFRASTRUCTURE

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- Mimics natural processes:
  - Infiltration
  - Evapotranspiration
  - Use

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

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

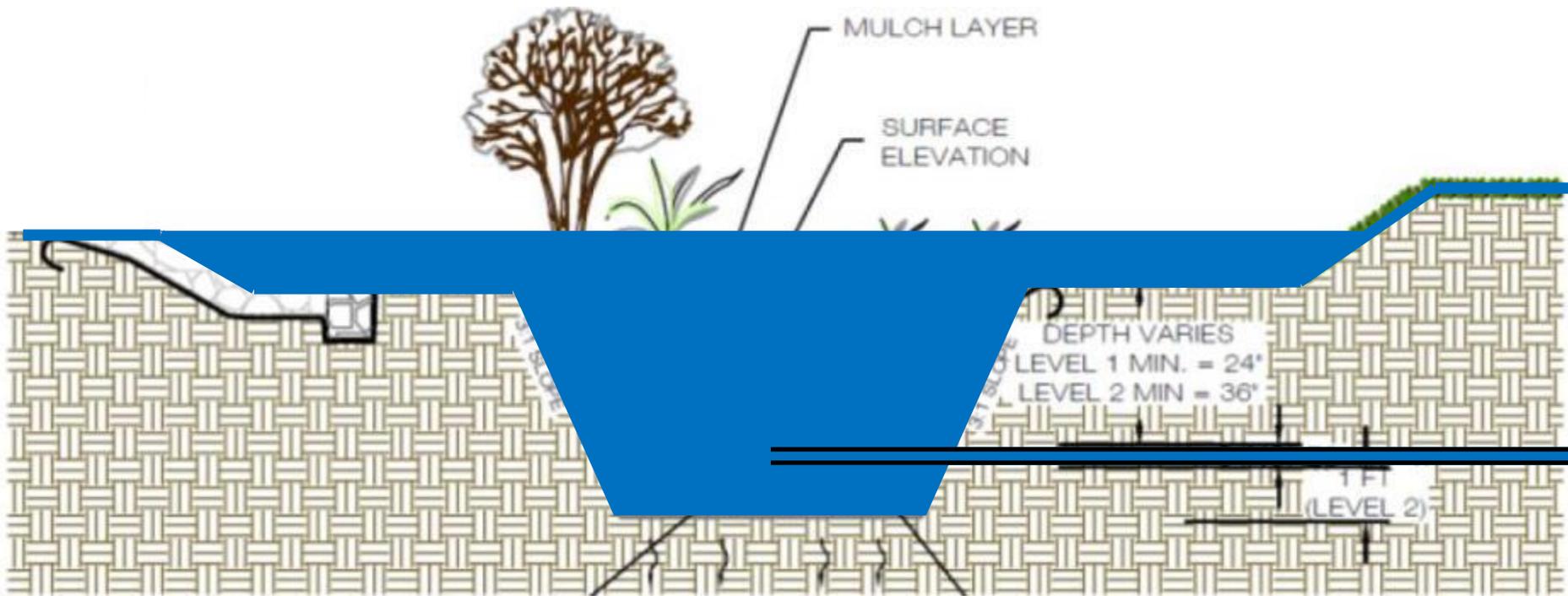


Surface runoff is minimal in an undeveloped site, but dominates the water balance at a highly impervious site.

# BIORETENTION



# BIORETENTION: HOW IT WORKS



# BIOSWALES



# PROJECT OBJECTIVES

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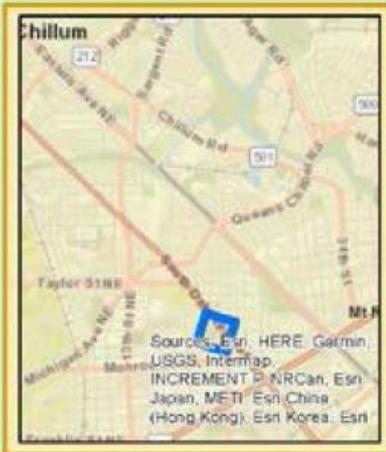
- Treat maximum amount of stormwater from the site in the most cost-effective way
- Create and enhance wildlife habitat and biodiversity
- Development of a community amenity
- Educational opportunities

# PROJECT LOCATION: Dwight Mosely Playground

## Dwight A. Mosley Sports Complex/Taft Recreation Center

### Legend

World Street Map



0 0.0075 0.015 0.03 0.045 0.06 Miles



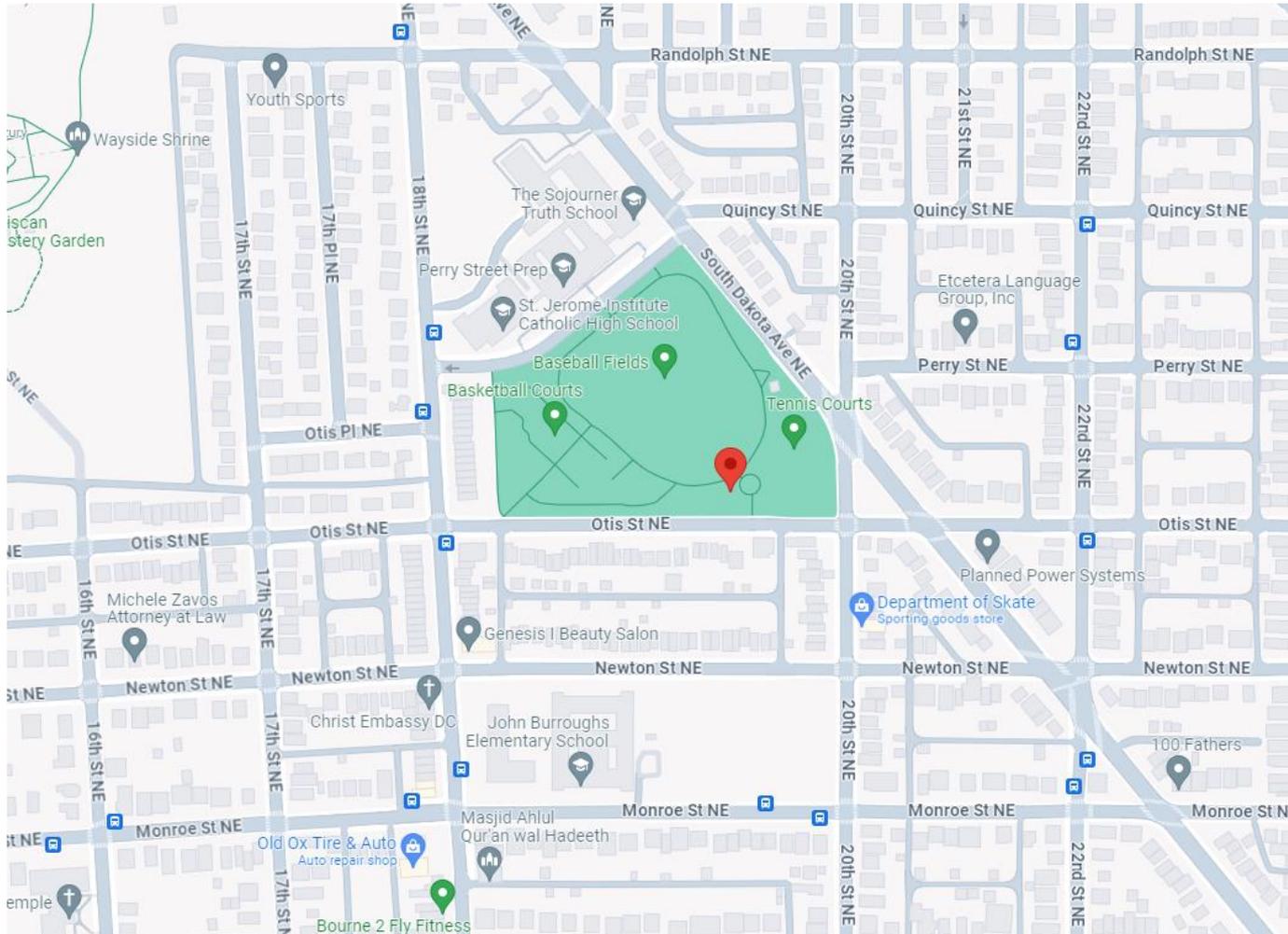
1 inch = 0.04 miles

Coordinate System: Lambert Conformal Conic  
Central Meridian: 89°32'W  
False Easting: 495197m  
False Northing: 2835617m  
Latitude of Origin: 39°00'



# PROJECT LOCATION: Dwight Mosely Playground

Address: 1800 Perry Street NE



# EXISTING CONDITIONS: Dwight Mosley Playground



# EXISTING CONDITIONS: Dwight Mosley Playground



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# PROJECT DESIGNS: Dwight Mosley Playground



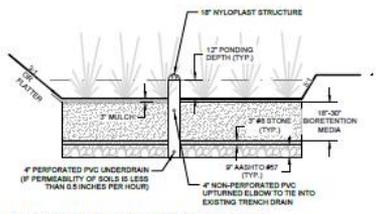
**DOEE** | DWIGHT MOSLEY LID RETROFIT  
Washington, D.C. | **Final Design**  
APRIL 2024

**Legend**

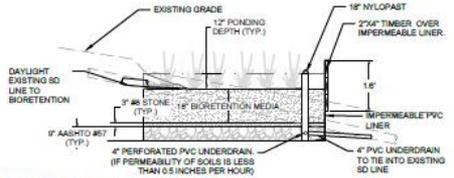
- PROPERTY LINE
- - - - - EX. SANITARY SEWER
- · · · · EX. STORM DRAIN
- - - - - PROPOSED UNDERDRAIN
- - - - - PROPOSED WALL
- [Blue Box] BIORETENTION BASIN
- [Green Box] LANDSCAPING

HORIZONTAL SCALE  
0 50 100

# PROJECT DESIGNS: Dwight Mosley Playground



**(A) BMPs DM-1 & DM-2 (BIORETENTION) TYPICAL SECTION**  
NOT TO SCALE



**(B) BMP DM-3 (BIORETENTION) TYPICAL SECTION**  
NOT TO SCALE

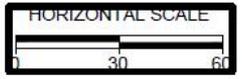
**KEY**

- (1) WOOD SLAT RETAINING
- (2) DAYLIGHT EXISTING STORM DRAIN LINE

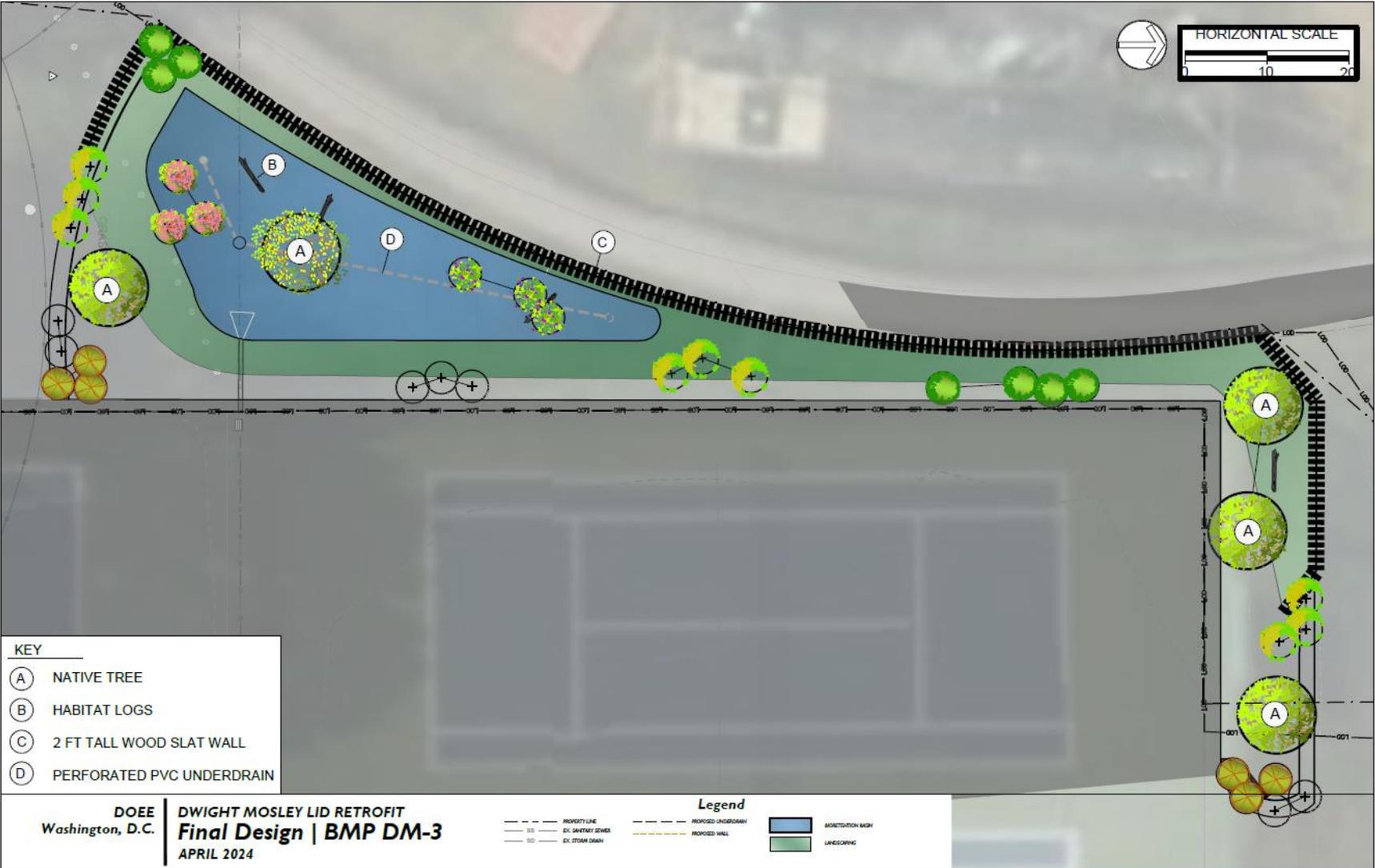
DOEE  
Washington, D.C. DWIGHT MOSLEY LID RETROFIT  
**Final Design**  
APRIL 2024

**Legend**

---	PROPERTY LINE	---	PROPOSED UNDERDRY	[Blue Box]	BIORETENTION BASIN
---	EXIST. DAYLIGHT EXISTING	---	PROPOSED WALL	[Green Box]	LANDSCAPING
---	EXIST. STORM DRAIN				



# PROJECT DESIGNS: Dwight Mosley Playground



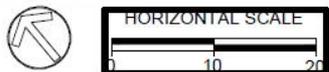
# PROJECT DESIGNS: Dwight Mosley Playground



DOEE  
Washington, D.C.

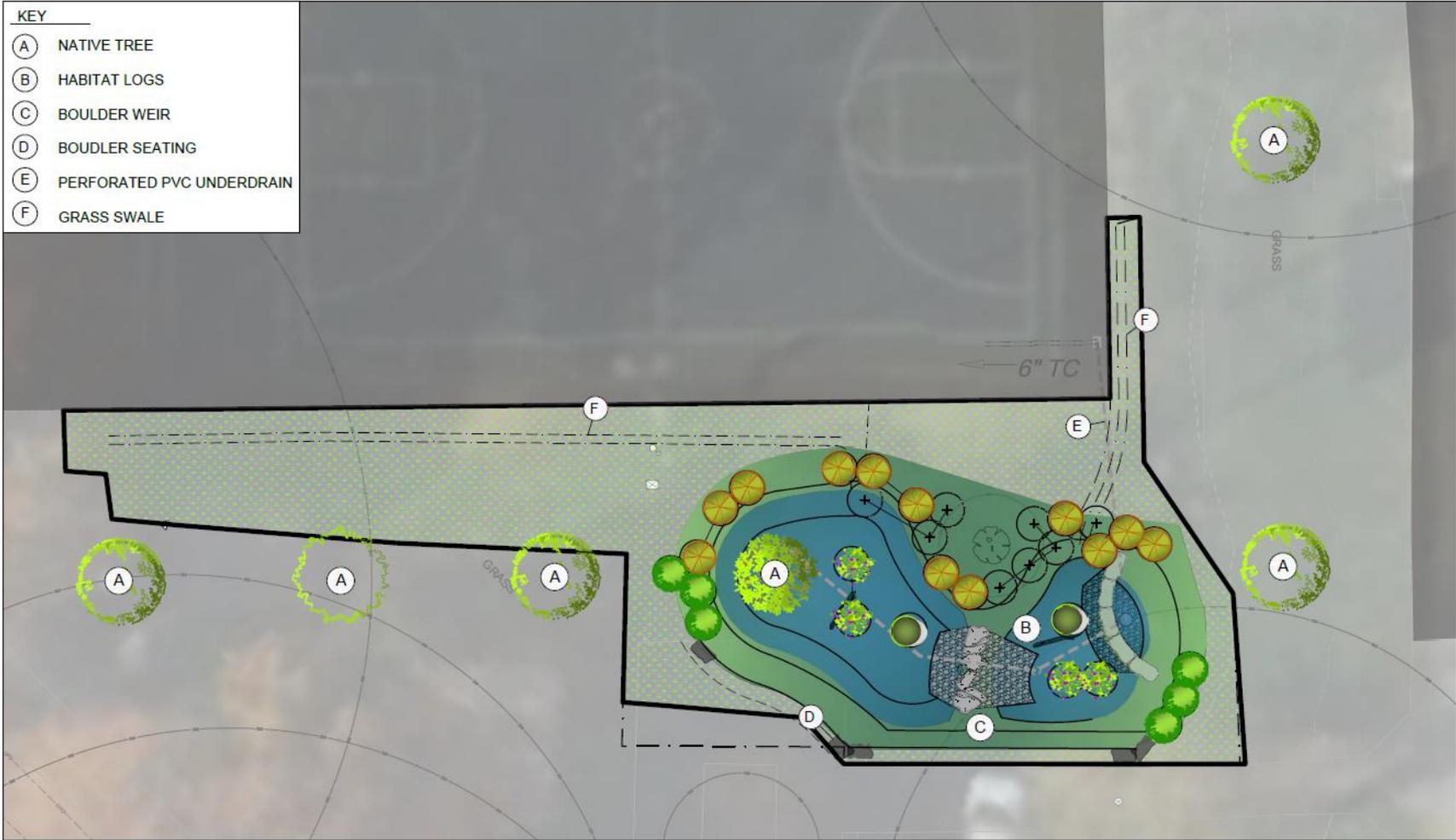
**DWIGHT MOSLEY LID RETROFIT**  
**Final Design**  
APRIL 2024

- Legend**
- PROPERTY LINE
  - EX. SANITARY SEWER
  - EX. STORM DRAIN
  - PROPOSED LANDSCAPING
  - PROPOSED WALL
  - BIORETENTION BASIN
  - LANDSCAPING



# PROJECT DESIGNS: Dwight Mosley Playground

- KEY**
- (A) NATIVE TREE
  - (B) HABITAT LOGS
  - (C) BOULDER WEIR
  - (D) BOUCLER SEATING
  - (E) PERFORATED PVC UNDERDRAIN
  - (F) GRASS SWALE



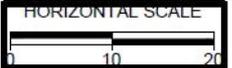
DOEE  
Washington, D.C.

DWIGHT MOSLEY LID RETROFIT  
**Final Design | BMP DM-2**  
APRIL 2024

- Legend**
- PROPERTY LINE
  - EX. SANITARY SEWER
  - EX. STORM DRAIN

- PROPOSED UNDERDRAIN
- PROPOSED WALL

- BIODEGRADABLE MESH
- LANDSCAPING



# PROJECT RENDERINGS: Dwight Mosley Playground (DM3)



# PROJECT RENDERINGS: Dwight Mosley Playground

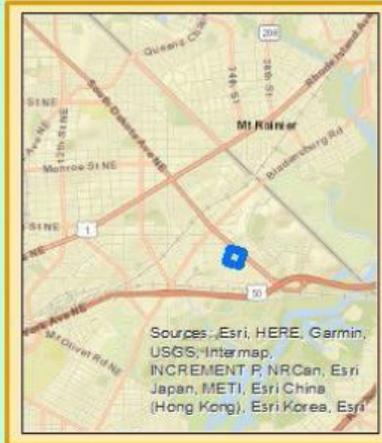


# PROJECT LOCATION: Dakota Park

## Dakota Park

### Legend

World Street Map



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri



1 inch = 0.02 miles

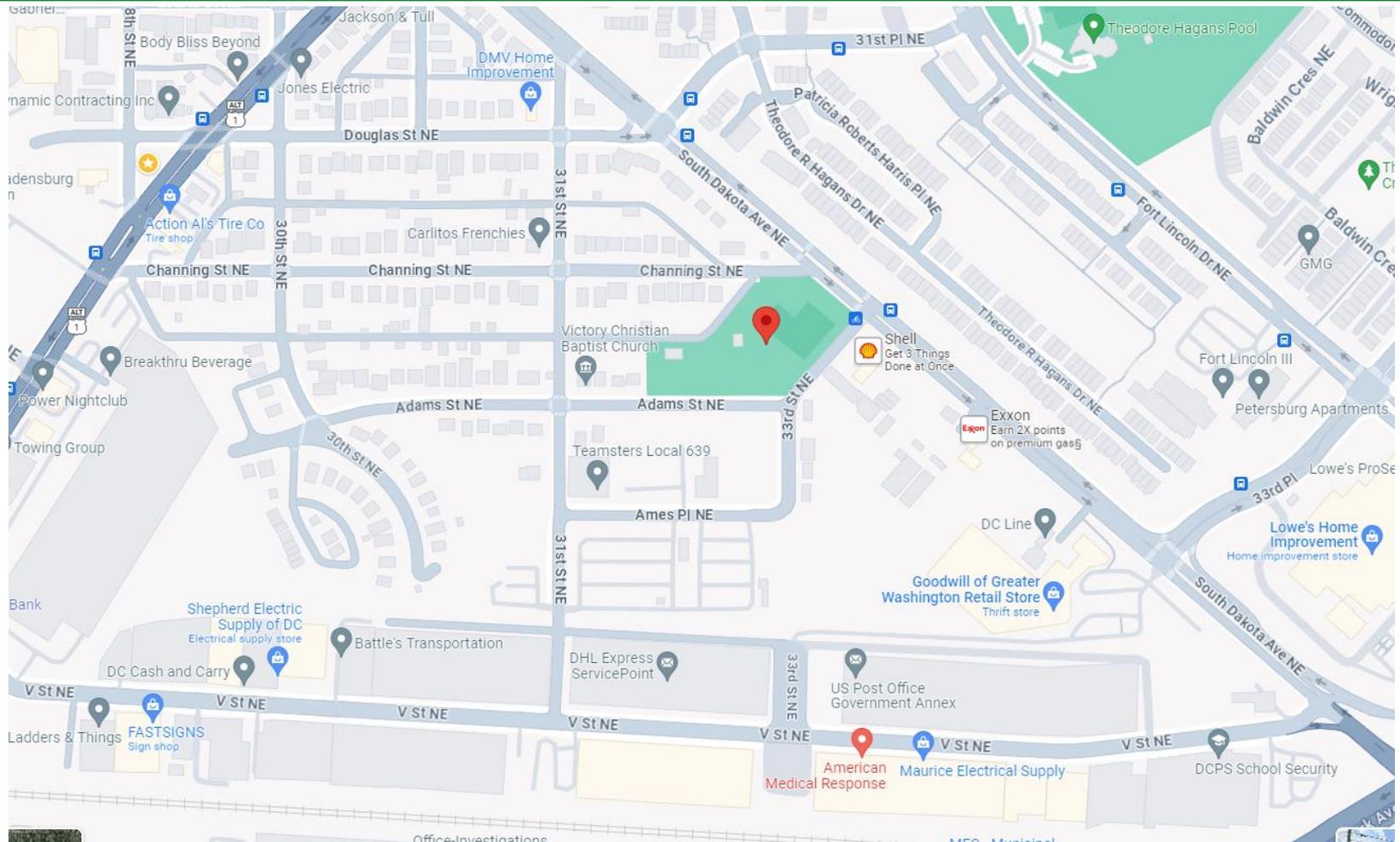
Coordinate System: Lambert Conformal Conic  
Central Meridian: 95° 0' 0" W  
Std. Par. 1: 49° 0' 0" N  
Std. Par. 2: 77° 30' 0" N  
Latitude of Origin: 57° 30' 0" N



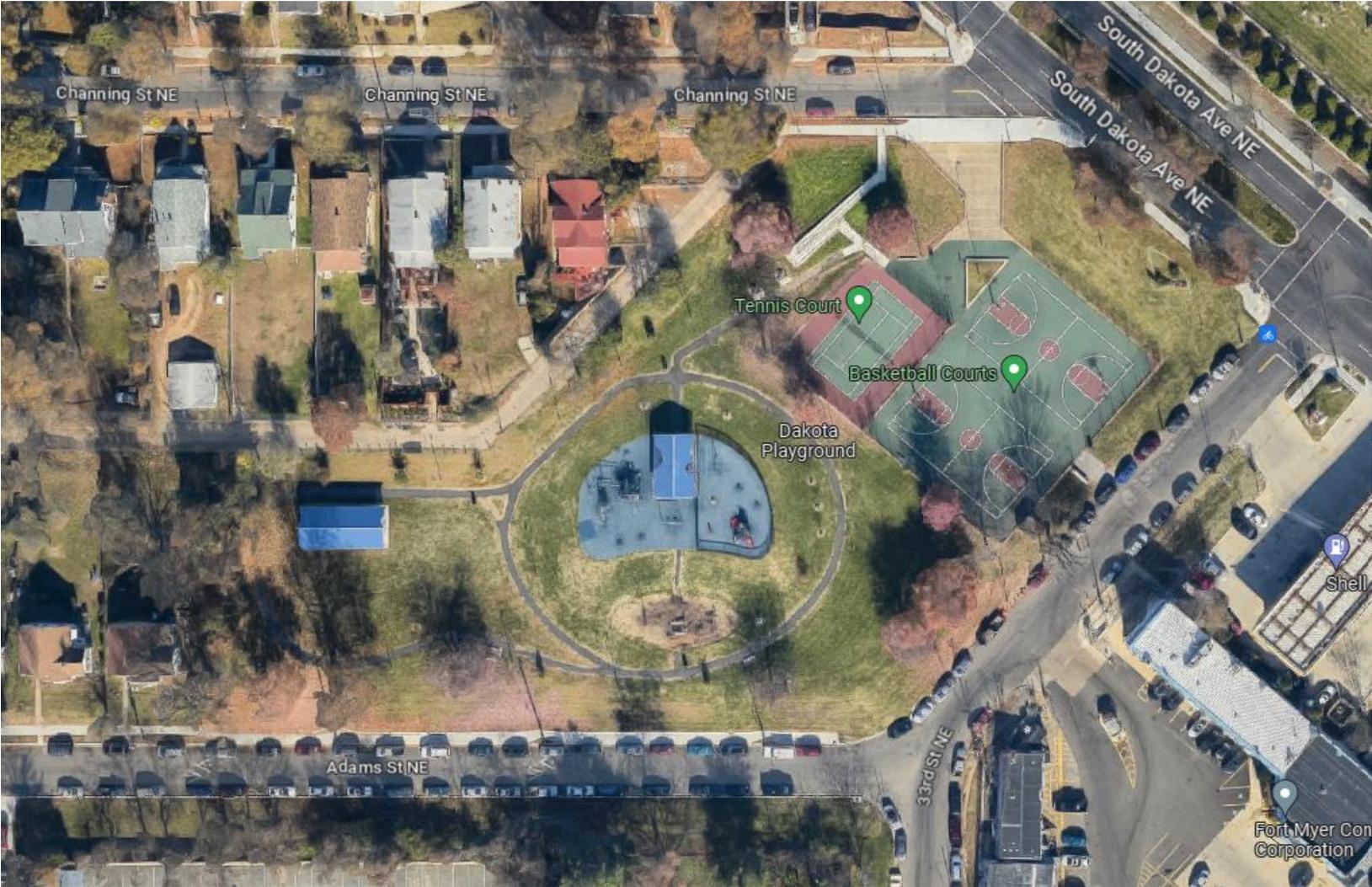
Sources: Esri, Maxar, © 2023, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# PROJECT LOCATION: Dakota Park

## Address: Adams and 33rd Street NE



# EXISTING CONDITIONS: Dakota Park



# EXISTING CONDITIONS: Dakota Park



# EXISTING CONDITIONS: Dakota Park



# EXISTING CONDITIONS: Dakota Park



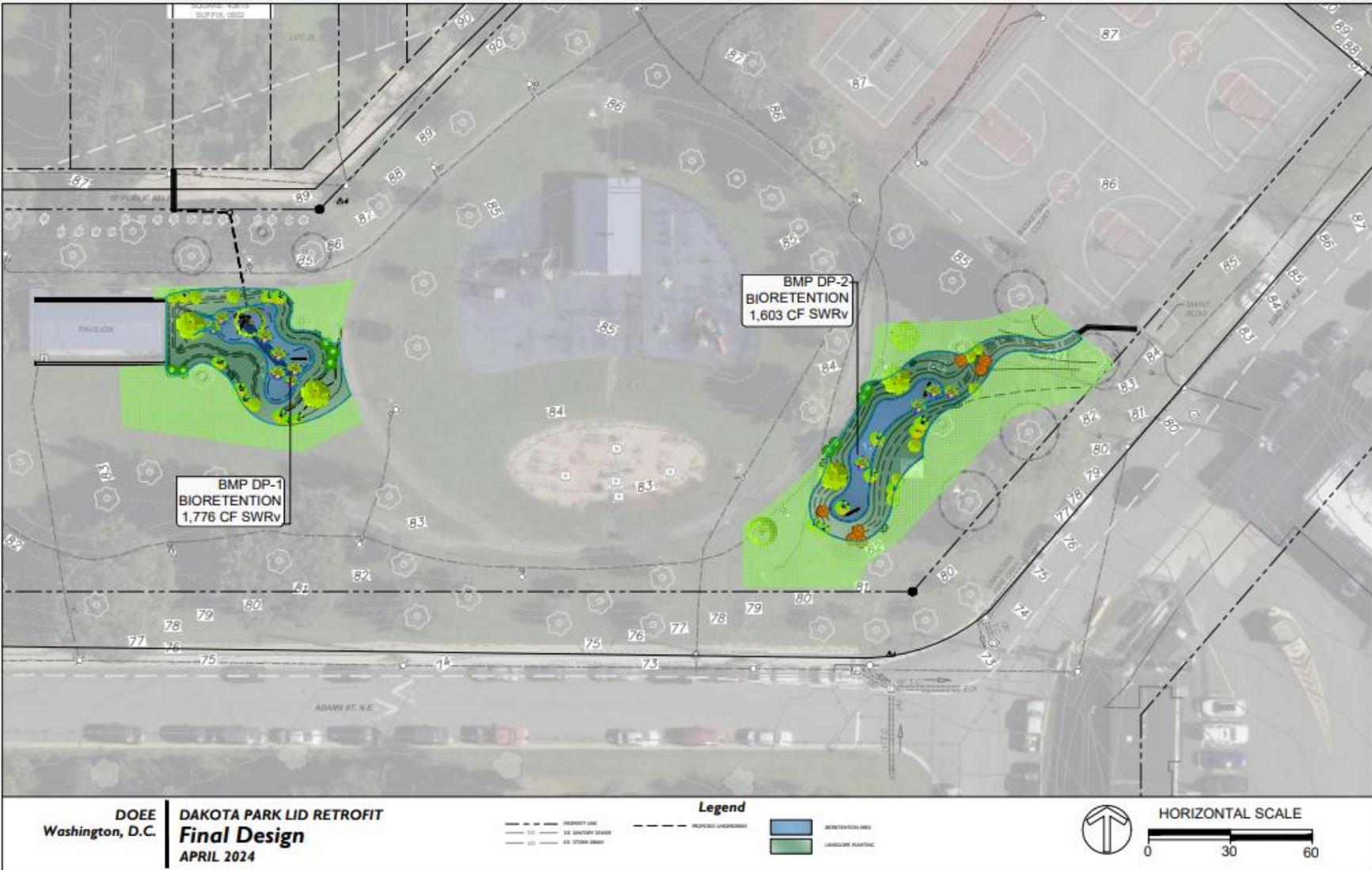
# EXISTING CONDITIONS: Dakota Park



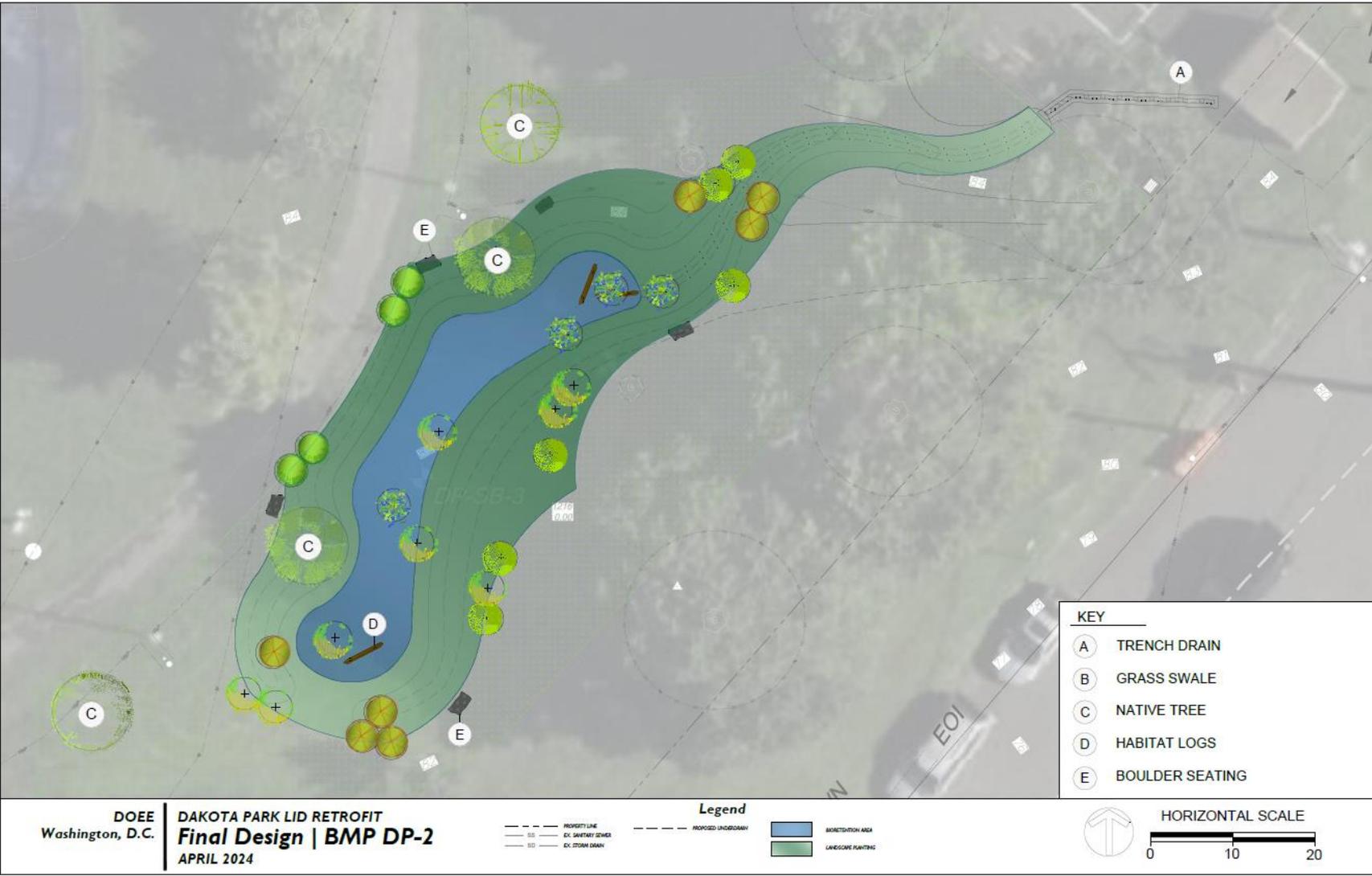
# EXISTING CONDITIONS: Dakota Park



# PROJECT Designs: Dakota Park



# PROJECT Designs: Dakota Park





# PROJECT RENDERINGS: Dakota Park (DP2)



# PROJECT TIMELINE

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- June 2023: contract awarded
- July – September 2023: Site assessments, interagency coordination
- September 2023 – April 2024: design development
- 3 public meetings:
  - Concept designs on 10/26/2023
  - Semi-final designs on 1/24/2024
  - Final designs: 4/4/2024
  - Begin Construction:
    - Dwight Mosley: anticipated May, 2024
    - Dakota Park: anticipated Fall, 2024

# Contact and Additional Information

## DOEE:

**Elaine Vidal**

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Watershed Protection Division  
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Elaine.vidal@dc.gov

## DPR:

**Peter Nohrden**

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Peter.nohrden@dc.gov

## Project Websites:

**Dwight Mosely:** [bit.ly/dwightmosleyretrofit](http://bit.ly/dwightmosleyretrofit)

**Dakota Park:** [bit.ly/dakotaparkretrofit](http://bit.ly/dakotaparkretrofit)



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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

