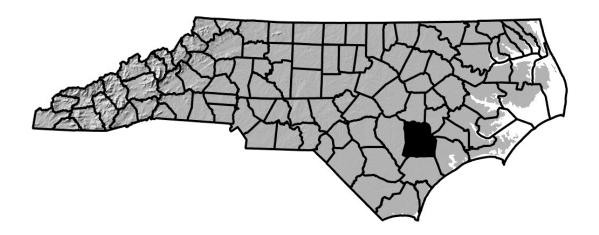
## **ANNUAL REPORT FOR 2023**



Br. 36 over Maxwell Creek on NC 11 Temporary Impact Site

**Duplin County TIP No. B-5639** 

**COE Action ID: SAW-2017-00473** 

DWR Project #: 20200469



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November 2023

## TABLE OF CONTENTS

SUM	MMARY	1
1.0	Introduction .1 Project Description .2 Purpose .3 Project History .4 Debit Ledger	2 2 2
2.0	Vegetation:  .1 Success Criteria	3 3 4
3.0	Overall Conclusions and Recommendations	4
Figur	re 1 – Vicinity Map	5

### **APPENDICES**

Appendix A – Site Photos and Site Maps

#### SUMMARY

Bridge #36 over Maxwell Creek on NC 11 temporary impact site is located in Duplin County and hereafter referred to as the Maxwell Creek temporary impact site. This is an annual report for temporary impacts associated with TIP No. B-5639 bridge replacement of Bridge #36 over Maxwell Creek on NC 11. Wetland reforestation was completed in December 2022.

The temporary impacts encompass approximately 0.27 acres for temporary fill and 0.10 acres for hand clearing within a wetland for the bridge project. The area that was impacted is being monitored for two years to ensure that it re-attains jurisdictional wetland status.

After the first year of monitoring, the Maxwell Creek Temporary Impact Site shows by visual observation that the temporarily impacted area is re-attaining jurisdictional wetland status. The visual inspection noted very few of the planted seedlings were surviving but the temporary impact area is revegetating with herbaceous vegetation.

Due to an overhead aerial powerline within the planted tree area, NCDOT proposed to the agencies to continue monitoring the site for two years for natural revegetation of this area but, no further wetland reforestation will take place. NCDWR and USACE concurred through email correspondence.

NCDOT proposes to continue monitoring at the Maxwell Creek temporary impact site in 2024.

#### 1.0 INTRODUCTION

#### 1.1 Project Description

The Maxwell Creek temporary impact site is located in Duplin County at Bridge #36 over Maxwell Creek on NC 11 (Figure 1). The temporary impacts encompass approximately 0.27 acres for temporary fill and 0.10 acres for hand clearing within a wetland for the bridge project. The area that was impacted is being monitored for two years to ensure that it re-attains jurisdictional wetland status.

#### 1.2 Purpose

In order for a temporary impact site to be considered successful, a site must meet the success criteria. This report details the monitoring in 2023 at the Maxwell Creek temporary impact site.

#### 1.3 Project History

December 2022 September 2023 Wetland Reforestation Completed Vegetation Monitoring (Year 1)

#### 1.4 Debit Ledger

The restoration of the Maxwell Creek temporary impact site was used entirely to compensate for temporary impacts on the B-5639 project. There were no wetland mitigation credits generated from the restoration of the temporary impacted area.

# 2.0 VEGETATION: MAXWELL CREEK TEMPORARY IMPACT SITE (YEAR 1 MONITORING)

#### 2.1 Success Criteria

#### **ACOE** permit:

Condition #2. Once the site has been replanted, the Department should monitor the site for a minimum of two years to demonstrate site restoration. At the conclusion of the second year an on-site meeting should be scheduled with the Corps project manager to demonstrate site restoration. If the site still shows signs of disturbance a second remediation plan will be necessary or mitigation credits for the failed restoration area.

#### **NCDWR** permit:

Condition #8. In accordance with commitments made in your application, the area for the temporary detour will be restored to pre-construction conditions and reforested per drawing described in April 20, 2020 email and additional information provided. Due to the possibility that compaction and/or other site alterations might prevent the temporary wetland impact area from re-attaining jurisdictional wetland status; the permittee shall provide an update on the wetland areas temporarily impacted at the on-site detour alignment. This update shall be conducted for two growing seasons after completion of the work at the temporary on-site detour and shall consist of photographs and a brief report on the progress of the areas in re-attaining wetland jurisdictional status. Upon submission of this update to the NCDWR, the permittee shall schedule an agency field meeting with the NCDWR and the USACE to determine if the wetland areas temporarily impacted by this project have re-attained jurisdictional wetland status.

#### 2.2 Description of Species

The following wetland species were planted in the temporary impact area:

Quercus nigra, Water Oak
Quercus phellos, Willow Oak
Taxodium distichum, Baldcypress
Nyssa aquatica, Water Tupelo

#### 2.3 Results of Vegetation Monitoring

The impacted area where the temporary impacts occurred is re-attaining jurisdictional wetland status. A few water oak and baldcypress seedlings were noted surviving throughout the planted area. Other species noted within the temporary impacted area included soft rush, cattail, *Scirpus* sp., sweetgum, and various grasses. Portions of the site were inundated at the time of monitoring.

#### 2.4 Conclusions

There were approximately 0.27 acres for temporary fill and 0.10 acres for hand clearing within a wetland at the Maxwell Creek temporary impact site. There were no plots established on the site. By visual observation, the Maxwell Creek temporary impact site shows that the impacted areas are re-attaining jurisdictional wetland status.

#### 3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue monitoring at the Maxwell Creek temporary impact site in 2024.

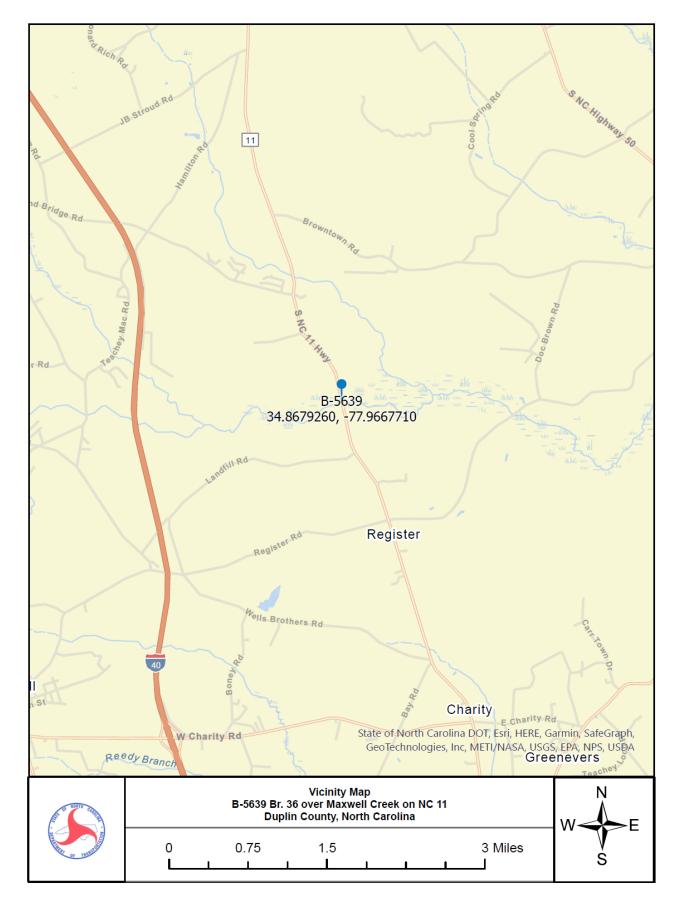


Figure 1. Vicinity Map

# APPENDIX A SITE PHOTOS & SITE MAPS

# Maxwell Creek Temporary Impact Site

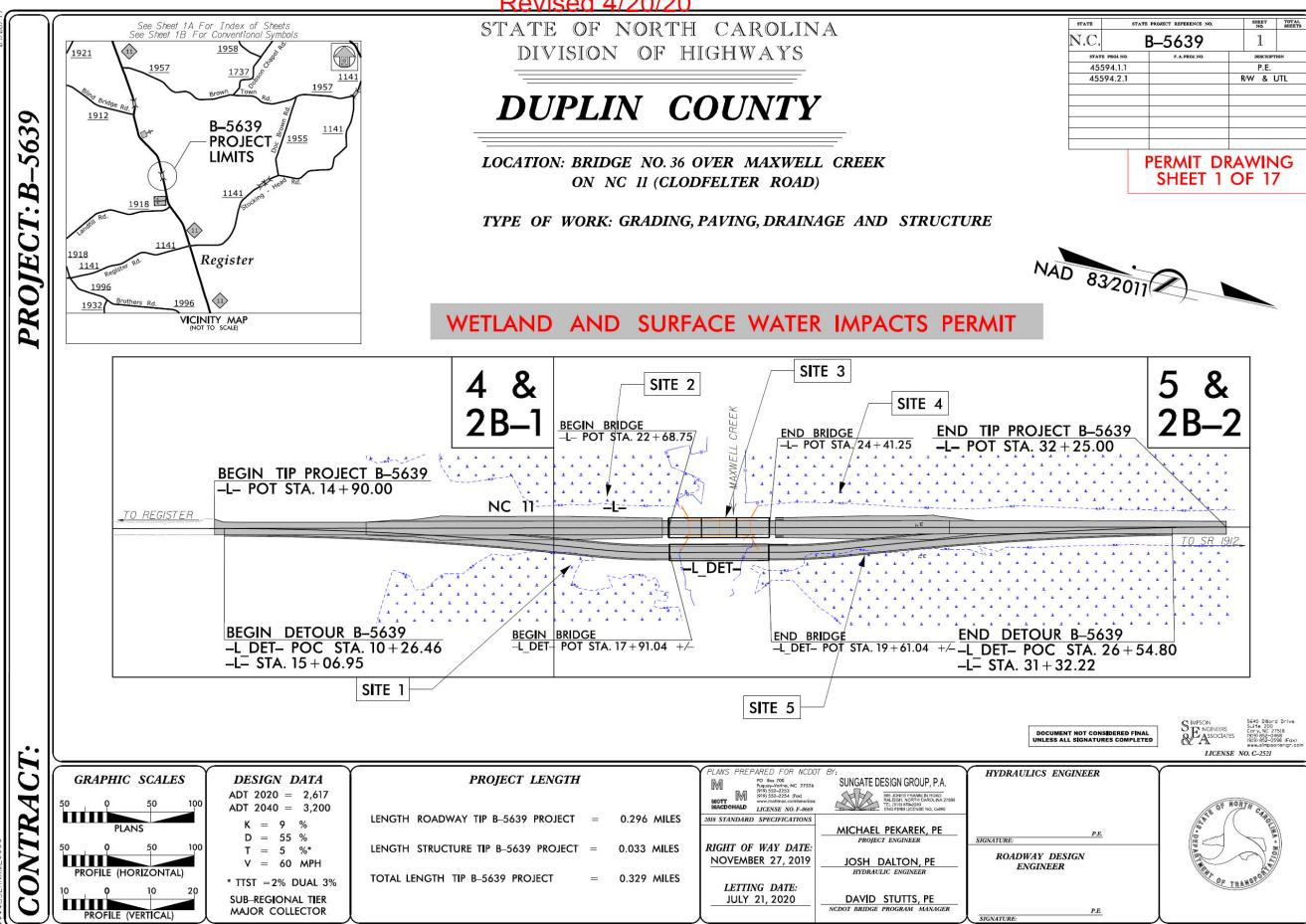


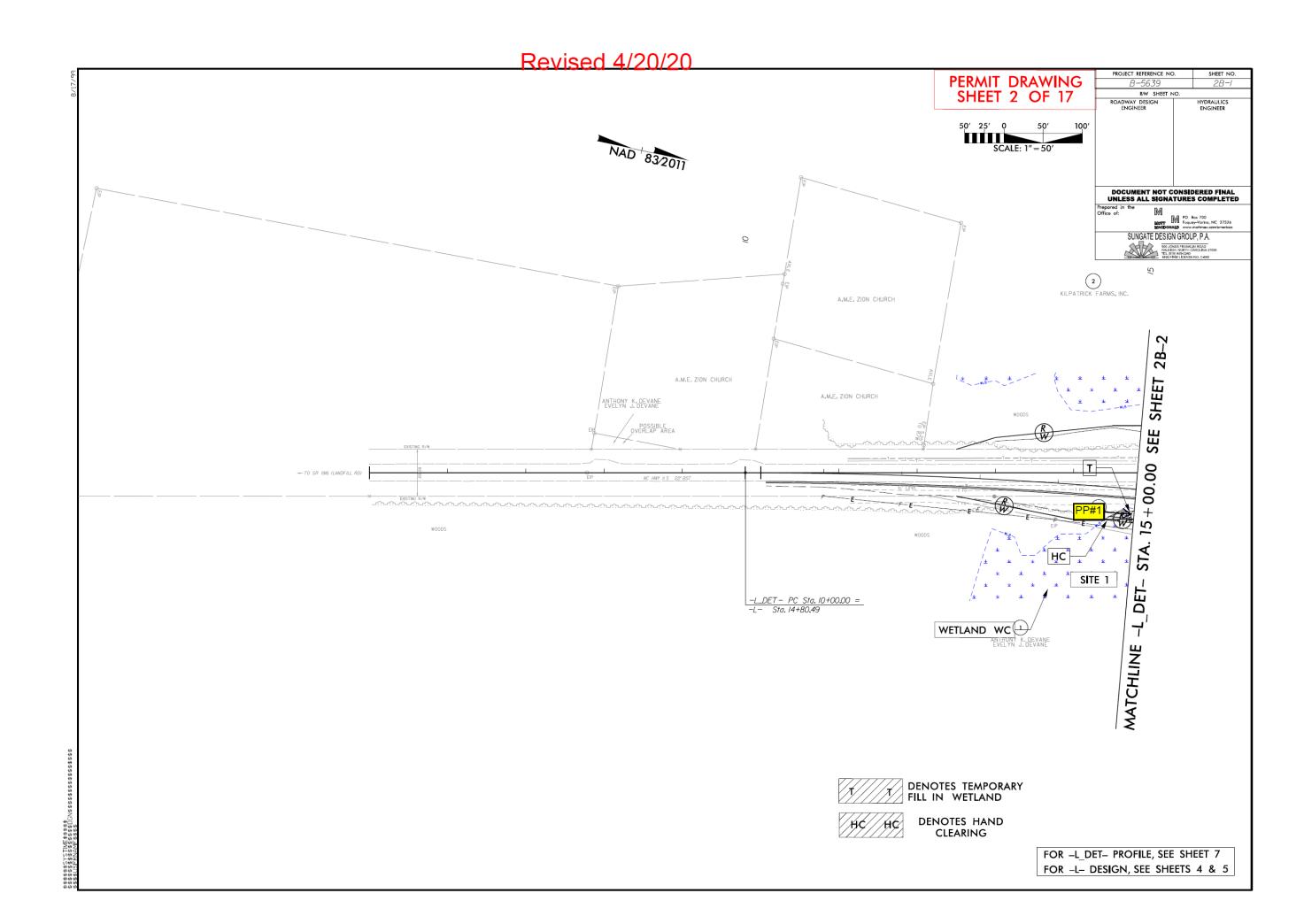
PP#1



PP#2

September 2023





Revised 4/20/20 PROJECT REFERENCE NO. RW SHEET NO.

ROADWAY DESIGN
ENGINEER 50' 25' 0 HYDRAULICS ENGINEER DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SUNGATE DESIGN GROUP, P.A. PERMIT DRAWING 2B-1 SHEET 4 OF 17 SHEET SEE +00.00 15 STA. DET TS MATCHLINE SITECLAS II RIP RAP <u>-L\_DET - PT Sta. 27+54.95 =</u> -L- Sta. 32+32.36 WETLAND WC L\_DET - PC Sta. 19+88,37 \_\_L\_DET - PT Sta. 15+86.93 WETLAND WA -L\_DET - PC Sta. 16+74.93 -L\_DET - PT Sta. 17+66.58 ANTHONY K. DEVANE EVELYN J. DEVANE -L\_DET - PT Sta. 20+80.02 DENOTES HAND CLEARING 4 KILPATRICK FARMS, INC. DENOTES TEMPORARY
IMPACTS IN SURFACE WATER GARNETT McCALOP & LOIS CHASTEN, HEIRS DENOTES TEMPORARY DENOTES EXCAVATION IN WETLAND FOR -L DET- PROFILE, SEE SHEET 7 FOR -L- DESIGN, SEE SHEETS 4 & 5