



## *City of Boiling Spring Lakes*

9 East Boiling Spring Road  
Southport, NC 28461

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### STAFF REPORT

**Agenda Date:**

January 6, 2026

**Title:**

Stormwater Department Status of Work Completed

**Department:**

Stormwater

**Background Information:**

The City has created a new stormwater department to implement and mitigate the effects of stormwater flooding in the City limits that has become worse over the last several years due to the increase of building development. The increase in building development impacts the existing roadside drainage ditches/swales, primary drainage ditches and mechanical conveyance systems with additional stormwater from new impervious surfaces. In order to limit flooding due to the increased development, the stormwater department was created to maintain the existing stormwater infrastructure, plan for future impacts from new development, implement strategies to mitigate flooding and provide support to other City Departments with permitting and general master planning. The information below provides a description and photos of work that has been completed since the inception of the department. Currently the team has reshaped and ditched a total of **19,969 lf.** of roadside drainage ditches.

In addition to the ditching, several new culverts have been installed throughout the city, including several 60 inch HDPE pipes at the intersection of West BSL Road and at the intersection of Hawthorne and W. Ridge Road. These specific areas needed repair and replacement from previous storms events or existing pipe material failure. As we inspect areas of concern, it has become apparent the older culverts that are galvanized metal pipe are deteriorating and causing issues. As we investigate further, pipes that seem problematic will be replaced with new High Density Polyethylene Pipe (HDPE). This material is standard for stormwater systems and has a high corrosion-resistance, durable with a long service life.

In addition to pipe replacement, the city has sent out letters for stormwater easement requests to residents throughout the city. Currently we have received several positive responses back from

residents agreeing to allow the city permission to access and upgrade primary stormwater management ditches/culverts. This is a positive step towards upgrading and improving the stormwater management system and allowing the city to minimize flooding throughout the area.

In addition to replacing culverts and cleaning drainage ditches, the team is also removing overgrown vegetation from many of our primary ditches, checking existing storm pumps and preparing areas that are flood prone prior to major storm events.

**Financial Impact:**

The financial impact to the City will have cost savings overall when stormwater and flooding have less of an impact to City infrastructure and residential properties.

**Recommendation:**

No additional recommendations are being considered since last month's report.

**Attachments:**

The following list below provides a description of the work that has been completing in the last couple months:

Note: The team has reshaped and cleaned approximately 4,572 lf. of drainage ditches to include the following area;

- |                                 |  |
|---------------------------------|--|
| 1.) 466 lf. Cougar Road         | 8.) 659 lf. Sycamore Road                |
| 2.) 504 lf. Parkway/Morningside | 9.) 608 lf. Goldsboro Road               |
| 3.) 141 lf. North Shore Road    | 10.) 351 lf. Carolina Road               |
| 4.) 158 lf. Nickolaus Road      | 11.) 258 lf. W. Boiling Spring Lakes Rd. |
| 5.) 332 lf. Fifty Lakes Drive   | 12.) 557 lf. Kannapolis Road             |
| 6.) 366 lf. Charlestown Road    | 13.) 91 lf. Beech Road                   |
| 7.) 81 lf. Hawthorne Road       |  |

**Total Ditching for November and December (12-11-2025) = 4,572 lf.**

## PHOTOS



Culvert Replacement  
West Boiling Spring Lakes Road



Culvert Replacement  
West Boiling Spring Lake Road



Culvert Protection  
West Boiling Spring Lakes Road



Culvert Protection  
West Boiling Spring Lakes Road





Culvert Replacement  
Hawthorne and W. Ridge Road



Culvert Replacement  
Hawthorne and W. Ridge Road



Culvert Installation  
Cherry Road



Culvert Installation  
Cherry Road





Ditch Restoration  
North Shore Drive



Ditch Restoration  
North Shore Drive