# DOUGLASS COMMUNITY CENTER STORMWATER RETROFIT PROJECT

#### PUBLIC STAKEHOLDER CONSTRUCTION KICKOFF MEETING

December 9, 2020

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WE ARE GOVERNMENT OF THE MASHINGTON DISTRICT OF COLUMBIA MURIEL BOWSER, MAYOR

# AGENDA

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



### **PROJECT LOCATION**





# BACKGROUND









#### 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.



#### 

### 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 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 !



## BIORETENTION





# **BIORETENTION: HOW IT WORKS**

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# BIOSWALES









#### FINAL DESIGNS



DOUGLASS COMMUNITY CENTER 1922 Frederick Douglass Ct. SE Washington, DC



#### PLANTING PLAN



### CONSTRUCTION DETAILS





## CONSTRUCTION ACCESS







#### 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





#### SITE ACCESS & PARKING RESTRICTIONS

- No public parking restrictions. Workers will be parking on site.
- Work area will be fenced off for security, no pedestrian through access.



# 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 9/16/19
  - Semi-final designs (~65%) ON 12/16/19
  - Construction kickoff meeting 12/9/2020
- ~6 weeks for construction
- One year of post-construction maintenance included in contract



# <u>FAQ</u>s

- 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





