

## PROJECT PORTFOLIO

The assembled project portfolio details eight (8) shovel-ready priority projects, addressing hazards, type of strategy area and approach, priority rating, potential sources of funding, cost and project duration estimates, project map(s), project description, and project scope. These projects were developed to coincide with the top priority solution that would help make the community more resilient to the hazards identified: riverine flooding, nuisance flooding, drought, and wildfire. One nature-based or hybrid solution project is eligible to move forward into Phase 3 of the RCCP, Engineering and Design. The Town of Ahoskie CAT, along with stakeholders, choose to move forward with the Stormwater Action Plan. This will be combined with the Upgrade Stormwater System project, the most popular project based upon Phase 2 Open House input, to move forward into Phase 4 implementation. Steps taken to assemble the project portfolio that led to the community and the CAT choosing this project are outlined below.



### IDENTIFY A SUITE OF POTENTIAL PROJECT SOLUTIONS

The first step to assembling the project portfolio was to identify a suite of potential solutions. The contractors helped the CAT identify 35 potential solutions. The Albemarle Sound Hazard Mitigation Strategies identified an additional 21 potential solutions that could also be carried forward. These solutions were categorized by Planning/Policy, Green and Hybrid Infrastructure Solutions, and Hard/Grey Infrastructure Solutions and presented to the CAT at Meeting 4. Each CAT member then identified their top solutions.

### CONSOLIDATE AND PRIORITIZE PROJECTS

The second step in assembling the project portfolio was to consolidate and prioritize the project solutions. The CAT identified nine (9) solutions from the suite of potential solutions that could move forward based on the STAPLEE Method and a simple benefit/cost rating system to help consolidate and prioritize all the potential project solutions. The STAPLEE Method assesses the social, technical, administrative, political, legal, economic, and environmental aspects and potential impacts of each project solution. The benefit/cost rating system used a high/medium/low scoring system to predict benefits and costs of each project solution.

Potential priority projects were presented to the CAT during the 5<sup>th</sup> meeting where the STAPLEE and benefit/cost rating metrics were reviewed and finalized. These projects were then brought to the community for additional feedback at the Phase 2 Public Open House. The Town of Ahoskie along with the CAT identified eight (8) priority projects to be presented in the project portfolio.

#### Priority Projects

- Stormwater Action Plan and Stormwater System Upgrade (combined project to advance to Phase 3 and Phase 4 applications)
- Backup Generators at Critical Facilities
- Stream Cleanout

- Green Stormwater Infrastructure at the R.L. Vann Center
- Retrofit or Relocate Town Hall
- Green Stormwater Infrastructure at Public Housing Developments
- Stormwater Wetland at the Ballfields in Ahoskie Creek Recreation Complex
- Green Stormwater Infrastructure on Town-owned property

Stormwater Action Plan and Stormwater System Upgrade (combined project to advance to Phase 3 and Phase 4 applications)



# TOWN OF AHOSKIE

## Stormwater Action Plan – Stormwater System Upgrade

### Project Summary

#### Project Description

Develop a Stormwater Action Plan combined with strategically upgrading the stormwater system through improved and expanded infrastructure. The project will establish mapping and condition assessments for stormwater system components and outfalls with a focus on known problem areas and areas identified via a desktop analysis. The project will promote proactive stormwater maintenance through development of interactive mapping tools and maintenance guidance. The project will encourage stormwater quality awareness through public outreach efforts and produce construction drawings for a priority project.

#### Project Scope

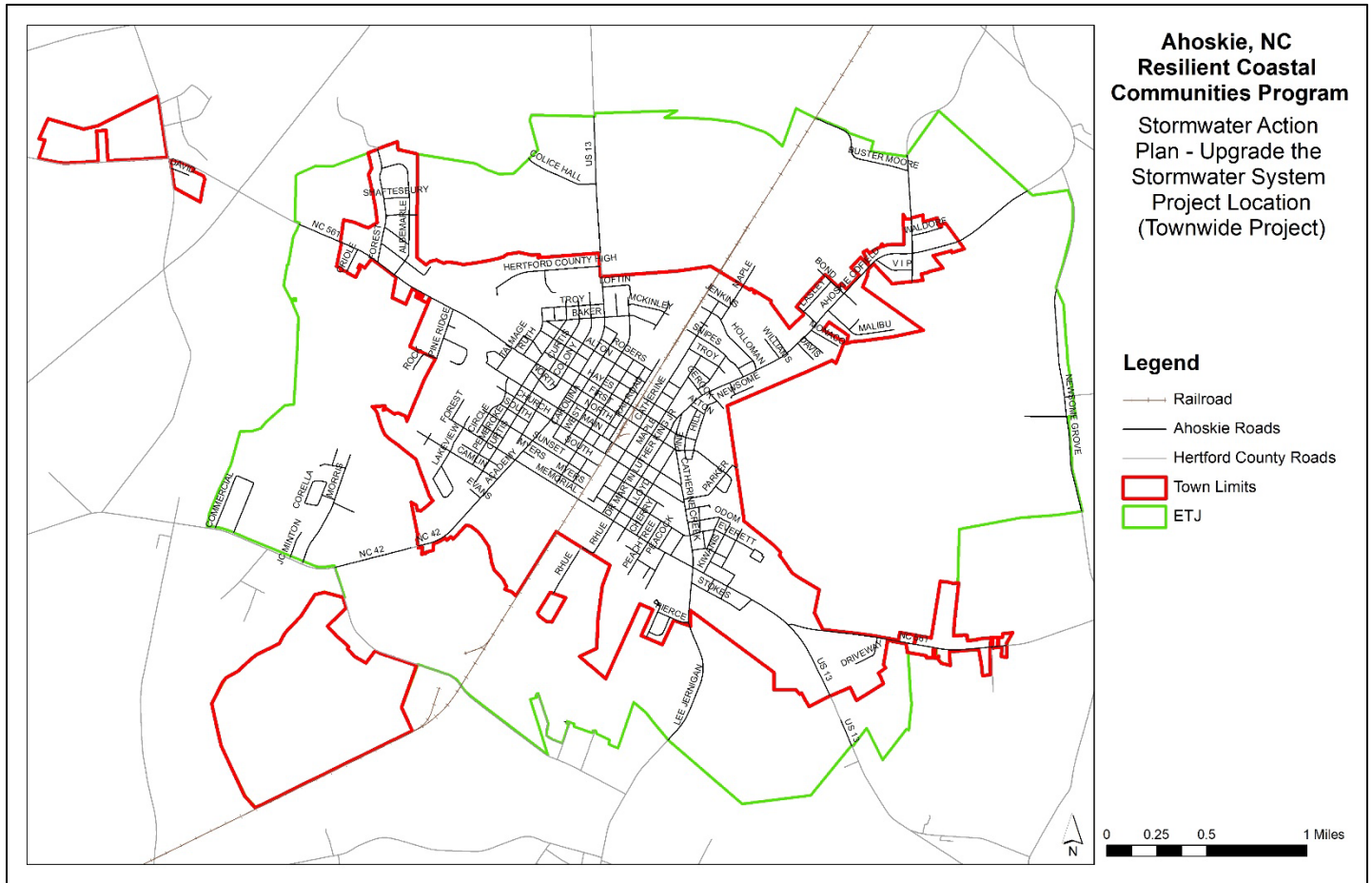
Engineering/Design - Develop a Stormwater Action Plan. This plan will complete a stormwater ground assessment and surface hydrology analysis that will be incorporated into an online mapping system that can submit real-time data to analyze, prioritize, and take action on a problem area. The plan will also incorporate a maintenance plan that will be tracked by the online tool. The plan will include assessing and documenting the type and location of stormwater infrastructure, collecting and analyzing data on the hydraulic flow, assessing stormwater system capacity and functionality, and identifying projects to upgrade the system and improve the ability of the system to convey water and/or improve water quality. Both hard/grey infrastructure and green/nature-based solutions will be considered in the Stormwater Action Plan. A public education campaign on stormwater responsibilities will also be included. Design and Construction drawings will be completed for one project chosen in partnership with the community.

- Hydro Analysis / vulnerability assessment
- Field Work
- Natural Resource Technical Report
- Project Prioritization/Recommendations
- Arc Online Tool
- Stormwater Maintenance Manual
- Public Education Campaign – Stormwater Responsibilities
- Permitting Due Diligence
- Project Surveys / Utility Locations
- Project Engineering/Design

Implementation - Strategically upgrade the stormwater system through pipe replacements (upsizing where needed), increasing the size and quantity of

	<p>culverts and catch basins, redefining ditches, implementing backflow preventors, installing bioswales, bioretention cells, etc. The previously developed Stormwater Action Plan will determine project prioritization.</p> <ul style="list-style-type: none"> <li>- Permitting</li> <li>- Construction</li> <li>- Construction Administration</li> <li>- Construction Inspections</li> </ul>
<p>Hazard(s) Addressed by Project</p>	<p>List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping)</p> <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> </ul>
<p>Type of Solution/Strategy Area</p>	<p>List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure)</p> <p><u>Stormwater Action Plan</u></p> <ul style="list-style-type: none"> <li>▪ Planning</li> <li>▪ Green and Hybrid Solutions</li> </ul> <p><u>Stormwater System Upgrade</u></p> <ul style="list-style-type: none"> <li>▪ Green and Hybrid Solutions</li> </ul>
<p>Type of Strategy Approach</p>	<p>List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity)</p> <ul style="list-style-type: none"> <li>▪ Build Adaptive Capacity</li> <li>▪ Accommodate</li> </ul>
<p>Project Estimated Cost</p>	<p><u>Engineering/Design</u> - \$500,000</p> <p><u>Implementation</u> - \$200,000 - \$750,000 (per stormwater retrofit)</p>
<p>Potential Implementation Funding Sources</p>	<p>Potential Sources for Project/Action Implementation</p> <p><u>Stormwater Action Plan</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 3</li> <li>▪ Federal Emergency Management Agency (FEMA) Building Resilient Infrastructure in Communities (BRIC) Capability and Capacity Building (C&amp;CB) Grant</li> <li>▪ NC Department of Environmental Quality Water Resources Development Grant (WRDG)</li> </ul> <p><u>Stormwater System Upgrade</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 4</li> <li>▪ Federal Emergency Management Agency (FEMA) Building Resilient Infrastructure in Communities (BRIC) Grant</li> <li>▪ Federal Emergency Management Agency (FEMA) Flood Mitigation Assistance (FMA) Grant</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> </ul>

	<ul style="list-style-type: none"> <li>▪ NC Department of Environmental Quality Water Resources Development Grant (WRDG)</li> <li>▪ NC Department of Environmental Quality 319 Grant</li> <li>▪ HUD Community Development Block Grant – Mitigation (CDBG-MIT)</li> </ul>				
Project Estimated Timeline	3 – 10 years (project may be completed in phases)				
Priority Rating	High				
Potential Submission for RCCP Phase 3	♦	Yes		No	Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.
Project Map					



Backup Generators at Critical Facilities



# TOWN OF AHOSKIE

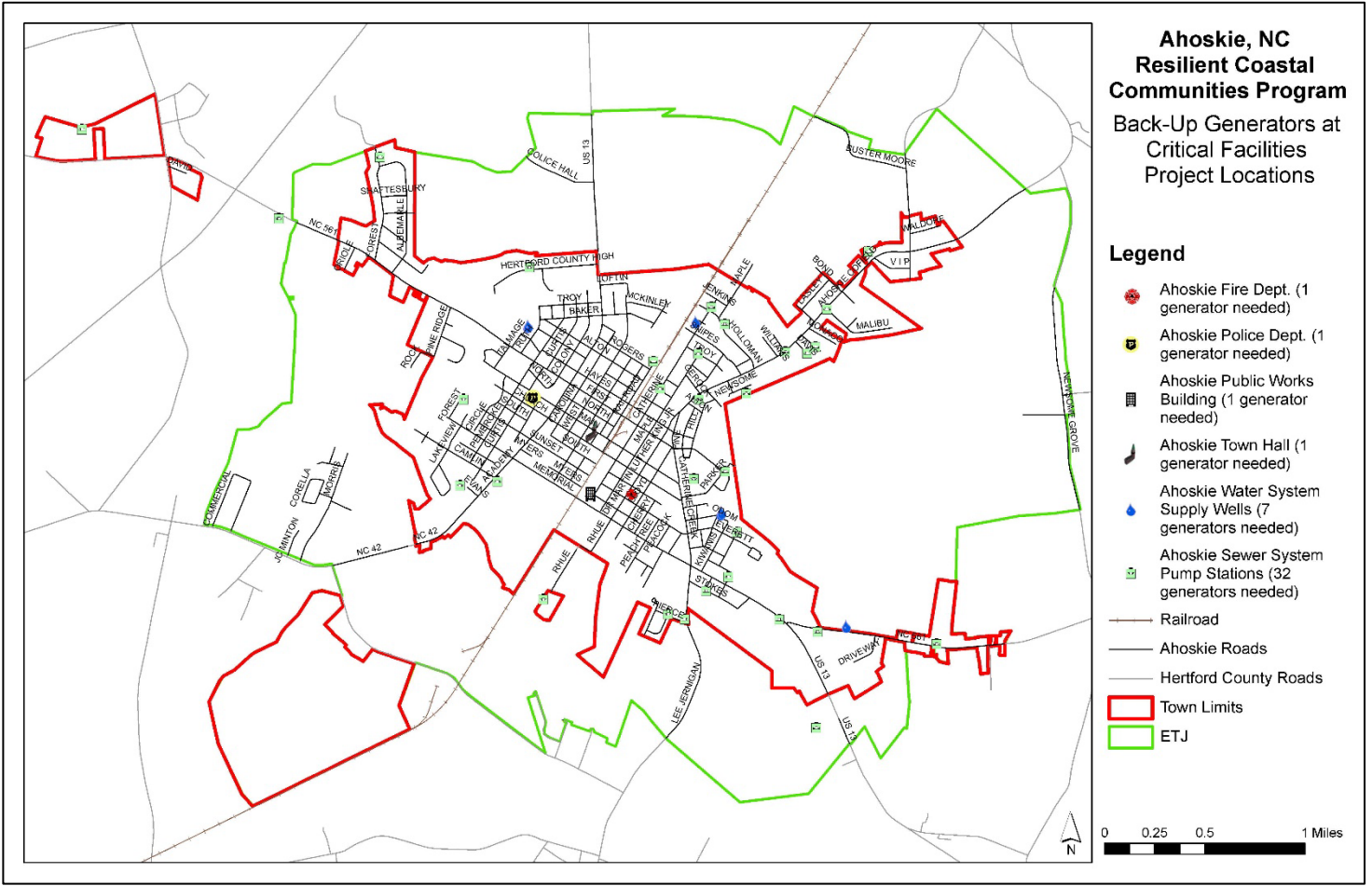
## Backup Generators at Critical Facilities

Project Summary	
Project Description	The purchase and installation of backup generators at critical facilities.
Project Scope	<p>Current generator needs include public water supply wells (7), sewer lift stations (32), and Town Hall (no generators in place). Facilities needing replacement generators include the Police Department, Public Works building, and the Fire Department.</p> <p>Establish back-up generators at all identified critical facilities and replace aging generators that are no longer operating efficiently. This would include developing a regularly scheduled equipment evaluation and maintenance method to ensure the generators continue to meet operational demands at town facilities.</p>
Hazard(s) Addressed by Project	<p>List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping)</p> <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> <li>▪ Wildfire</li> </ul>
Type of Solution/Strategy Area	<p>List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure)</p> <ul style="list-style-type: none"> <li>▪ Hard/Grey Infrastructure</li> </ul>
Type of Strategy Approach	<p>List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity)</p> <ul style="list-style-type: none"> <li>▪ Build Adaptive Capacity</li> </ul>
Project Estimated Cost	<p>1 – 100 kw: \$50,000 each with installation                      42 – 50 kw generators: \$35,000 each with installation</p>
Potential Implementation Funding Sources	<p>Potential Sources for Project/Action Implementation</p> <ul style="list-style-type: none"> <li>▪ FEMA Hazard Mitigation Grant Program (HMGP)</li> <li>▪ FEMA Pre-Disaster Mitigation Grant Program</li> <li>▪ Golden Leaf Grant</li> <li>▪ HUD Community Development Block Grant – Mitigation (CDBG-MIT)</li> </ul>
Project Estimated Timeline	1-2 years
Priority Rating	High



Potential Submission for RCCP Phase 3	Yes	◆	No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>
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Project Map





Stream Cleanout



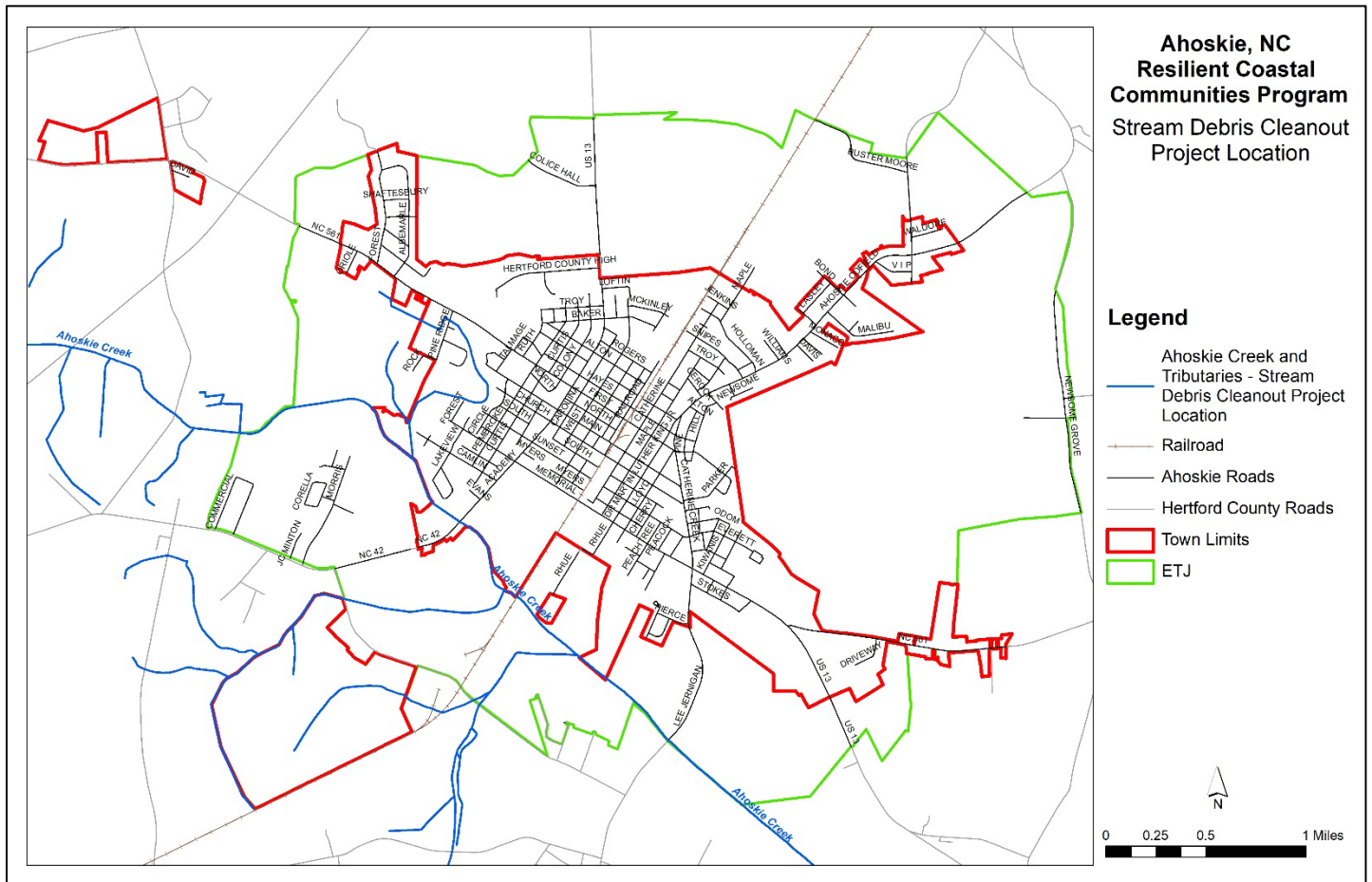
# TOWN OF AHOSKIE

## Stream Cleanout

Project Summary	
Project Description	Inspect debris blockage problems and secure funds for the clearance of debris from rivers, streams and tributaries. This would include Ahoskie Creek and its tributaries with a primary focus on Ahoskie Creek to increase drainage flow within the watershed.
Project Scope	Plan and implement a stream cleanout using the U.S. Army Corps of Engineers 1992 Woody Removal Guide and the NRCS Conservation Practice Standard – Clearing and Snagging (code 326) document. Only those log accumulations that are obstructing the flow of water shall be removed. This includes downed trees, broken tops and woody/vegetative debris that has fallen into the stream beds and is restricting water flow and/or contributing to flooding with heavy rains. Minimal disturbance to stream banks is required, therefore; hand-operated equipment will be the first choice in removal, such as winches, chain saws, shallow draft barge, or boat. Current requirements include all debris located within the 100-year flood plain must be removed from the flood plain or place a minimum of 30' from the top of the stream bank and strapped in place. Beavers will be eradicated, and dams will be removed in the cleanout process.
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> </ul>
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure) <ul style="list-style-type: none"> <li>▪ Hybrid/Green Infrastructure Solution</li> </ul>
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Build Adaptive Capacity</li> <li>▪ Accommodate</li> </ul>
Project Estimated Cost	Up to \$25 / linear foot (currently StRAP funds pay \$10.80 / linear foot for coastal streams)
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ NC Dept. of Agriculture Streamflow Rehabilitation Assistance Program (StRAP)</li> <li>▪ NCDEQ Stream Debris Removal Program</li> </ul>

Project Estimated Timeline	1-2 years			
Priority Rating	High			
Potential Submission for RCCP Phase 3	◆	Yes	No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>

**Project Map**



Green Stormwater Infrastructure at the R.L. Vann Center

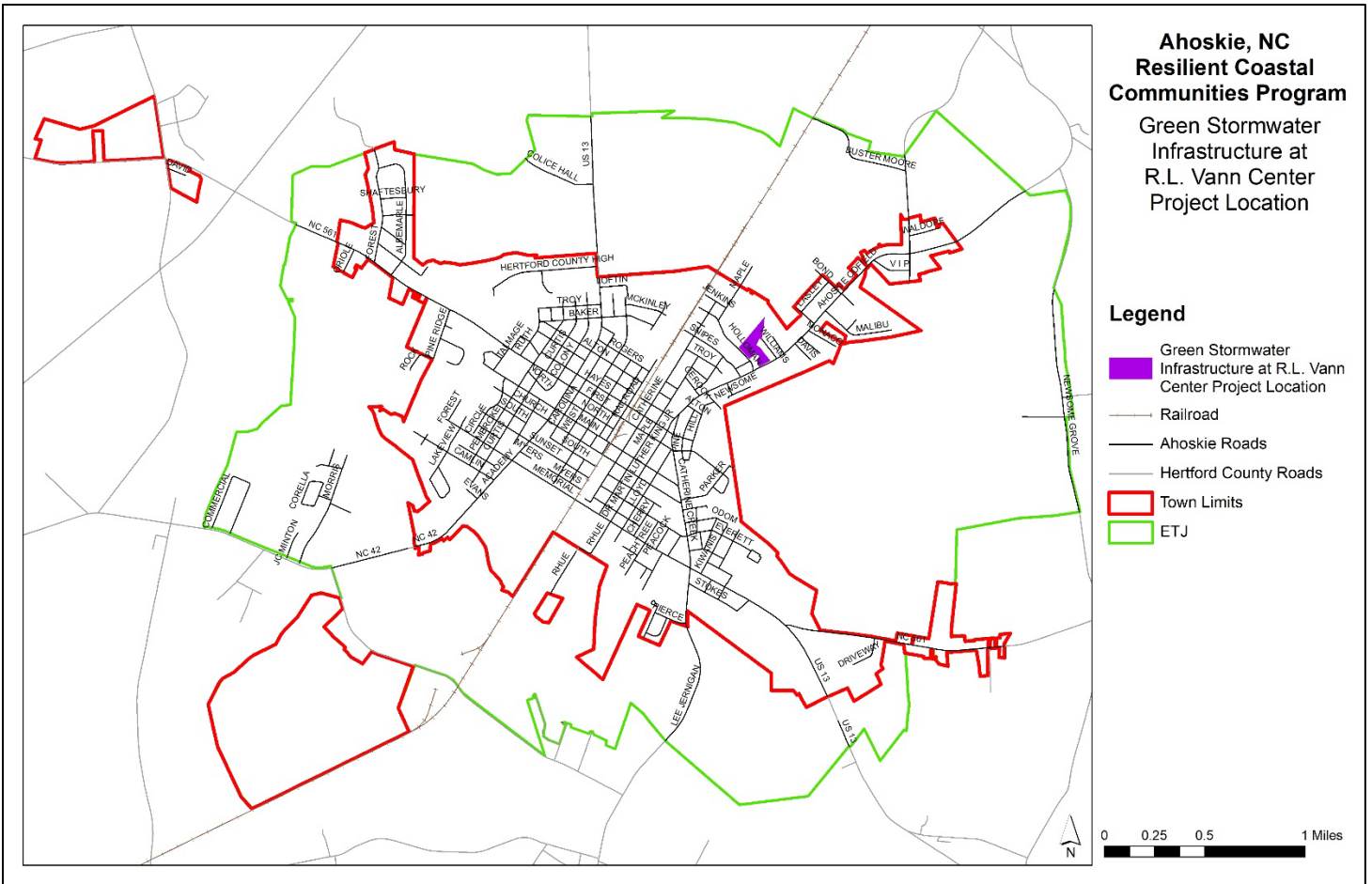


# TOWN OF AHOSKIE

## Green Stormwater Infrastructure at R.L. Vann Center

Project Summary	
Project Description	Engineer, design, and construct low impact development (LID) stormwater infrastructure at the R.L. Vann Community Resource Center.
Project Scope	<p><u>Engineering/Design</u> – Identify appropriate projects and complete designs for a LID stormwater infrastructure facility at the R.L. Vann Center. This important resource is located in Ward B. and provides support and assistance to the surrounding community. Elements of this project could include stormwater wetlands, rain gardens, bioretention cells, and vegetative plantings. This project will include an educational component such as signage and the development of materials for community residents, local officials and developers.</p> <ul style="list-style-type: none"> <li>- Hydro analysis</li> <li>- Natural Resources Assessment</li> <li>- Concept Planning</li> <li>- Engineering/Design</li> <li>- Permitting Due Diligence</li> </ul> <p><u>Implementation</u> – Construct projects identified in the engineering/design phase. Elements of this project could include stormwater wetlands, rain gardens, bioretention cells, and vegetative plantings.</p> <ul style="list-style-type: none"> <li>- Permitting</li> <li>- Construction</li> <li>- Construction Administration</li> <li>- Construction Inspections</li> </ul>
Hazard(s) Addressed by Project	<p>List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping)</p> <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> </ul>
Type of Solution/Strategy Area	<p>List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure)</p> <ul style="list-style-type: none"> <li>▪ Green and Hybrid Solutions</li> </ul>
Type of Strategy Approach	<p>List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity)</p> <ul style="list-style-type: none"> <li>▪ Accommodate</li> </ul>
Project Estimated Cost	<u>Engineering/Design</u> – \$65,000

	<u>Implementation</u> – \$175,000 – \$250,000				
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation  <u>Engineering/Design</u> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 3</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC Water Resources Development Grant</li> </ul> <u>Implementation</u> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 4</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC Water Resources Development Grant</li> </ul>				
Project Estimated Timeline	2-3 years (engineering/design and construction)				
Priority Rating	High				
Potential Submission for RCCP Phase 3	♦	Yes		No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>
Project Map					



Retrofit or Relocate Town Hall



# TOWN OF AHOSKIE

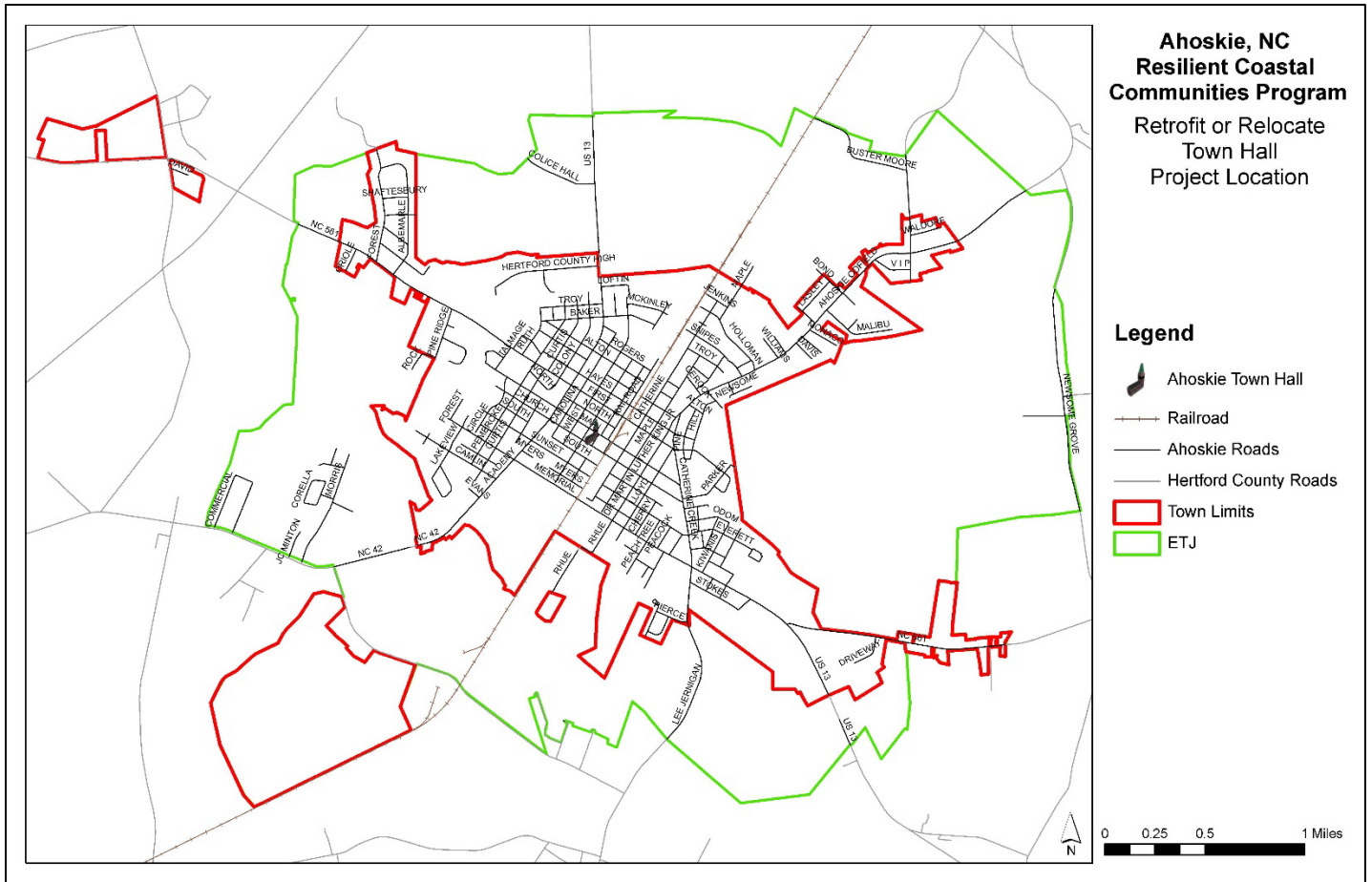
## Retrofit or Relocate Town Hall

### Project Summary

Project Description	Retrofit or relocate Town Hall to mitigate flood events.
Project Scope	<p><u>Engineering/Design</u> – Develop a Feasibility Study which conducts a facility assessment to determine the best solution to resolve basement flooding of the existing Town Hall. The resulting engineering/architecture/design scope will vary depending on assessed needs. The building could possibly be retrofitted, or a site for relocation of Town Hall may be determined. Flooding has periodically required that the Town Hall be closed, affecting town operations. In addition, flooding has caused mold in the basement and the need for remediation which could occur again if another major storm floods the basement, constituting a public health risk. The town’s preference is to retrofit the existing historic Town Hall.</p> <ul style="list-style-type: none"> <li>- Facility Assessment</li> <li>- Feasibility Study</li> <li>- Engineering/Design (Retrofit for flooding relief or new building at alternative site. Architectural and landscaping design included if new site.)</li> </ul> <p><u>Implementation</u> – The retrofitting or relocation of Town Hall, to be determined by the Feasibility Study and engineering/design phases.</p> <ul style="list-style-type: none"> <li>- Permitting</li> <li>- Construction</li> <li>- Construction Administration</li> <li>- Construction Inspections</li> </ul>
Hazard(s) Addressed by Project	<p>List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping)</p> <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> </ul>
Type of Solution/Strategy Area	<p>List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure)</p> <ul style="list-style-type: none"> <li>▪ Hard/Grey Infrastructure</li> </ul>

Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Avoid</li> <li>▪ Accommodate</li> <li>▪ Retreat</li> <li>▪ Protect</li> </ul>				
Project Estimated Cost	<u>Feasibility Study</u> - \$75,000  <u>Engineering/Architectural/Design</u> – \$120,000 – \$400,000  <u>Implementation</u> – \$250,000 - \$3,500,000				
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <ul style="list-style-type: none"> <li>▪ FEMA Flood Mitigation Assistance (FMA) Grant</li> <li>▪ FEMA Building Resilient Infrastructure in Communities (BRIC) Grant</li> <li>▪ FEMA Hazard Mitigation Grant Program (HMGP)</li> <li>▪ Golden Leaf Foundation</li> <li>▪ HUD Community Development Block Grant – Mitigation (CDBG-MIT)</li> </ul>				
Project Estimated Timeline	1-3 years				
Priority Rating	High				
Potential Submission for RCCP Phase 3		Yes	◆	No	<i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i>
Project Map					





Green Stormwater Infrastructure at Public Housing Developments



# TOWN OF AHOSKIE

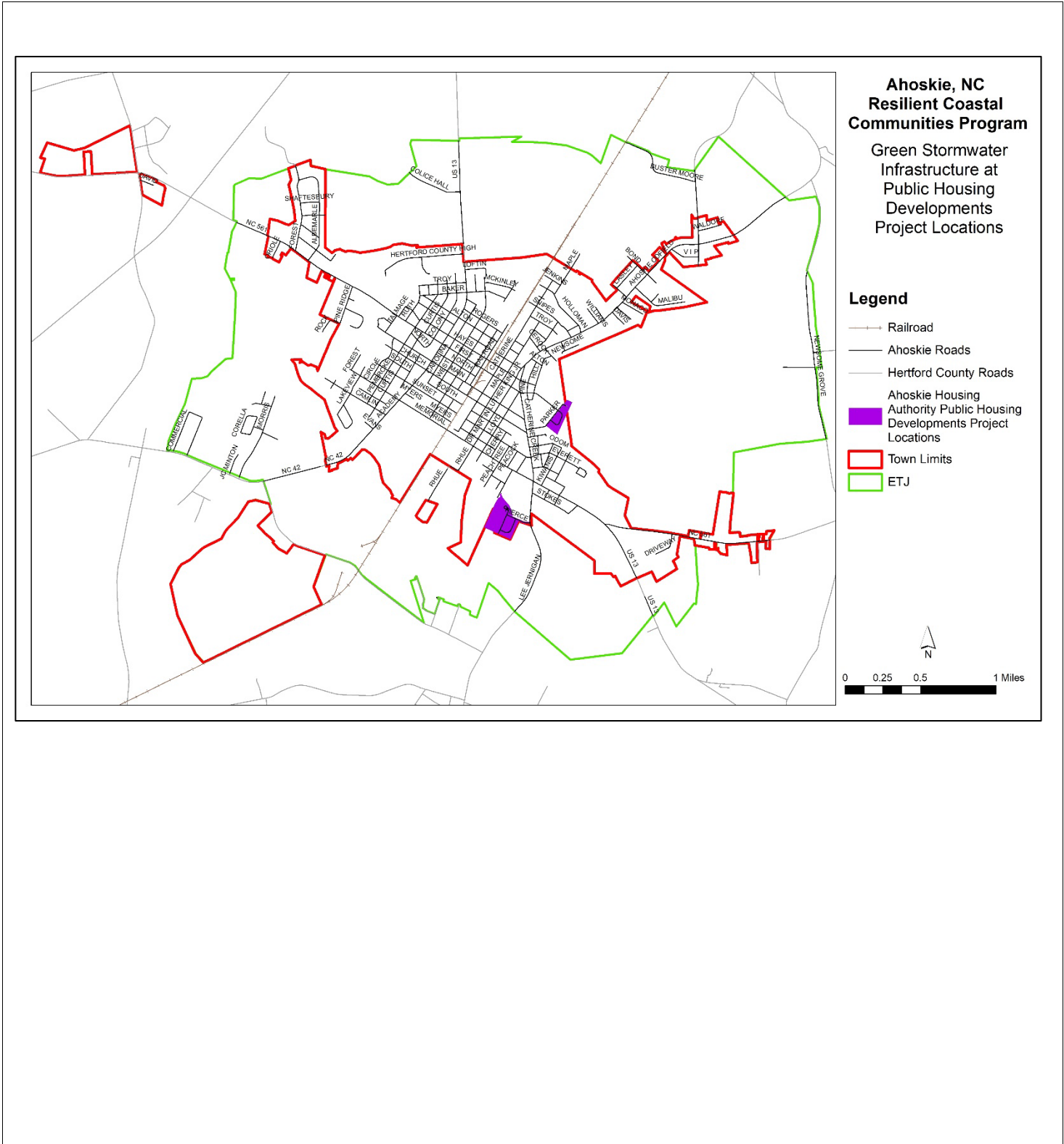
## Green Stormwater Infrastructure at Public Housing Developments

### Project Summary

Project Description	Implement green stormwater infrastructure throughout public housing developments owned by Ahoskie Housing Authority. 1.) Pierce Ave. / Burden St. / Vinson Dr. 2.) Parker Ave. / E First St.
Project Scope	<p><u>Engineering/Design</u> – Assess both public housing developments owned by the Ahoskie Housing Authority and develop Feasibility Studies to identify appropriate projects to relieve flooding. Complete engineering/design for identified solutions which could include hard/grey infrastructure elements (raising houses) and green stormwater infrastructure. Green stormwater infrastructure could include permeable parking, bioretention cells, etc. Educational signage will also be included. Feasibility Studies will be followed by engineering/design of construction ready projects for the two public housing developments.</p> <ul style="list-style-type: none"> <li>- Site Assessment</li> <li>- Hydro Analysis</li> <li>- Feasibility Study</li> <li>- Concept Planning</li> <li>- Engineering/Design</li> <li>- Permitting Due Diligence</li> </ul> <p><u>Implementation</u> – Construct identified flood mitigation / green stormwater infrastructure projects. Specific projects and placement will be determined during Feasibility Study and engineering/design phases. Educational signage will also be included.</p> <ul style="list-style-type: none"> <li>- Permitting</li> <li>- Construction</li> <li>- Construction Administration</li> <li>- Construction Inspections</li> </ul>
Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> </ul>
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure) <ul style="list-style-type: none"> <li>▪ Green and Hybrid Solutions</li> </ul>

<p>Type of Strategy Approach</p>	<p>List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity)</p> <ul style="list-style-type: none"> <li>▪ Accommodate</li> </ul>				
<p>Project Estimated Cost</p>	<p><u>Feasibility Study</u> - \$75,000</p> <p><u>Engineering/Design</u> – \$150,000 - \$250,000</p> <p><u>Implementation</u> – \$200,000 - \$1,000,000 / project</p>				
<p>Potential Implementation Funding Sources</p>	<p>Potential Sources for Project/Action Implementation</p> <p><u>Engineering/Design</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 3</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC Water Resources Development Grant</li> <li>▪ FEMA Flood Mitigation Assistance (FMA) Grant</li> <li>▪ FEMA Hazard Mitigation Grant Program (HMGP)</li> </ul> <p><u>Implementation</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 4</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC Water Resources Development Grant</li> <li>▪ FEMA Flood Mitigation Assistance (FMA) Grant</li> <li>▪ FEMA Hazard Mitigation Grant Program (HMGP)</li> </ul>				
<p>Project Estimated Timeline</p>	<p>4-5 years (engineering/design and construction)</p>				
<p>Priority Rating</p>	<p>High</p>				
<p>Potential Submission for RCCP Phase 3</p>	♦	Yes		No	<p><i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i></p>

Project Map



Stormwater Wetland at the Ballfields in Ahoskie Creek Recreation Complex



# TOWN OF AHOSKIE

## Stormwater Wetland at the Ballfields in Ahoskie Creek Recreation Complex

### Project Summary

#### Project Description

Design and construct a stormwater wetland west of the ballfields at the Ahoskie Creek Recreation Complex.

#### Project Scope

Engineering/Design – The design of a forested wetland (4 acres) with a 1,200 ft trail system that mimics the functions of natural wetlands and uses physical, chemical, and biological processes to treat stormwater pollution. Educational signage will be included. This feature will help relieve sogginess on the ball fields after heavy rain events along with improving water quality into Ahoskie Creek.

- Survey
- Natural Resources Assessment
- Concept Design
- Hydro Analysis
- Engineering/Design
- Permitting Due Diligence

Implementation – Construct a forested wetland to reduce flooding and improve water quality. Include a trail system with educational signage. Improvements could include grading, planting trees and other vegetation.

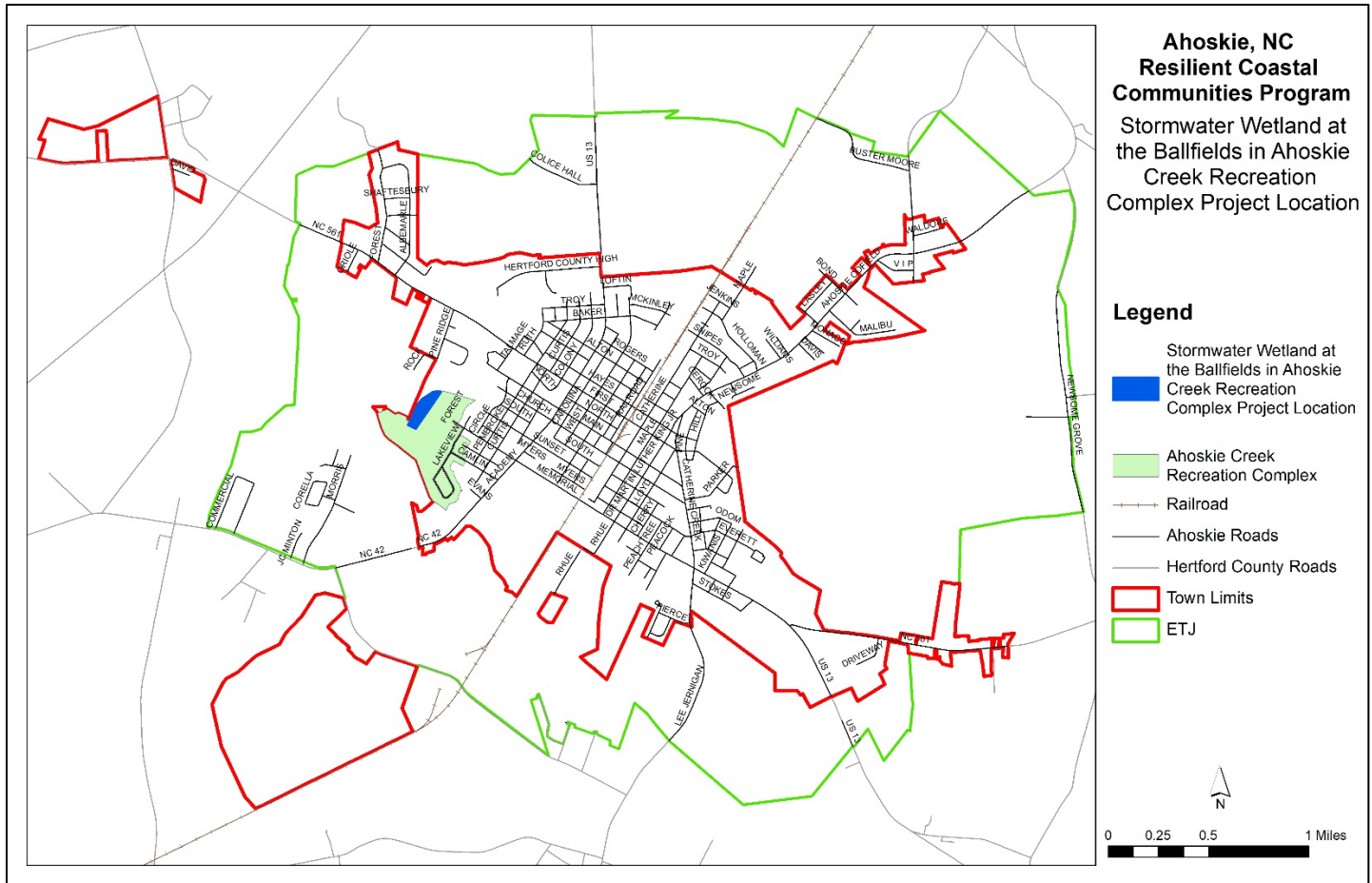
- Permitting
- Construction
- Construction Administration
- Construction Inspections

Monitoring – 5 yr. monitoring period to assess the success of the wetland system. This is also a mitigation eligibility requirement since the Ahoskie Recreation Complex is a FEMA buyout property. The wetland can also be used to provide wetland banking mitigation credits should the town need credits to offset other development projects.

- Hydrology Monitoring
- Vegetation Quadrante Monitoring
- Yearly Reports

Hazard(s) Addressed by Project	List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping) <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> </ul>			
Type of Solution/Strategy Area	List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure) <ul style="list-style-type: none"> <li>▪ Green and Hybrid Solutions</li> </ul>			
Type of Strategy Approach	List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity) <ul style="list-style-type: none"> <li>▪ Build Adaptive Capacity</li> <li>▪ Protect</li> </ul>			
Project Estimated Cost	<p><u>Engineering/Design</u> – \$130,000</p> <p><u>Implementation</u> – \$500,000 – \$1,200,000</p> <p><u>Monitoring</u> - \$25,000 - \$35,000 / year</p>			
Potential Implementation Funding Sources	Potential Sources for Project/Action Implementation <p><u>Engineering/Design</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 3</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC DEQ Water Resources Dev. Grant (WRDG)</li> </ul> <p><u>Implementation</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 4</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC DEQ Water Resources Dev. Grant (WRDG)</li> </ul>			
Project Estimated Timeline	2-3 years (engineering/design and construction)			
Priority Rating	High			
Potential Submission for RCCP Phase 3	♦	Yes	No	Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.

Project Map





Green Stormwater Infrastructure on Town-owned property



# TOWN OF AHOSKIE

## Green Stormwater Infrastructure on Town-owned Property

### Project Summary

Project Description	Complete a Feasibility Study with concept designs followed by strategically designing and constructing green stormwater infrastructure on Town-owned property.
Project Scope	<p><u>Engineering/Design</u> – Develop a Feasibility Study including site analysis of all town owned properties, identification of appropriate projects and concept designs as the first stage. Complete engineering/design for green stormwater infrastructure on town-owned property as the second stage to develop construction ready designs. There are several parcels where impermeable surfaces could be removed, bioretention cells could be installed, trees could be planted, stormwater infiltration medians, permeable parking, etc.</p> <ul style="list-style-type: none"> <li>- Site Analysis</li> <li>- Feasibility Study</li> <li>- Concept Planning</li> <li>- Engineering/Design</li> <li>- Permitting Due Diligence</li> </ul> <p><u>Implementation</u> – Construct identified green stormwater infrastructure projects. Specific projects and placement will be determined during Feasibility Study and engineering/design phases.</p> <ul style="list-style-type: none"> <li>- Permitting</li> <li>- Construction</li> <li>- Construction Administration</li> <li>- Construction Inspections</li> </ul>
Hazard(s) Addressed by Project	<p>List Hazards Specific to the Community Which Impact the Project Location (Refer to Hazard Mapping)</p> <ul style="list-style-type: none"> <li>▪ Flooding (Nuisance, Riverine)</li> </ul>
Type of Solution/Strategy Area	<p>List Strategy Area Column(s) from Matrix (e.g., Policy, Planning, Green and Hybrid [Nature-Based] Solutions, Hard/Grey Infrastructure)</p> <ul style="list-style-type: none"> <li>▪ Green and Hybrid Solutions</li> </ul>
Type of Strategy Approach	<p>List Strategy Approach from Matrix (e.g., Avoid, Accommodate, Protect, Retreat, Build Adaptive Capacity)</p> <ul style="list-style-type: none"> <li>▪ Accommodate</li> </ul>

<p>Project Estimated Cost</p>	<p><u>Feasibility Study</u> – \$100,000</p> <p><u>Engineering/Design</u> – \$60,000 - \$175,000 (per project)</p> <p><u>Implementation</u> – \$200,000 – \$1,000,000 (per project)</p>				
<p>Potential Implementation Funding Sources</p>	<p>Potential Sources for Project/Action Implementation</p> <p><u>Engineering/Design</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 3</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC Water Resources Development Grant</li> </ul> <p><u>Implementation</u></p> <ul style="list-style-type: none"> <li>▪ NC Resilient Coastal Communities Program Phase 4</li> <li>▪ NC Environmental Enhancement Grant (EEG)</li> <li>▪ NC Land and Water Fund Grant</li> <li>▪ NC Water Resources Development Grant</li> </ul>				
<p>Project Estimated Timeline</p>	<p>2-3 years (engineering/design and construction)</p>				
<p>Priority Rating</p>	<p>High</p>				
<p>Potential Submission for RCCP Phase 3</p>	♦	Yes		No	<p><i>Project must be a nature-based solution or hybrid solution to be considered for RCCP Phase 3.</i></p>
<p>Project Map</p>					

