

Climate Resilient Communities Project



CLEAN
AIR
COUNCIL



Agenda

- Welcome & Introductions
- Project Background
- Green Infrastructure Projects
- Olin Studio: Climate Resiliency Toolkit
- Next Steps
- Questions & Discussion
- Visioning

Marcus Hook Area Neighbors and Clean Air Council are participating in a two-year Climate Resilience Communities Project (CRCP) to better understand and address climate change threats to communities near polluting industrial sites along the Delaware River in Delaware County

- **Working with Olin Studio to model potential climate impacts to our region**
- **Empowering residents to utilize research findings to develop community based green infrastructure projects such as community gardens, tree plantings, etc.**
- **Advocating for policy changes to protect our communities from flooding and heat impacts as well as hazardous pollution from industrial sites throughout the impacted area.**





HOW DOES CLIMATE CHANGE IMPACT COMMUNITIES?

Climate change can impact communities by:

- Contributing to worsening air and water qualities
- Disrupting food supplies (drought and flooding), increased prices of food
- Increase in severe storms that can damage homes/businesses, energy and transportation infrastructure
- Increase risk of environmental disasters and public safety risks from impacted refineries and power plants etc
- Increase in certain diseases (i.e. tick and mosquito born)

Communities that are resilient to climate change are able to effectively prepare for and recover from its effects, and continue to thrive.

Communities can build resilience through:

- Housing: Building safe and durable shelter to withstand extreme weather.
- Growing food locally, building localized food distribution infrastructure
- Building localized energy grids, switching to renewable Wind, Water and Hydro energy infrastructure
- Instituting stringent pollution regulations, zoning regulations and land-use policy reforms that protect existing green space and requires new development to be climate conscious
- Building a strong sense of community with many networks of communication between neighbors, neighborhoods, and communities.

“THERE IS A RULE OF THUMB THAT FOR EVERY 10% MORE SURFACE COVERAGE OF VEGETATION, YOU COOL THE CITY BY HALF A DEGREE”

-Anna Solcerova Water management and urban climate researcher

Climate Resilient Communities Project

- Advisory board meeting monthly to discuss site locations, project planning, community and partner engagement and project design
- Final site selections in Trainer and Chester to be made by end of April
- Ongoing planning and development for project designs
- Site installations to take place over the summer
- Please reach out to Echo at ealford@cleanair.org to get involved!



CRCP Advisory Board



A close-up photograph of green leaves, some with water droplets, serving as a background for the title. The leaves are dark green and have a glossy texture. The title is centered over the image.

Green Infrastructure Projects

WHAT WE HEARD: GREEN INFRASTRUCTURE PROJECTS

Tree Planting Projects



Tree Philly

Dog Park



Seeger Dog Park, Philadelphia PA

Inclusive Playground



Rose Tree Park, Upper Providence Township PA

Storybook Walk



Raintree Park, Troy MI

Peace Park



Philly Peace Park, Philadelphia PA

Community Garden/Planters



Upper Darby Community Garden

Food Forest/Orchard



Beacon Food Forest, Seattle WA

Nature Spaces



Bartrams Garden, Philadelphia PA



**Raised beds &
Fruit trees**

Splash Pad

**Story Circle
w/ Little Free
Library**

Story Book Walk

**Pollinator
garden**

SITE PRIORITIZATION

OWNERSHIP

Are the parcels publicly or privately owned?

EXISTING USE

What is the current use of the site? (Is it vacant, a park, etc)

ENVIRONMENTAL FACTORS

Is the parcel near industrial facilities, has legacy pollution, in an existing or future flood prone area, or in an area with high urban heat island effect?

COMMUNITY SUPPORT

Are there community champions advocating for this site?

EASE OF IMPLEMENTATION

Can the project be easily implemented or will it take more time or resources?

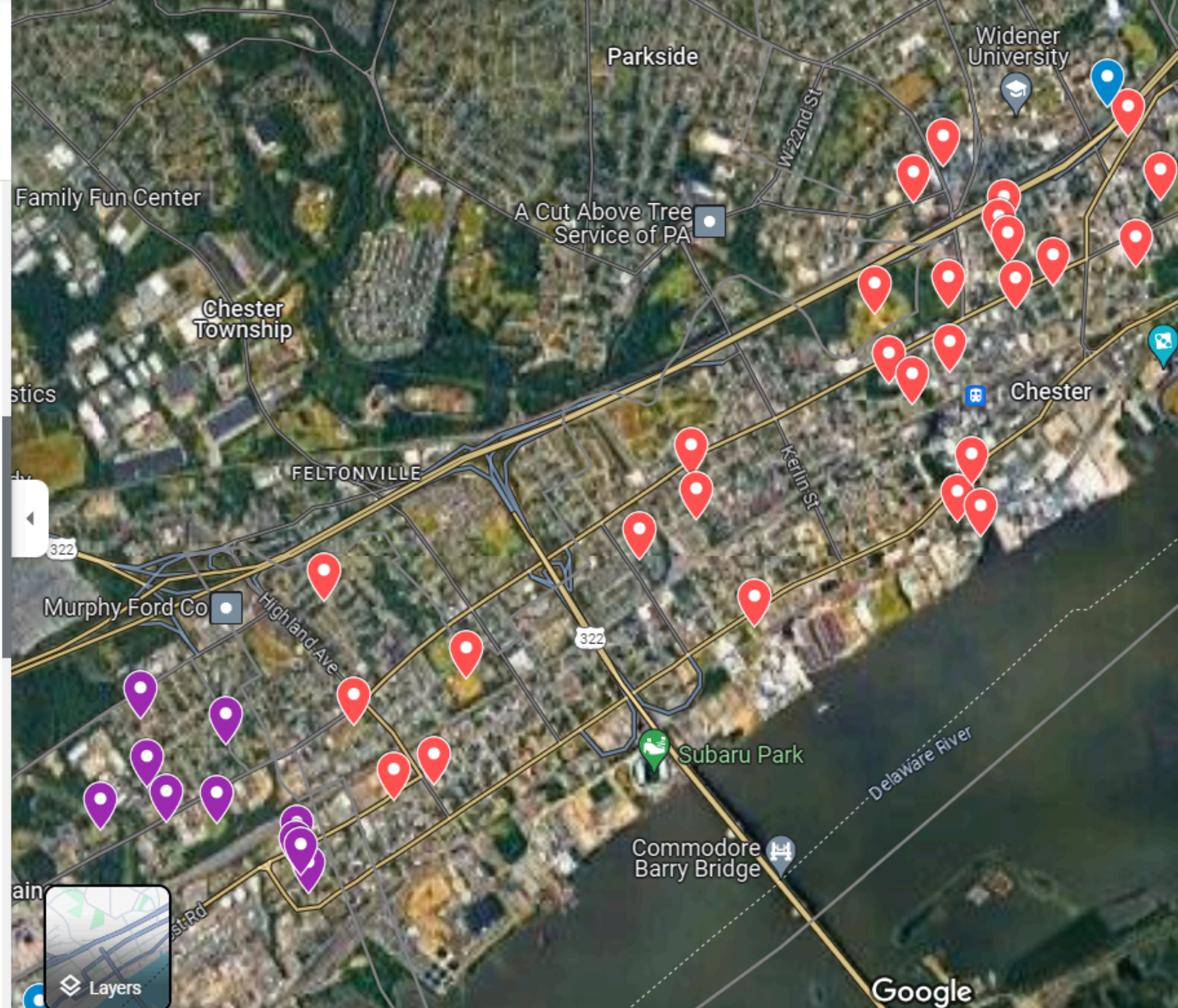
What site approvals are needed? (Municipal permits, owner permission, etc)

Climate Resilient Communities: Potentia...



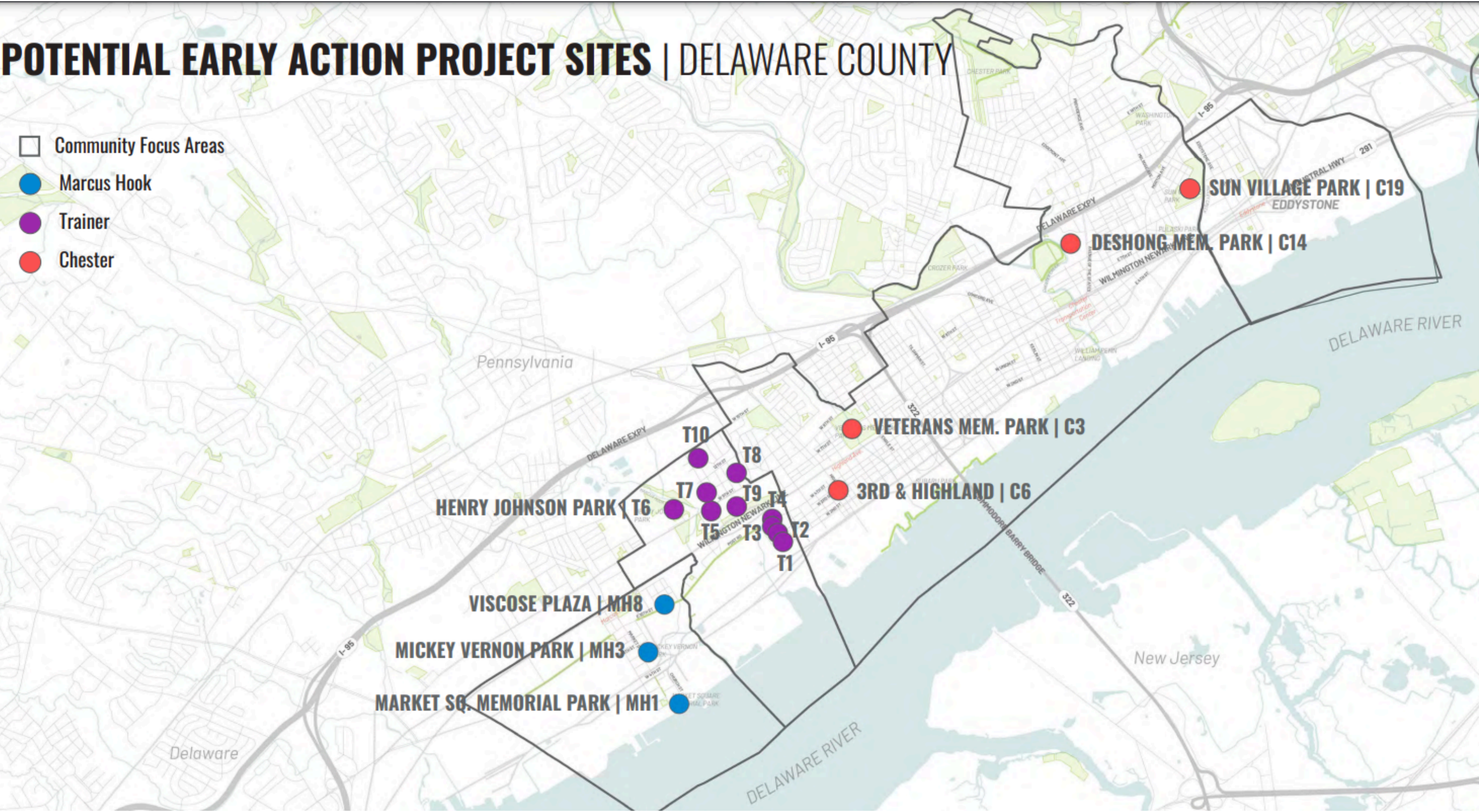
Chester

- 📍 C1 - Comisiak Playground - Union St & Harwick...
- 📍 C2 - Old School Lot - 7th St & Grace St
- 📍 C3 - Veterans Memorial Park
- 📍 C4 - Highland Gardens Playground
- 📍 C5 - Vacant Site - Around 113 Lamokin St
- 📍 C6 - Vacant Site - W 3rd St & Highland Ave
- 📍 C7 - Four Seasons Playground - Woodrow St & ...
- 📍 C8 - 8th & Lloyd Playground - 1100-1114 W 8th...
- 📍 C9 - Vacant Site - W Front St & Chester Creek
- 📍 C10 - William Penn Landing Site
- 📍 C11 - Ethel Waters Park
- 📍 C12 - Basketball Courts - 621-623 Penn St
- 📍 C13 - Vacant Site - 27 E 7th St
- 📍 C14 - Deshong Memorial Park
- 📍 C15 - Chester HS Site



POTENTIAL EARLY ACTION PROJECT SITES | DELAWARE COUNTY

- Community Focus Areas
- Marcus Hook
- Trainer
- Chester



SITE C14 | DESHONG MEMORIAL PARK



OWNERSHIP

- ☒ Publicly Owned
- ☐ Privately Owned

EXISTING USE

- Park

ENVIRONMENTAL FACTORS

- ☐ Near Industrial Facilities
- ☐ Legacy Pollution
- ☐ In Existing Flood Prone Area
- ☒ High Sidewalk and Street Tree Priority Score

COMMUNITY SUPPORT

- ☒ Yes
- ☐ Not Yet Identified

EASE OF IMPLEMENTATION

- Publicly owned land currently operated as a park
- Will need county approval
- Stewarded by Delaware County Commerce Center

SUN VILLAGE PARK



Site C19 Sun Village Park resident feedback previously given

Residents suggestions focused on fixing what is already in the park as follows:

- Reopen the building in the park to serve as an environmental, recreational, and educational center
- Repair the restrooms in the building and keep them open to give visitors the sense that the park is well-maintained.
- Repair grills in the park so neighbors have a reason to come to the park for cook-outs.
- Fix the basketball courts in the park because they offer a great recreational opportunity

Recommended additions to the park include:

- Add a splash pad
- Install better play equipment
- Put in an adult fitness area, and
- Create a community garden. The urban farming element would be key to providing active, healthy living through the provision of places and education about growing your own food.

Sun Village Park



Sun Village Park

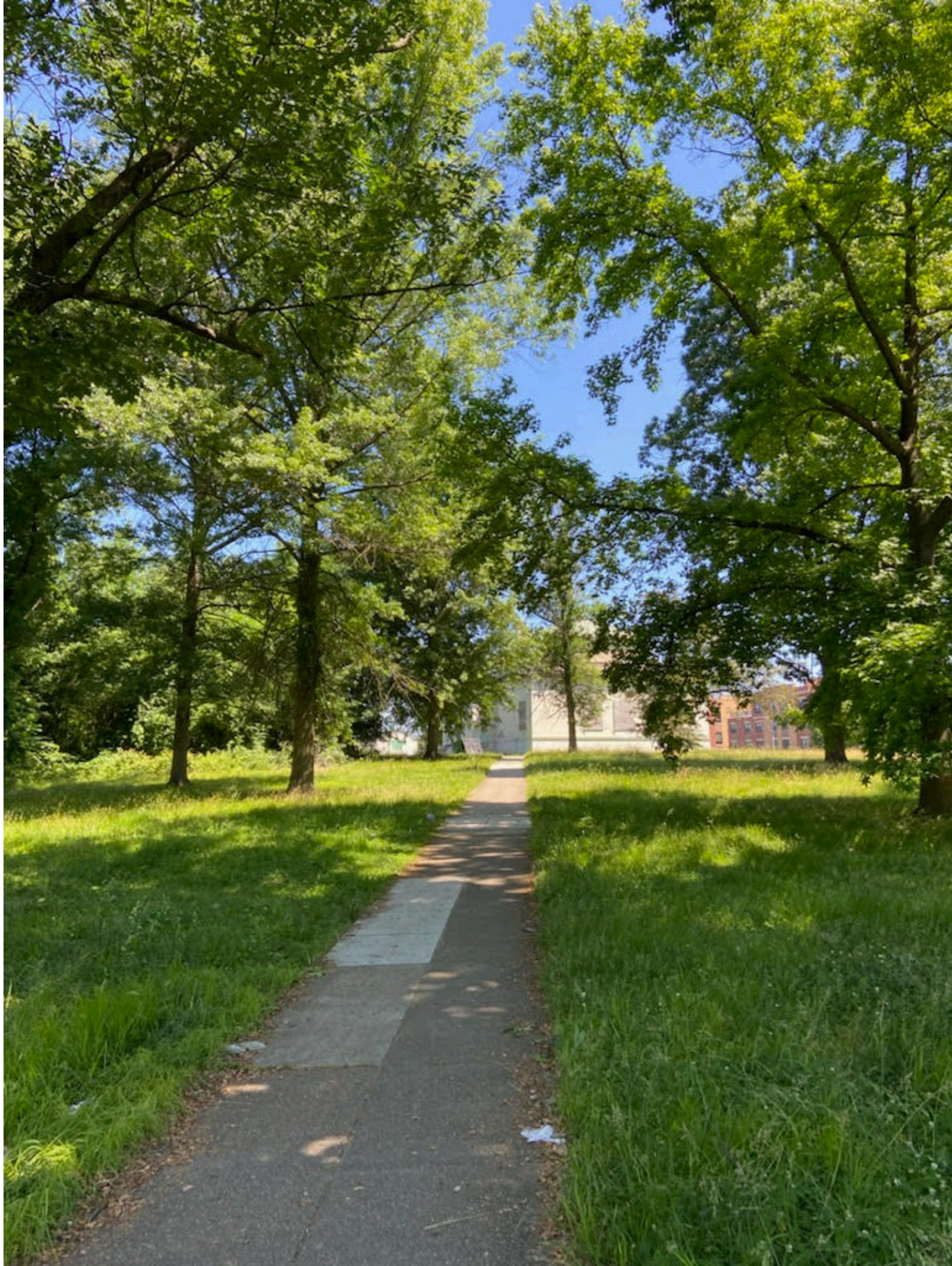
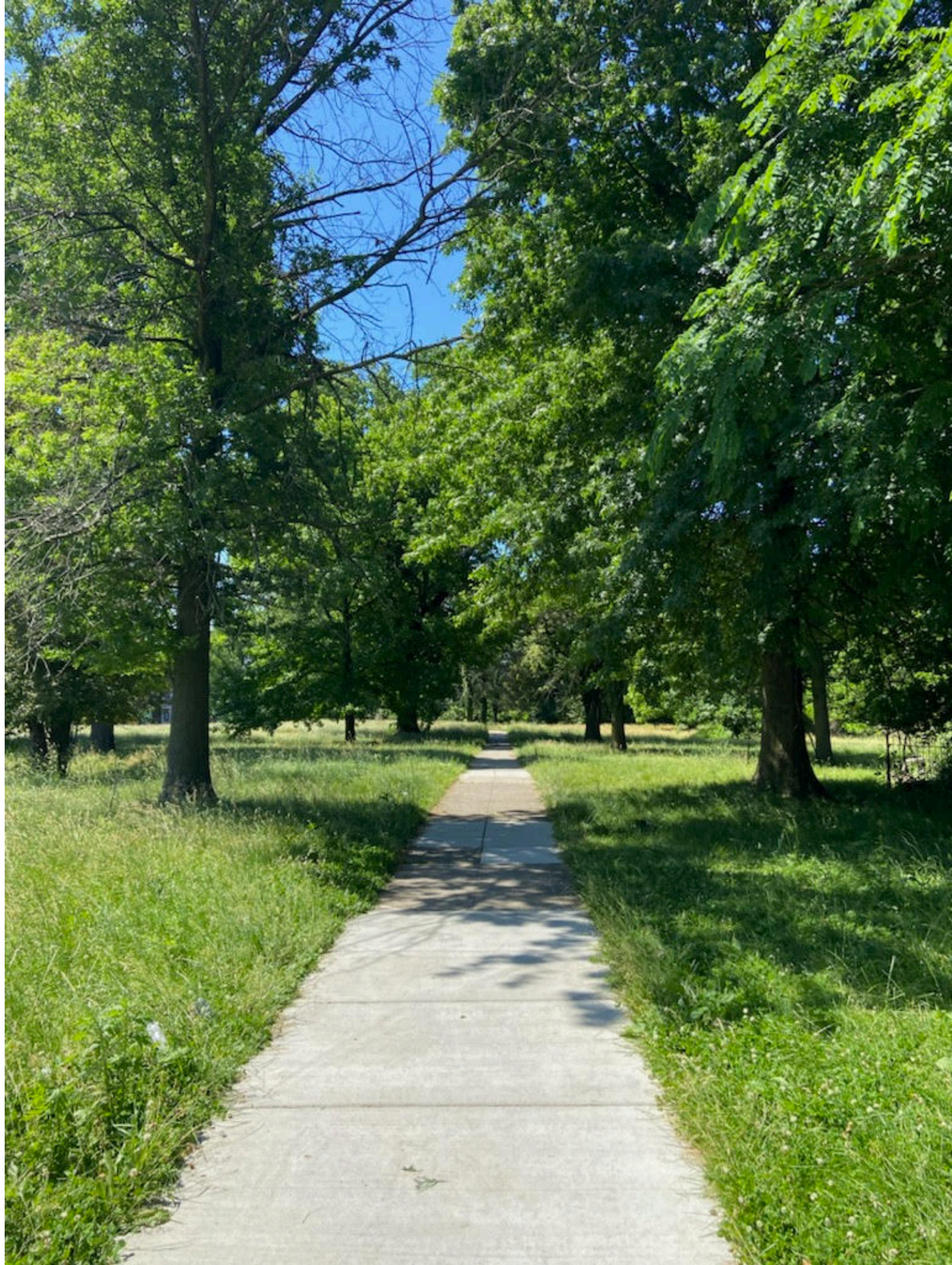


Sun Village Park



Deshong Park





CLIMATE RESILIENCY TOOLKIT EARLY ACTION PROJECT ELEMENTS



CLIMATE RESILIENCY TOOLKIT

EARLY ACTION PROJECT ELEMENTS

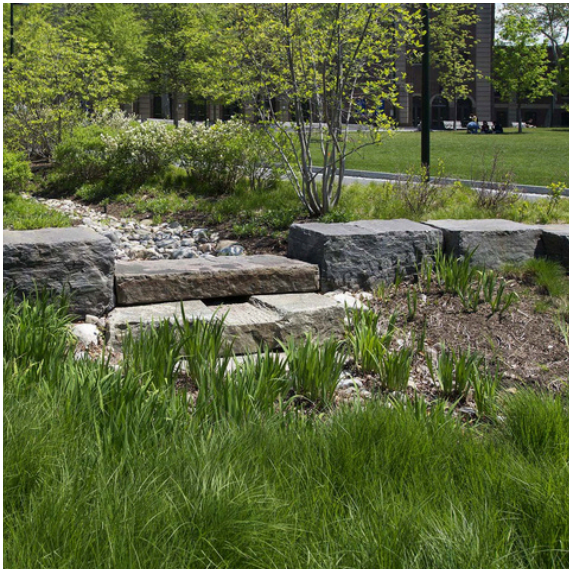
Green Infrastructure



SHRUBS



TREES



SWALES/DRAINAGE TRENCH



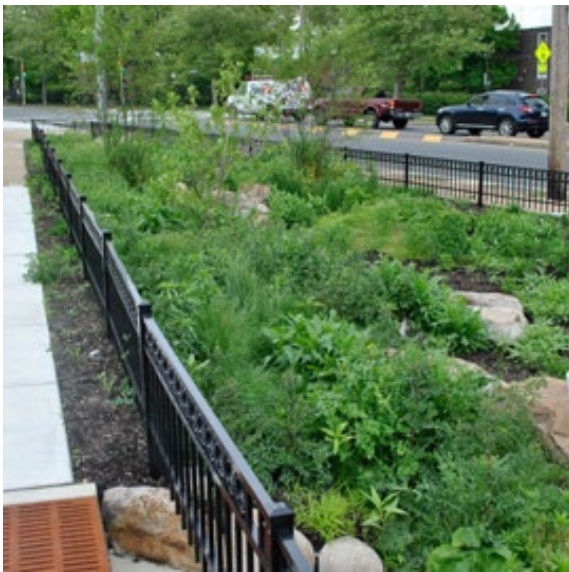
CONSTRUCTED WETLANDS



GARDEN PLANTERS



PERMEABLE PAVING



RAIN GARDENS



STORMWATER BUMP-OUTS

EARLY ACTION ←————→ FUTURE PHASE

EARLY ACTION PROJECT ELEMENTS GREEN INFRASTRUCTURE

Shrubs & Trees



Permeable Paving



Garden Planters



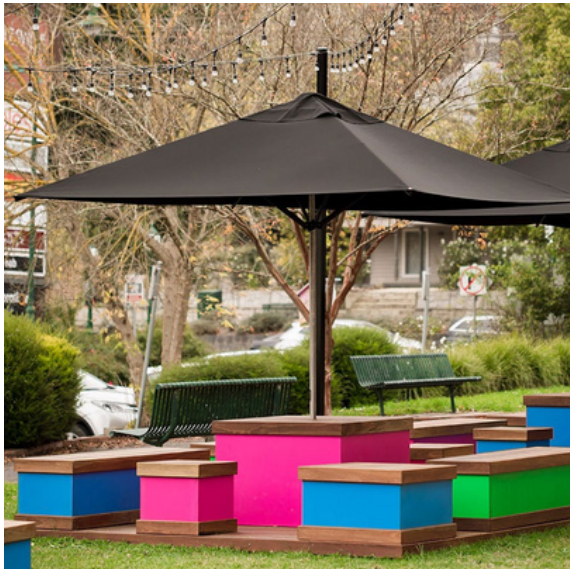
CLIMATE RESILIENCY TOOLKIT

EARLY ACTION PROJECT ELEMENTS

Basic Park Amenities



SEATING & TABLES



SHADE



PLAY



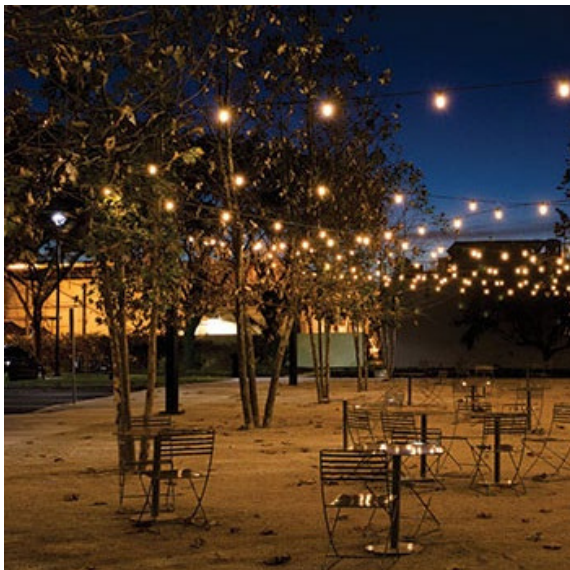
ART



PERFORM



SIGNAGE



LIGHTING



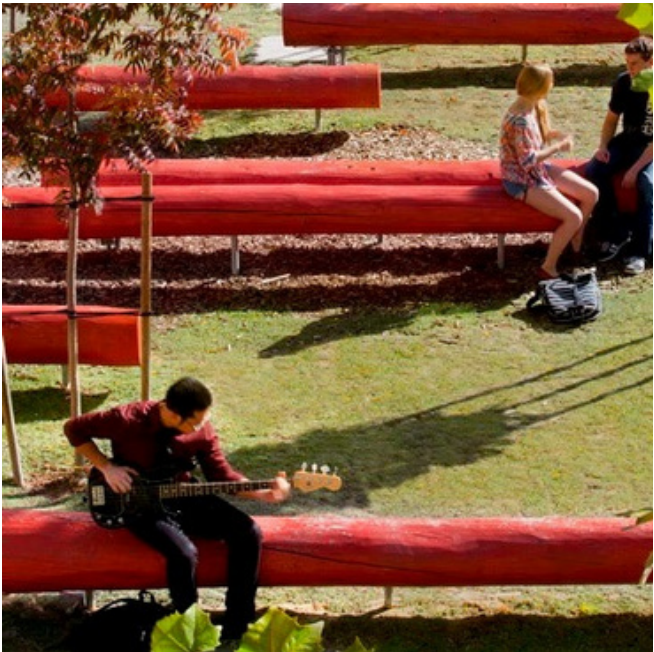
STORAGE



FENCING

EARLY ACTION PROJECT ELEMENTS BASIC PARK AMENITIES

Seating & Tables

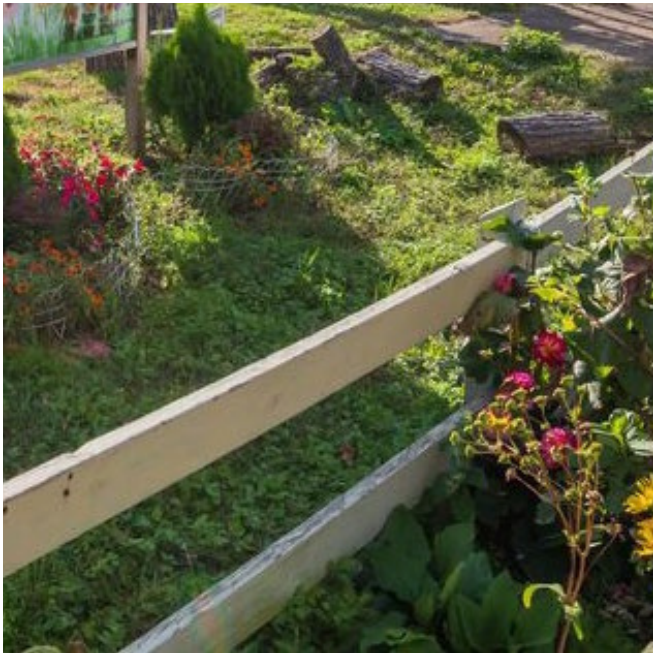


EARLY ACTION PROJECT ELEMENTS BASIC PARK AMENITIES

Shade



Fencing/Barriers



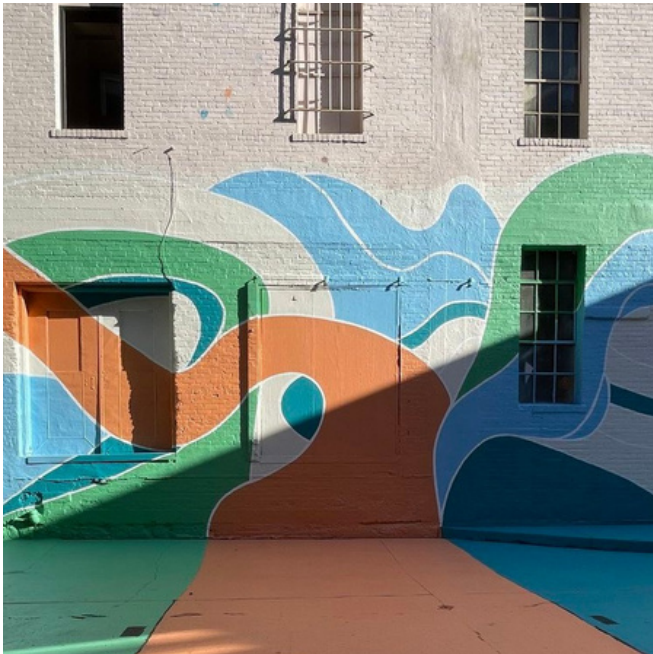
EARLY ACTION PROJECT ELEMENTS BASIC PARK AMENITIES

Play



EARLY ACTION PROJECT ELEMENTS BASIC PARK AMENITIES

Art

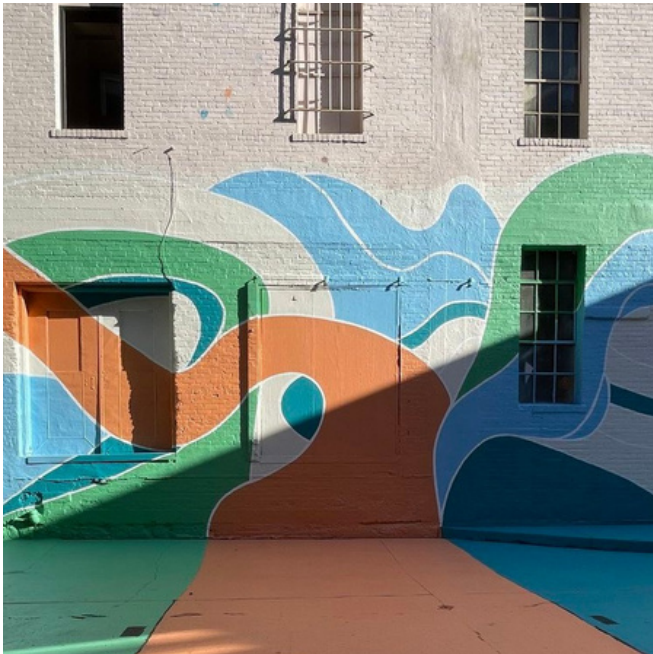


Performance



EARLY ACTION PROJECT ELEMENTS BASIC PARK AMENITIES

Art

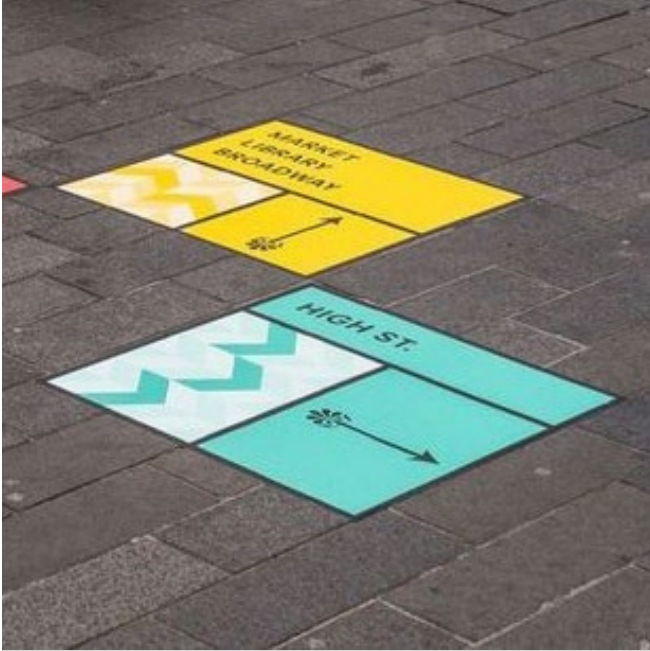


Performance



EARLY ACTION PROJECT ELEMENTS BASIC PARK AMENITIES

Signage



EARLY ACTION PROJECT ELEMENTS BASIC PARK AMENITIES

Lighting

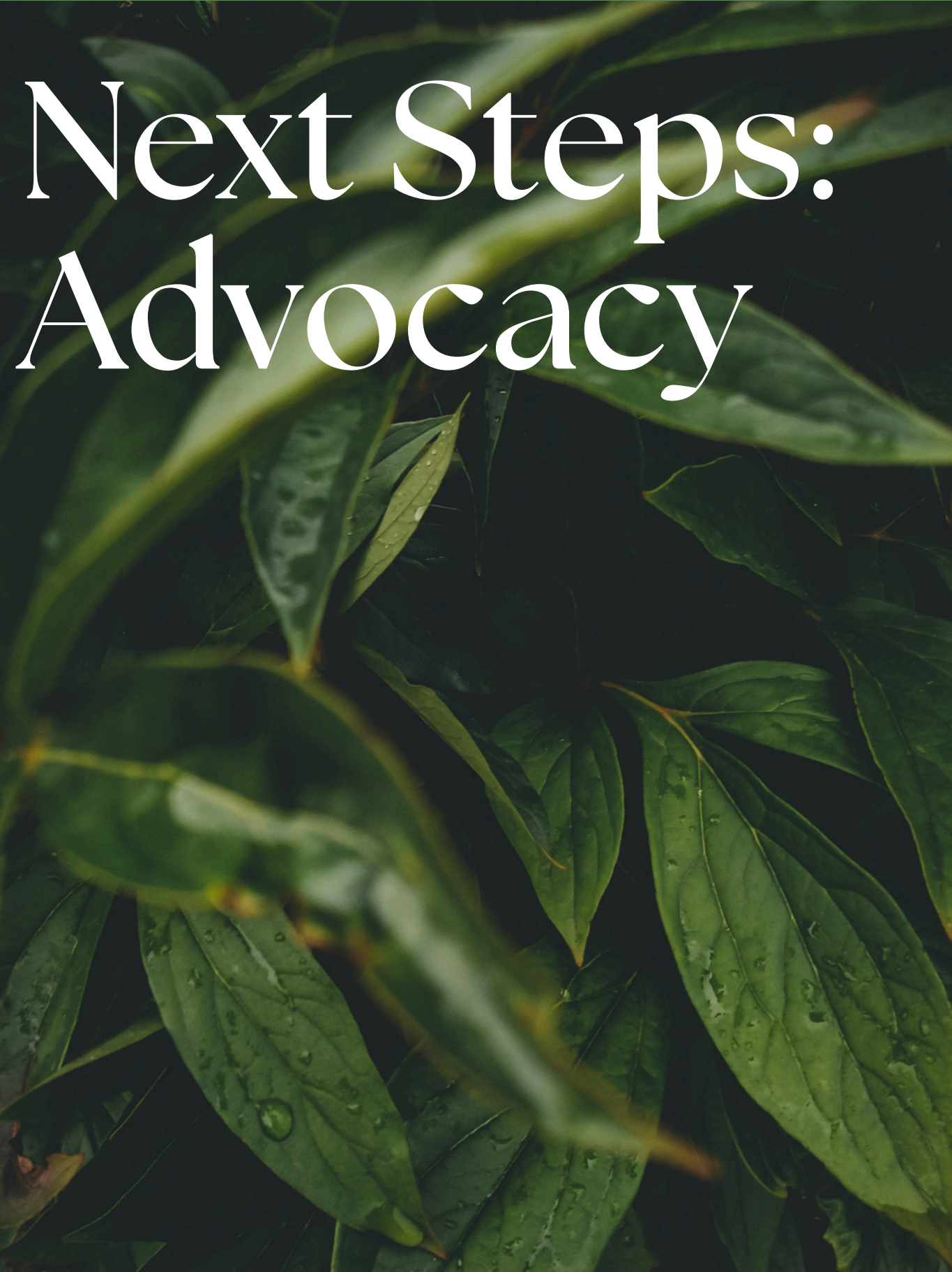


Storage



Next Steps: Implementing Projects

- **TONIGHT!! Visioning green infrastructure site enhancements with community members**
- **Determine which project(s) will be prioritized for immediate implementation**
- **Timeline for implementation plan in 2024**
- **Opening event**
- **Plan for long term care of the project**



Next Steps: Advocacy

- **Encourage county and municipal level investments in larger scale green infrastructure projects**
- **Seek collaboration and funding to enhance and sustain projects long-term**
- **Advocate for policy changes to protect our communities from Climate impacts**
- **Establish a community bill of rights for Climate resiliency**

QUESTIONS
&
DISCUSSION

A close-up photograph of a green leaf, likely from a grass or similar plant, covered in numerous small, clear water droplets. The leaf is curved and occupies the lower half of the frame. The background is a soft, out-of-focus green, suggesting a natural setting. Overlaid on the upper half of the image is a white rectangular box containing the word "VISIONING" in a white, serif, all-caps font.

VISIONING

A close-up photograph of several green leaves, likely from a plant like a philodendron, covered in numerous small, glistening water droplets. The leaves are a vibrant green, and the droplets catch the light, creating a fresh and natural feel. The background is dark and out of focus, making the leaves and the text stand out. The text 'THANK YOU' is centered horizontally and overlaid on the leaves in a white, elegant serif font.

THANK YOU