WOODY WARD STORMWATER RETROFIT PROJECT

PUBLIC STAKEHOLDER CONSTRUCTION KICKOFF MEETING

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AGENDA

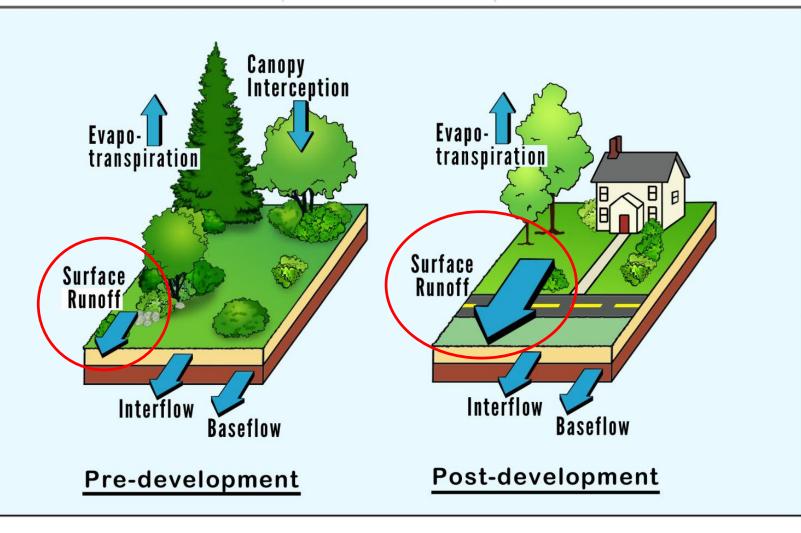
- Project Area & Background
- Existing Conditions
- Project Objectives
- Restoration Approach
- Construction Details
- Timeline
- Q&A

PROJECT LOCATION



BACKGROUND

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.

PROBLEM OF STORMWATER POLLUTION





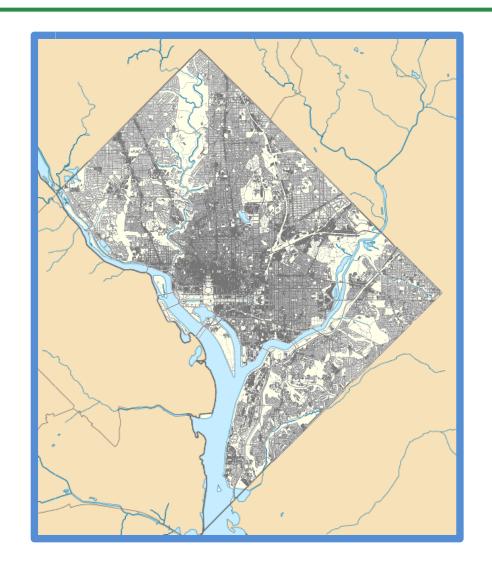








DISTRICT OF COLUMBIA LAND USE



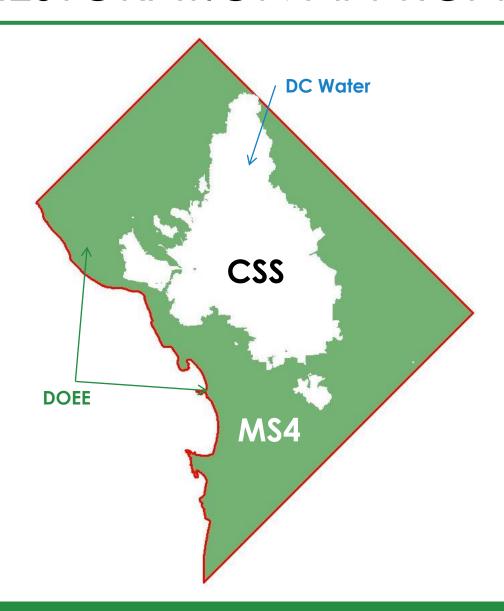
Total Area 68.3 mi²

Land Area 61.3 mi²

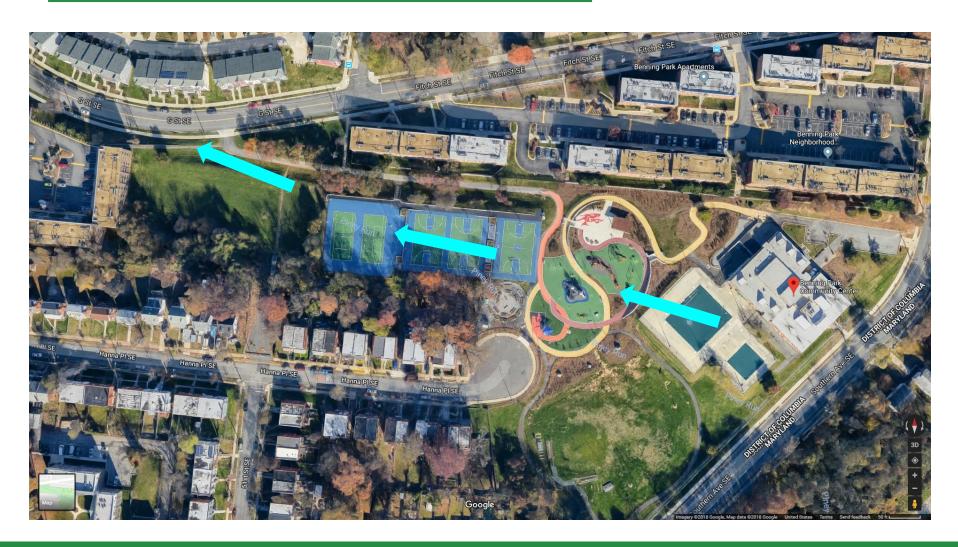
Impervious Area
26.6 mi²
Approx 43%
of Land Area

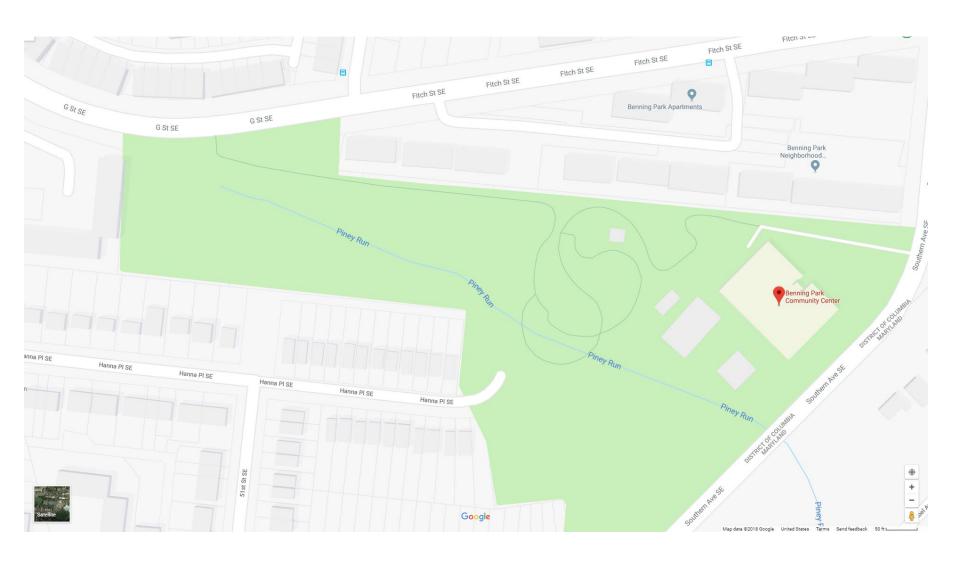
A single 1.2 inch storm falling on this area produces about 525 million gallons of stormwater runoff.

DC'S RESTORATION APPROACHES



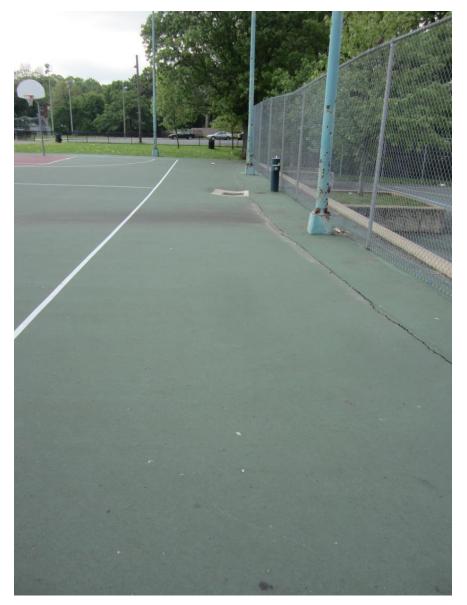
EXISTING CONDITIONS



















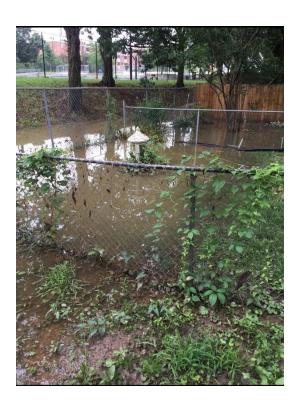








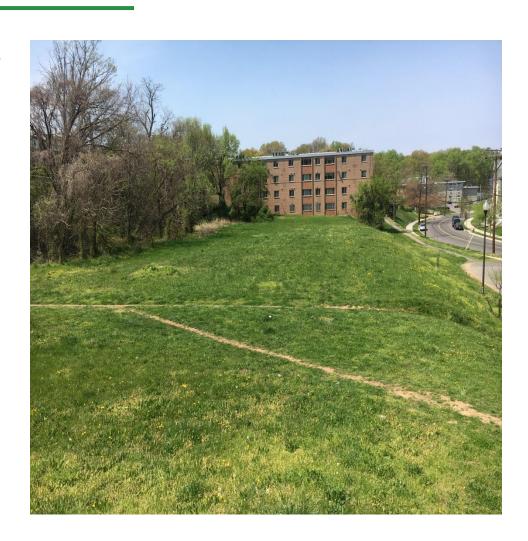






PROJECT OBJECTIVES

- Treat maximum amount of stormwater from the site in the most cost effective way
- Work only on District land
- Minimal impacts to the community
- Development of a community amenity
- Educational opportunities



RESTORATION APPROACH

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).

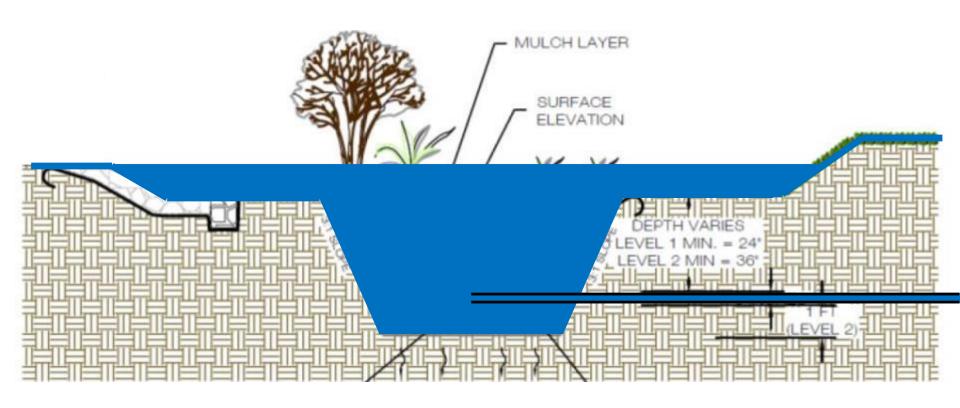
Slow it down, Spread it Out, Soak it In!

BIORETENTION





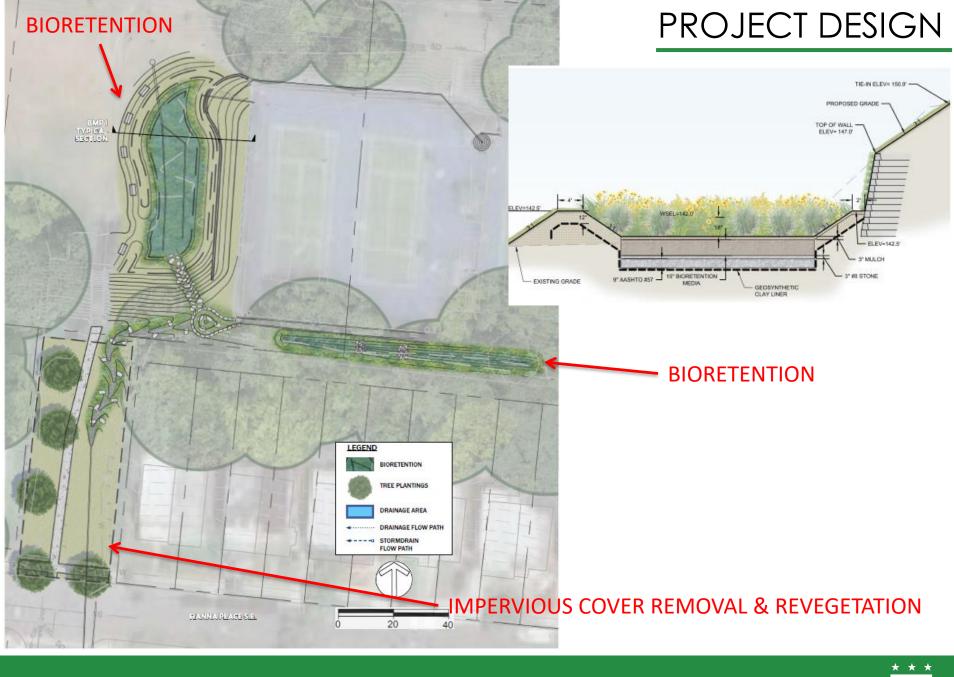
BIORETENTION: HOW IT WORKS



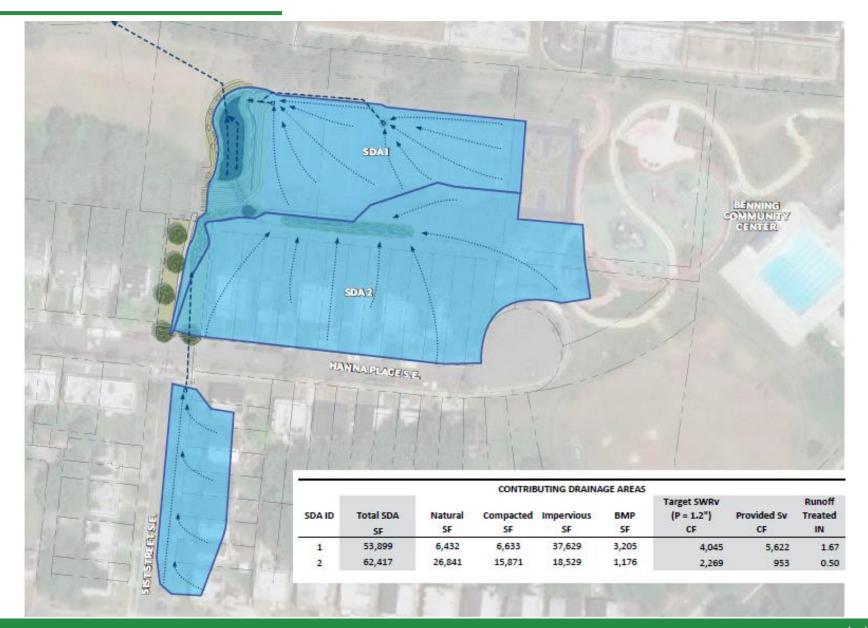
BIOSWALES







DRAINAGE AREAS



PROJECT TIMELINE

- November 2018: contract awarded
- November January 2019: field assessment (topographic survey, geotechnical investigations etc.)
- January June 2019: design development
- 3 public meetings:
 - Concept designs: January 16, 2019
 - Semi-final designs (~65%): March 27, 2019
 - Construction Kickoff meeting: June 24, 2019
 - Construction kickoff meeting (timeline): Oct. 1, 2020
- ~12 weeks for construction

CONSTRUCTION DETAILS



GENERAL INFORMATION

- All work to occur on weekdays (M-F)*
- Work hours are 8AM-5PM*
- Construction vehicles on site:
 - 1 track truck
 - 2 excavators
 - 1 company truck parked in construction zone
 - 2-3 personal vehicles parked on G
 St.
- DOEE Community Point of Contact:

Cecilia Lane

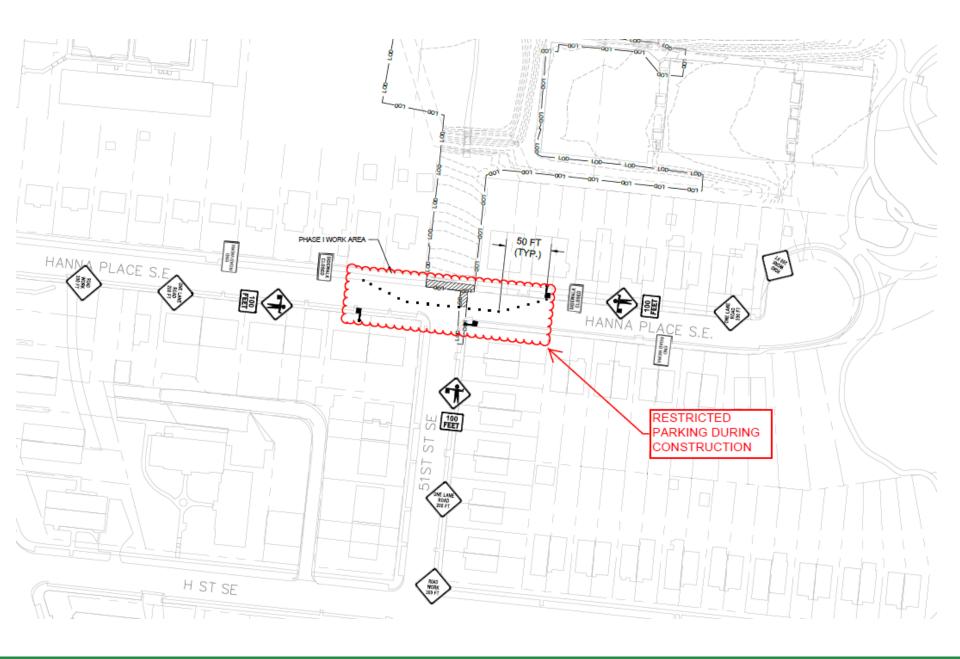
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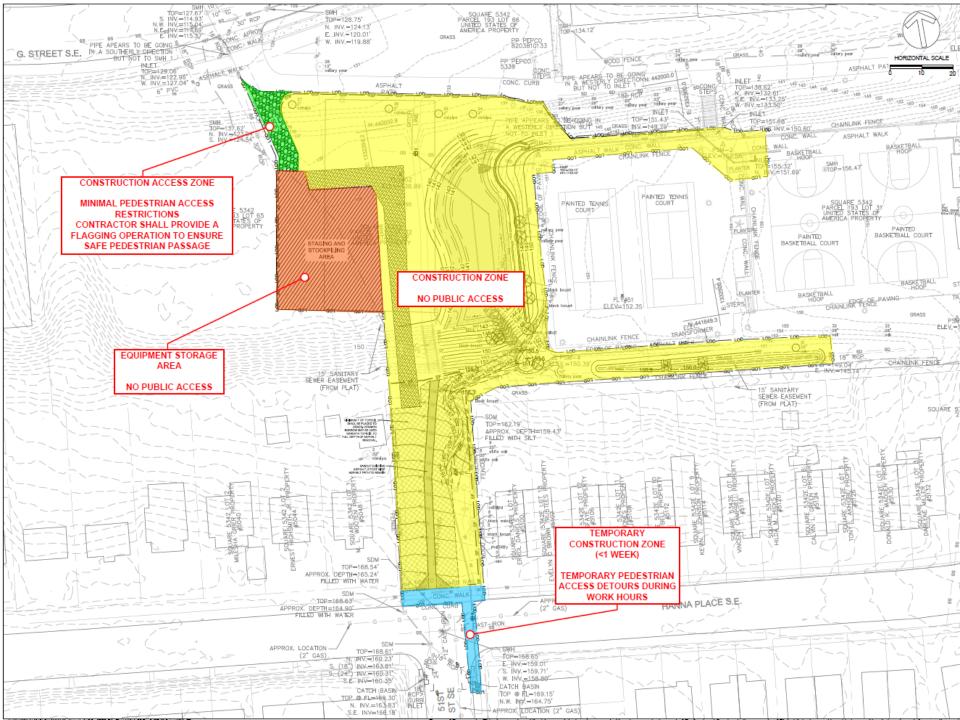
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SITE ACCESS & PARKING RESTRICTIONS

- Parking Restrictions on Hanna for less than 1 week during construction
- No pedestrian access through paper street during construction (work hours)
 - As work in this area is completed, area to be opened to pedestrian access





FAQs

- How do we find our project sites?
 - Enthusiastic landowners!
 - 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

