

# SW/Buzzard Point Flood Resilience Strategy

October 13, 2022





An aerial photograph of a city, likely New York City, showing a large body of water (the Hudson River) on the left, a large green area (Central Park) in the center, and a dense urban area on the right. The text "10:30-10:40" is overlaid in blue, and "Welcome & introductions" is overlaid in white.

10:30-10:40

Welcome &  
introductions



# Project Objectives

- Protect communities and stakeholders from interior flooding events in Southwest and Buzzard Point.
- Design a network of connected and floodable green/blue infrastructure that can revert to their primary function after flood events.
- Prioritize and phase projects.
- Design first project with \$18 million in FEMA funds for construction.
- Utilize strategy as a blueprint for future BGI projects in the District.
- Leverage strategy as an opportunity to create great spaces for people and nature and other co-benefits.





**Increased flooding  
creates a need to  
protect vulnerable  
populations and  
critical infrastructure.**



**Green Leaf Public Housing**



**James Creek Public Housing**



**Defense**



**Utilities**



**Emergency Response**



**Interior flooding is also a threat and a frequent nuisance**





**The Strategy will  
reshape open spaces  
in the neighborhood  
to reduce rainwater-  
driven flooding**





Upgrading physical infrastructure goes hand in hand with increasing the quality of urban spaces



Keeping temperature cool in the summer



Creating space for learning



Creating spaces for sport and play



Creating spaces for gathering and community events



Creating restorative and calm spaces



## **Project summary**

**Design a network of connected, floodable, multipurpose projects to accommodate excess stormwater**

**And that can easily revert to their primary function.**

- 1. Existing Conditions Analysis**
- 2. Flood Modeling**
- 3. Typologies and Design Guidelines for Parks and Rights-of-Way**
- 4. Community-wide Blue-Green Infrastructure Plan**
- 5. Cost-Benefit Analysis and Financing Strategy**
- 6. Concept Design for a pilot area “Phase One” of the Network**



# Project Area



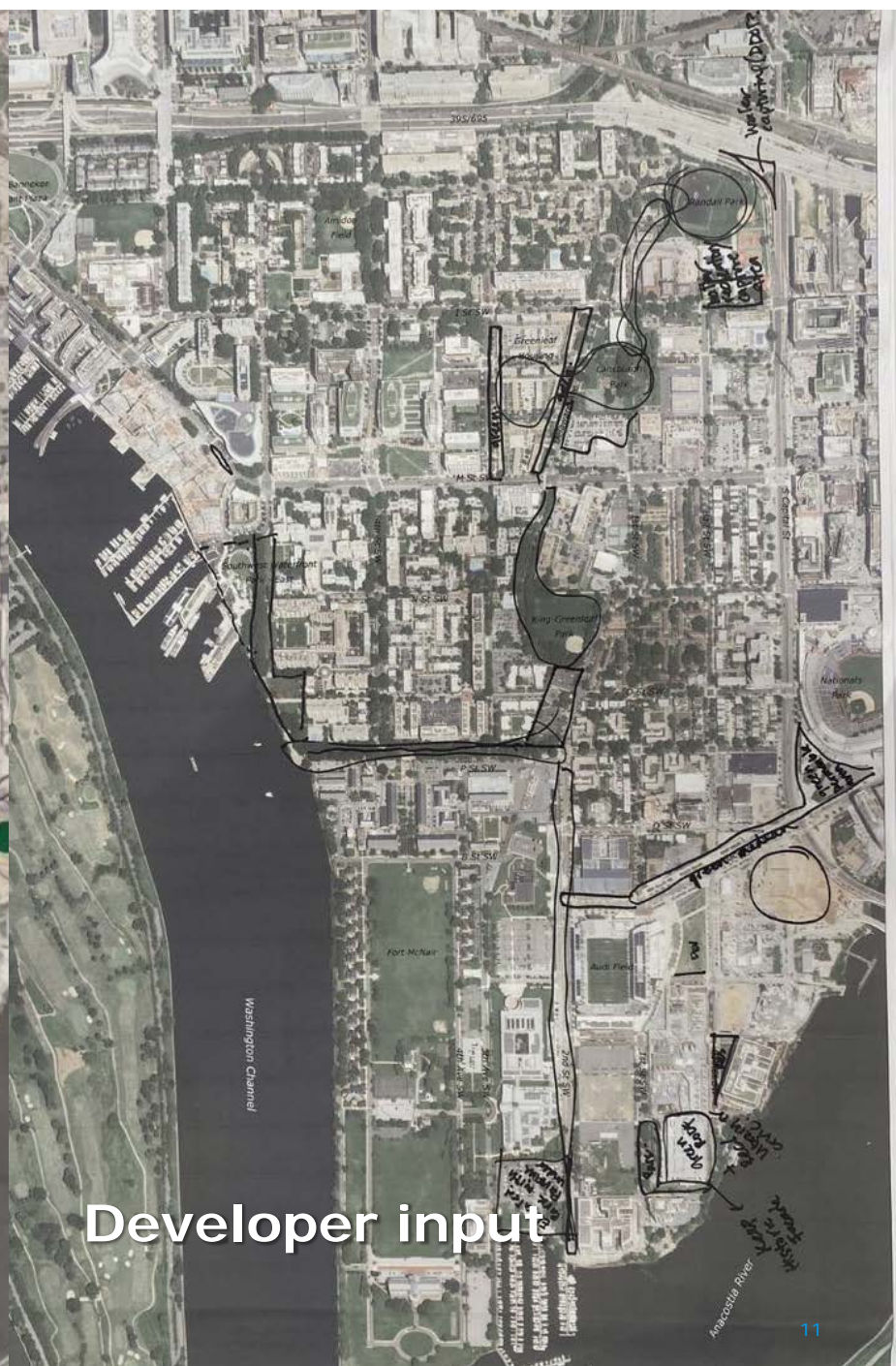
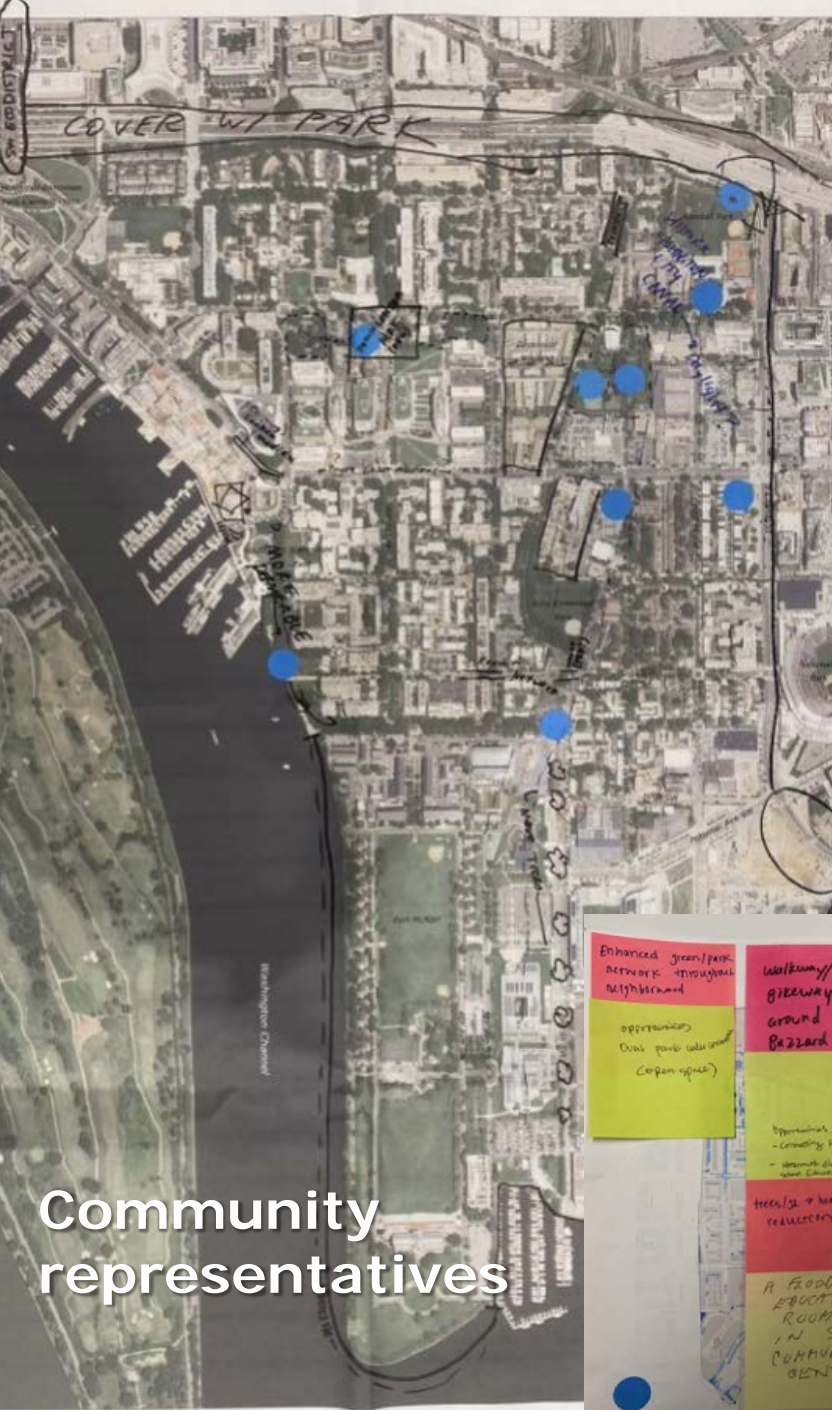


An aerial photograph of a city, likely Seattle, showing a large stadium (Lumen Field) and surrounding urban development. The image is used as a background for a presentation slide.

10:40-10:50

How have we applied your  
input? Project status





Enhanced green/park network throughout neighborhood

opportunities  
Over park value and  
corporate space

Walkway/  
bikeway  
around  
Bazard Pt.

Preserving  
diversity  
diversity

Preserve  
open/  
common  
space

Public space  
on Town of Park  
on I-4

Coordinated  
development  
around  
individual  
buildings

opportunities  
historic preservation  
community development  
open space

trees/sh + heat island  
reductions

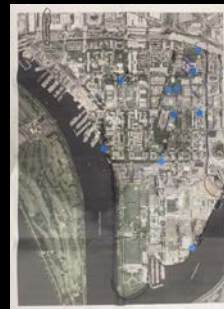
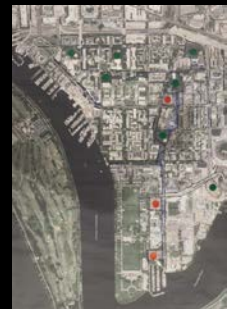
A FOOD  
EDUCATION  
ROOM  
IN SW  
COMMUNITY  
CENTER





Write Your Thoughts Here ☺

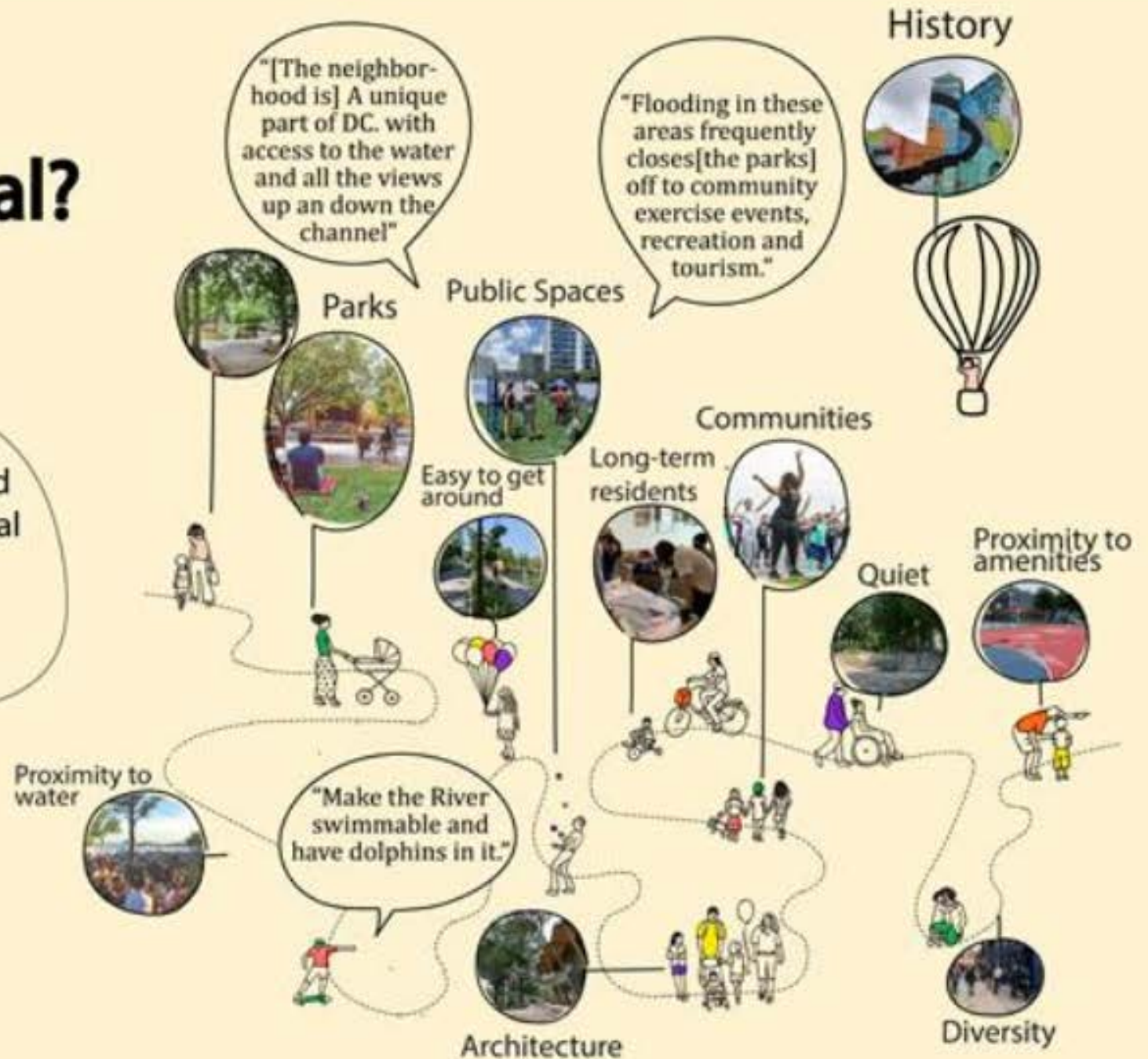
- Over parking lots with green spaces
- Water recreational features that capture water (rainfall) surrounding area
- Integrate green areas in public thorough (greenleaf. Dev) with Lamborgh
- Connect existing paths through greenways
- Small parks and stormwater management (Res. in part of energy plant) + these (next to highway)
- DOT - S Capital & Bridge Landing on E Shore Re-configure for storage





# What makes your neighborhood special?

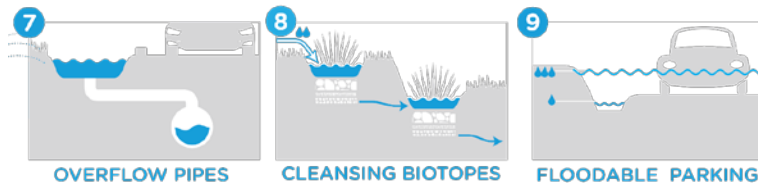
Residents of the SW/Buzzard Point neighborhood have identified what makes their local area special to them through an online survey. This feedback informs the development of the BGI Network Plan.



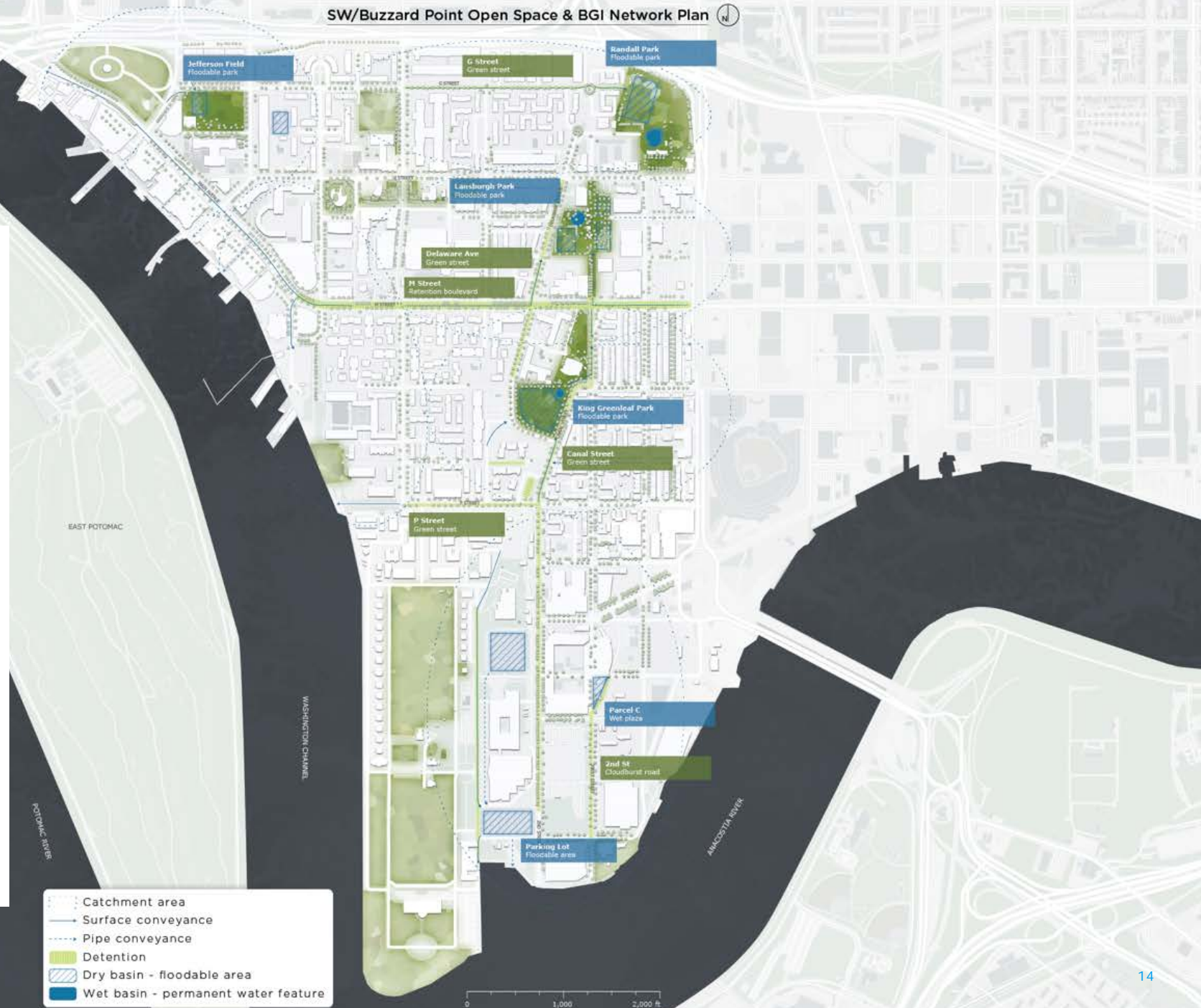


# Masterplan

## Hydraulic elements



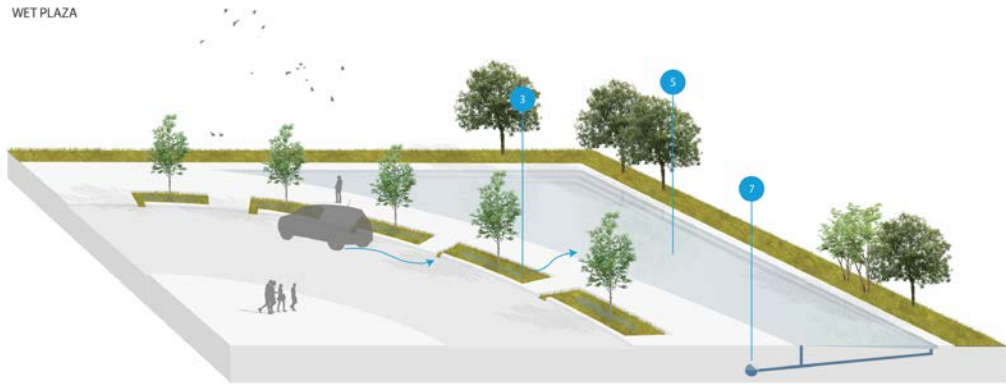
- Catchment area
- Surface conveyance
- Pipe conveyance
- Detention
- Dry basin - floodable area
- Wet basin - permanent water feature



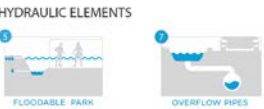
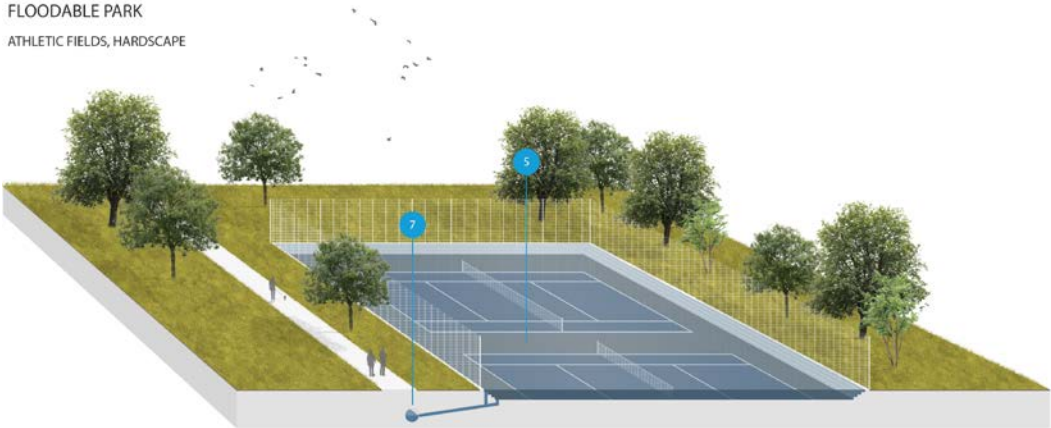


# Typologies - Park

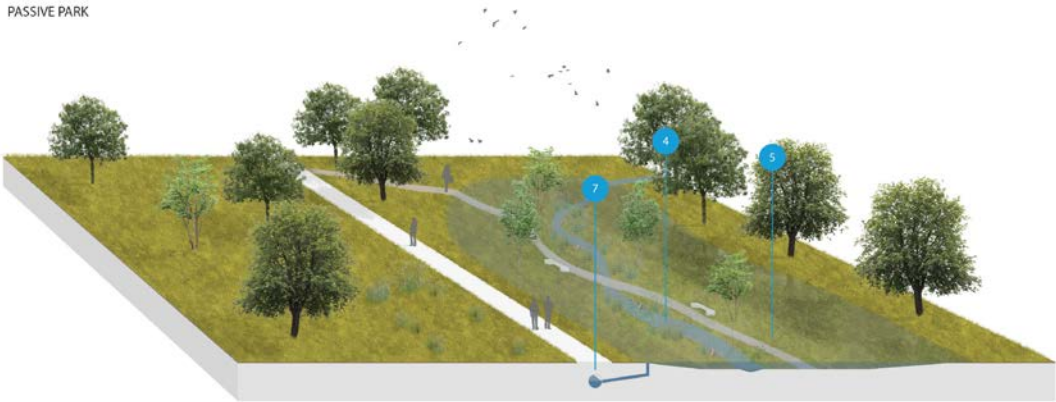
URBAN PLAZA  
WET PLAZA



FLOODABLE PARK  
ATHLETIC FIELDS, HARDSCAPE



FLOODABLE PARK  
PASSIVE PARK



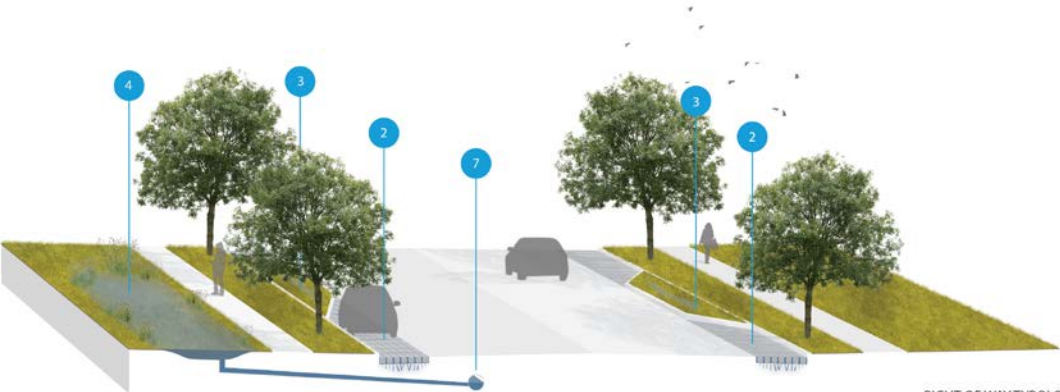
FLOODABLE PARK  
ATHLETIC FIELDS, GRASS





# Typologies - ROW

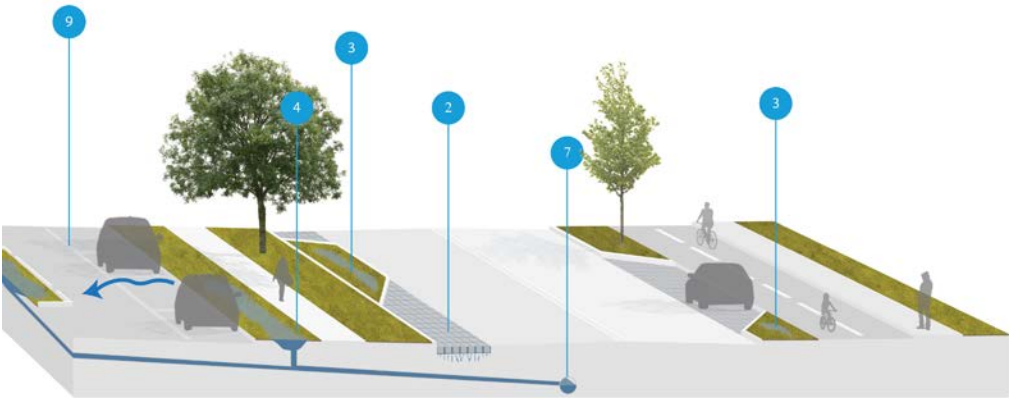
RIGHT OF WAY TYPOLOGY  
Green Street



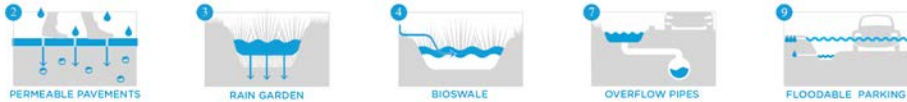
HYDRAULIC ELEMENTS



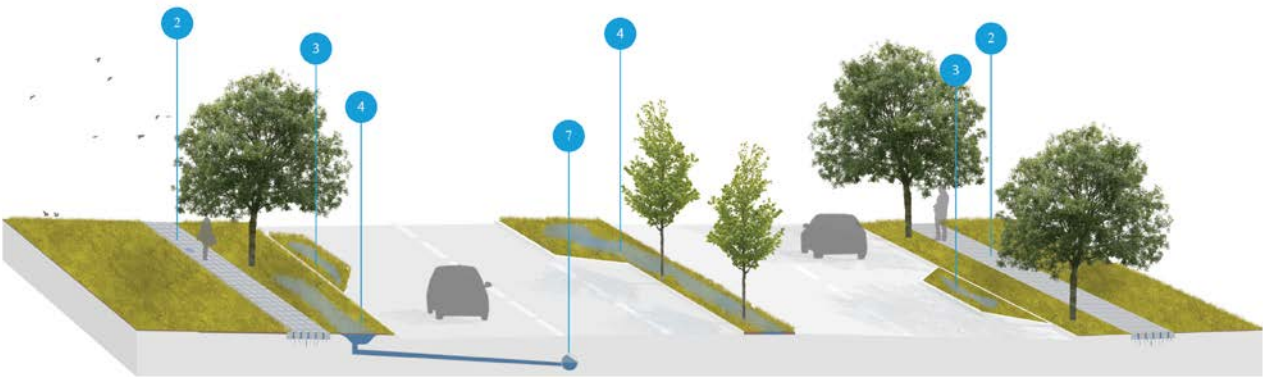
RIGHT OF WAY TYPOLOGY  
Cloudburst Road



HYDRAULIC ELEMENTS



RIGHT OF WAY TYPOLOGY  
Retention Boulevard



HYDRAULIC ELEMENTS



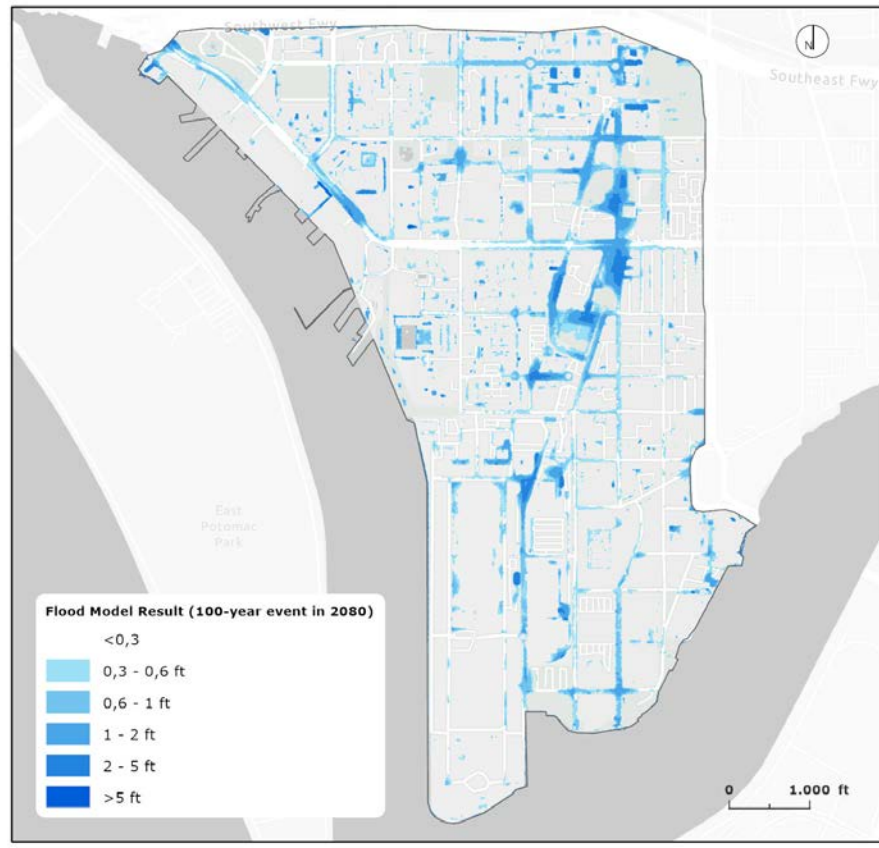


# Which co-benefits are we looking at?





# Draft BGI Network Plan





# Lansburgh Park today



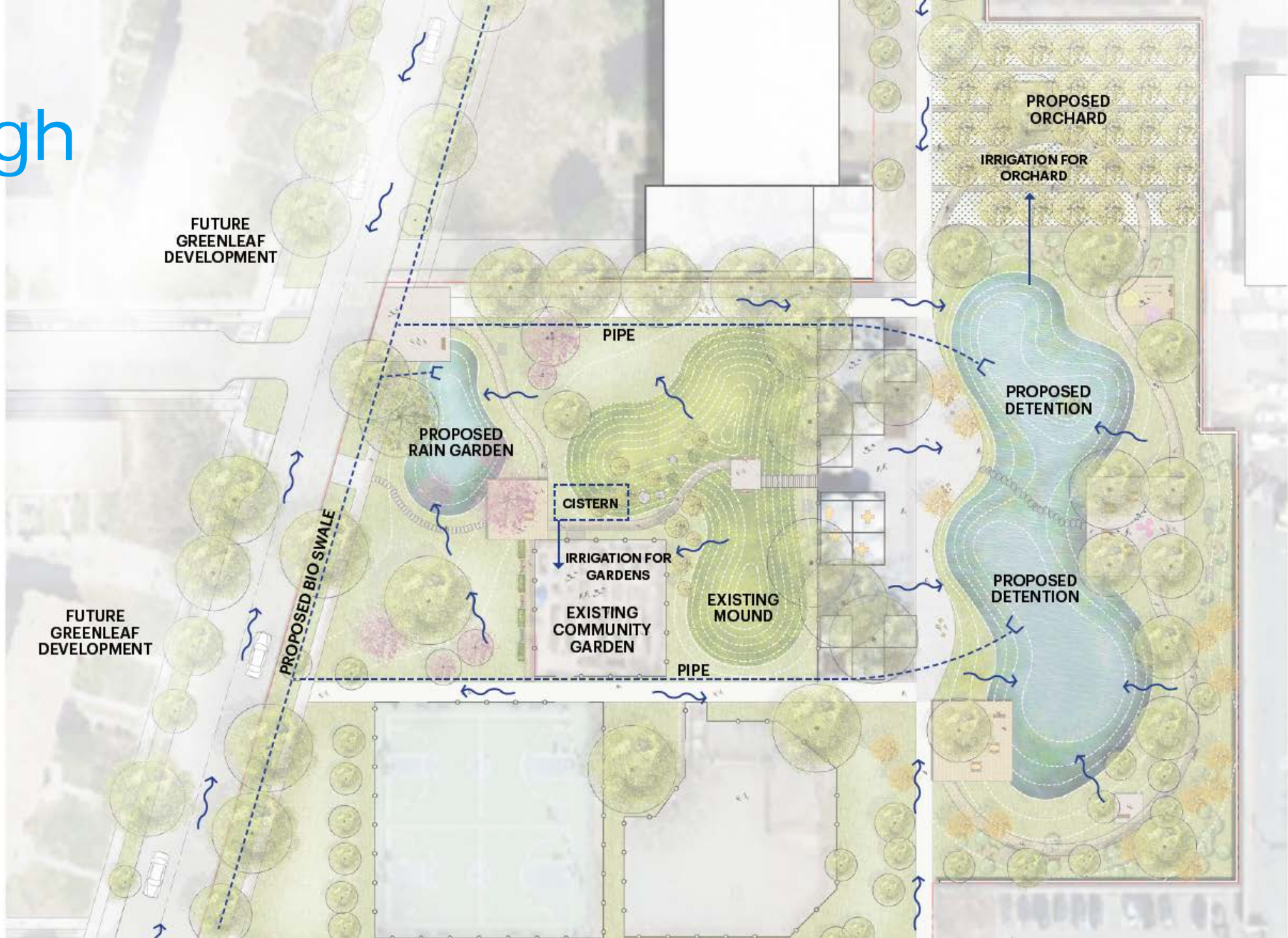


# Lansburgh Park





# Lansburgh Park





# Lansburgh Park





# Randall field



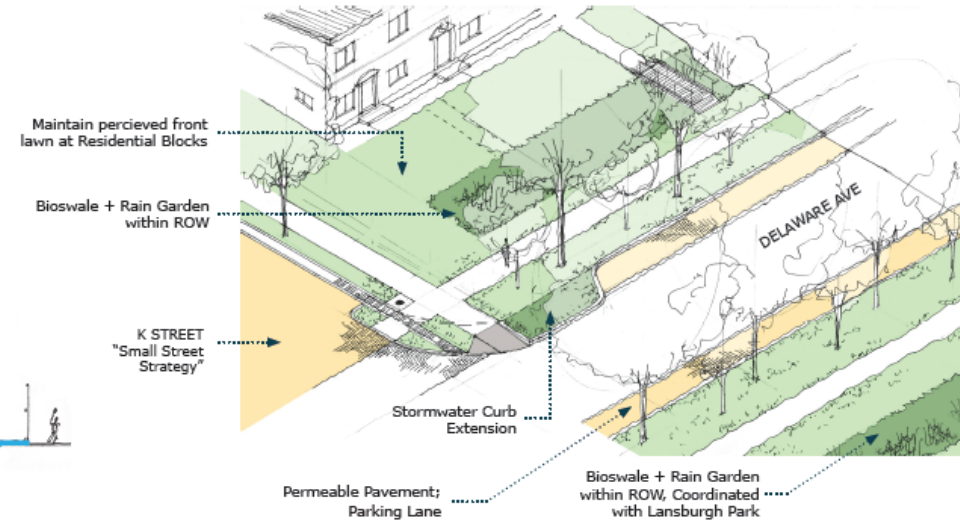
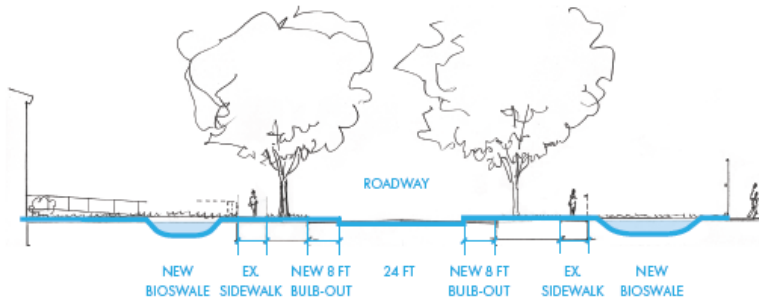


# Right-of-Way Conceptual Design

## DELAWARE AVENUE SW

Within the ROW, we can utilize the Avenue's generous ROW setback to increase stormwater infiltration within Permeable Parking Lanes, while also conveying storm water through continuous bioswales at back-of-sidewalk.

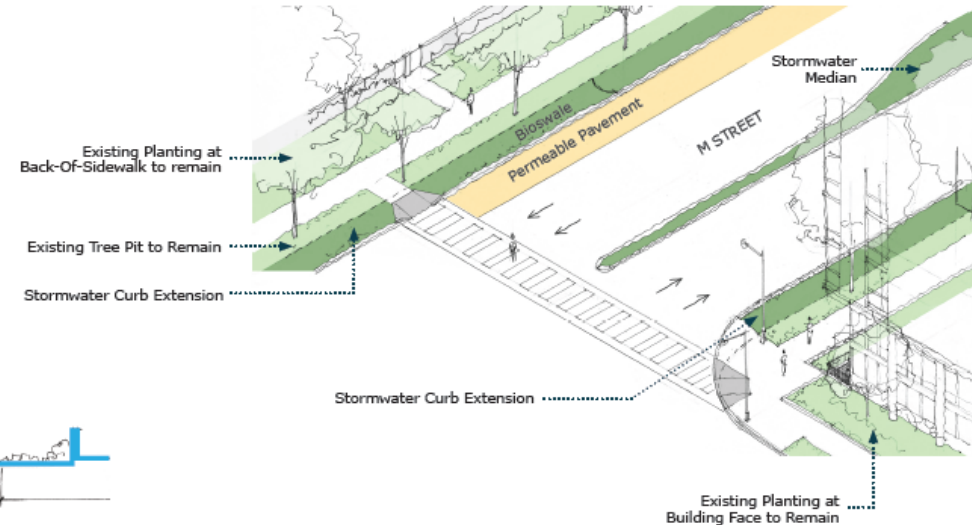
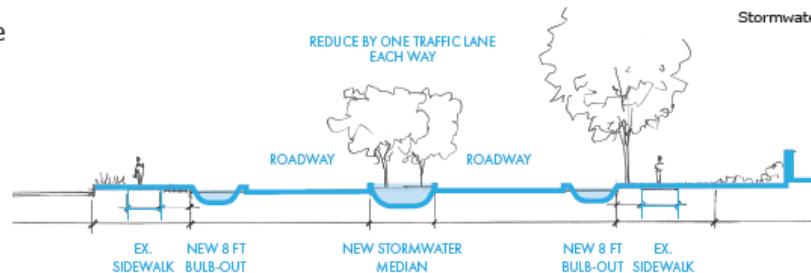
Throughout this corridor, preservation of existing mature street trees is also prioritized.



## M STREET SW

This street's Medians offer a linear-opportunity to convey stormwater throughout SW DC.

Additional studies regarding the feasibility of lane reductions to increase stormwater curb extensions, and bioswales within the ROW should be studied further.

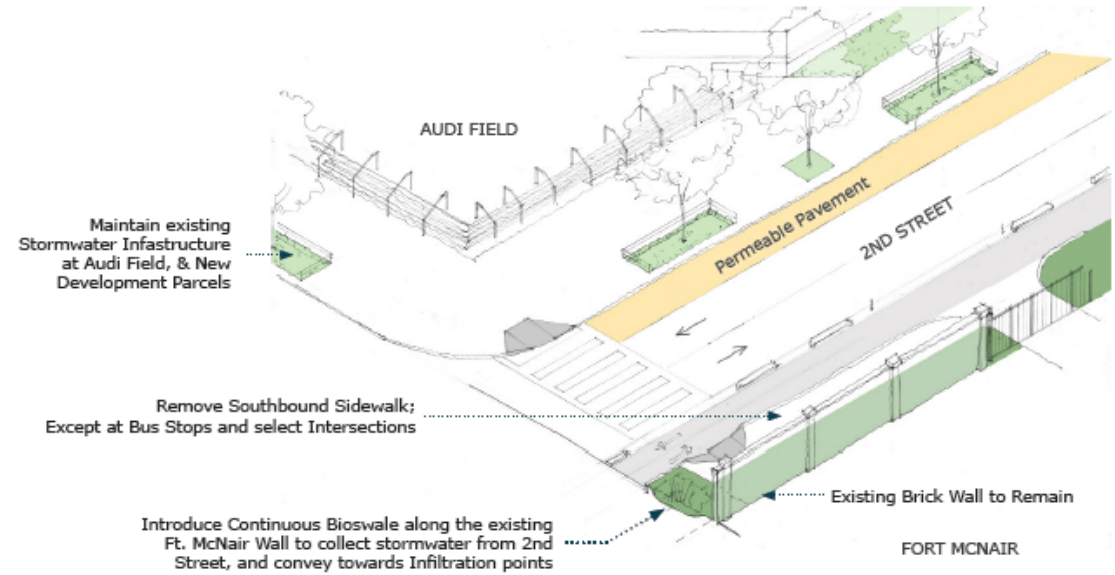
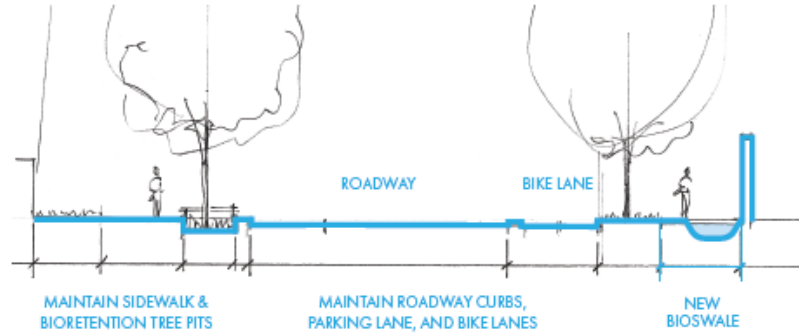




## SECOND STREET SW

This typology is unique in that it abuts new development, and Fort McNair's private campus.

Outside of the fort wall, the team proposes to utilize the existing green verge as a new continuous bioswale to convey water along 2nd Street towards larger detention ponds in the park open-spaces.



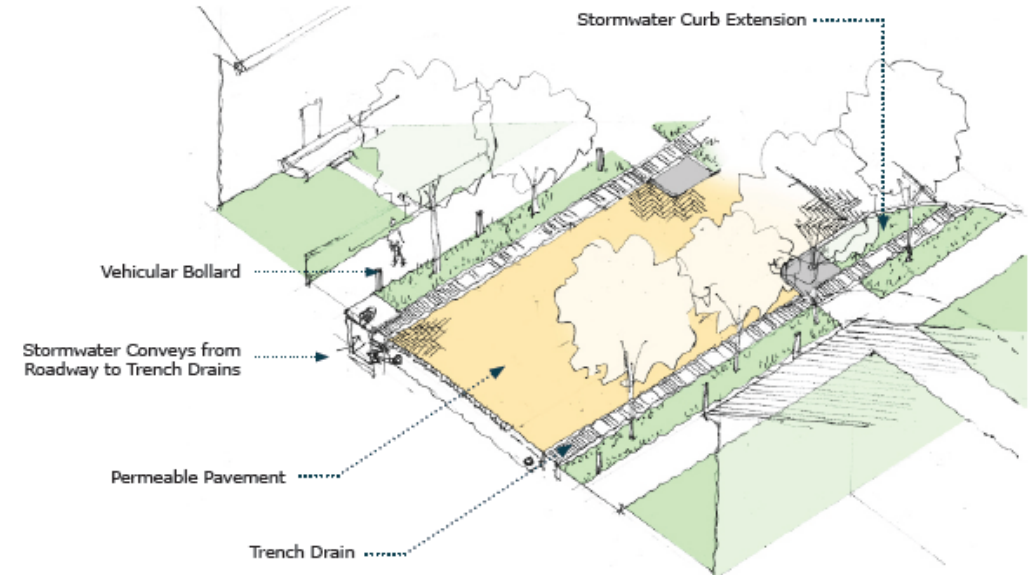
## SMALL STREET STRATEGIES

Stormwater strategies are also needed for smaller streets throughout the district. The solutions proposed are dual purpose - managing stormwater surges from storm events, and also providing traffic-calming measures within primarily residential blocks.



"Tabled Streets" at Eastern Market, DC using flush curbs, trench drains, and Permeable Pavement (Top Left, Top Right)

Stormwater Curb Extension (Bottom Left)





# Concept discussions

**40 min**

What would you like to add to the designs?





An aerial photograph of a city, likely San Francisco, showing a large stadium (SAP Center) and surrounding urban areas. The text is overlaid on the left side of the image.

12:25 – 12:30

Wrap-up &  
next steps



# Next Steps

## Final Engagement

March 2023

## Planning phase ends in March 2023

Completion of the planning phase

## Second Civic-Representative Meeting

October 13

6:00pm – 8:00pm

## RFP for design and construction in Spring 2023

DPR/DGS will issue an RFP for design and construction of the first BGI Project in SW/Buzzard Point.

TODAY

March 2023

Spring 2023



**Questions?**

## **Your contact person**

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Department of Energy & Environment

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**[www.doe.dc.gov](http://www.doe.dc.gov)**