

## Type I and II Ground Disturbing Categorical Exclusion Action Classification Form

STIP Project No.	B-4606
WBS Element	38431.1.2
Federal Project No.	BRZ-1780(4)

A. Project Description:

This project replaces Pitt County Bridge No. 17 on SR 1780 (Boyds Road) over Chicod Creek. The bridge will be replaced on the existing alignment while detouring traffic offsite, see attached vicinity map.

B. Description of Need and Purpose:

The purpose of the project is to address a forty-seven-year-old bridge with a deteriorating timber substructure and low posted weight limited.

C. Categorical Exclusion Action Classification: (Check one)

- TYPE I  
 TYPE II

D. Proposed Improvements:

28. Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings, if the actions meet the constraints in 23 CFR 771.117 (e)(1-6).

E. Special Project Information:

**Offsite Detour** - Pitt County Emergency Services along with Pitt County Schools Transportation have indicated that the detour is acceptable. NCDOT Division 2 has indicated the condition of all roads, bridges and intersections on the offsite detour are acceptable without improvement and concurs with the use of the detour.

**Design** – Rural Local Route using Sub-Regional Tier Guidelines  
Design Speed – 60 mph  
No Design Exceptions Required

F. Project Impact Criteria Checklists:

<u>Type I &amp; II - Ground Disturbing Actions</u>			
<u>FHWA APPROVAL ACTIVITIES THRESHOLD CRITERIA</u>			
If any of questions 1-7 are marked "yes" then the CE will require FHWA approval.		Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Does the project require an Individual Section 4(f) approval?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If any of questions 8 through 31 are marked "yes" then additional information will be required for those questions in Section G.			
<u>Other Considerations</u>		Yes	No
8	Does the project result in a finding of "may affect not likely to adversely affect" for listed species, or designated critical habitat under Section 7 of the Endangered Species Act (ESA)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Does the project impact anadromous fish?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Does the project impact waters of the United States in any of the designated mountain trout streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	Does the project include a Section 106 of the NHPA effects determination other than a no effect, including archaeological remains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Other Considerations (continued)		Yes	No
15	Does the project involve hazardous materials and landfills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18	Does the project require a U.S. Coast Guard (USCG) permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Does the project impact federal lands (e.g. U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	Does the project involve any changes in access control?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Will maintenance of traffic cause substantial disruption?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Is the project inconsistent with the STIP or the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP) (where applicable)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Is the project considered a Type I under the NCDOT's Noise Policy?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Are there other issues that arose during the project development process that affected the project decision?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

G. Additional Documentation as Required from Section F

**Question #8:** The US Fish and Wildlife Service has developed a programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), the US Army Corps of Engineers (USACE), and NCDOT for the northern long-eared bat (NLEB) (*Myotis septentrionalis*) in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. The programmatic determination for NLEB for the NCDOT program is "May Affect, Likely to Adversely Affect". The PBO provides incidental take coverage for NLEB and will ensure compliance with Section 7 of the Endangered Species Act for five years for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Pitt County.

**Question #16:** Pitt County is a participant in the Federal Flood Insurance Program, administered by the Federal Emergency Management Agency (FEMA). The project is within a **Flood Hazard Zone, designated as Zone AE, for which the 100-year base flood elevations and corresponding regulatory floodway have been established.** The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR). This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

H. Project Commitments

Pitt County  
Bridge No. 17 on SR 1780 over Chicod Creek  
Federal Project No. BRZ-1780(4)  
WBS No. 38431.1. 2  
STIP No. B-4606

**Buffer Rules**

The Tar-Pamlico River Buffer Rule applies to this project.

**FEMA Coordination**

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

**Offsite Detour**

Pitt County Schools Director of Transportation will be contacted at least one month prior to closure to make the necessary plans to adequately reroute school busses at 252-916-0944.

Pitt County Emergency Management Director will be contacted at least one month prior to road closure to make the necessary temporary reassignments to primary response units at 252-902-3952.

I. Categorical Exclusion Approval

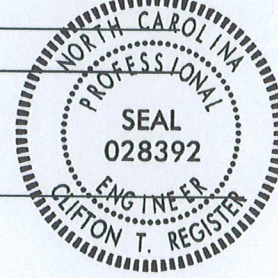
STIP Project No. B-4606  
WBS Element 38431.1. 2  
Federal Project No. BRZ-1780(4)

Prepared By:

4-27-2017

Date

Clifton T. Register  
Clifton T. Register, PE, Project Manager  
TGS Engineers



Prepared For:

Project Development and Environmental Analysis Unit  
North Carolina Department of Transportation

Reviewed By:

6/21/2017

Date

Elmo E. Vance Jr  
Elmo Vance, Project Development Engineer  
North Carolina Department of Transportation

**Approved**

If all of the threshold questions (1 through 7) of Section F are answered "no," NCDOT approves this Categorical Exclusion.

**Certified**

If any of the threshold questions (1 through 7) of Section F are answered "yes," NCDOT certifies this Categorical Exclusion.

6.21.17

Date

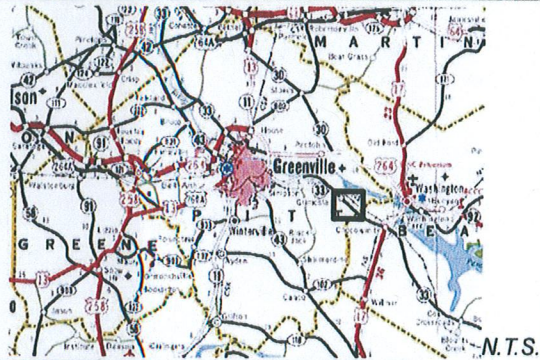
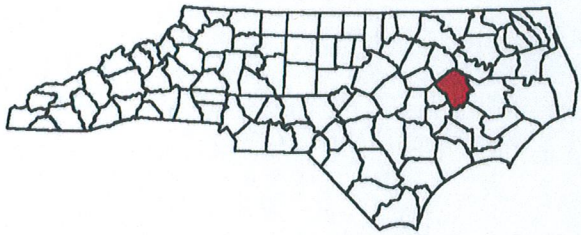
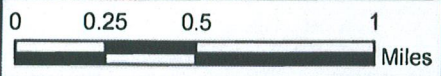
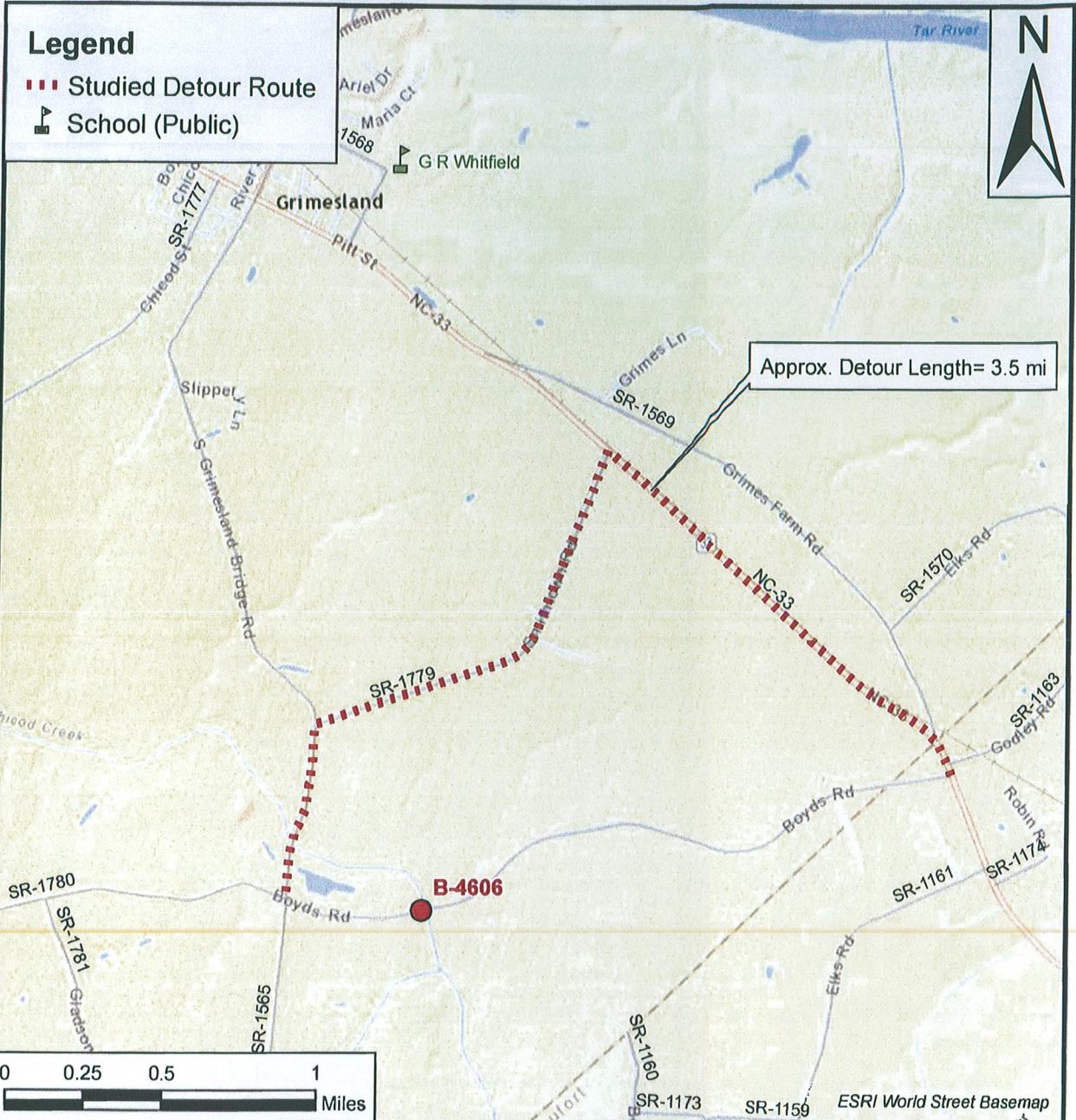
B. S. Yamamoto  
Brian Yamamoto, PE, Project Development Group Supervisor  
North Carolina Department of Transportation

FHWA Approved:

For Projects Certified by NCDOT (above), FHWA signature required.

Date

N/A  
John F. Sullivan, III, PE, Division Administrator  
Federal Highway Administration



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
PROJECT DEVELOPMENT &  
ENVIRONMENTAL ANALYSIS BRANCH

**VICINITY MAP**  
**Pitt County, NC**  
**Replace Bridge No. 17 on SR 1780**  
**over Chicod Creek**  
**B-4606**

Date: 1-8-2015

Figure 1

15-02-0004



## HISTORIC ARCHITECTURE AND LANDSCAPES NO SURVEY REQUIRED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

### PROJECT INFORMATION

<b>Project No:</b>	B-4606	<b>County:</b>	Pitt
<b>WBS No.:</b>	38431.1.2	<b>Document Type:</b>	
<b>Fed. Aid No:</b>	BRZ-1780(4)	<b>Funding:</b>	State    X Federal
<b>Federal Permit(s):</b>	X Yes    No	<b>Permit Type(s):</b>	Not specified in review request
<b>Project Description:</b> Replace Bridge No. 17 on SR 1780 (Boys Road) over Chicod Creek (off-site detour planned, assume no improvements).			

### SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

**DESCRIPTION OF REVIEW ACTIVITIES, RESULTS, AND CONCLUSIONS:** HPOWeb reviewed on 23 February 2015 and yielded no NR, SL, DE, LD or SS properties in the Area of Potential Effects (APE) and one SS along the proposed off-site detour route. Pitt County current GIS mapping, aerial photography, and tax information indicated an APE of mostly woodland, including several parcels with resources dating to the 2000s (viewed 23 February 2015). Constructed in 1970, Bridge No. 17 is not included in the NCDOT Historic Bridge Survey and not eligible for the National Register as it is not representative of any distinctive engineering or aesthetic type. Google Maps "Street View" confirmed the absence of critical historic architectural and landscape resources in the APE (viewed 23 February 2015).

**No architectural survey is required for the project as currently defined.**

**WHY THE AVAILABLE INFORMATION PROVIDES A RELIABLE BASIS FOR REASONABLY PREDICTING THAT THERE ARE NO UNIDENTIFIED SIGNIFICANT HISTORIC ARCHITECTURAL OR LANDSCAPE RESOURCES IN THE PROJECT AREA:** APE extends 500 feet from the either end of the existing bridge (E-W) and 100 feet to either side of the SR 1780 (Boys Road) centerline (N-S) to encompass proposed construction activities. The county architectural survey and related publication, as well as later investigations, recorded no properties in the APE (Scott Power, *The Historic Architecture of Pitt County, North Carolina*, Greenville: Pitt County Historical Society, 1991). County GIS/tax materials and other visuals support the absence of significant architectural and landscape resources. No National Register-listed or -eligible properties are located within the APE.

**Should any aspect of the project design change, including the addition of off-site detour improvements, please notify NCDOT Historic Architecture as additional review may be necessary.**

### SUPPORT DOCUMENTATION

X Map(s)     Previous Survey Info.     Photos     Correspondence     Design Plans

### FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes -- NO SURVEY REQUIRED

*Vanessa C. Patrick*  
NCDOT Architectural Historian

*2 March 2015*  
Date



15-02-0004



**NO NATIONAL REGISTER OF HISTORIC PLACES  
ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES  
PRESENT OR AFFECTED FORM**



This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.

**PROJECT INFORMATION***Project No:* **B-4606***County:* **Pitt***WBS No:* **38431.1.2***Document:* **MCS***F.A. No:* **BRZ-1780(4)***Funding:*  State  Federal*Federal Permit Required?* Yes  No*Permit Type:***unspecified**

***Project Description:*** NCDOT intends to replace Bridge No. 17 on SR 1780 (Boys Road) over Chicod Creek in Pitt County, North Carolina. According to the environmental input request, the undertaking involves the in-place replacement of the structure along the existing alignment, thereby minimizing potential surface and subsurface disturbances at this location. An off-site detour route is anticipated. The archaeological Area of Potential Effects (APE) is centered upon Bridge No. 17 and extends 600 ft (182.88 m) from each end of the existing subject bridge structure (1200 total ft/365.76 m) and 150 ft (45.72 m) in width, 75 ft (22.86 m) from side each of existing subject roadway centerline.

**SUMMARY OF ARCHAEOLOGICAL FINDINGS**

*The North Carolina Department of Transportation (NCDOT) Archaeology Group reviewed the subject project and determined:*

- There are no National Register listed ARCHAEOLOGICAL SITES within the project's area of potential effects.
- No subsurface archaeological investigations are required for this project.
- Subsurface investigations did not reveal the presence of any archaeological resources.
- Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.
- There are no National Register Eligible or Listed ARCHAEOLOGICAL SITES present or affected by this project. (*Attach any notes or documents as needed*)

15-02-0004

***Brief description of review activities, results of review, and conclusions:***

A review of the site maps and files at the North Carolina Office of State Archaeology (OSA) of the State Historic Preservation Office (HPO) was conducted on March 24, 2015. One archaeological site, 31PT158, as documented, is potentially within the APE or just north of the APE. Four other sites, 31PT159/159\*\*, 31PT160, 31PT164, and 31PT213, have been recorded within a half-mile of the project area for Bridge No. 17. All of these sites were recorded as part of a large-scale archaeological survey of the Chicod Creek watershed (Phelps 1977). Minimal information is available on these sites within the report and on the OSA site forms. Site 31PT158 is located on the west side of Chicod Creek, near the eastern edge of an agricultural field and just north of SR 1780 (Boyd's Road), which would place it in or near the northwest quadrant of the project area. The site was described as a small surface scatter of lithics, and while no temporally diagnostic artifacts were listed, the site was designated as dating to the Archaic period. Sites 31PT159/159\*\* and 31PT160 are both located several hundred meters northwest of the project area, north of Chicod Creek and on the eastern side of SR 1565 (Grimesland Bridge Road). 31PT159 is described as consisting of possible Archaic and Woodland period camps while 31PT160 is described as a possible Archaic period camp. According to the site form, 31PT159/159\*\* has a twentieth-century historic component associated with it as well. Site 31PT164 is located approximately 215 m (705.4 ft) southeast of the eastern edge of the APE. This site is described as having an Early Archaic component and an Early to Middle Woodland component. Site 31PT213 is located roughly 750 m (2460.6 ft) southeast of the APE, and is described as having lithics and Native American ceramics, with the possibility of having a Middle Archaic component and Early and Middle Woodland components (Phelps 1977). An examination of a 1938 state highway map does not show any structures in or immediately adjacent to the current APE (North Carolina State Highway and Public Works Commission 1938).

On March 30, 2015, a survey of the APE was completed by Coastal Carolina Research (CCR) senior archaeologist J. Eric Deetz, RPA, along with Joseph Stair, RPA, and Linnea Kuglitsch. Lindsay Flood Ferrante, RPA, was the project principal investigator. The survey consisted of pedestrian inspection and shovel testing at 30-m (98.4-ft) intervals (n=6). Full consideration was given to the entire APE; however, areas that were wet, disturbed, or steeply sloped were visually inspected but not intensively surveyed. Based on the shovel test results, no evidence of the previously recorded site 31PT158 was encountered. All of the shovel tests excavated in the site vicinity were negative, and no other archaeological resources were recorded within the APE. Most of the project area was field-verified as low/wet and was not investigated with subsurface shovel tests.

The USDA soil mapping in the vicinity of the project area indicates that most of the soils in the APE, particularly in the area closest to the creek, belong to the Bibb Complex (Bb), which is described as poorly drained and frequently flooded. The soils in the western portion of the project area, where the shovel tests were excavated, are classified as moderately well-drained Craven fine sandy loam, 1 to 6 percent slopes (CrB), while the soils in the eastern portion of the project area classified as moderately well-drained Craven fine sandy loam, 1 to 6 percent slopes, eroded (CrB2).

The soils encountered during the shovel testing appeared to be consistent with the soil mapping for Craven fine sandy loam, 1 to 6 percent slopes. A typical shovel test profile had a grayish brown to very dark grayish brown (10YR 5/2 to 10YR 3/2) sandy loam plow zone above a brownish yellow (10YR 6/6) sandy clay or sandy clay loam subsoil. Some shovel tests had an intermediary dark sandy zone between the plow zone and subsoil. The agricultural fields that were surveyed with shovel test excavations appear to have been disturbed with the installation of an underground irrigation system.

No further archaeological investigations are recommended for the replacement of Bridge No. 17 based on the current APE. Should the project change further investigation may be necessary. The project as described should be considered to be compliant with Section 106 and NCGS121-12a.

"NO NATIONAL REGISTER ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES PRESENT OR AFFECTED  
form for Minor Transportation Projects as Qualified in the 2007 Programmatic Agreement.

References:

North Carolina State Highway and Public Works Commission

1938 Pitt County, North Carolina State Highway Map. Electronic document,  
<http://dc.lib.unc.edu/cdm/singleitem/collection/ncmaps/id/1712/rec/5>, accessed April 1, 2015.

Phelps, David S.

1977 Archaeological Survey of the Chicod Creek Watershed. Department of Sociology and Anthropology, East Carolina University, Greenville, North Carolina. Submitted to the United States Department of Agriculture Soil Conservation Service. Copies available from North Carolina Office of State Archaeology, Raleigh.

**SUPPORT DOCUMENTATION**

See attached:  Map(s)     Previous Survey Info     Photos     Correspondence

Other: **Selected Shovel Test Profiles**

Signed:

  
\_\_\_\_\_  
NCDOT ARCHAEOLOGIST

  
\_\_\_\_\_  
Date