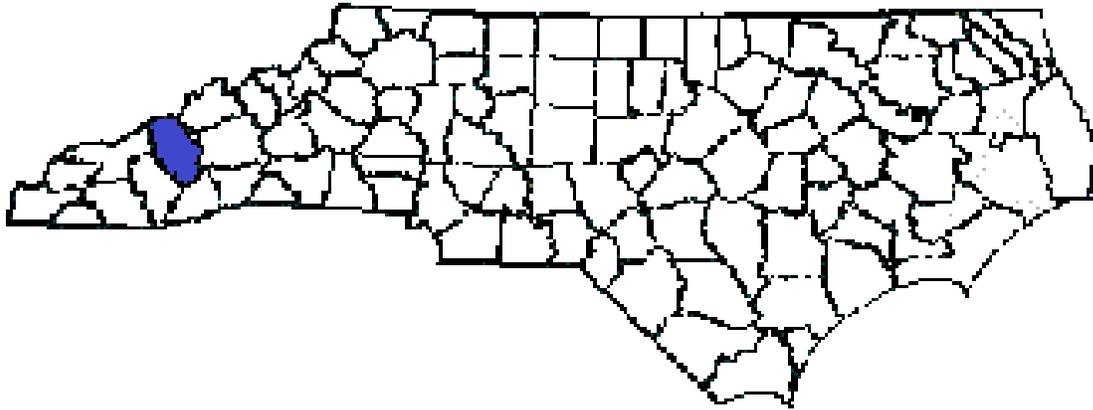


# ANNUAL REPORT FOR 2014



**West Fork Pigeon River Site  
Haywood County  
TIP No. B-3187  
Biological Opinion**



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North Carolina Department of Transportation  
August 2014

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## **SUMMARY**

The West Fork Pigeon River Site is located in Haywood County. The site was planted in January 2013 per the conditions stated within the Biological Opinion.

Locations where the riparian area is disturbed shall be re-vegetated with native woody species. Riparian plantings will be monitored annually for a period of 5 years after planting. If there is less than a 75 percent survival rate then the riparian area will be replanted.

After the second year of monitoring, the West Fork Pigeon River Site revealed an average tree density of 595 trees per acre. This average is above the 75 percent survival rate (510 trees per acre) required by the Biological Opinion.

NCDOT proposes to continue monitoring the planted vegetation at the West Fork Pigeon River Site in 2015.

## 1.0 INTRODUCTION

### 1.1 Project Description

The West Fork Pigeon River Site is located at Bridge No. 79 over West Fork Pigeon River on SR 1112 (Chambers Farm Rd) (Figure 1). The site consists of riparian plantings that will be monitored annually for a period of 5 years after planting to ensure that no less than 75 percent survival is achieved.

### 1.2 Purpose

In order for this site to be considered successful, the site must meet the success criteria. This report details the monitoring in 2014 at the West Fork Pigeon River Site.

### 1.3 Project History

January 2013	Site Planted
August 2013	Vegetation Monitoring (Year 1)
July 2014	Vegetation Monitoring (Year 2)

## 2.0 VEGETATION: WEST FORK PIGEON RIVER SITE (YEAR 2 MONITORING)

### 2.1 Success Criteria

Per the Biological Opinion, the riparian plantings will be monitored annually for a period of 5 years after planting. If less than 75 percent survival then, the riparian area will be replanted.

### 2.2 Description of Species

The following tree species were planted in the Riparian Area:

*Platanus occidentalis*, American Sycamore

*Liriodendron tulipifera*, Yellow Poplar

*Fraxinus pennsylvanica*, Green Ash

*Quercus rubra*, Northern Red Oak

### 2.3 Results of Vegetation Monitoring

Plot #	American Sycamore	Yellow Poplar	Green Ash	Northern Red Oak	Total (Year 2)	Total (at planting)	Density (Trees/Acre)
1	7	8	15	5	35	40	595
<b>Year 2 Average Density</b>							<b>595</b>
Year 1 Average Density							595

## **2.4 Conclusions**

After the second year of monitoring, the 2014 vegetation monitoring of the site revealed an average density of 595 trees per acre. This average is above the minimum success of 510 trees per acre (75% survival).

## **3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS**

NCDOT proposes to continue vegetation monitoring at the West Fork Pigeon River Site in 2015.



**Figure 1. Site Location Map**

**APPENDIX A**

**SITE PHOTOS**

# West Fork Pigeon River Site



Photo Point #1



Photo Point #2



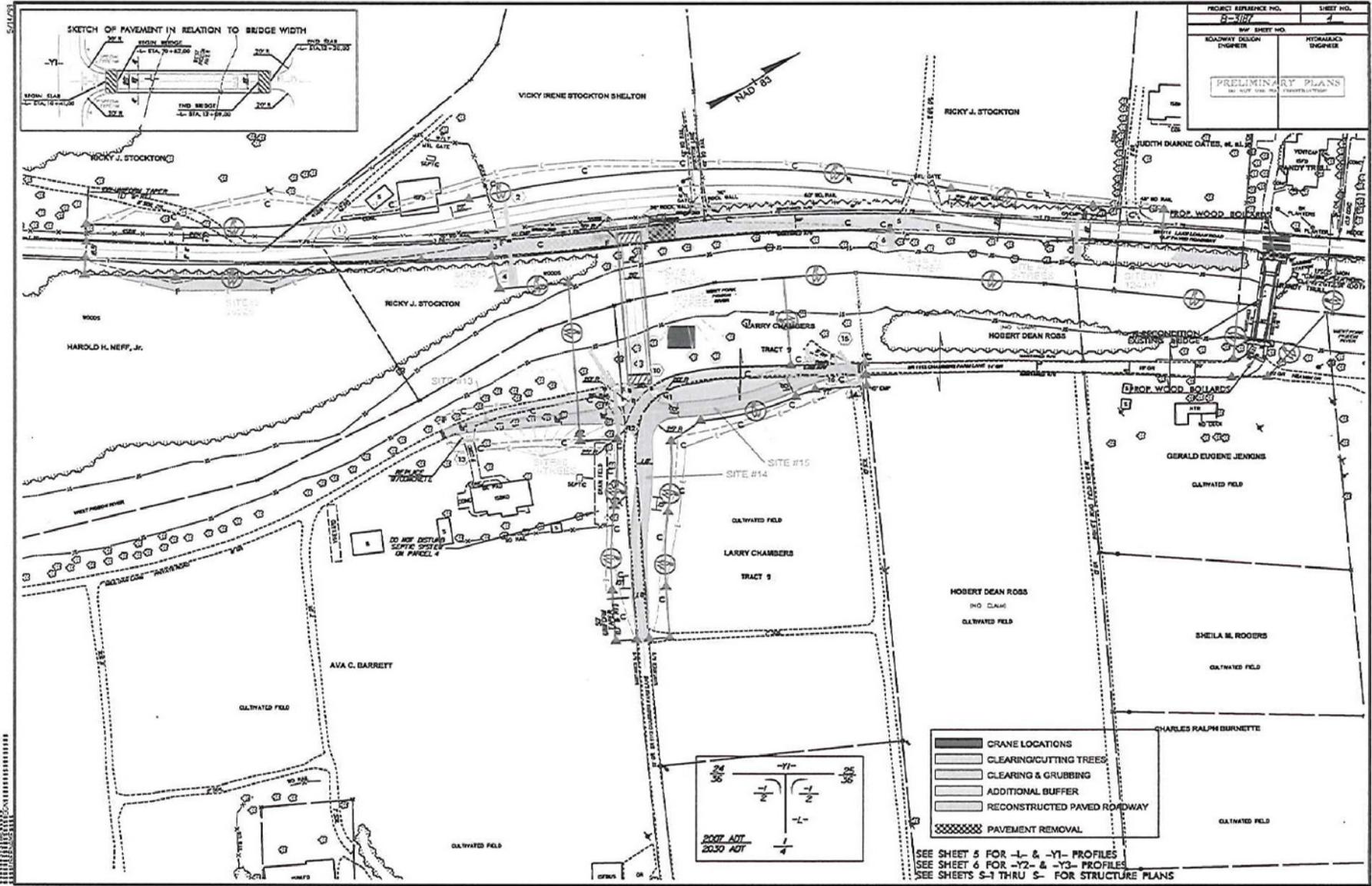
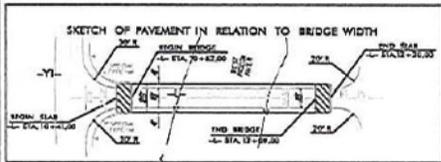
Photo Point #3

July 2014

**APPENDIX B**

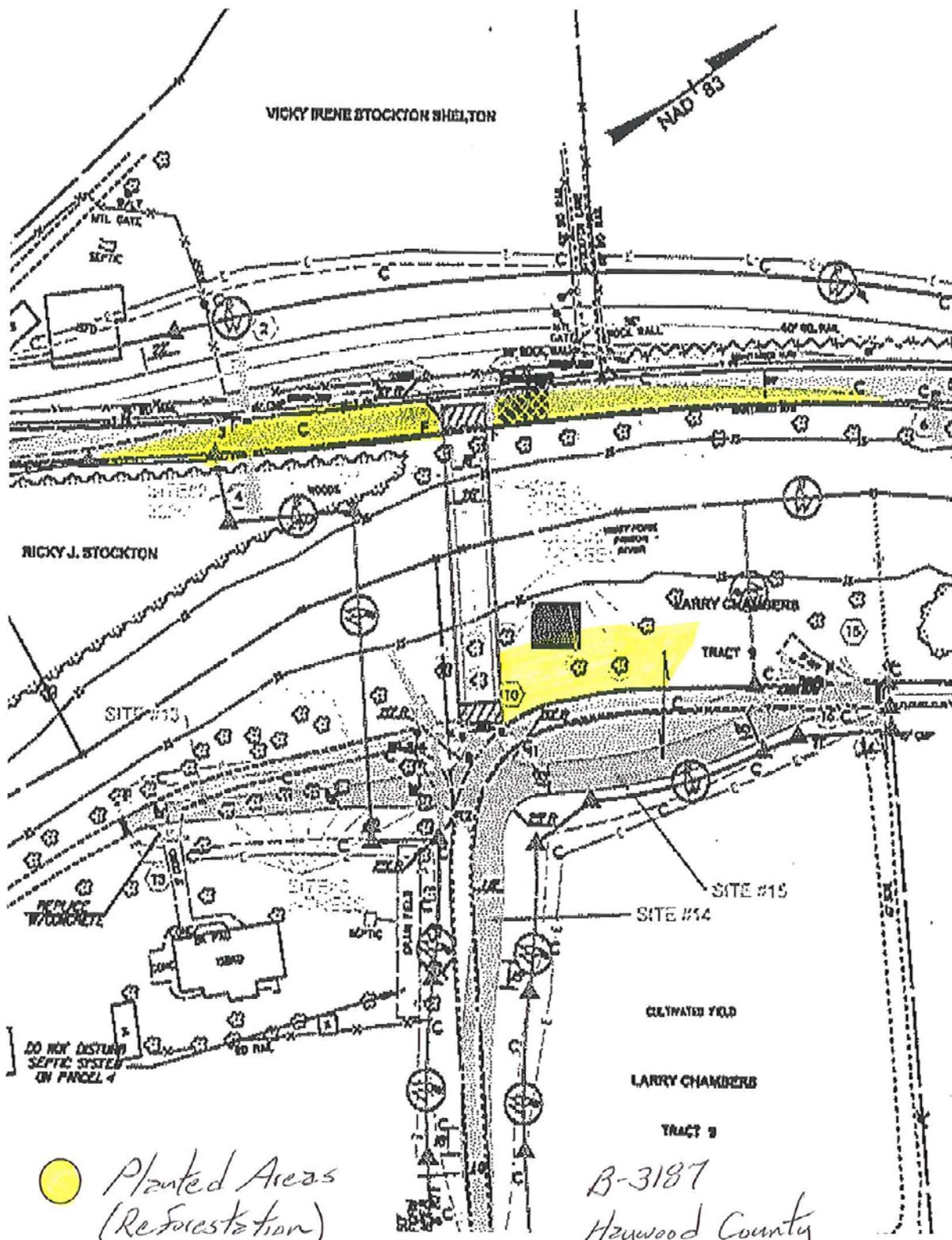
**PLAN SHEETS**

PROJECT ENTRANCE NO.	SHEET NO.
8-101	4
SWF SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
NO. 101-100-100	



- CRANE LOCATIONS
- CLEARING/CUTTING TREES
- CLEARING & GRUBBING
- ADDITIONAL BUFFER
- RECONSTRUCTED PAVED ROADWAY
- PAVEMENT REMOVAL

SEE SHEET 5 FOR -1- & -Y1- PROFILES  
 SEE SHEET 6 FOR -Y2- & -Y3- PROFILES  
 SEE SHEETS S-1 THRU S- FOR STRUCTURE PLANS



Planted Areas  
 (Reforestation)

B-3187  
 Haywood County