

Watershed Projects

Pigeon House Branch Watershed Study



Watershed Study Goals

- Reduce flooding impacts
- Improve water quality
- Renew stormwater pipes and infrastructure that is in poor condition
- Identify areas that may benefit from stream restoration or stabilization
- Where possible, identify projects that provide multiple benefits

Types of Projects

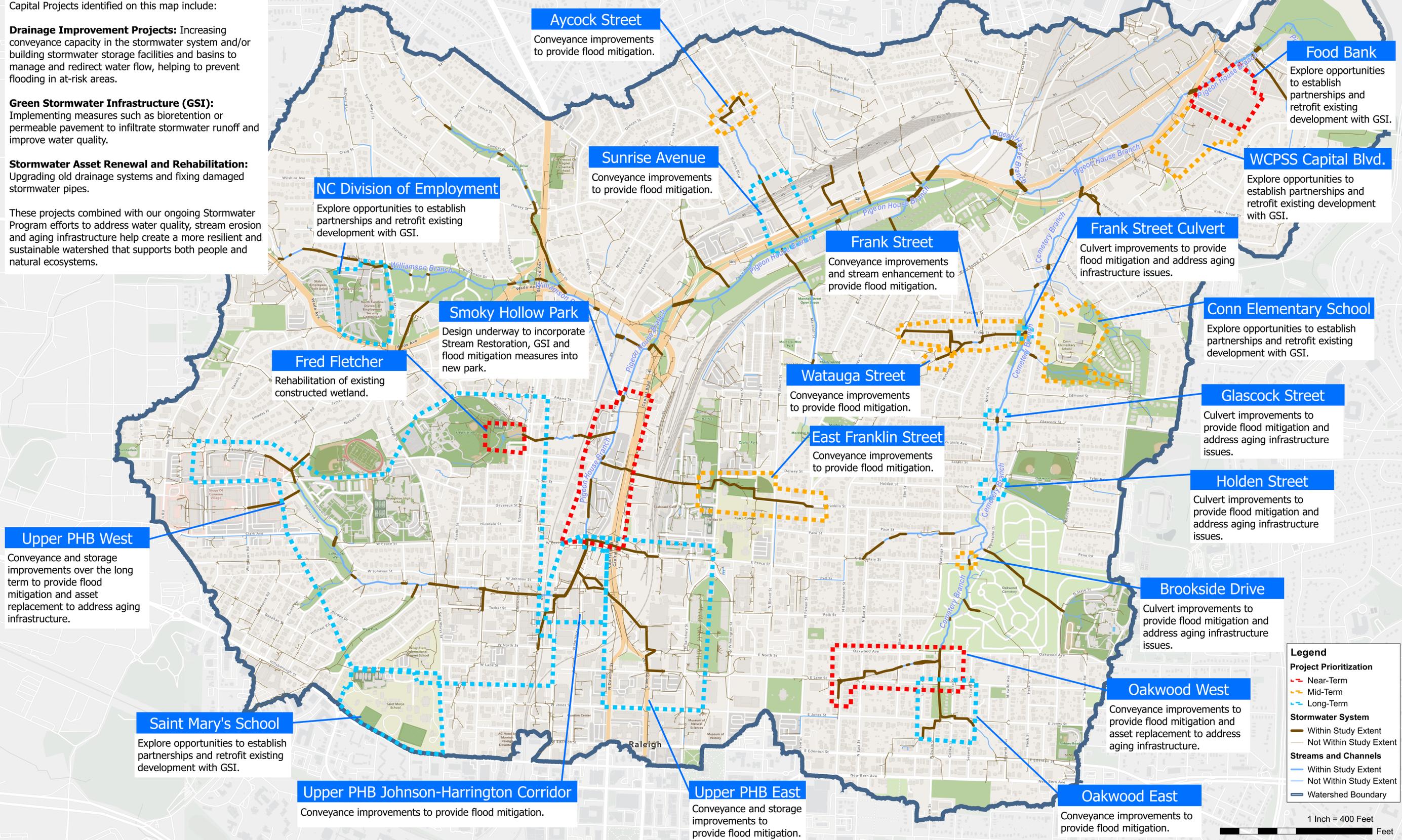
To achieve watershed study goals projects have been identified in the Pigeon House Branch Watershed. Watershed projects are diverse efforts aimed at tackling various environmental and infrastructure issues. Major Capital Projects identified on this map include:

Drainage Improvement Projects: Increasing conveyance capacity in the stormwater system and/or building stormwater storage facilities and basins to manage and redirect water flow, helping to prevent flooding in at-risk areas.

Green Stormwater Infrastructure (GSI): Implementing measures such as bioretention or permeable pavement to infiltrate stormwater runoff and improve water quality.

Stormwater Asset Renewal and Rehabilitation: Upgrading old drainage systems and fixing damaged stormwater pipes.

These projects combined with our ongoing Stormwater Program efforts to address water quality, stream erosion and aging infrastructure help create a more resilient and sustainable watershed that supports both people and natural ecosystems.



Upper PHB West
Conveyance and storage improvements over the long term to provide flood mitigation and asset replacement to address aging infrastructure.

Saint Mary's School
Explore opportunities to establish partnerships and retrofit existing development with GSI.

Upper PHB Johnson-Harrington Corridor
Conveyance improvements to provide flood mitigation.

Upper PHB East
Conveyance and storage improvements to provide flood mitigation.

Fred Fletcher
Rehabilitation of existing constructed wetland.

Smoky Hollow Park
Design underway to incorporate Stream Restoration, GSI and flood mitigation measures into new park.

NC Division of Employment
Explore opportunities to establish partnerships and retrofit existing development with GSI.

Aycock Street
Conveyance improvements to provide flood mitigation.

Sunrise Avenue
Conveyance improvements to provide flood mitigation.

Watauga Street
Conveyance improvements to provide flood mitigation.

East Franklin Street
Conveyance improvements to provide flood mitigation.

Frank Street
Conveyance improvements and stream enhancement to provide flood mitigation.

Brookside Drive
Culvert improvements to provide flood mitigation and address aging infrastructure issues.

Oakwood West
Conveyance improvements to provide flood mitigation and asset replacement to address aging infrastructure.

Oakwood East
Conveyance improvements to provide flood mitigation.

Holden Street
Culvert improvements to provide flood mitigation and address aging infrastructure issues.

Glascok Street
Culvert improvements to provide flood mitigation and address aging infrastructure issues.

Conn Elementary School
Explore opportunities to establish partnerships and retrofit existing development with GSI.

Frank Street Culvert
Culvert improvements to provide flood mitigation and address aging infrastructure issues.

WCPSS Capital Blvd.
Explore opportunities to establish partnerships and retrofit existing development with GSI.

Food Bank
Explore opportunities to establish partnerships and retrofit existing development with GSI.

Legend

Project Prioritization

- Near-Term (Red dashed line)
- Mid-Term (Orange dashed line)
- Long-Term (Blue dashed line)

Stormwater System

- Within Study Extent (Brown line)
- Not Within Study Extent (Grey line)

Streams and Channels

- Within Study Extent (Blue line)
- Not Within Study Extent (Light Blue line)
- Watershed Boundary (Dark Blue line)

