FORT GRELLE PARK
STORMWATER RETROFIT PROJECT

PUBLIC STAKEHOLDER CONSTRUCTION KICKOFF MEETING

October 28, 2020

PETER NOHRDEN
Landscape Architect
Capital Projects, Planning and Design
Department of Parks and Recreation
peter.nohrden@dc.gov

CECILIA LANE
Environmental Protection Specialist
Watershed Protection Division
Department of Energy & Environment
cecilia.lane@dc.gov
AGENDA

• Project Area & Background
• Existing Conditions
• Project Objectives
• Restoration Approach
• Construction Details
• Timeline
• FAQs
• Q&A
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 STORM WATER POLLUTION
DISTRICT OF COLUMBIA LAND USE

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

• Water is drained from athletic field toward Chesapeake St. SW
• Existing, unused open space between the athletic field and the Leckie Elementary School
• Drainage issues at adjacent school property
• Good opportunity for stormwater management and ecological restoration while addressing existing problems
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 APPROACHES
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!
BIO RETENTION
BIO RETENTION: HOW IT WORKS
FINAL DESIGNS
PROJECT TIMELINE

• May 2019: contract awarded
• May – August 2019: field assessment (topographic survey, geotechnical investigations etc.)
• August – January 2020: design development
• 3 public meetings:
  – Concept designs on 9/5/19
  – Semi-final designs (~65%): 12/10/19
  – Construction kickoff meeting (timeline): 10/28/20
• Construction complete ~ 6 weeks
• Post-construction maintenance included in contract
CONSTRUCTION DETAILS
GENERAL INFORMATION

- All work to occur on weekdays (M-F)
- Work hours are 8AM–5PM
- Construction vehicles on site:
  - 1 skid steer loader
  - 1 track excavator
  - 1 stake body truck
  - 1 crew pick-up truck
- DOEE Community Point of Contact:
  Cecilia Lane
  Cecilia.lane@dc.gov
  202-535-1961
Work area will be fenced off for security, no pedestrian through 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