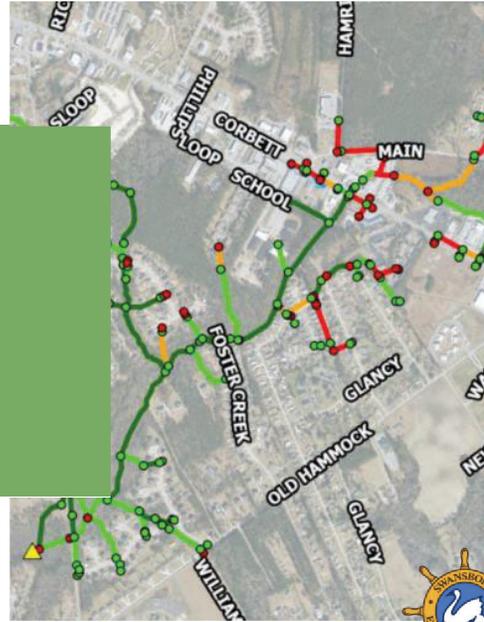




# Town of Swansboro

Stormwater Master Plan: Project Update

March 24, 2026



1

## Agenda

- Speaker Introductions
- Project Background
- Project Scope
- Summary of Completed Tasks
- Summary Remaining Tasks
- Questions



2

# Our Team



**Amanda Hollingsworth**  
*Project Manger*



**Emily Pettruny**  
*Water Resources Professional*



# Project Background

- The NC DEQ Local Assistance for Stormwater Infrastructure Investment (LASII) program awarded the Town a stormwater planning grant
- Total amount: \$400,000
- Project began January 2024

# Project Background

- Previous Town projects focused on stormwater management, flooding, and water quality:
  - 9-element “Watershed Restoration Plan” (2017)
  - “Resilient Coastal Communities Program” (RCCP) Phases 1 and 2: Resilience Strategy Report (May 2022)
  - “Resilient Coastal Communities Program” (RCCP) Phases 3: Water St. Drainage Improvements Design (May 2023)

TOWN OF SWANSBORO  
ONSLOW COUNTY, NORTH CAROLINA

## WATER STREET DRAINAGE IMPROVEMENTS

LOCATION: FROM WATER STREET TO W. CHURCH STREET  
BROAD STREET TO WATER STREET  
TYPE OF WORK: GRADING, PAVING, DRAINAGE, & EROSION CONTROL  
100% PLANS  
SUBMITTAL DATE: MAY 31, 2023



5

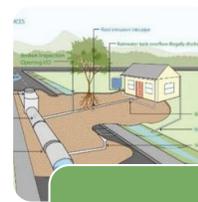
# Project Scope: Purpose and Objectives



Collect data of Town's existing stormwater system



Assess flooding risks and hazards



Identify and prioritize projects



6

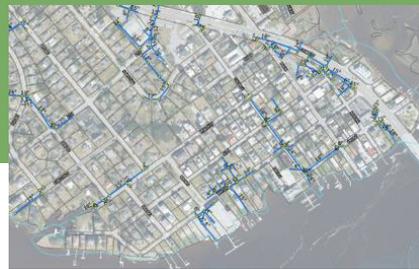
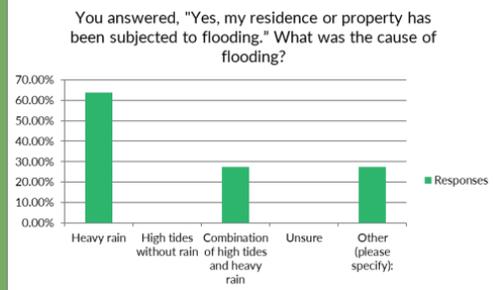
# Project Scope: Task Summary



7



- Data Collection and Assessment
  - Gathered Public Input Data
  - Collected Survey Information on Existing Stormwater Network to create an inventory database for Town staff to use
  - Throughout 2024



8

Data Collection and Assessment
Existing Conditions Modeling
Conceptual Projects
Summary Report
DWI Review
Completion of Project

- Existing Conditions Modeling
  - Model created based on survey data and validated with Public Input survey results and Town Staff input
  - Early – Mid 2025

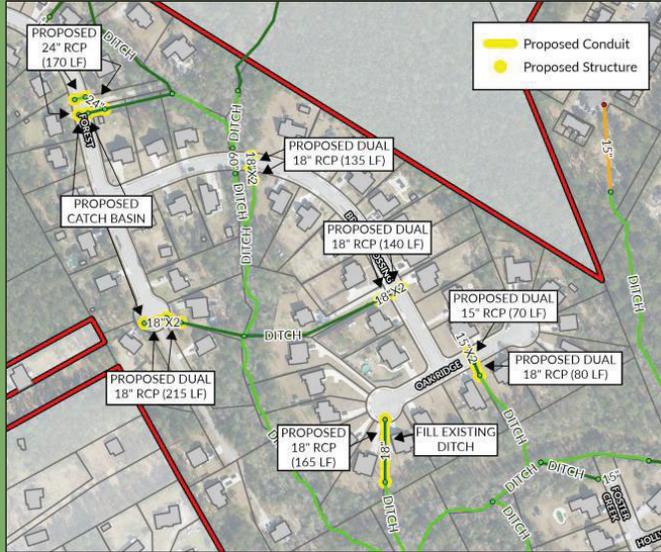
Data Collection and Assessment
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### Conceptual Projects

- Town, with guidance from WR, selected areas for concept development.
  - 3 areas were selected for preliminary concept development
  - Concepts included preliminary cost estimate
  - Fall 2025

Concept	Location
1	Forestbook Neighborhood
2	Holly Lane & Dogwood Lane
3	Water Street & Church Street (Downtown)

# Concept Design 1: Forestbrook Neighborhood



## Drainage Improvements

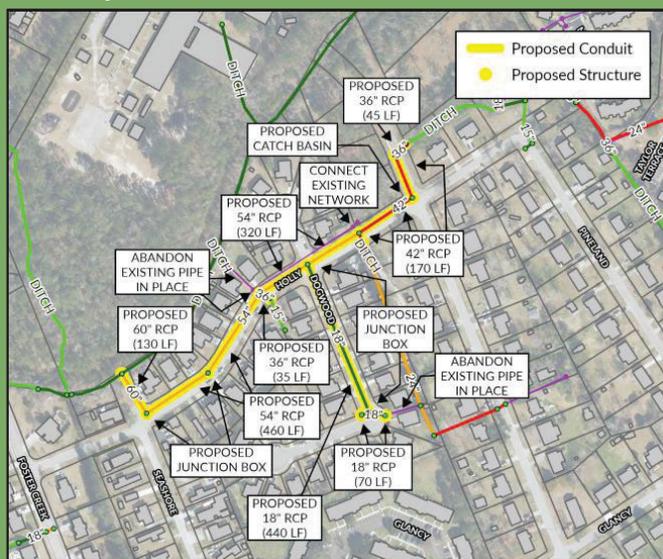
- ± 970 linear feet of stormwater pipe
- ± 100 linear feet of channel outlet improvements
- Replacement/installation of 15 stormwater structures

Estimated Cost = \$935,000



11

# Concept Design 2: Holly Lane



## Drainage Improvements

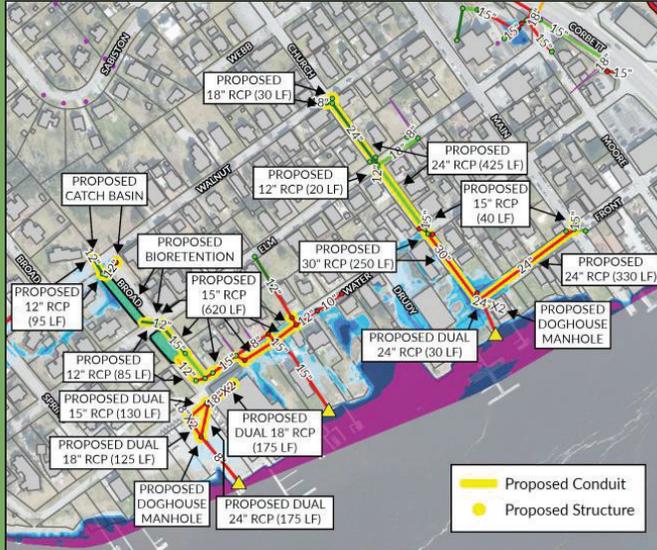
- ± 1670 linear feet of stormwater pipe
- ± 100 linear feet of channel outlet improvements
- Replacement/installation of 12 stormwater structures

Estimated Cost = \$2,474,000



12

# Concept Design 3: Water Street & Church Street



## Drainage Improvements

- ± 2530 linear feet of stormwater pipe
- Replacement/installation of 33 stormwater structures
- Construction of 2 bioretention cells

Estimated Cost = \$2,490,000



## Summary Report

- Finalized March 2026
  - Report details the methodology, findings, and recommendations
  - Prioritization Scoring Matrix developed to rank and prioritize proposed projects

Project Prioritization Criteria
<b>Condition of Infrastructure (10%)</b> Visual assessment of infrastructure per town staff and/or engineer
<b>Project Cost (20%)</b> Project construction cost estimate
<b>Severity of Flooding (10-year Event) (Totalling 45%)</b> Evaluates flooding impacts in a 10-year storm event to roadways, to lots, and to safety access.
<b>Project Drainage Area Served (10-year Event) (25%)</b> Drainage area (acres) that will be impacted by the implementation of the project.





## Prioritization Summary

Rank	Location	Raw Score	Weighted Score	Project Cost
1	Concept Design 3: Water Street & Church Street	24	3.7	\$2,490,000
2	Concept Design 2: Holly Lane & Dogwood Lane	15	2.45	\$2,474,000
3	Concept Design 1: Forestbook Neighborhood	13	1.85	\$935,000



15

## Recommendations

1. Stormwater Asset Inventory Management
2. Emergency Flood Response and Pumping
3. Watershed Restoration and Historic District Preservation
4. Outfall Protection and Backflow Prevention
5. Formalized Capital Improvement Plan
6. Identification and Pursuit of Stormwater Funding Opportunities



16



**Remaining Effort**

- Submit to DWI for Review
- Plan Adoption
- Project Closeout

**Future Effort**

- Obtain funding for finalized design and construction



17




**Thank You**

Questions?

18