Ivy City Climate Resilience Strategy

Introduction

What is the Ivy City Climate Resilience Strategy?

The DC Department of Energy and Environment (DOEE) is working with the Ivy City community to create a Climate Resilience Strategy. This project will design a network of projects in public spaces to protect the community from flooding during extreme rain events while also reducing the temperatures in the summer. These projects will also provide additional benefits such as improved park space, better walkability, safer streets, and healthier air quality.

Who is involved in the process?

The Ivy City Resilience Strategy is a collaborative process between District agencies and the local community.
The project team includes DOEE and their consultant team: Ramboll, Empower DC, and Moody Graham. The Strategy also depends upon input from community members like you! We need direction, feedback, and guidance from the community to ensure that the Strategy is based on your experiences, responds to challenges that you experience, and achieves your vision for a more resilient Ivy City.

What are the key outcomes?

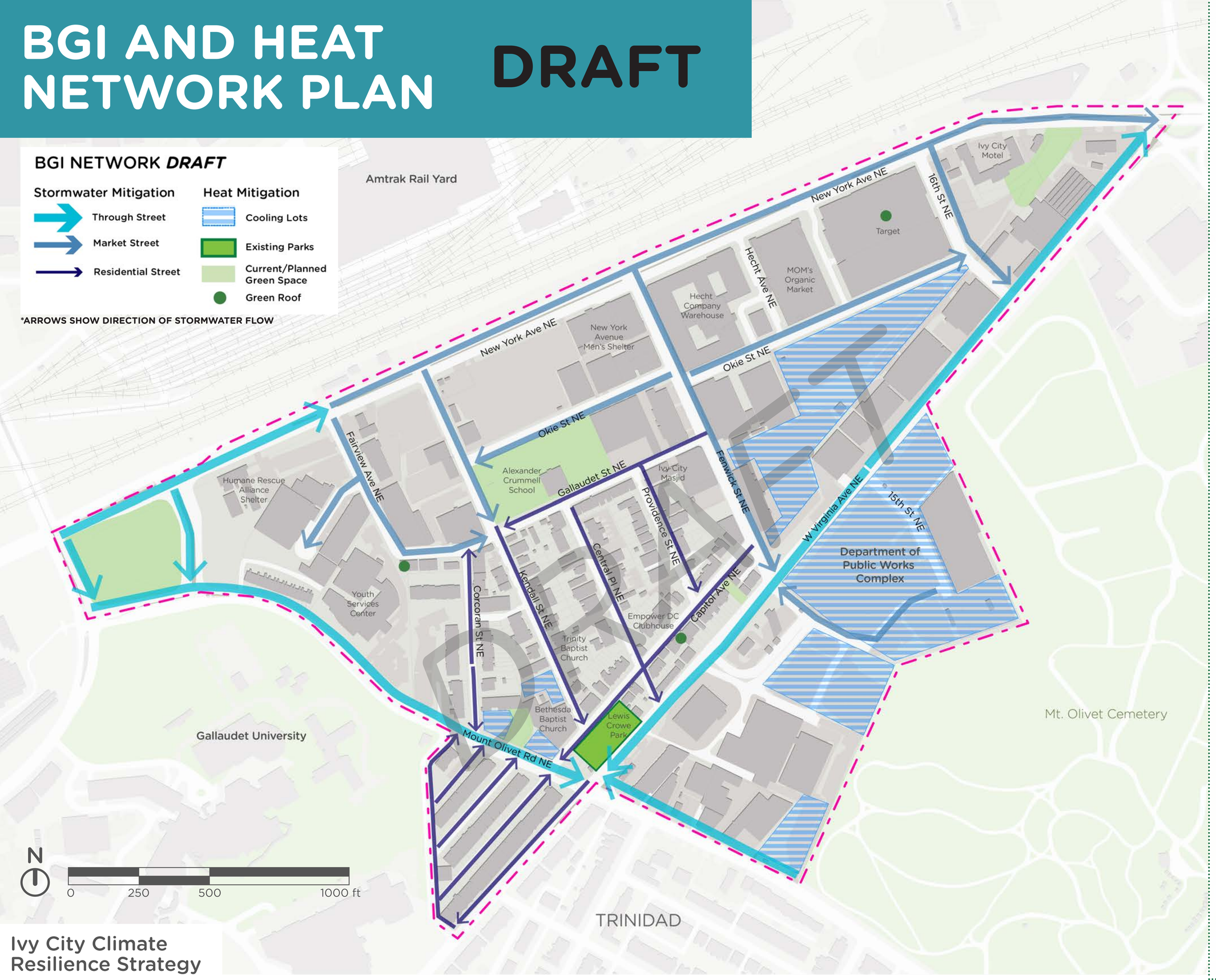
The key outcomes of the Climate Resilience Strategy will include:

- *Defined resilience vision and goals based on community input.*
- *Assessment of existing flooding, extreme heat, and social vulnerability.*
- *Flood and heat mitigation network plan, including diagrammatic design for streets, open space, and parking lots.*
- *Conceptual designs for improvements to Lewis Crowe Park.*
- *Funding and implementation strategy to facilitate the vision for a more resilient Ivy City.*
- *Inclusive, accessible, and equitable community engagement throughout the planning process and beyond.*

Project partners:

BGI AND HEAT NETWORK PLAN

DRAFT



Do you have other ideas about the BGI and Heat Network Plan?

Ivy City Climate Resilience Strategy

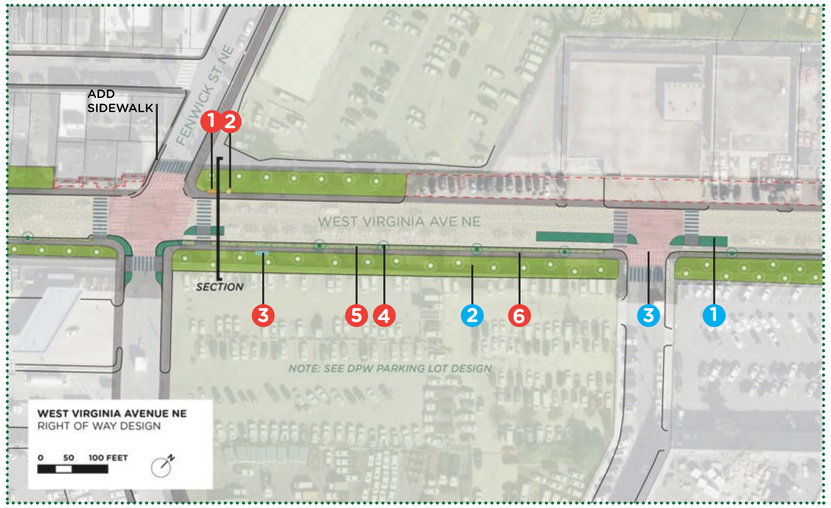
DEPARTMENT OF ENERGY & ENVIRONMENT
GOVERNMENT OF THE DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR
moody graham
RAMBOLL

STREETS TO ADDRESS FLOODING AND HEAT

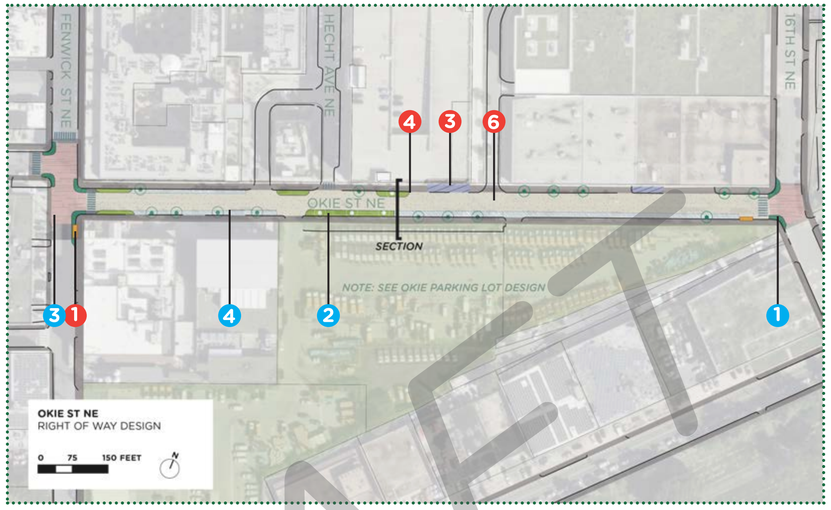
STREET TYPOLOGY PROCESS

In the Blue Green Infrastructure Network Plan, Ivy City streets are categorized into three types: through streets, market streets, and residential streets. Each street in Ivy City is assigned to one of these categories based on its characteristics. For example, Okie Street is designated as a market street because it has many commercial properties, street parking, and is frequently used by pedestrians. In contrast, Kendall Street is categorized as a residential street due to its high density of homes. Each street type includes various design elements that can be applied universally. These elements can then be implemented throughout the neighborhood according to the street typologies.

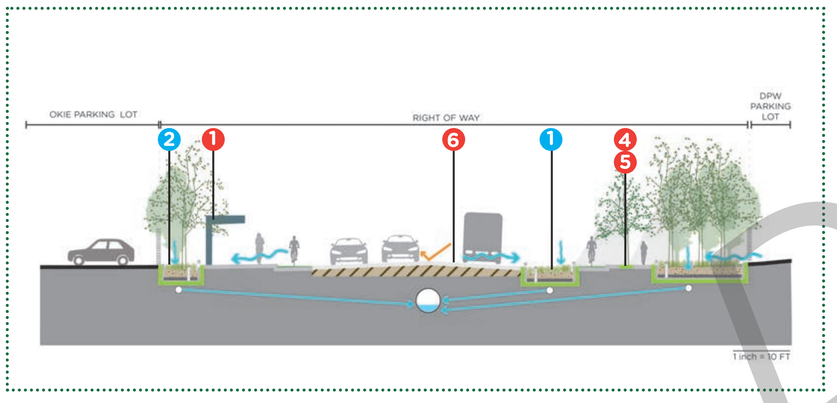
THROUGH STREET
WEST VIRGINIA AVENUE NE

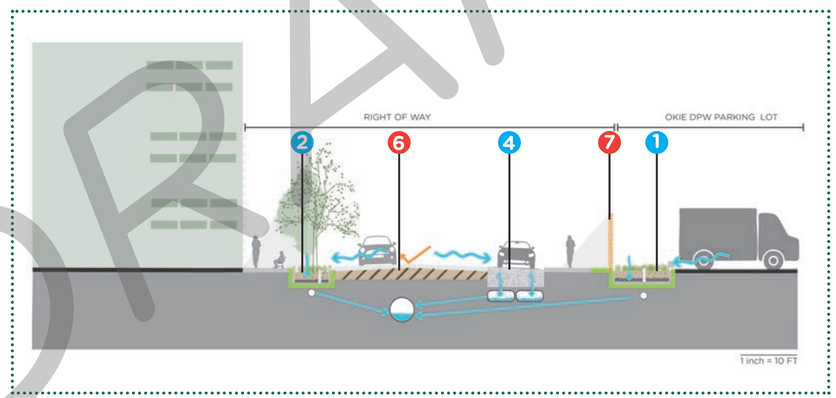


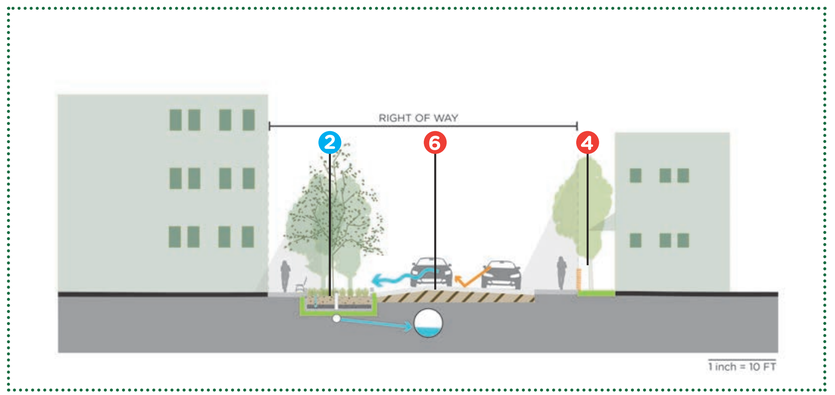
MARKET STREET
OKIE STREET NE



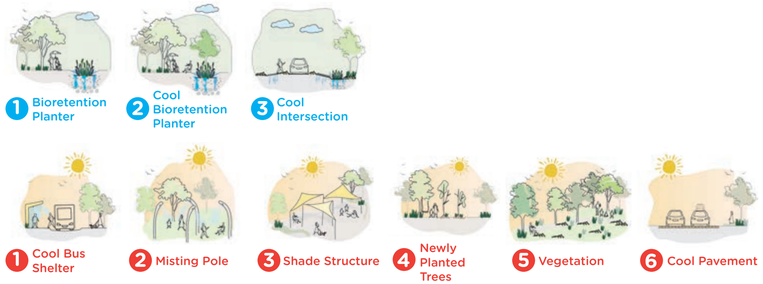
RESIDENTIAL STREET
KENDALL STREET NE



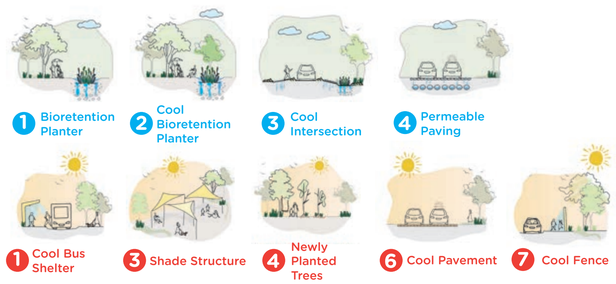




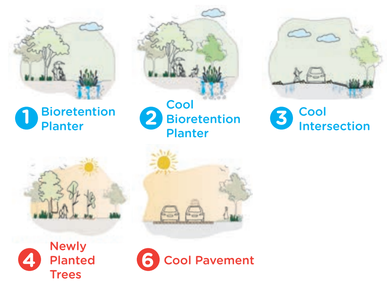
DESIGN ELEMENTS FOR THROUGH STREETS



DESIGN ELEMENTS FOR MARKET STREETS



DESIGN ELEMENTS FOR RESIDENTIAL STREETS

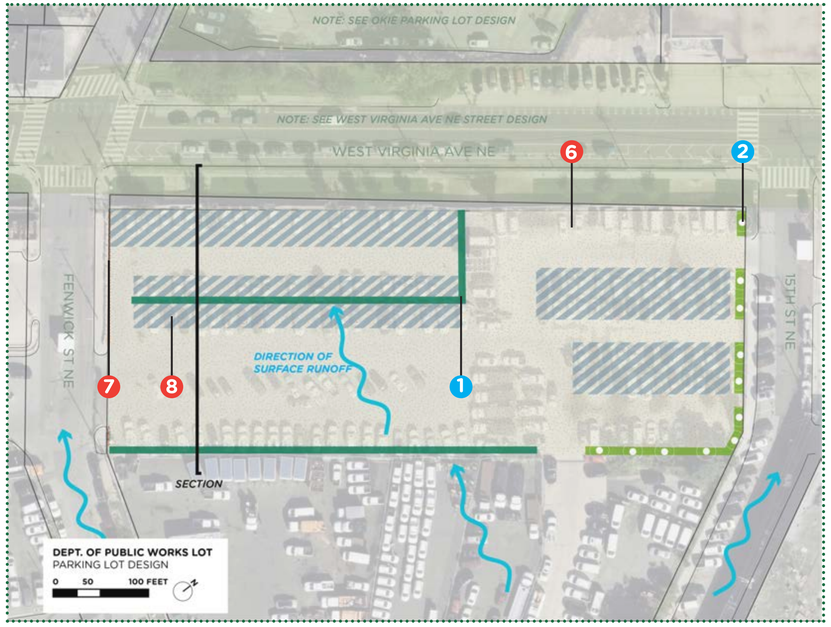


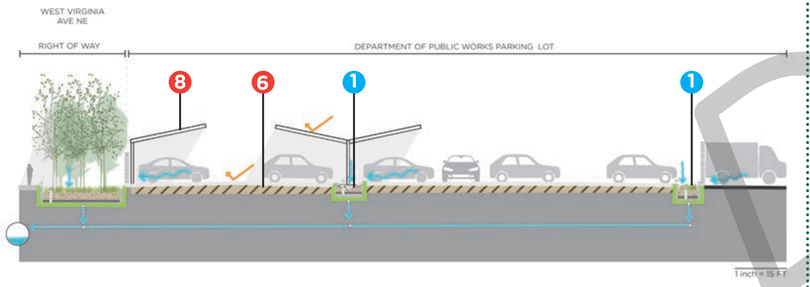
COOLING LOTS TO ADDRESS FLOODING AND HEAT

PARKING LOT TYPOLOGY PROCESS

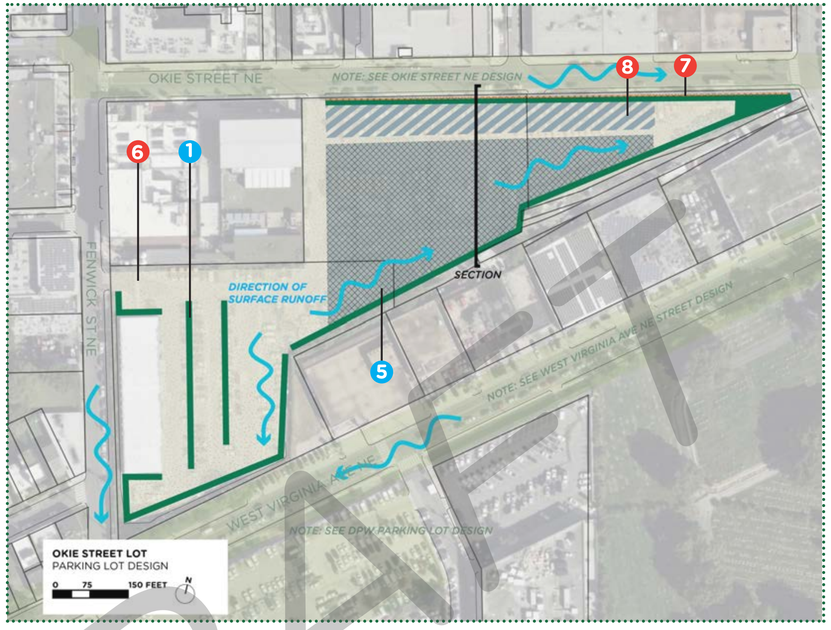
In the Blue Green Infrastructure Network Plan, some Ivy City parking lots are opportunities to become Cooling Lots. There are two types of Cooling Lots: Industrial Parking Lots and Privately Owned Parking Lots. Each type supports different uses and functions. For example, the Okie Street DPW Lot accommodates many trucks, while the Bethesda Baptist Church parking lot primarily sees cars coming and going. Each parking lot type includes various design elements that can be applied universally. These elements can then be implemented throughout the neighborhood based on the parking lot uses and typologies.

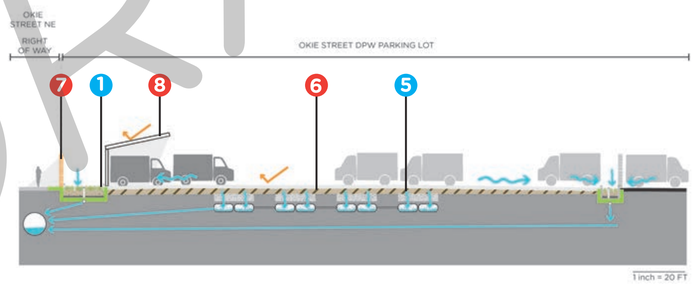
INDUSTRIAL PARKING LOT
DEPARTMENT OF PUBLIC WORKS LOT



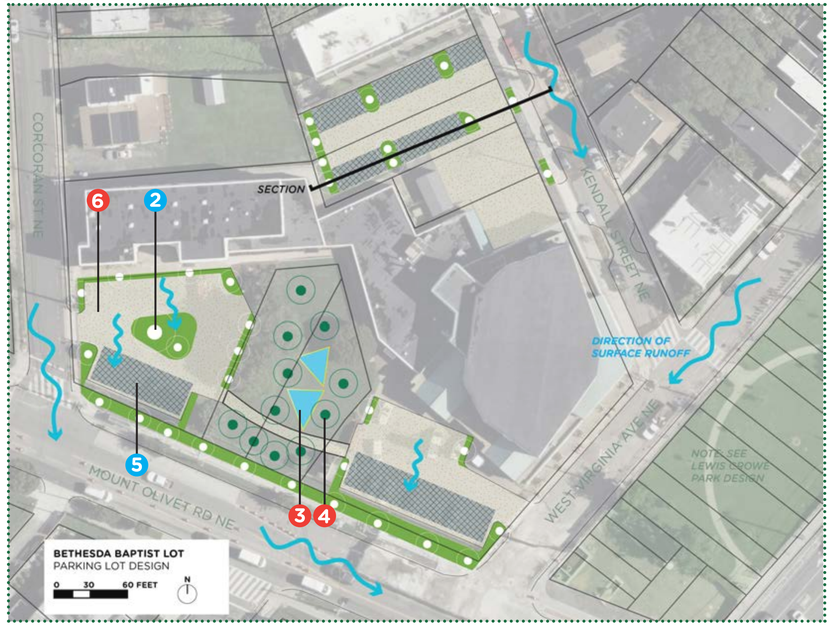


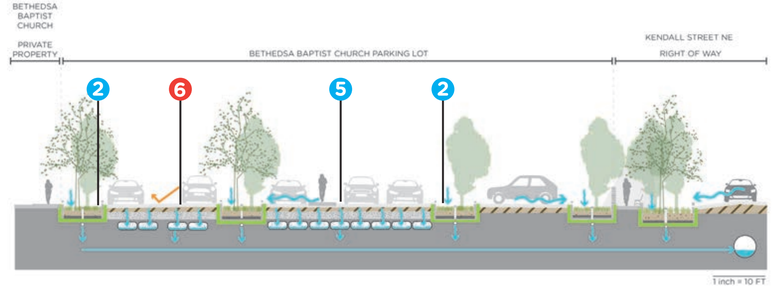
INDUSTRIAL PARKING LOT
OKIE STREET LOT





PRIVATE PARKING LOT
BETHESDA BAPTIST CHURCH





DESIGN ELEMENTS FOR INDUSTRIAL PARKING LOTS

1 Bioretention Planter
2 Cool Bioretention Planter
6 Cool Pavement
7 Cool Fence
8 Solar PV Canopy

DESIGN ELEMENTS FOR INDUSTRIAL PARKING LOTS

1 Bioretention Planter
5 Storage Cells
6 Cool Pavement
7 Cool Fence
8 Solar PV Canopy

DESIGN ELEMENTS FOR PRIVATE PARKING LOTS

2 Cool Bioretention Planter
5 Storage Cells
3 Shade Structure
4 Newly Planted Trees
6 Cool Pavement

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