GREEN INFRASTRUCTURE INITIATIVE

an effort of the
Rutgers Cooperative Extension
Water Resources Program

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WATER RESOURCES PROGRAM

The Water Resources Program is one of many specialty programs under Rutgers Cooperative Extension (RCE). The goal of the RCE Water Resources Program is to provide solutions for the water quality and quantity issues that New Jersey faces today. This is accomplished through research, project development, assessment, and extension. In addition to preparing and distributing Fact Sheets, we provide educational programming in the form of lectures, seminars, and workshops as part of our outreach to citizens. With New Jersey Agriculture Experiment Station funding and other State and Federal sources, we conduct research and demonstration projects that will ultimately be used by stakeholders to improve and protect water resources in New Jersey.

The Green Infrastructure Initiative

Water and sewer infrastructure systems in many communities throughout New Jersey are reaching the end of their functional life and will need repair and replacement over the next decade. Opportunities exist to reduce costs for replacing this aging infrastructure using new techniques and technologies, better preparing the state for a sustainable future. Infrastructure planning and design approaches are needed that reduce demand on existing infrastructure, extend its functional life where possible, and provide cost-effective and sustainable solutions that conserve and protect water resources while improving the quality of life of our citizens.

The Green Infrastructure Initiative works to establish partnerships to provide targeted assistance to communities throughout New Jersey. Examples of our ongoing efforts, include:

- Sustainable South Bronx Training and Demonstration Projects
- Environmental Justice for the City of Newark
- The Cooper River Stormwater Education & Implementation Plan
- Green Infrastructure for Camden

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WHAT IS GREEN INFRASTRUCTURE?

Green infrastructure is an approach to wet weather management that is cost-effective, sustainable, and environmentally friendly. Green Infrastructure management approaches and technologies infiltrate, evapotranspire, capture and reuse stormwater to maintain or restore natural hydrologies. USEPA. 2009. Green Infrastructure Manual.

At the largest scale, the preservation and restoration of natural landscape features (such as forests, floodplains and wetlands) are critical components of green stormwater infrastructure. By protecting these ecologically sensitive areas, communities can improve water quality while providing wildlife habitat and opportunities for outdoor recreation.

Green infrastructure design approaches effectively divert stormwater from the sewer system and direct it to areas where it can be infiltrated, evapotranspirated or re-used. Green infrastructure is designed to keep rainwater out of the sewer system so that it does not contribute to a sewer overflow and also to reduce the amount of untreated stormwater discharging to surface waters. These approaches are often referred to as "green infrastructure" because soil and vegetation are used instead of, or in addition to, pipes, pumps, storage tunnels, and other "hard infrastructure."

Rain Garden Installation
South Bronx, NY

Rain Barrel Workshop
Lincoln Park, Newark, NJ

Water Harvesting System
Samuel Mickle Elementary School
East Greenwich, NJ

EXAMPLES OF GREEN INFRASTRUCTURE & DESIGN APPROACHES

SITE

- Green Roofs
- Rainwater Harvesting
- Downspout Disconnection
- Planter Boxes
- Rain Gardens
- Permeable Pavements
- Vegetated Swales
- Natural Retention Basins

NEIGHBORHOOD

- Green Parking
- Green Streets & Highways
- Pocket Wetlands
- Trees & Urban Forestry
- Brownfield Redevelopment
- Infill & Redevelopment

WATERSHED

- Riparian Buffers
- Habitat Preservation & Restoration

Natural Retention Basins

Rain Gardens

Vegetated Swales

Green Roofs

Permeable Pavements

Rainwater Harvesting

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THE COOPER RIVER STORMWATER EDUCATION & IMPLEMENTATION PLAN

The RCE Water Resources Program in partnership with the Camden County Soil Conservation District is working to implement the Regional Stormwater Management Plan for the Cooper River Watershed. The Plan has identified opportunities for the implementation of stormwater best management practices and management strategies to reduce peak flows from high frequency storms. Priorities include targeting stakeholder groups who can take an active role in addressing impairments via small scale and grass-roots projects striving to demonstrate and evaluate effectiveness of rain garden educational programs at the watershed scale.

With funding provided through the NJDEP 319h grant program, the project will demonstrate and evaluate how rain garden educational programs can improve water quality and quantity within the Cooper River Watershed. Efforts are focused on three main objectives and will include the implementation of 50 rain gardens throughout the watershed:

- Implementing a Stormwater Management in Your School Yard program in at least three school systems. Providing the opportunity for students to apply their science, math, and communication skills to real-world environmental problems;
- Educate stakeholders to install and manage rain gardens using the Stormwater Management In Your Backyard program;
- Training New Jersey Landscape Professionals through a rain garden installation certification program and providing the industry leaders with the knowledge to offer rain garden installations to their clients.

Rain Garden Installation
Cherry Hill Department of Public Works
Cherry Hill, NJ
May 11, 2010

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GREEN INFRASTRUCTURE FOR CAMDEN

OVERVIEW

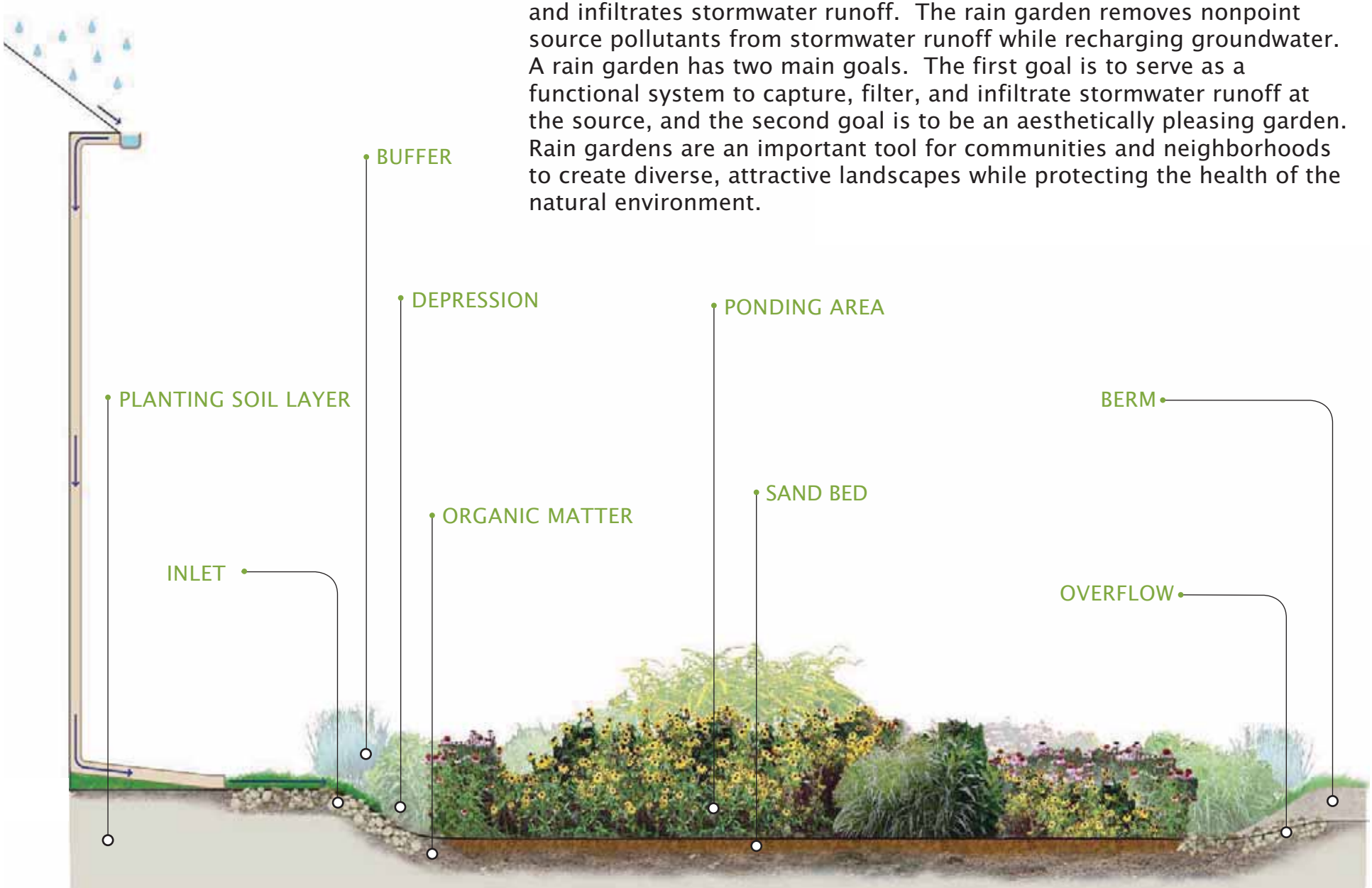
The Camden County Municipal Utilities Authority (CCMUA) in partnership with the Rutgers Cooperative Extension Water Resources Program proposes to pilot a community-based initiative implementing green infrastructure projects throughout the City of Camden and Gloucester City to reduce impacts to waterways and neighborhoods from combined sewer overflows, flooding, and sewer backups into private properties. The initial target will be to implement pilot rain garden and green infrastructure projects to prevent one (1) million gallons of stormwater from reaching the combined sewers in the City of Camden and Gloucester City. The program will include:

- Educating community leaders, businesses, and residents on the benefits and opportunities for green infrastructure projects;
- Providing training to local contractors and residents on green infrastructure installation techniques; and
- Establishing a network of community-based organizations to provide capacity for continual growth and expansion of the program.

Rain Garden Installation
Sumner Elementary School
Camden, NJ
June 21, 2010

WHAT IS A RAIN GARDEN?

A rain garden is a landscaped, shallow depression that captures, filters, and infiltrates stormwater runoff. The rain garden removes nonpoint source pollutants from stormwater runoff while recharging groundwater. A rain garden has two main goals. The first goal is to serve as a functional system to capture, filter, and infiltrate stormwater runoff at the source, and the second goal is to be an aesthetically pleasing garden. Rain gardens are an important tool for communities and neighborhoods to create diverse, attractive landscapes while protecting the health of the natural environment.



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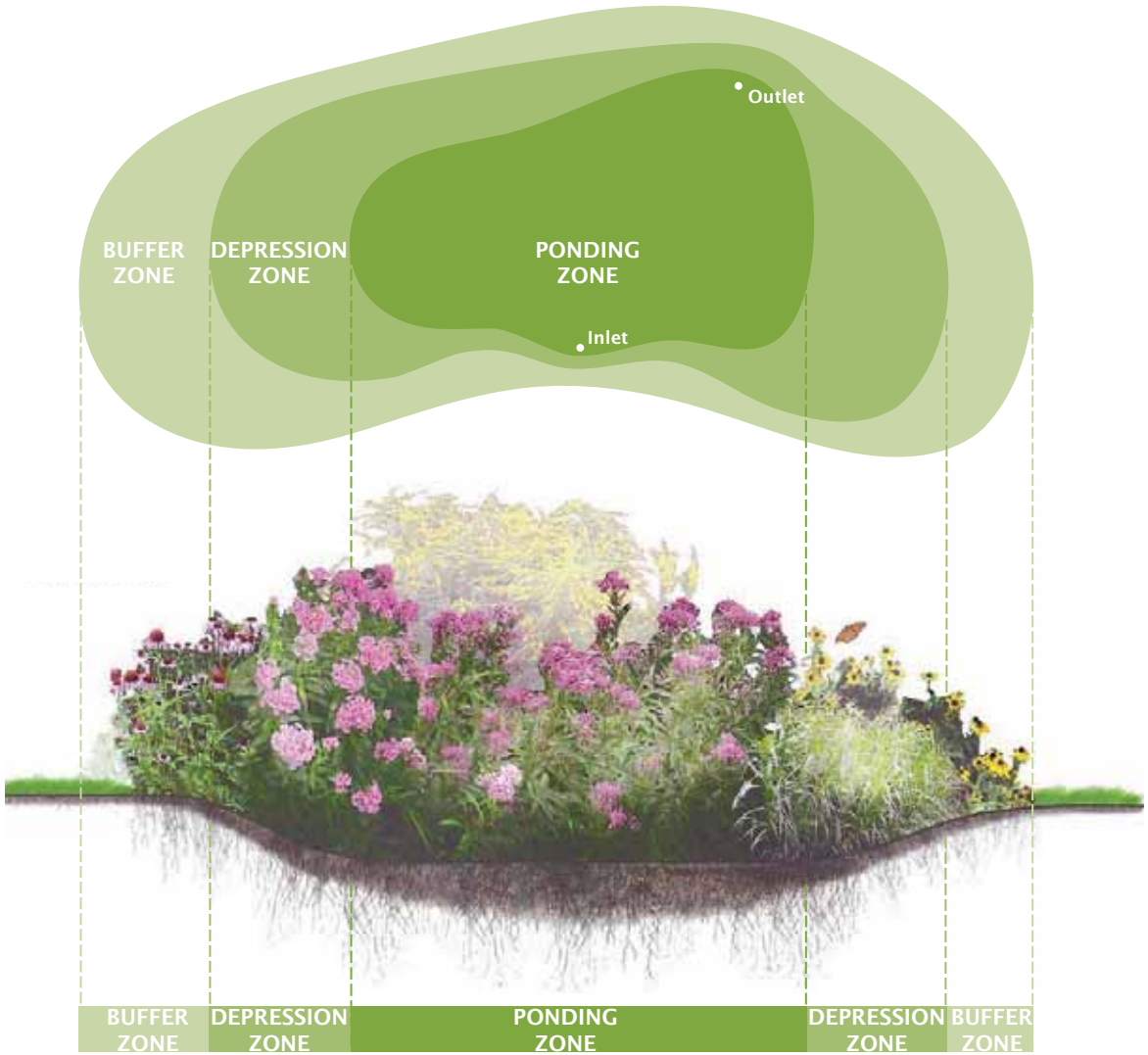
RAIN GARDEN BENEFITS

- Protect communities from flooding and combined sewer overflows
- Control stormwater and nonpoint source pollution while adding to the aesthetics of the landscape
- Can be placed in strategic areas to capture rainfall and disconnect roof and impervious runoff from storm sewer system
- Reduced maintenance costs
- Recharge groundwater sources
- Use native plants that are water and climate tolerant requiring minimal maintenance
- Provide valuable wildlife habitat for beneficial insects and songbirds



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SUMNER ELEMENTARY SCHOOL
Rain Garden

Sumner Elementary School
1600 South 8th St
Camden, NJ

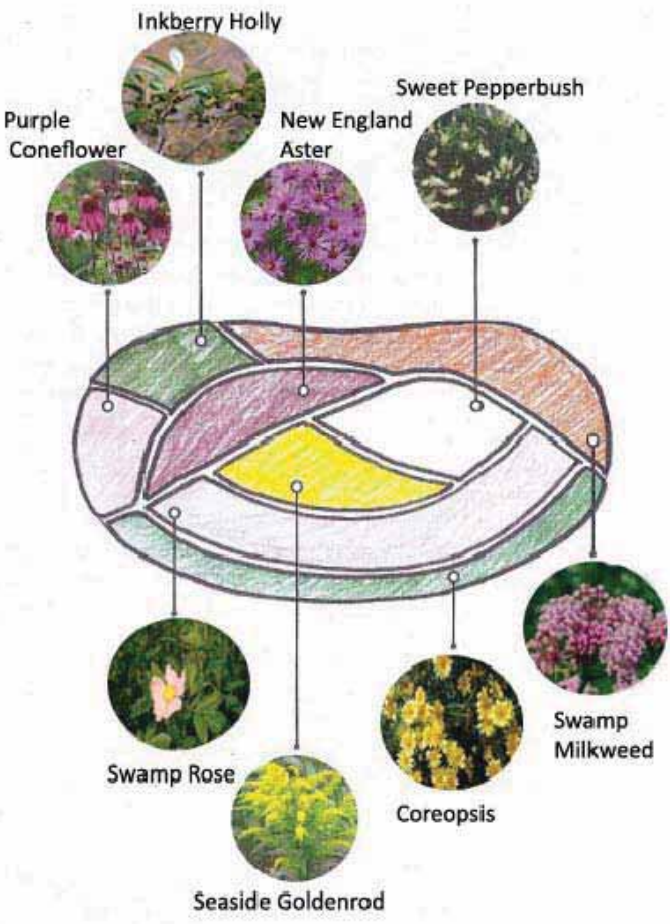
Plant List

Purple Coneflower (*Echinacea purpurea*)
Inkberry Holly (*Ilex glabra*)
New England Aster (*Aster novae-angliae*)
Sweet Pepperbush (*Clethra alnifolia*)
Swamp Rose (*Rosa palustris*)
Seaside Goldenrod (*Solidago sempervirens*)
Coreopsis (*Coreopsis lanceolata*)
Swamp Milkweed (*Asclepias incarnata*)

Rain Garden Design

- 250 square feet
- 6 inches deep
- 12 inches of soil excavated
- 3 inches of topsoil/compost added to amend existing soils
- 3 inches of mulch spread
- Collects rooftop runoff from the downspout located at the corner of the building.

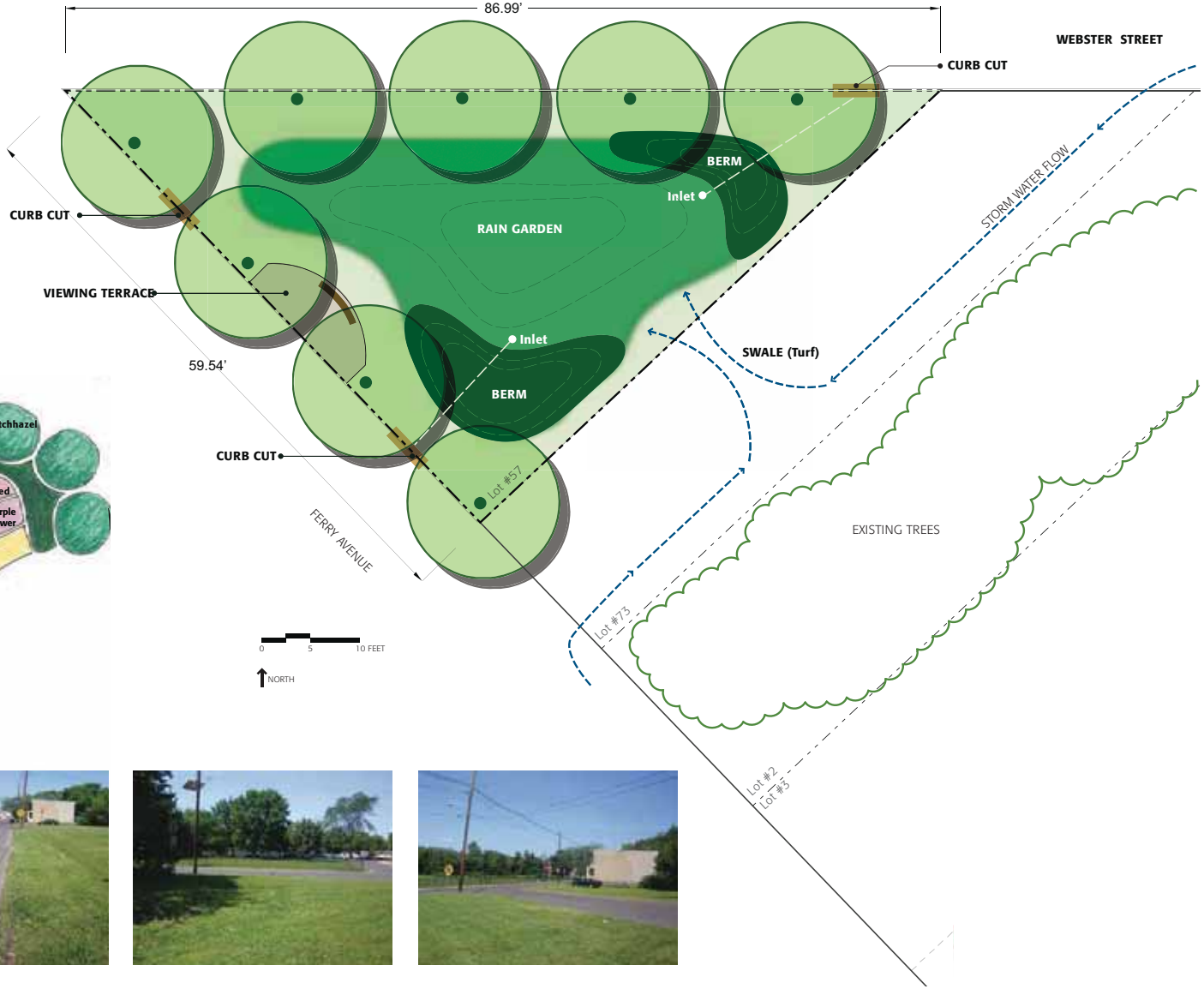
Rain Garden Layout



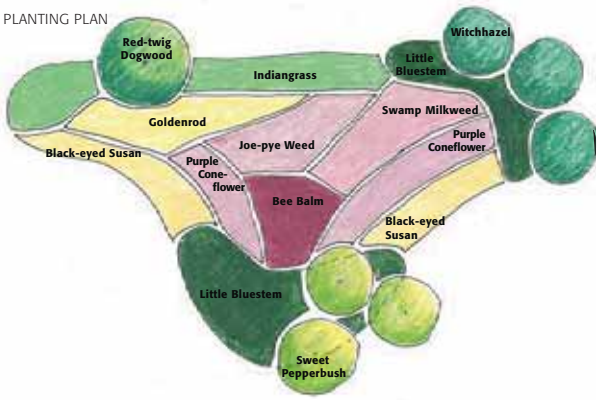
CCMUA FERRY AVENUE
Conceptual Site Plan

This rain garden will be constructed to capture and treat runoff from surrounding roadways to reduce nuisance street flooding in this low-lying neighborhood and protect water quality of the nearby waterways.

SITE CONTEXT



RAIN GARDEN PLANTING PLAN



EXISTING SITE CONDITIONS

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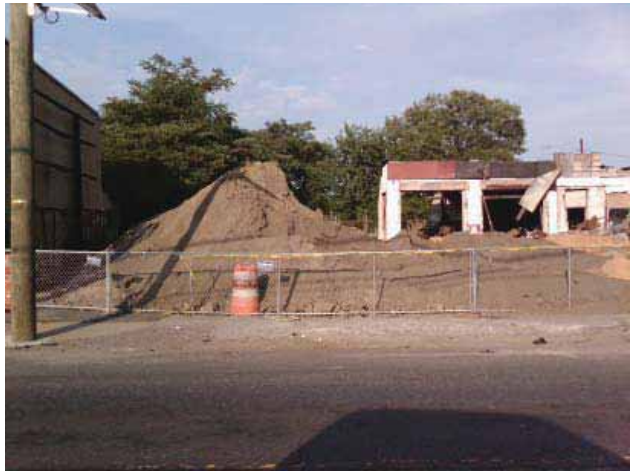
CAMDEN GREEN GATEWAY PROJECT

Project Overview

The RCE Water Resources Program has partnered with the CCMUA to develop a community-based open space plan for the former fueling station located at the corner of Broadway and Chelton Avenue. The CCMUA is leading an effort with support from NJDEP to remediate this corner property and provide a "Green Gateway Entry" to the community of Waterfront South. The RCE Water Resources Program is preparing the conceptual design plan outlining recommended improvements for the property to serve as an open space amenity to the local community. This "Green Solution" will integrate rain gardens into the site to reduce stormwater discharges to the combined sewer system and protect water quality. The rain gardens will be constructed with support from local residents to serve as a demonstration for other neighborhoods throughout Camden on how cost-effective green infrastructure solutions can be integrated into parks and open spaces as well as reclaimed vacant and abandoned properties once demolition, debris removal, and clean up is completed. Including green infrastructure techniques and technologies as part of redevelopment programs in New Jersey's urban communities provide multiple environmental benefits and can help local communities realize the potential of underutilized sites making them a true community amenity and resource for local residents.

Chelton Avenue Existing Conditions
April 22, 2010

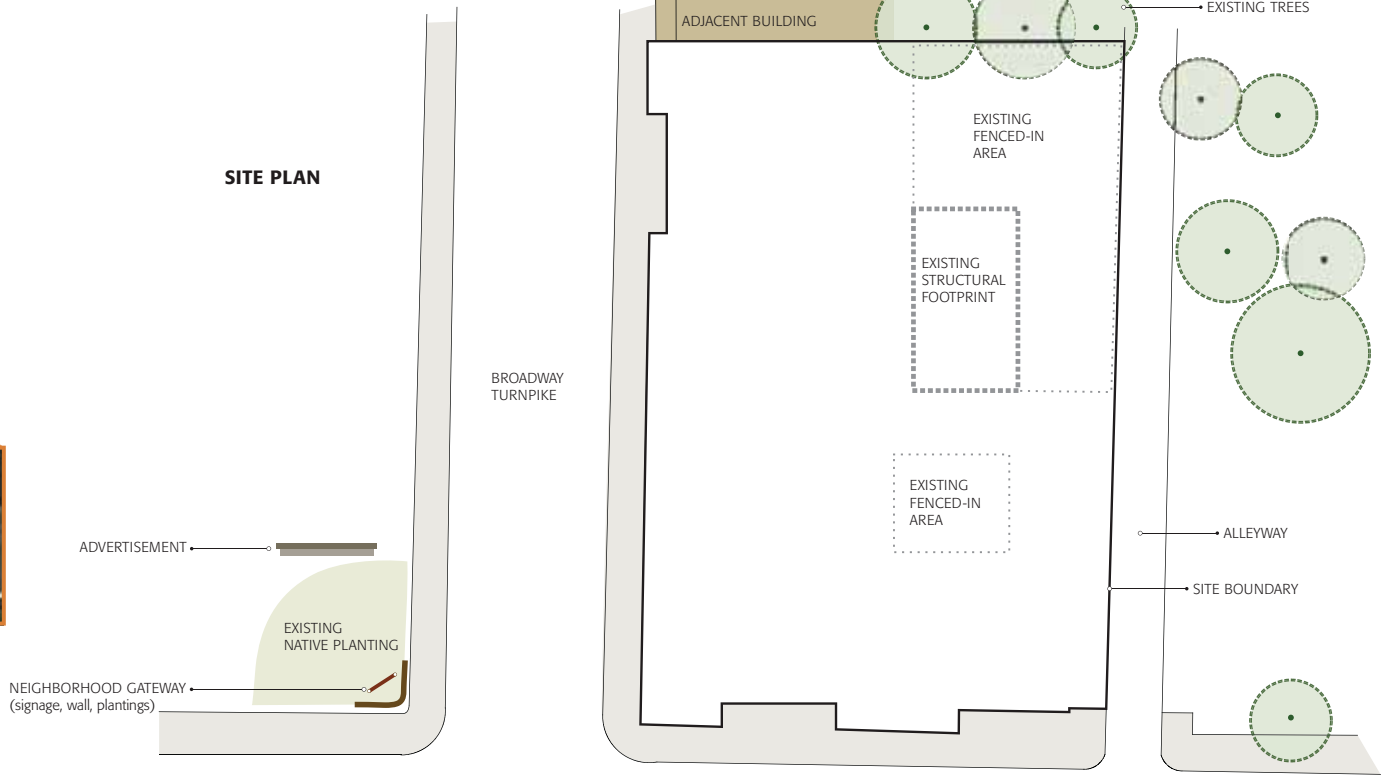


Chelton Avenue Construction Progress
June 21, 2010

THE GREEN GATEWAY
CHELTON AVENUE
Existing Site Conditions

SITE CONTEXT

SITE PLAN



TYPICAL RAIN GARDEN FOOTPRINTS

SITE PHOTOGRAPHS

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THE GREEN GATEWAY
CHELTON AVENUE
Proposed Site Plan

SITE CONTEXT

SITE PLAN

SWAMP ROSE

BUTTERFLY HABITAT RAIN GARDEN

ART MURAL

FENCE

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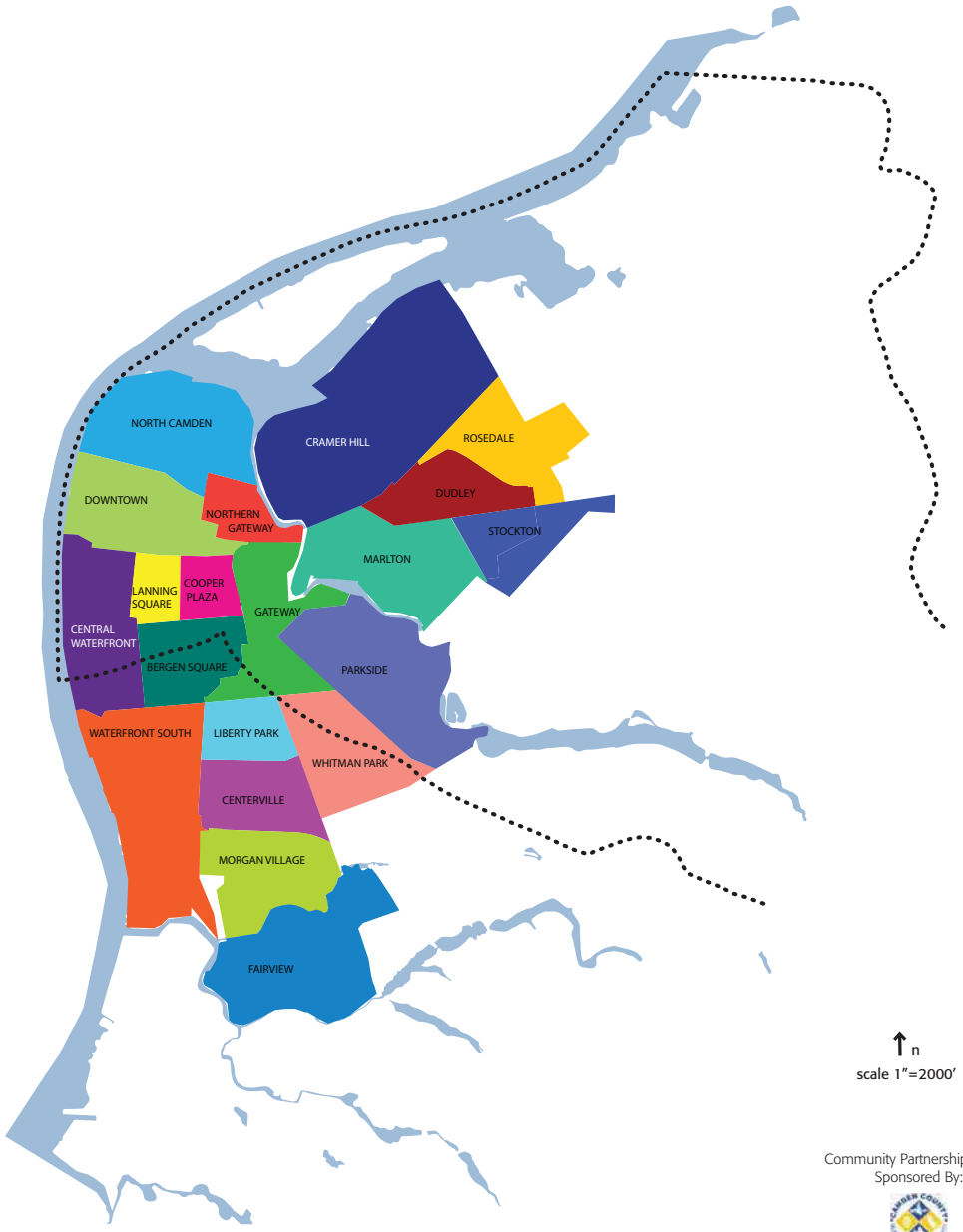
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ

City Grid + Open Space



Neighborhood Districts

Cooper River Watershed

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scale 1"=2000'

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GREEN INFRASTRUCTURE
FEASIBILITY STUDY

Gloucester City, NJ

POTENTIAL OPPORTUNITIES OF PARTNERSHIP

CHURCH

1. Church of God
2. Church of the Ascension
3. Church of the Risen King
4. Lighthouse Baptist Church
5. St. Mary's Church
6. Trinity United Methodist Church

COMMUNITY CENTER

7. Nicholson Road Community Place

LIBRARY

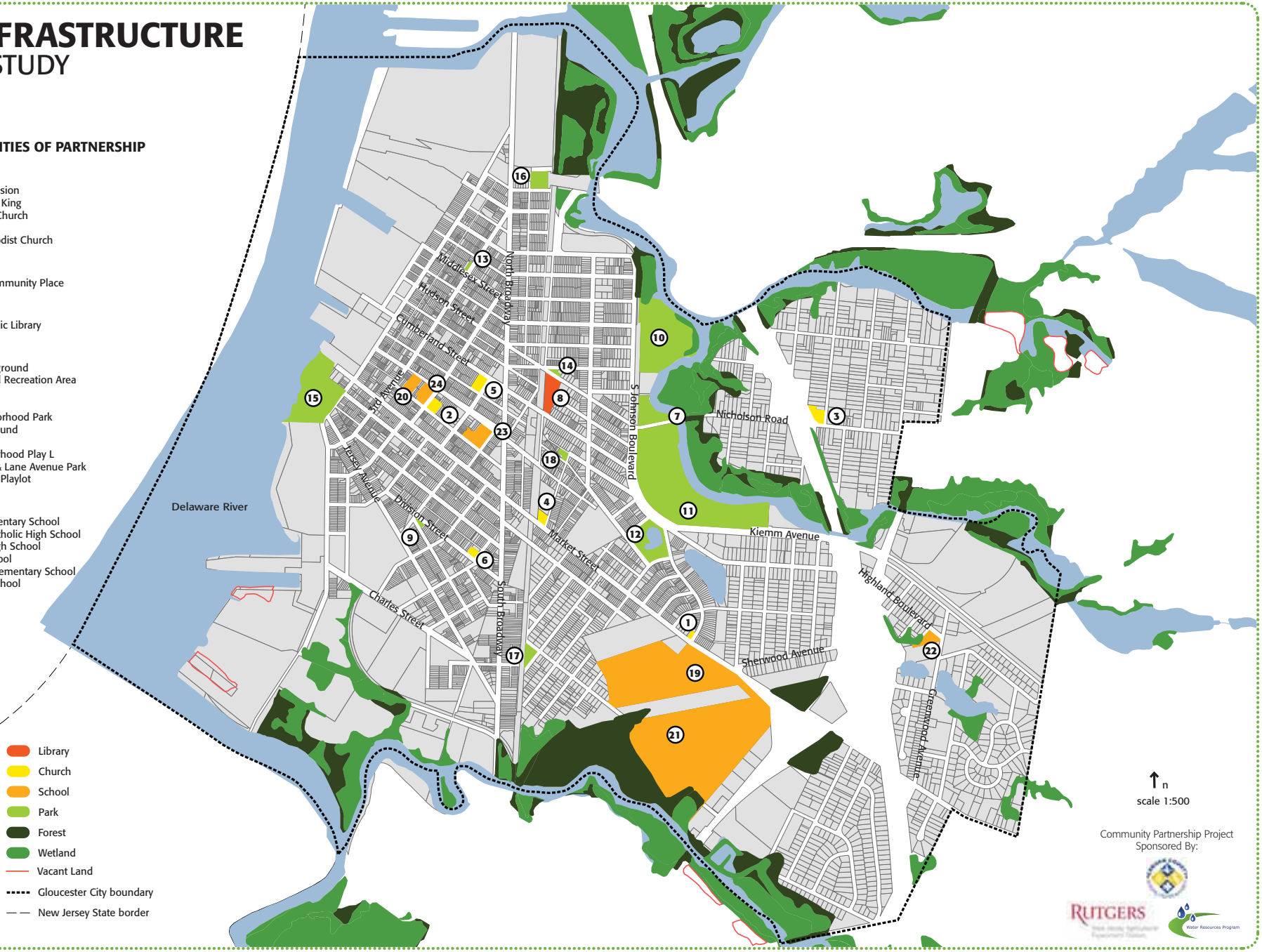
8. Gloucester City Public Library

PARK

9. Division Street Playground
10. Johnson Boulevard Recreation Area
11. Johnson Park
12. Martin Lake
13. Middlesex Neighborhood Park
14. Paul Street Playground
15. Proprietors Park
16. Sherman Neighborhood Play L
17. Thompson Street & Lane Avenue Park
18. Washington Street Playlot

SCHOOL

19. Cold Springs Elementary School
20. Gloucester City Catholic High School
21. Gloucester City High School
22. Highland Park School
23. Mary E. Costello Elementary School
24. St. Mary's Grade School



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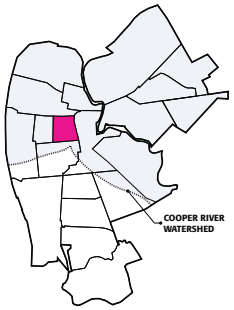
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Cooper Plaza

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

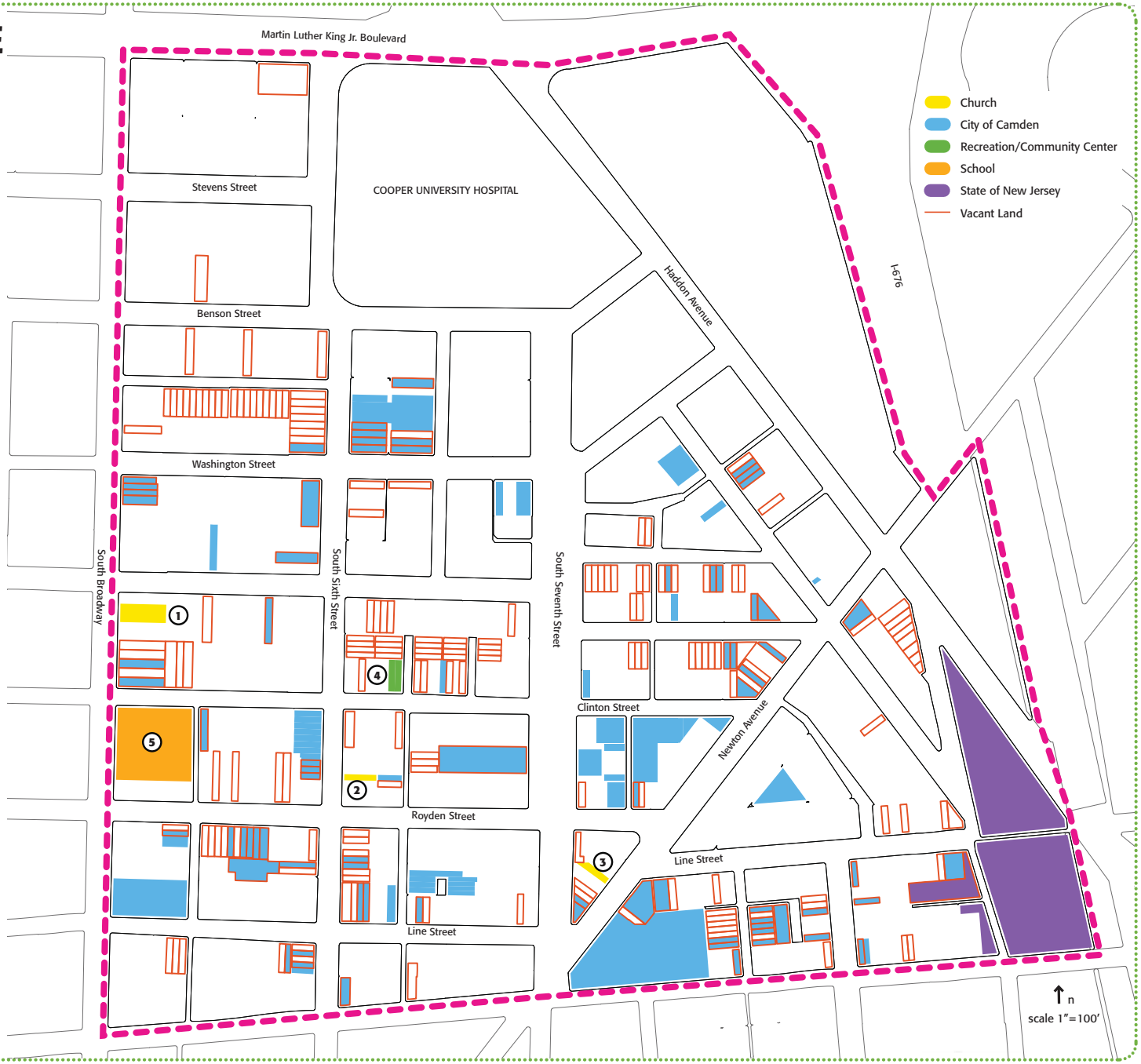
1. Faith Baptist Church
2. Gethsemane Baptist Church
3. New Mickle Baptist Church

RECREATION CENTER

4. Sikora Center

SCHOOL

5. Broadway Elementary School



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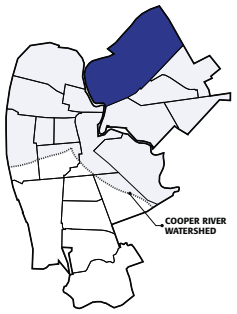
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Cramer Hill

POTENTIAL PARTNERSHIP OPPORTUNITIES

1. CCMUA

CHURCH

2. Saint Anthony of Padua
3. Church of Saint Andrew
4. Alpha Community Baptist Church
5. Congregation of Yahweh

COMMUNITY CENTER

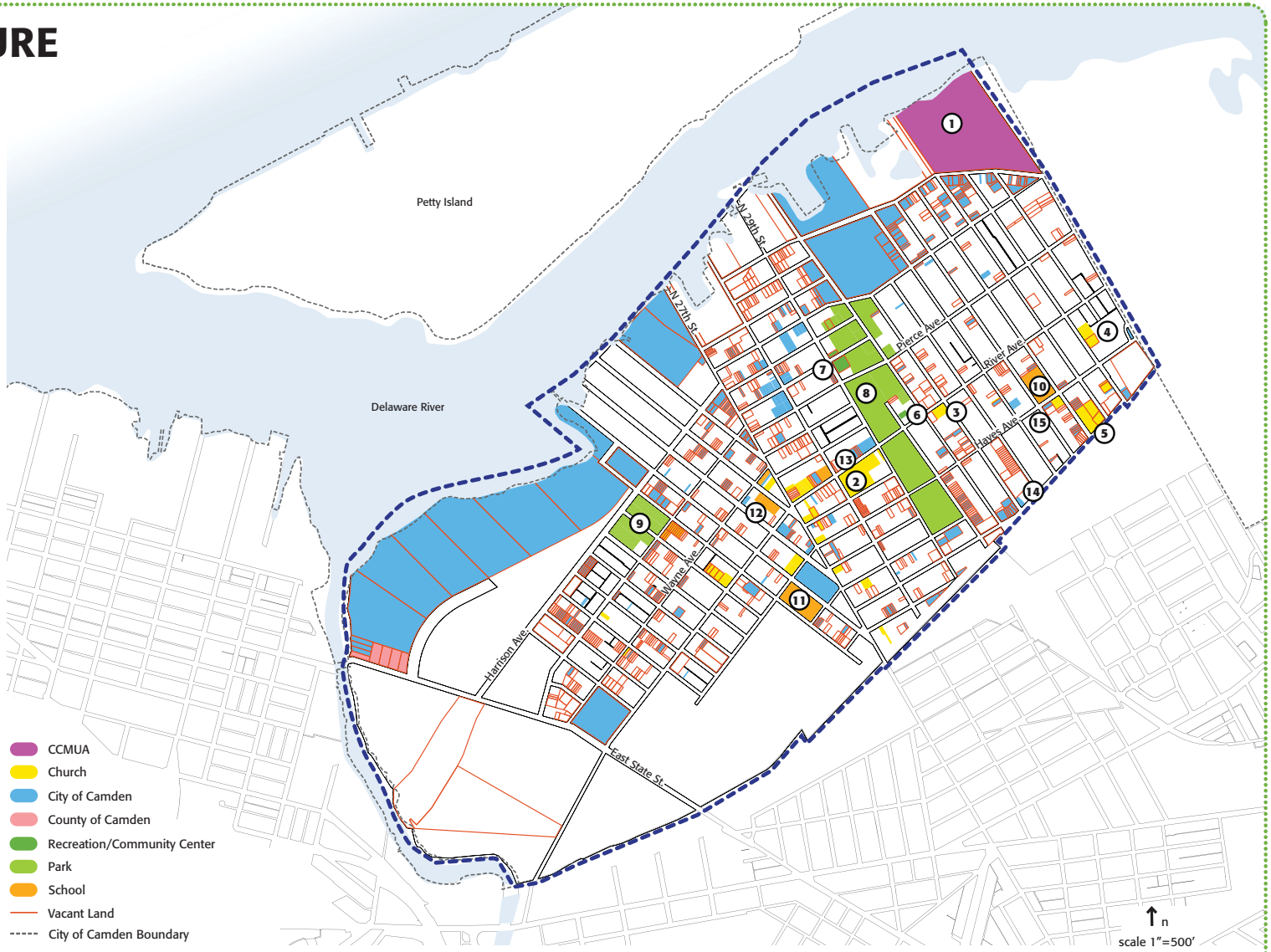
6. Cramer Hill Community Center
7. Cramer Hill Boys Club

PARK

8. Von Neida Park
9. 22nd and Harrison Park

SCHOOL

10. Sharp Elementary School
11. Veteran's Memorial Middle School
12. Washington Elementary School
13. Saint Anthony of Padua School
14. Camden's Promise Charter School
15. Camden Academy Charter High School



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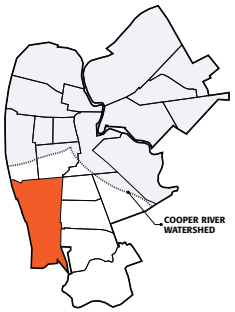
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Waterfront South

POTENTIAL PARTNERSHIP OPPORTUNITIES

1. CCMUA
2. HEART OF CAMDEN

CHURCH

3. Sacred Heart Church
4. Church of Our Saviour
5. Holy Bethel Church
6. South Camden Christian Fellowship
7. Holy Trinity Pentecostal Church
8. New Hope Temple Assemblies of Christ
9. The First Church of Deliveries

REDEVELOPMENT SITE

10. Green Gateway (Broadway & Chelton)
11. Ferry Avenue Rain Garden

SCHOOL

12. Sacred Heart School
13. Creative Arts High School

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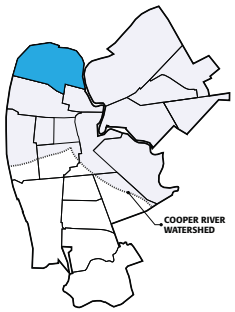
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



North Camden

The North Camden Greening Committee, part of the North Camden Neighborhood Plan for community revitalization, was formed to plan for clean, safe and green neighborhood parks. The North Camden Greening Committee consists of members from the community, the New Jersey Tree Foundation, Save Our Waterfront, Respond Inc., The Camden Town Civic Association, the Walt Whitman Center for the Arts, the Department of Landscape Architecture at Rutgers University/New Brunswick, and the Walter Rand Institute for Public Affairs at Rutgers-Camden.

-The Senator Walter Rand Institute of Public Affairs
Regional Planning + Community Development, Rutgers-Camden

POTENTIAL PARTNERSHIP OPPORTUNITIES

1. NORTH CAMDEN LAND TRUST

CHURCH

2. Apostolic Christian Church of God
3. Holy Church of Mount Carmel
4. Holy Name Roman Catholic Church
5. Iglesia Pentecostal Ungida de Dios
6. Mount Zion Baptist Church
7. St. Paul's Episcopal Church

PARK

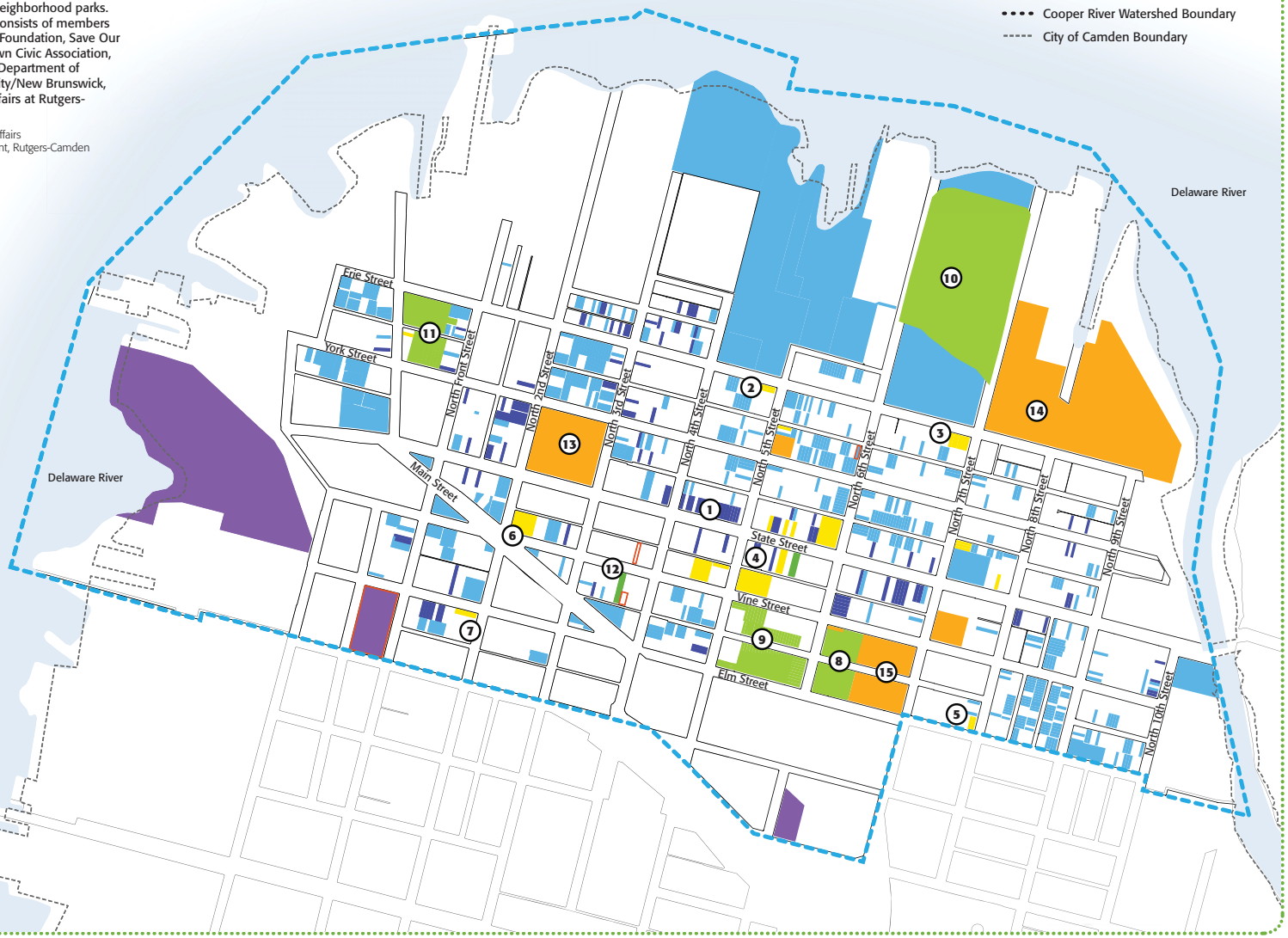
8. Northeast School Park
9. Northgate II Park
10. Pine Poynt Park
11. Second & Erie - Compensation

RECREATION/COMMUNITY CENTER

12. Respond, Inc.

SCHOOL

13. Cooper's Point School
14. Pine Poynt School
15. Rafael Cordero Molina School



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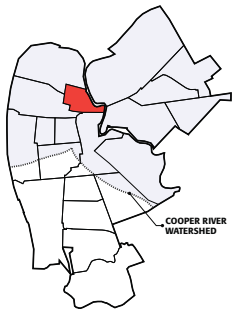
scale 1"=500'

GREEN INFRASTRUCTURE
FEASIBILITY STUDY
City of Camden, NJ



Northern Gateway

POTENTIAL PARTNERSHIP OPPORTUNITIES

1. NORTH CAMDEN LAND TRUST

CHURCH

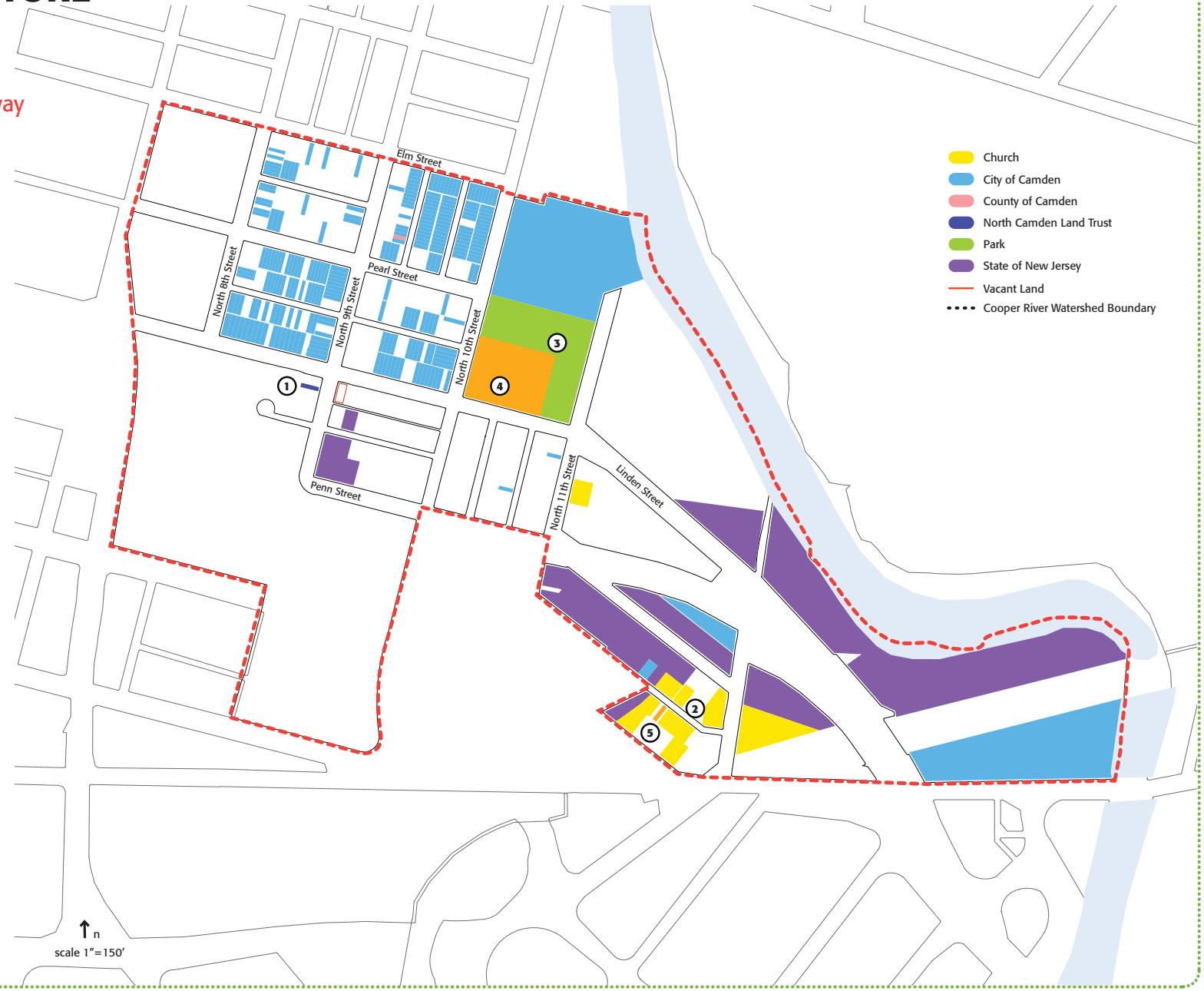
2. Mount Calvary Baptist Church

PARK

3. Cornelius Martin Park

SCHOOL

4. Powell Elementary School
5. Environment Community Charter School



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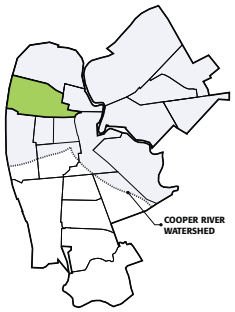
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Downtown

POTENTIAL PARTNERSHIP OPPORTUNITIES

1. RUTGERS-CAMDEN

CHURCH

2. Cathedral of Immaculate Conception
3. Saint Paul's Episcopal Church
4. Victory Temple Community Church

LIBRARY

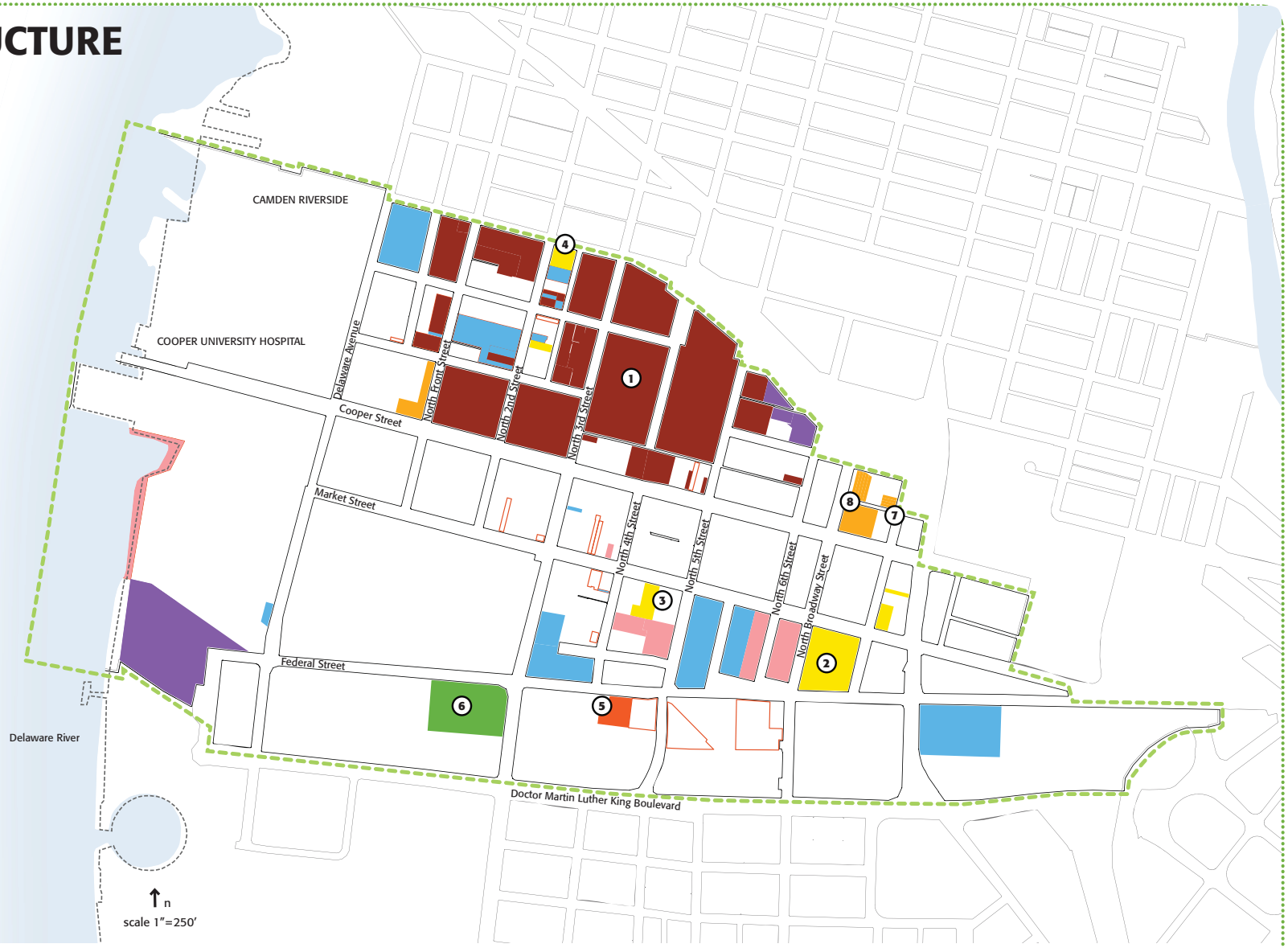
5. Camden Free Library

RECREATION/COMMUNITY CENTER

6. Young Men's Christian Association

SCHOOL

7. Leap Academy Charter School
8. Rowan University



- Church
- City of Camden
- County of Camden
- Library
- Recreation/Community Center
- Rutgers-Camden
- School
- State of New Jersey
- Vacant Land
- Cooper River Watershed Boundary
- City of Camden Boundary

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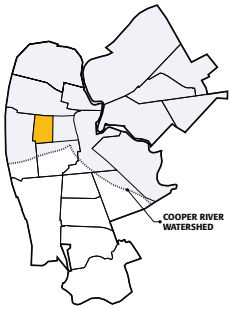
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Lanning Square

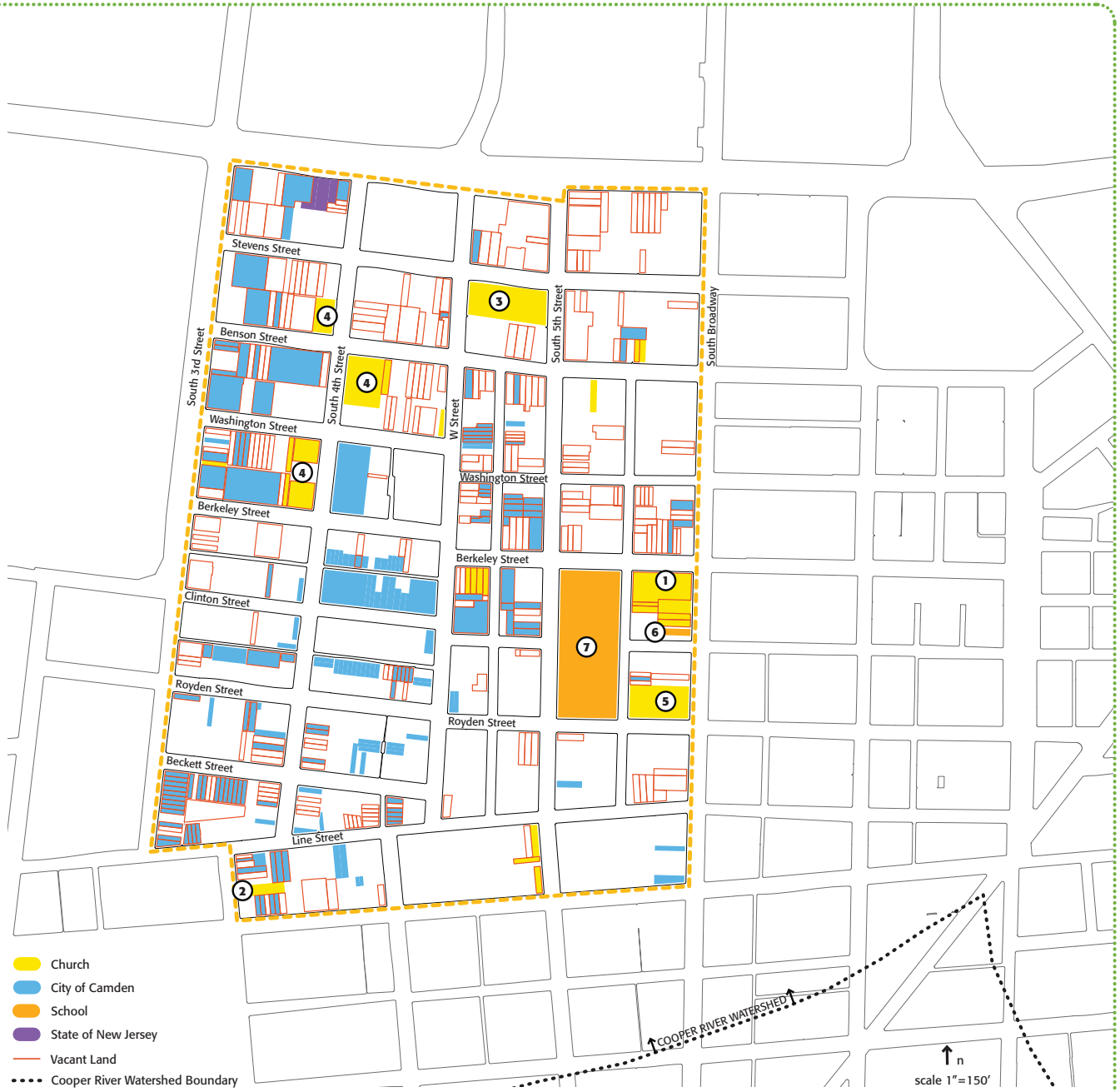
POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Broadway United Methodist Church
2. Church of the Living God
3. Emanuel United Pentecostal Church
4. New Mickle Baptist Church
5. Saint John's Episcopal Church

SCHOOL

6. Broadway School
7. Lanning Square Elementary School



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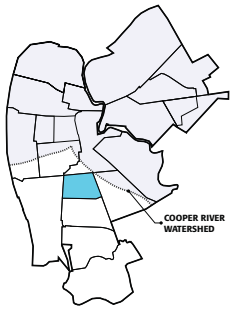
City of Camden, NJ



Liberty Park

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. First Nazarene Baptist Church
2. Community Baptist Church
3. Saint Joseph's Catholic Church

PARK

4. Judge Robert Johnson Park

SCHOOL

5. Bonsall Annex School
6. Bonsall Elementary School
7. Due Season Charter School
8. Sumner Elementary School

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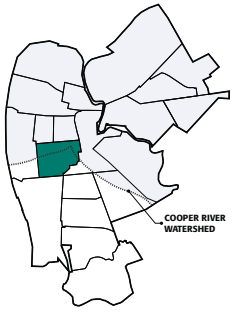
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Bergen Square

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Baptist Temple Church
2. Faith Tabernacle Church
3. Federation of Pentecostal Church
4. Friendship Baptist Church
5. Saint Bartholomew Roman Catholic Church
6. Shalom Baptist Church

SCHOOL

7. South Camden Alternative School
8. US Wiggins Elementary School
9. Whittier Elementary School

Community Partnership Project
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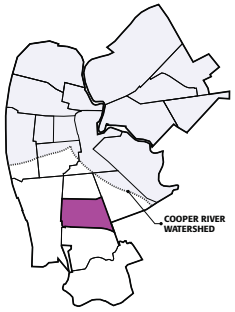
New Jersey Agricultural Experiment Station
Water Resources Program

GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Centerville

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. 10th Street Baptist Church
2. Antioch Baptist Church
3. Ferry Avenue United Methodist Church

LIBRARY

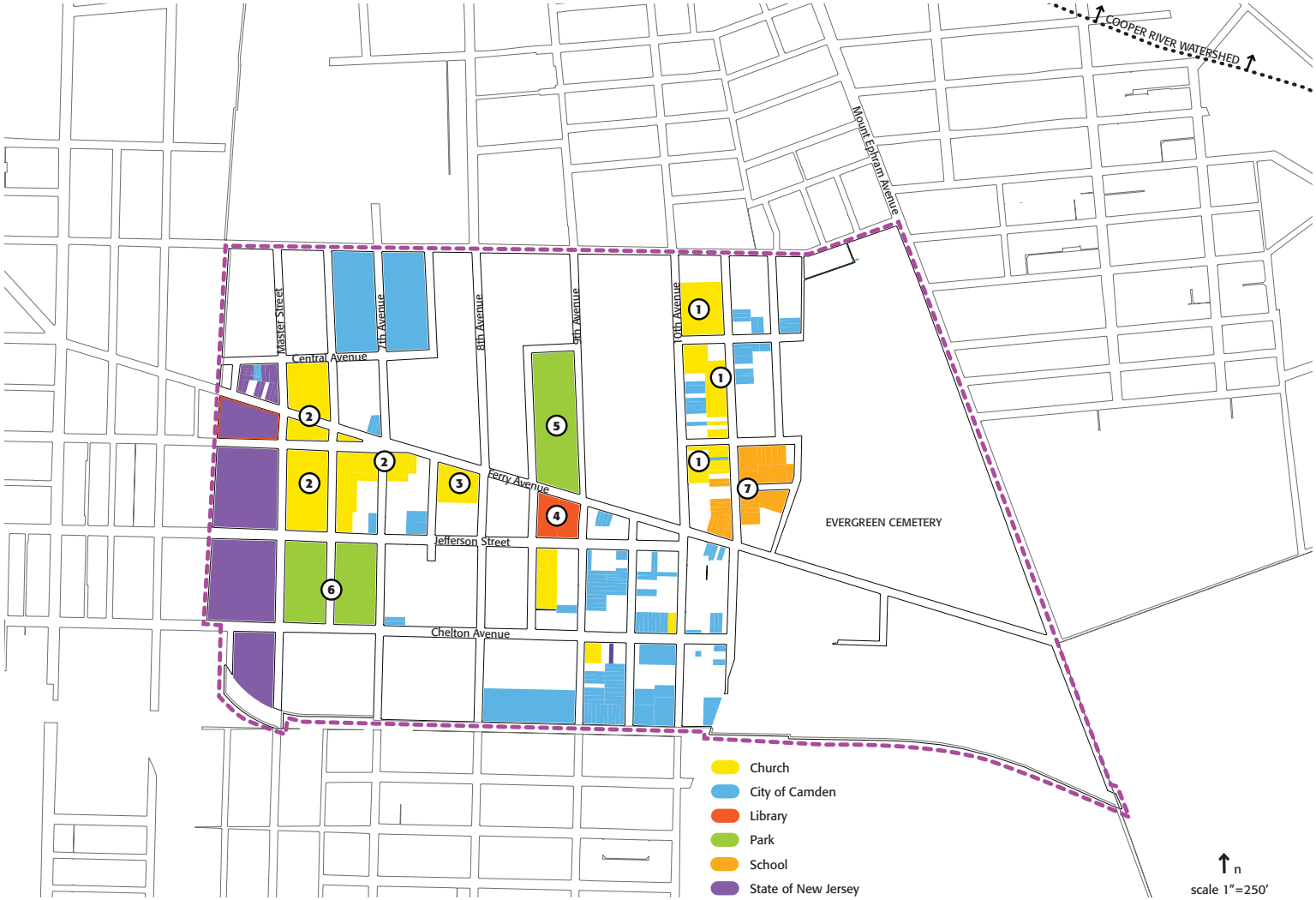
4. Ferry Avenue Branch Library

PARK

5. Elijah Perry Park
6. Stanley Park

SCHOOL

7. RT Cream School



Community Partnership Project
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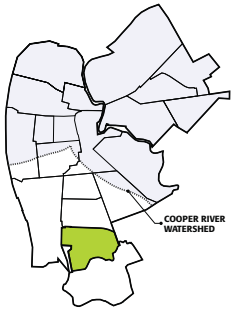
RUTGERS
New Jersey Agricultural Experiment Station
Water Resources Program

GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Morgan Village

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Harris Temple Zion Church
2. Saint Matthews Church
3. Woodland Avenue Presbyterian Church

PARK

4. 8th & Woodland Park
5. Reverend Harris Park

SCHOOL

6. HB Wilson School
7. Project SEED

- Church
- City of Camden
- Park
- School
- State of New Jersey
- City of Camden Boundary

NOTE: Vacant Land GIS Data may be incomplete

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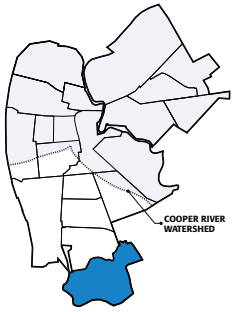
GREEN INFRASTRUCTURE
FEASIBILITY STUDY
City of Camden, NJ



Fairview

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Fairview Community Baptist Church
2. Saint Joan of Arch Church
3. Fairview Village Methodist Church

LIBRARY

4. Fairview Branch Library

PARK

5. Camden County Park
6. Yorkship Square

RECREATION/COMMUNITY CENTER

7. Union Field

SCHOOL

8. Yorkship Elementary School
9. Freedom Academy Charter School

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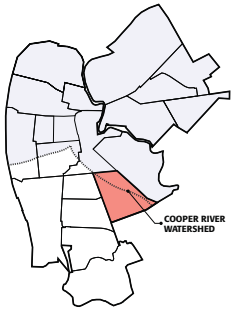
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Whitman Park

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. 4th Presbyterian Church
2. Antioch Baptist
3. Friendship Baptist Church
4. New Life Lutheran Church

PARK

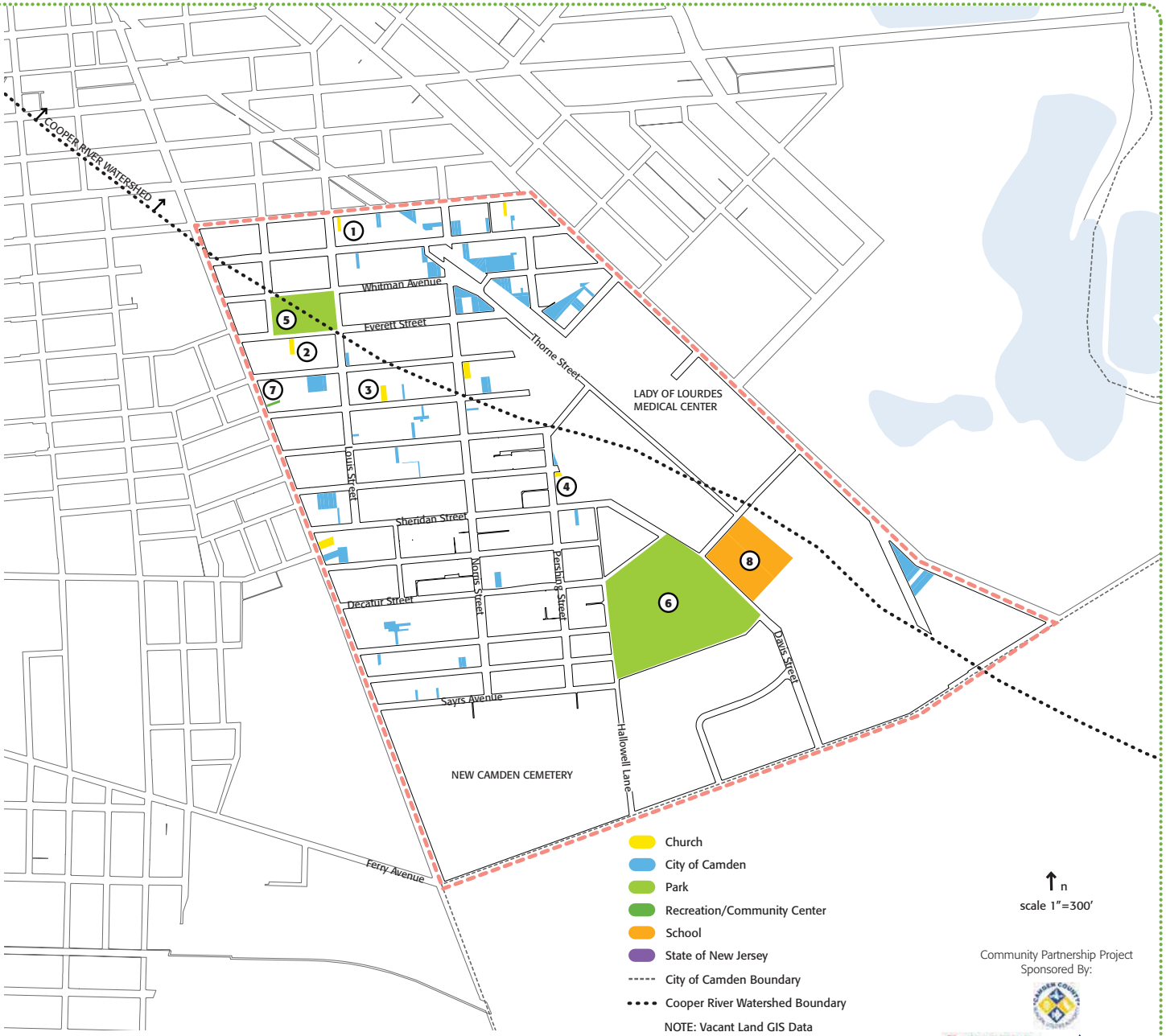
5. Everett & Louis Park
6. Whitman Park

RECREATION/COMMUNITY CENTER

7. Unity Community Center

SCHOOL

8. Charles E. Brimm Medical Arts High School



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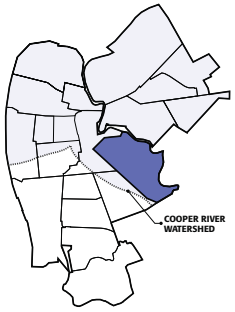
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Parkside

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Dominican Sisters Perpetual Rosary
2. First Refuge Missionary Baptist Church
3. Little Rock Baptist
4. Parkside Methodist Episcopal Church
5. Saint Paul's Baptist Church

PARK

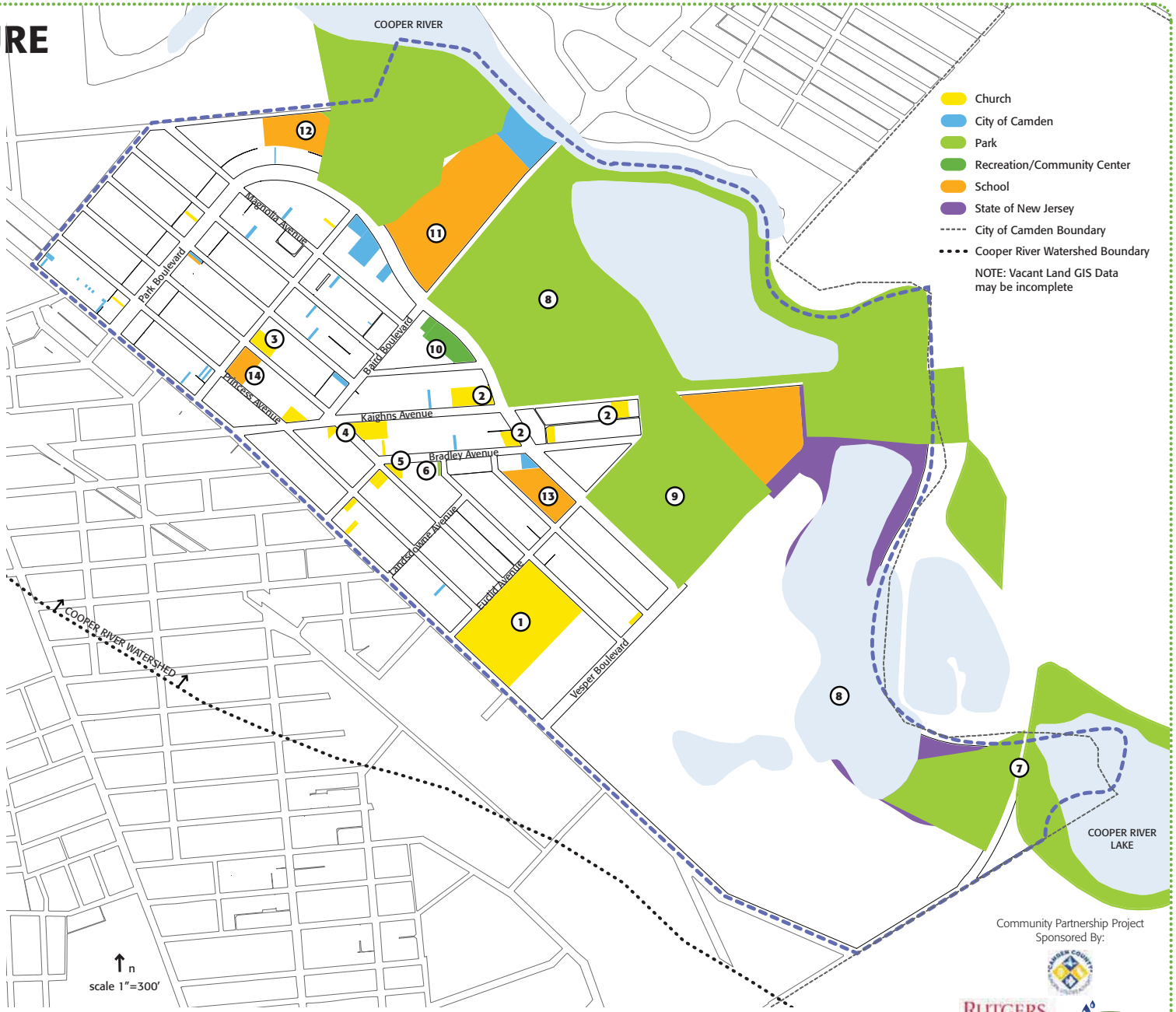
6. Bradley & Ormand Park
7. Cooper River Park
8. Farnham Park
9. High School Athletic Fields

RECREATION/COMMUNITY CENTER

10. Jackson Boys & Girls Club

SCHOOL

11. Camden High School
12. Forest Hill Elementary School
13. Hatch Middle School
14. Parkside School



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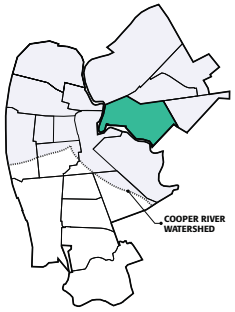
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Marlton

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

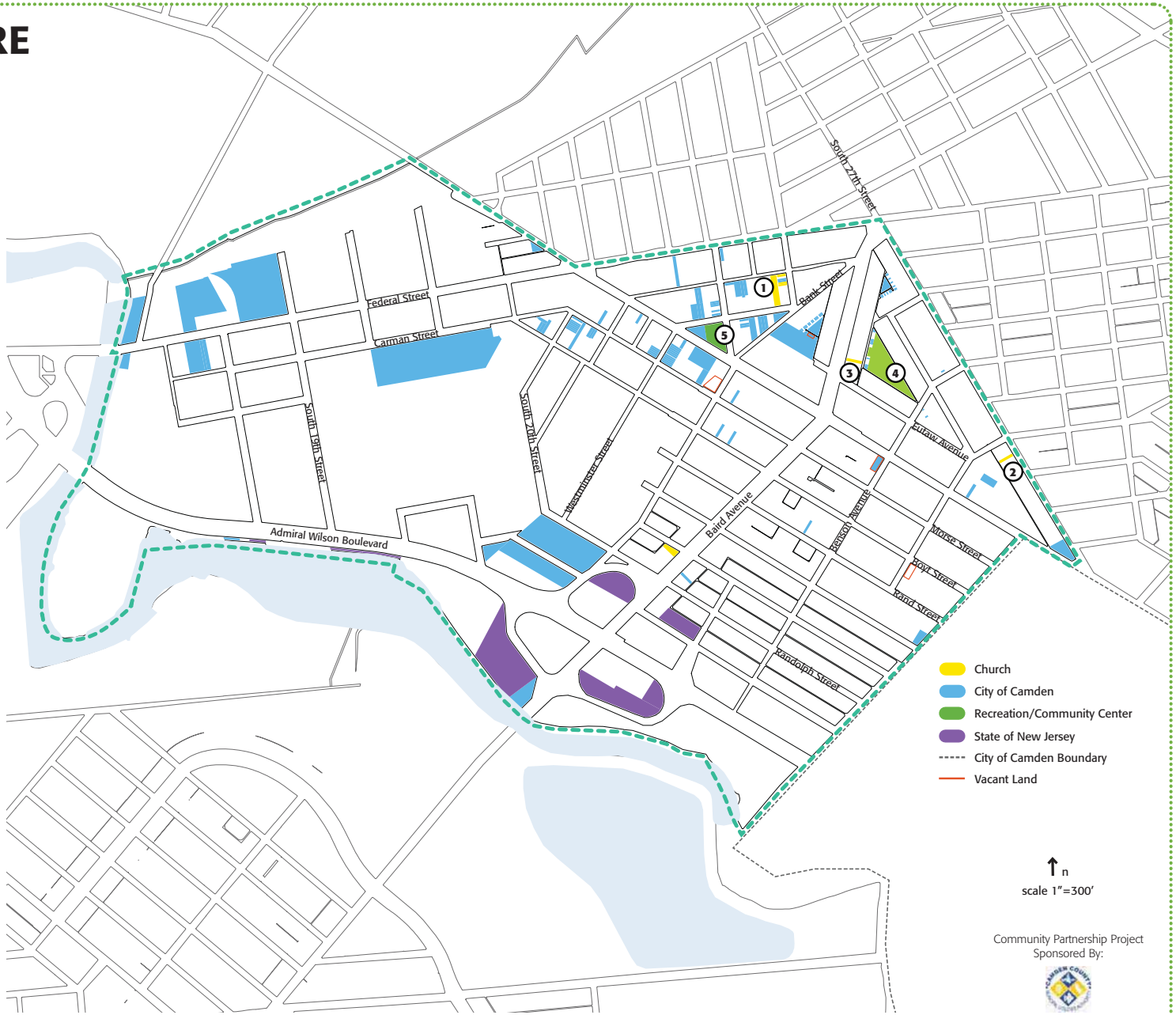
1. Federation of Pentecostal Churches
2. Holy Temple Church
3. Scott Methodist Church

PARK

4. Mickel/Eutaw Park

RECREATION/COMMUNITY CENTER

5. Iglesia Pentecostal Recreation Center



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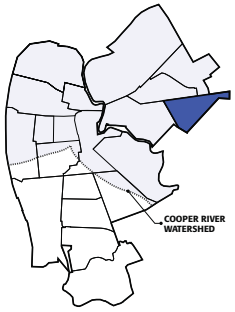
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Stockton

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Bible Baptist Fellowship Church
2. Holy Temple of Our Lord Jesus

PARK

3. Green Alberta Woods

RECREATION/COMMUNITY CENTER

4. Respond, Inc.

SCHOOL

5. Cramer School
6. Woodrow Wilson High School

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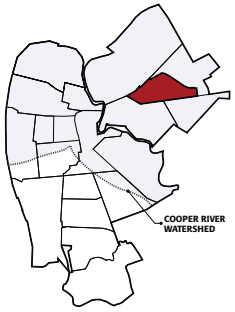
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Dudley

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Calvary Bible Protestant Church
2. Saint Joseph's Catholic Church
3. Saint John's Baptist Church
4. Spanish Pentecostal Church
5. Victory Baptist Church

PARK

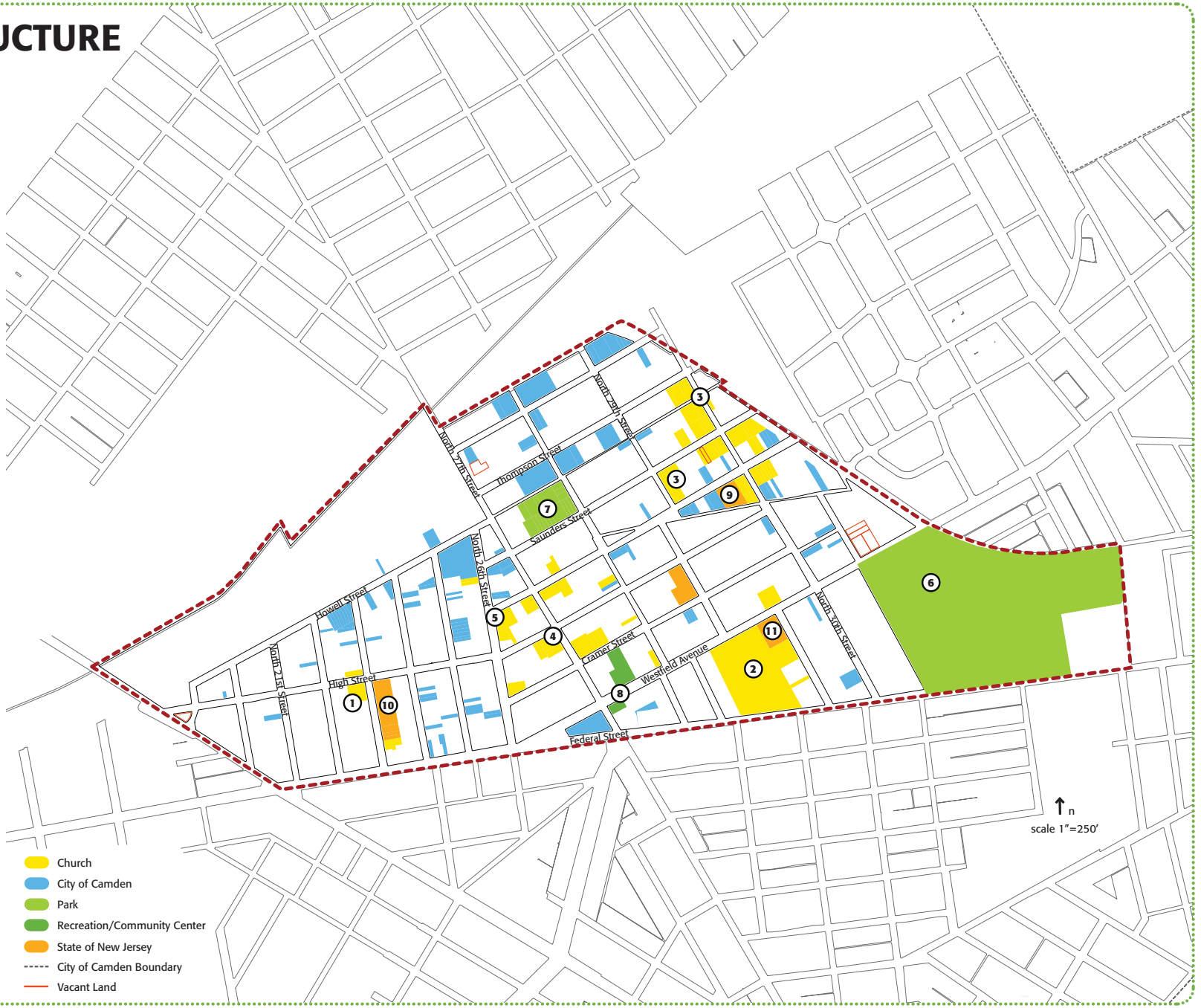
6. Dudley Grange Park
7. Eastside Park

RECREATION/COMMUNITY CENTER

8. Hispanic Family Centers of Southern Jersey

SCHOOL

9. Catto School
10. Dudley School
11. Saint Joseph's Catholic School



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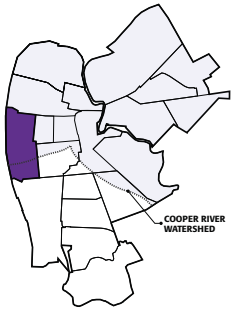
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Central Waterfront

POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Holy Trinity Baptist Church
2. Macedonia African Methodist Episcopal Church
3. Mount Zion Highway of Holiness

PARK

4. 3rd & Knights Park
5. Wiggins Waterfront Park

RECREATION/COMMUNITY CENTER

6. Neighborhood Center United

SCHOOL

7. Fetters Alternative High School

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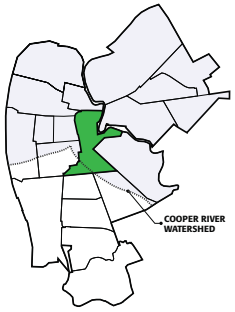
GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ



Gateway

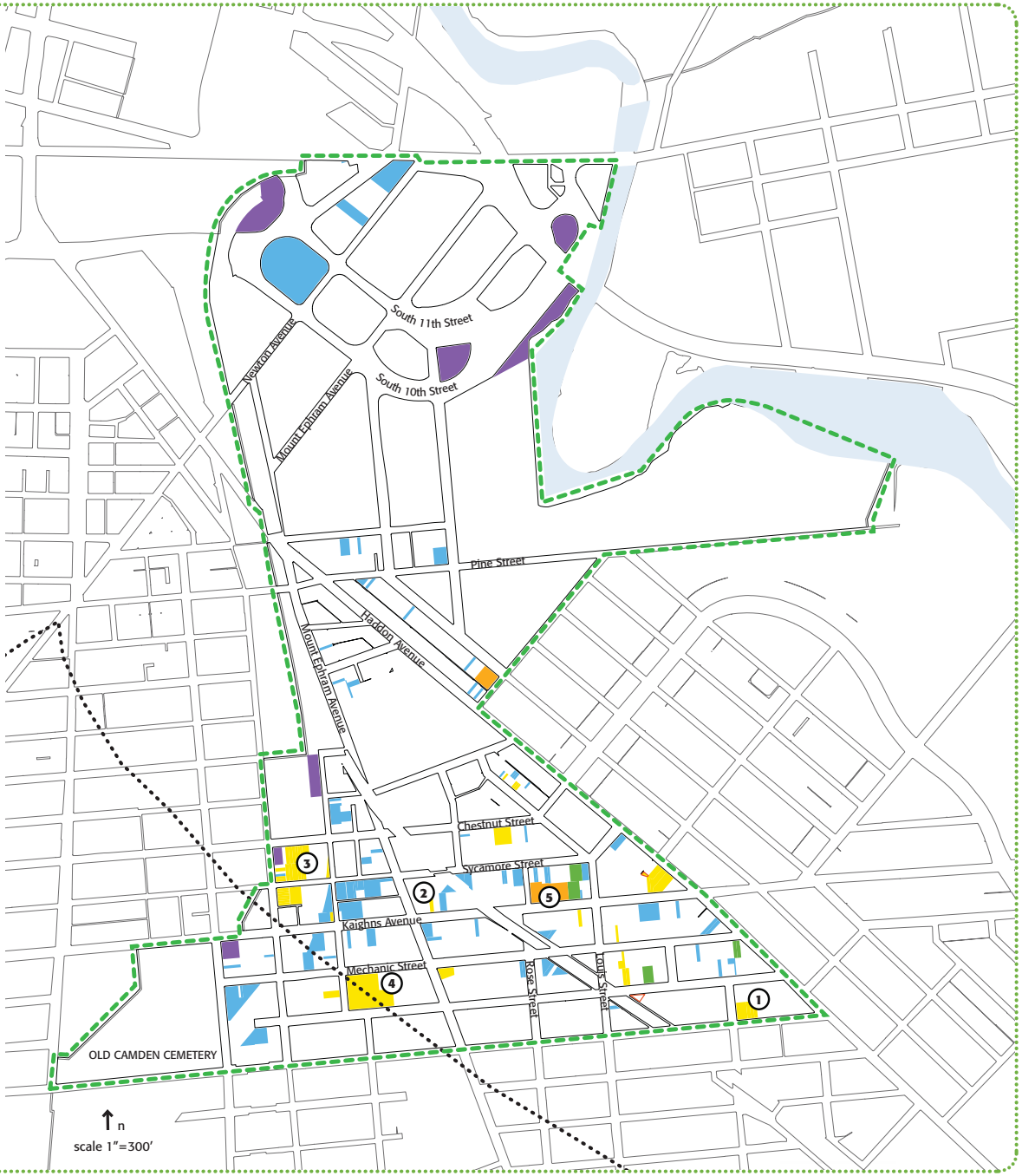
POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Christian Pentecostal Church
2. Refuge Church of Christ
3. Rock of Ages Holy Church
4. Saint Joseph's Church

SCHOOL

5. Challenge Square Academy



Church
City of Camden
Recreation/Community Center
School
State of New Jersey
Cooper River Watershed Boundary
Vacant Land

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GREEN INFRASTRUCTURE
FEASIBILITY STUDY

City of Camden, NJ

Rosedale

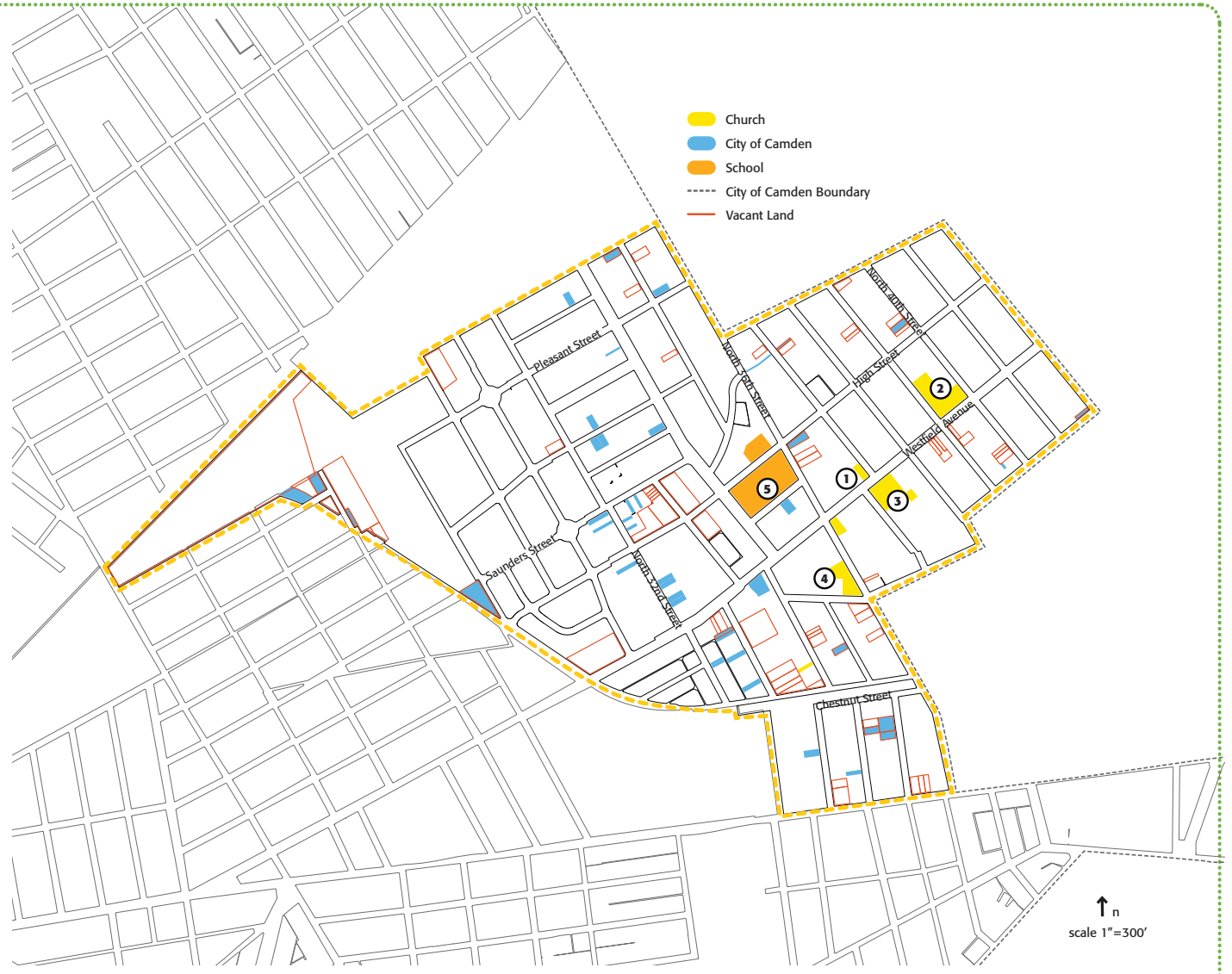
POTENTIAL PARTNERSHIP OPPORTUNITIES

CHURCH

1. Congregation of Yahweh
2. Bethel United Methodist Church
3. Rosedale Baptist Church
4. Temple of Love Christian Center

SCHOOL

5. Davis Elementary School



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Water Resources Program
Rutgers Cooperative Extension
Rutgers, The State University of New Jersey

Camden County Municipal Utilities Authority

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