



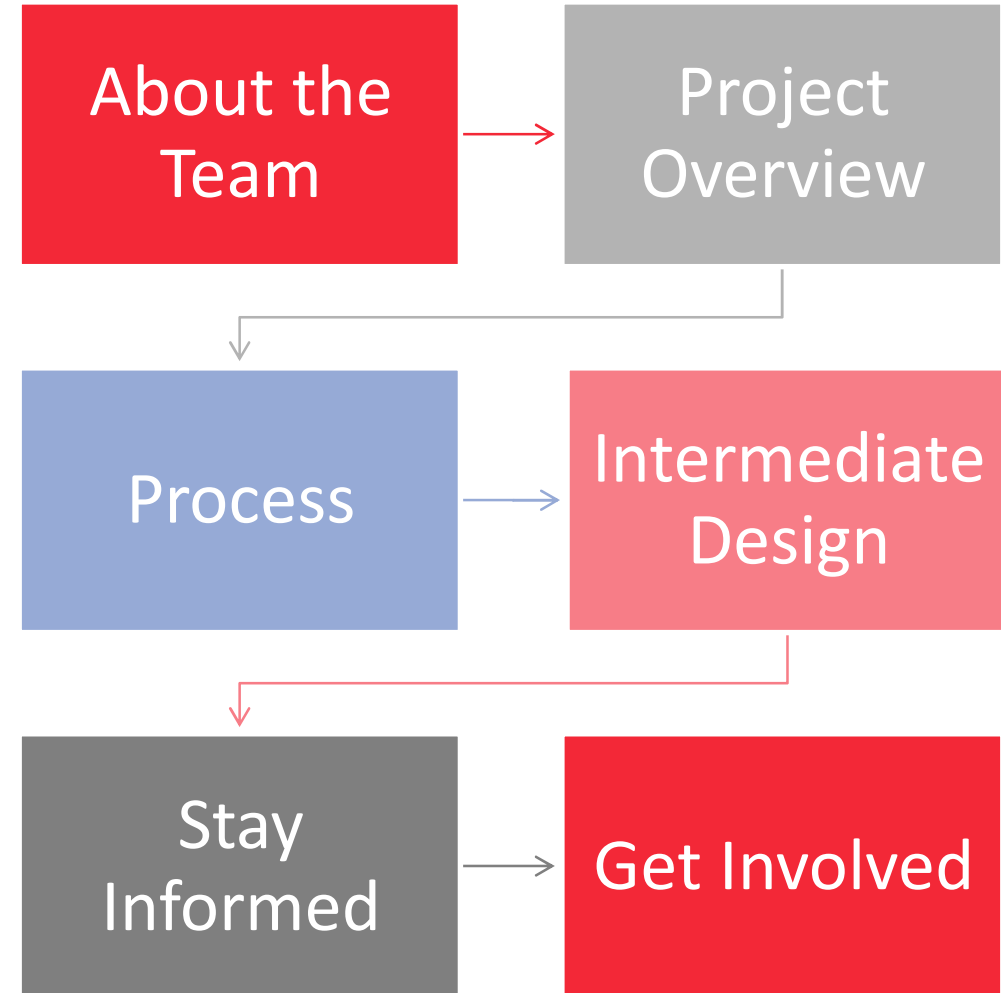
STORMWATER MANAGEMENT AND GREEN INFRASTRUCTURE DESIGN PROJECT

Four Sub Watersheds: Hickey Run, Nash Run, Fort Dupont, Pope Branch

Presenter: Jo-Elle Burgard



AGENDA



DDOT Project Team



Project Lead Consultant



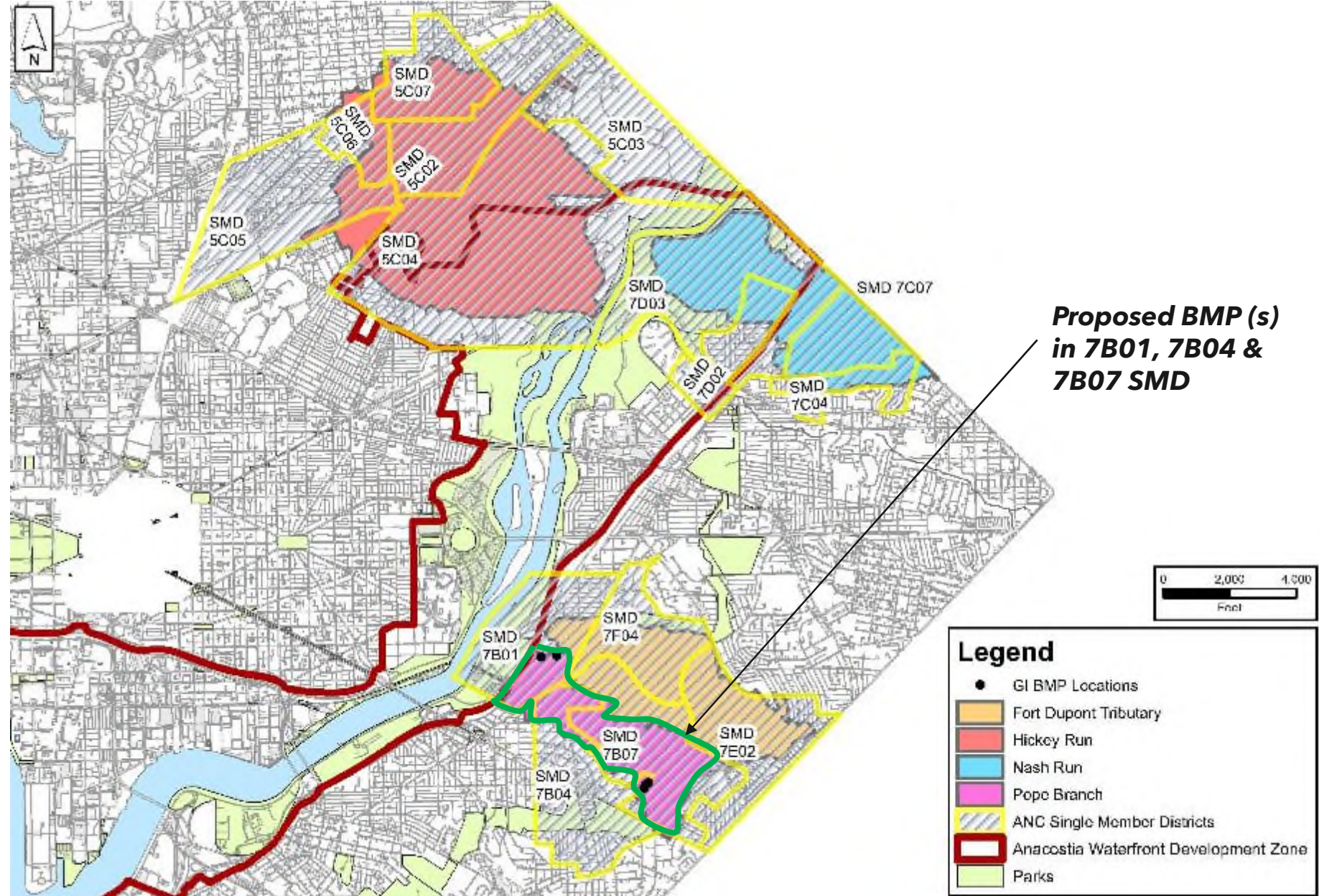
Green Infrastructure Designer



Public Engagement & Site Screening



PROJECT AREA



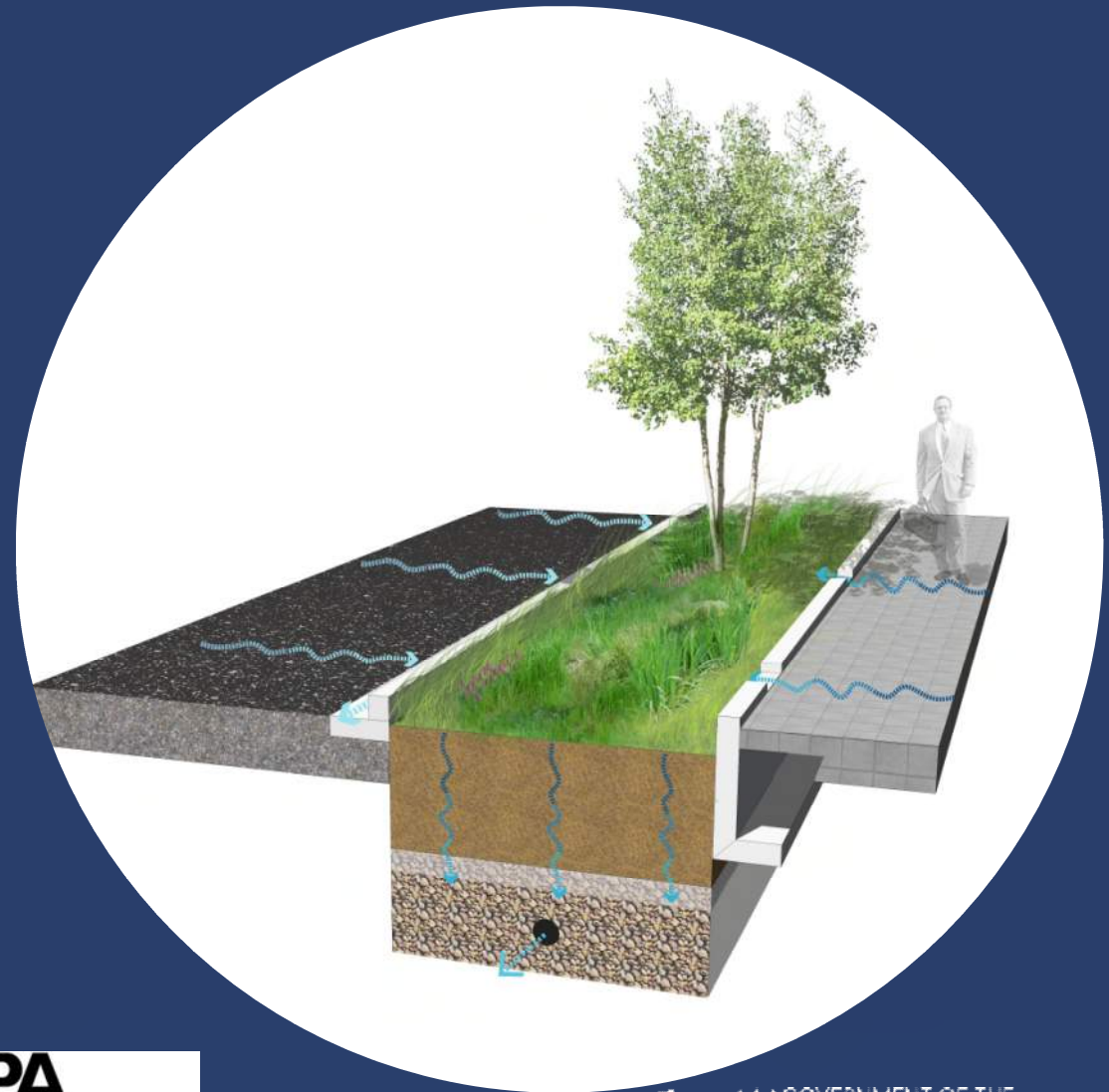
THE CHALLENGE

- The overall goals of this project are to improve water quality and help reduce water quantity impacts to the Anacostia River from stormwater.
- DOEE developed a list of targeted subwatersheds that have the biggest water quality impacts to Anacostia
 - *The Hickey Run, Nash Run, Pope Branch, and Fort Dupont are the 4 watersheds selected for the project*

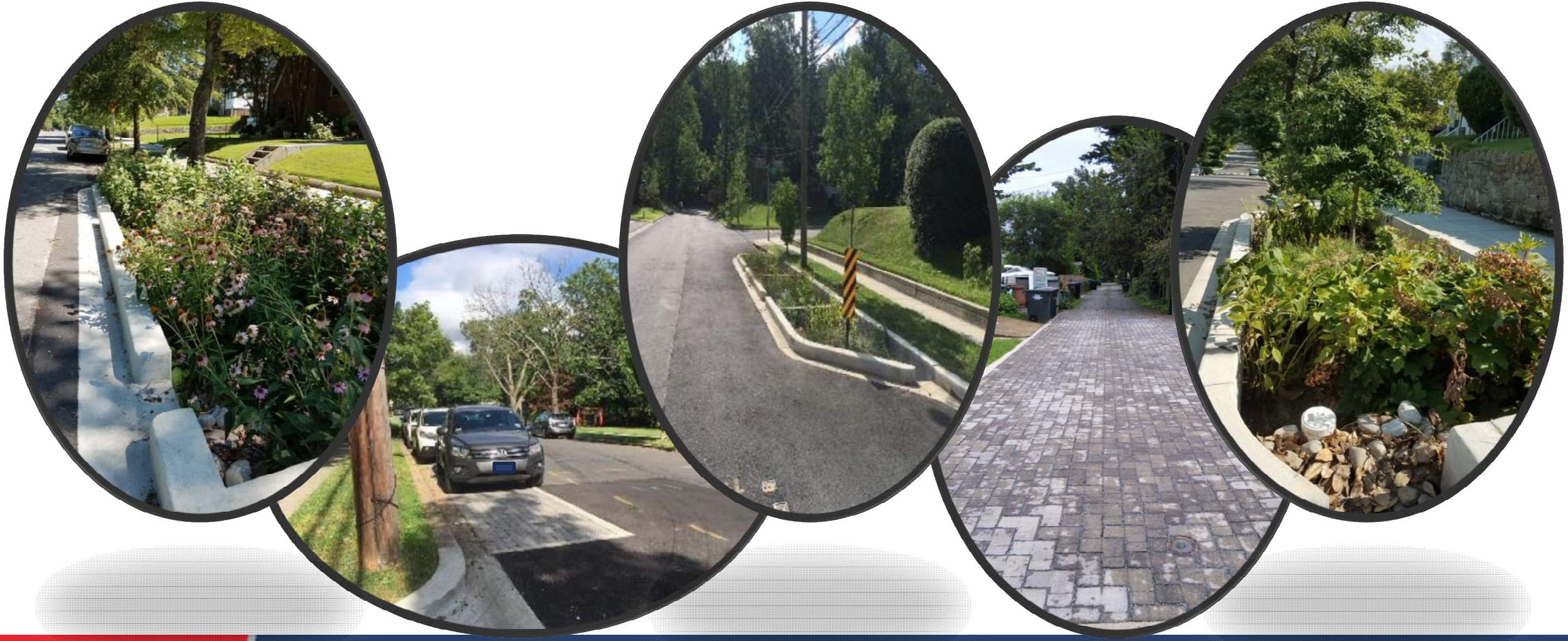


THE SOLUTION

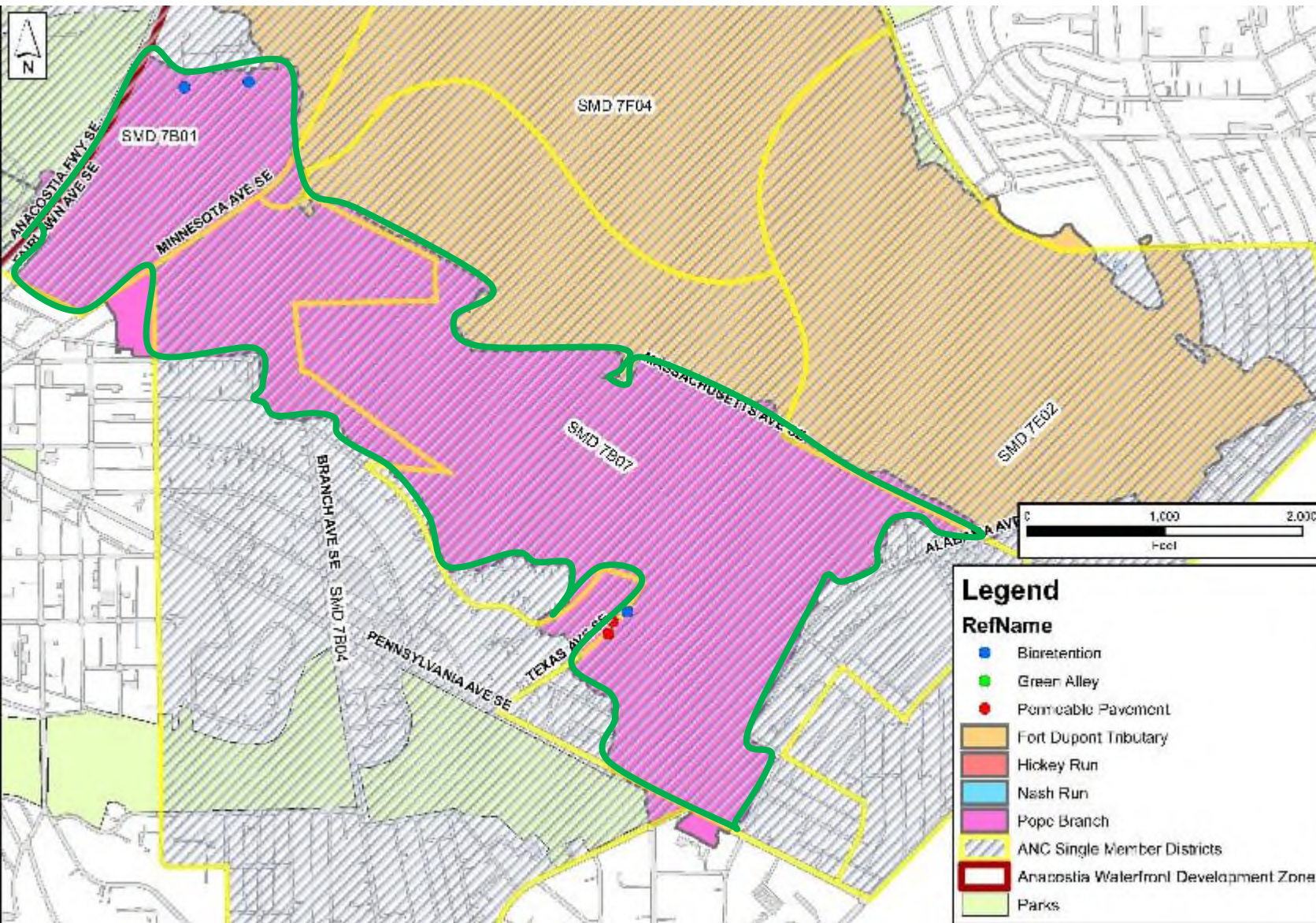
- Green Infrastructure - Stormwater management approach that mimics the natural water cycle to absorb and treat rainwater incorporating landscaping features and green spaces
 - Plants, trees, permeable pavement
- Project will capture rainwater from 360,000 square feet of impervious surfaces such as roadways



What's Happening In Your Neighborhood?



FIVE GI BMP LOCATION IN YOUR NEIGHBORHOOD





Permeable Pavement Parking Lane

And

Bioretention System



Bioretention Systems

How Does This Benefit You?



USE AS TRAFFIC CALMING TO REDUCE ROADWAY HAZARDS FOR PEDESTRIANS, CYCLISTS, AND MOTORISTS

*MAKES OUR NEIGHBORHOODS
SAFER BY REDUCING MOTORIST
SPEEDS AND ACCIDENTS*



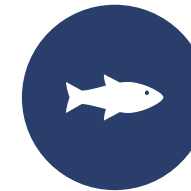
NEIGHBORHOOD BEAUTIFICATION

*PLANTS AND TREES CAPTURE
AND ABSORB STORMWATER TO
HELP REDUCE UNSAFE
CONDITIONS LIKE FREEZING IN
WINTER AND LOCALIZED
FLOODING IN SUMMER*



CONSERVE ENERGY

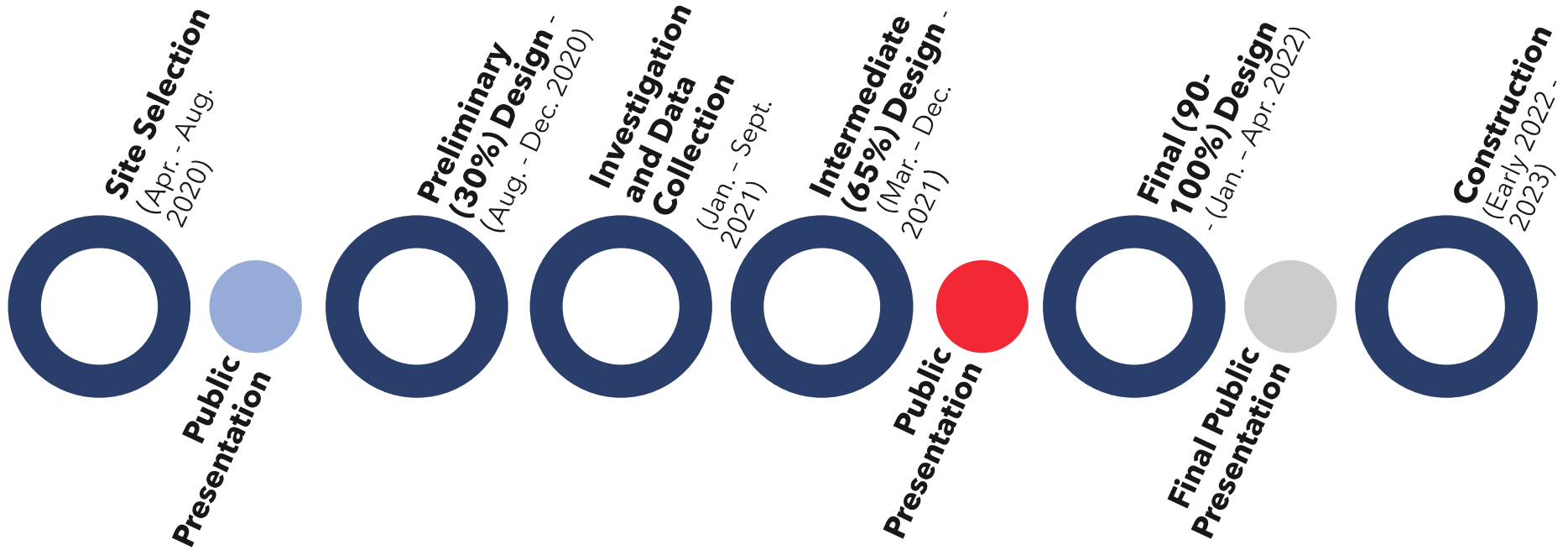
*TREES HELP WITH HEAT ISLAND
EFFECT, WHICH HELPS REDUCE
ROADWAY AND OUTDOOR
TEMPERATURES*



ENHANCES STREAMS AND RIVERS

*REDUCES POLLUTION AND EROSION
IN THE ANACOSTIA RIVER
CONNECTS AND IMPROVES
WILDLIFE HABITAT*

DESIGN PROCESS



INTERMEDIATE DESIGN

Site Selection

- GI BMP sites were selected during the site selections process using criteria like:
 - ✓ Impervious area availability
 - ✓ Site Availability
 - ✓ Site Suitability
 - ✓ Conflicts

Preliminary Design

- A site visit was performed to finalize the GI BMP site location
- A preliminary design was conducted for the selected GI BMPs

Investigation and Data Collection

- Survey and Geotechnical testing was performed to collect more information about the site selected for GI BMPs

Intermediate Design

- Final set of GI BMPs including Bioretention practices, Permeable Pavement Parking Lanes and Permeable Pavement Alleys were designed using information collected in the previous phases.

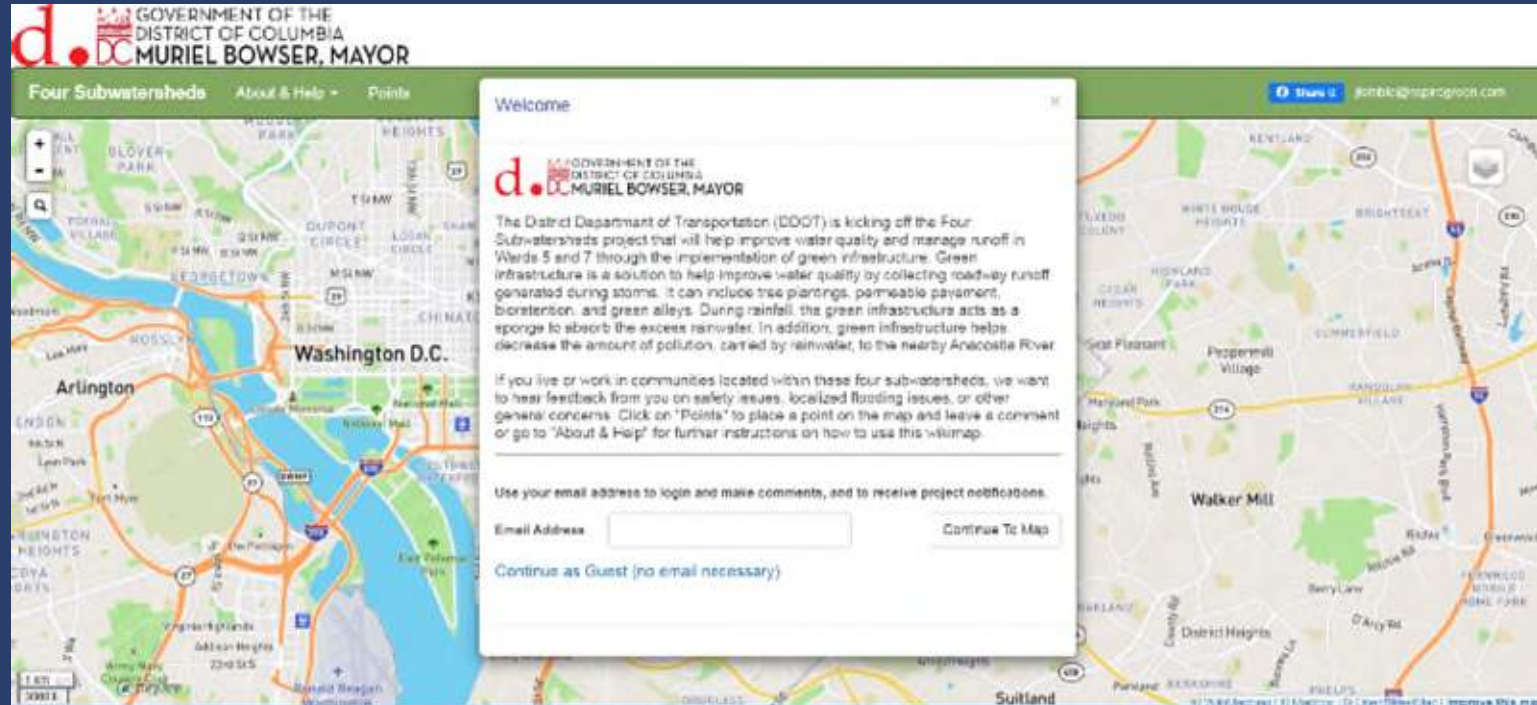


We Need Your Feedback!

NEXT STEPS

COLLECT YOUR FEEDBACK

DEVELOP FINAL DESIGN



VISIT [HTTPS://WIKIMAPPING.COM/FOUR-SUBWATERSHEDS.HTML](https://wikimapping.com/four-subwatersheds.html) TO GIVE YOUR FEEDBACK





STAY INFORMED



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d.

District Department of Transportation