

Type I and II Ground Disturbing Categorical Exclusion Action Classification Form

STIP Project No.	B-6004
WBS Element	48199.1.1
Federal Project No.	BRZ-1534(002)

- A. Project Description: (Include project scope and location, including Municipality and County. Refer to the attached project location map and photos.)

This project will replace structure number 080197 on SR 1534 (Over Lyon Road) over Kelly Canal in Bladen County. The bridge will be replaced on existing alignment while using an on-site detour.

- B. Description of Need and Purpose:

Bridge inspections have been performed on the bridge and it has been determined that it is structurally deficient and functionally obsolete. This bridge was built in 1967.

- C. Categorical Exclusion Action Classification:

TYPE I A

- 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: (Provide a description of relevant project information, which may include: vicinity map, costs, alternative analysis (if any), traffic control and staging, and resource agency/public involvement).

This project is an Express Design Build Bridge Replacement that is included in a set of 4 bridges.

The on-site detour has been set and approved by Division.

F. Project Impact Criteria Checklists:

<u>Type I & 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	Is the project located in anadromous fish spawning waters?	<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"/>

<u>Other Considerations (continued)</u>		Yes	No
15	Does the project involve hazardous materials and/or 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 type="checkbox"/>	<input checked="" 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 - Endangered Species: On May 4, 2015, the USFWS adopted a Programmatic Opinion for the Northern Long-eared bat for all projects and activities in the NCDOT Division 1-8 and the Biological Conclusion for the NCDOT program is "May Affect, Likely to Adversely Affect." The Biological Opinion provides an incidental take statement for all NCDOT projects in eastern North Carolina for the next five years. An incidental take is when a non-federal activity

will result in the loss or "take" of a threatened or endangered animal. As a condition of the incidental take statement, NCDOT has agreed to conservation measures to minimize adverse effect, and benefit or promote the recovery of the species.

It was determined that habitat for wood stork was present within the project study area, resulting in a finding of "May Affect, Not Likely to Adversely Affect" for this species. No nests or individuals were observed during the survey conducted on June 13, 2018. NCDOT received concurrence from the U.S. Fish and Wildlife Service on June 18, 2018 regarding this conclusion.

H. Project Commitments

**Bladen County
Division 6
Federal Project No. BRZ-1534(002)
WBS No. 48199.1.1
TIP No. B-6004**

I. Categorical Exclusion Approval

STIP Project No. B-6004
WBS Element 48199.1.1
Federal Project No. BRZ-1534(002)

Prepared By:

10/29/18
Date

James J Rerko, PWS
James J Rerko, PWS
North Carolina Department of Transportation

Prepared For: North Carolina Department of Transportation

Reviewed By:

10/31/18
Date

John Gauthier
John Gauthier, DDC 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.

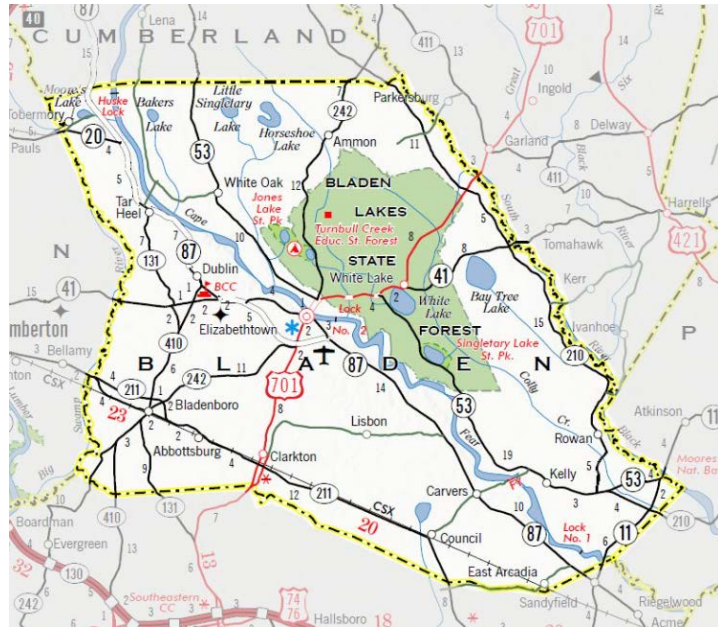
11/15/18
Date

Christy Huff
Christy Huff, PE Division 6 Bridge Maintenance Supervisor
On behalf of Greg Burns, PE Division 6 Engineer
North Carolina Department of Transportation

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

Date

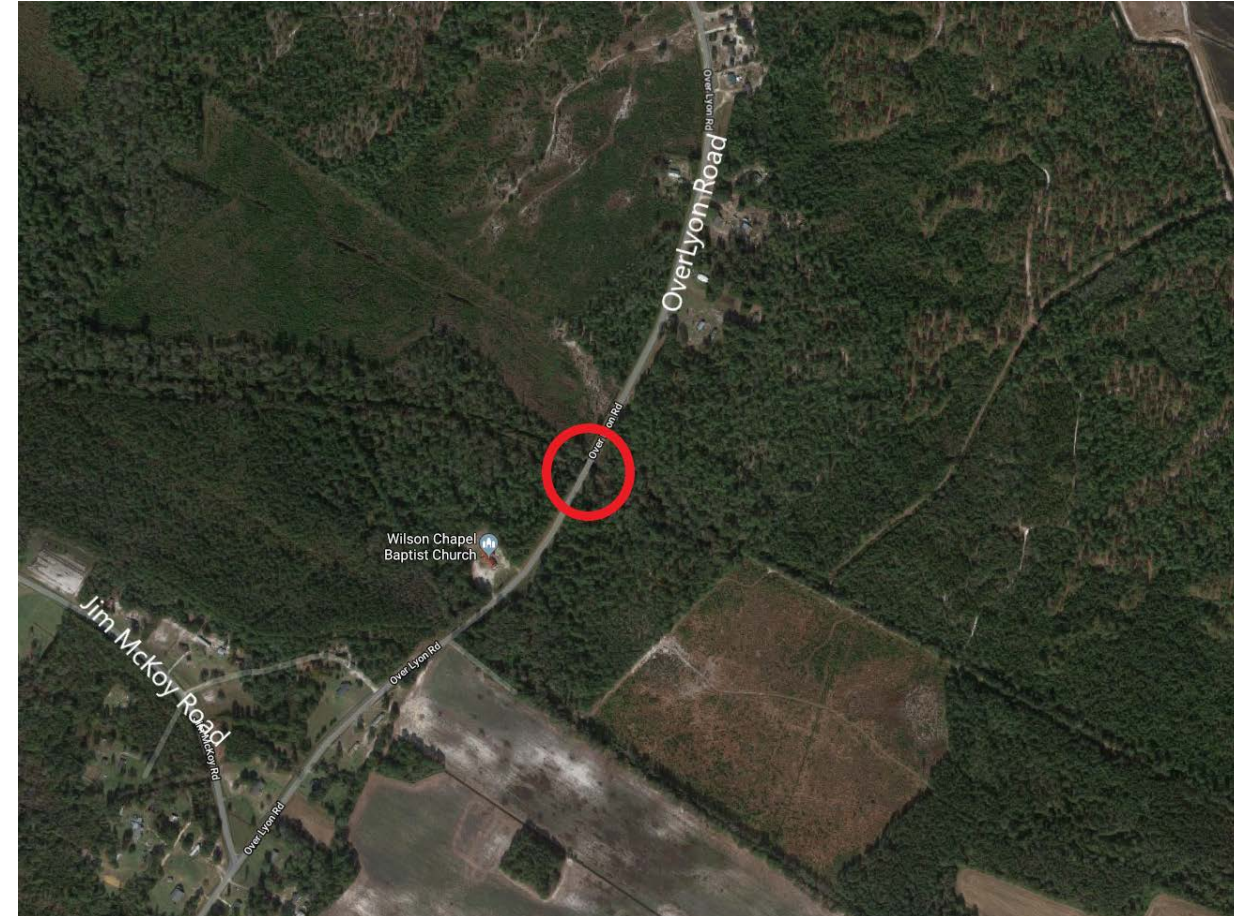
John F. Sullivan, III, PE, Division Administrator
Federal Highway Administration



Vicinity Map

B-6004

Structure No. 080197 on SR 1534 (Over Lyon Road)
over Kelly Canal





NO ARCHAEOLOGICAL SURVEY REQUIRED 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-6004** County: **Bladen**
 WBS No: **BRZ-1534(002)** Document: **Federal CE**
 F.A. No: **na** Funding: State Federal

Federal Permit Required? Yes No Permit Type: ?

Project Description: The North Carolina Department of Transportation (NCDOT) intends to replace Bridge No. 197 on SR 1534, Over Lyon Road, over Kelly Canal (Lyon Swamp Canal) near Kelly. No preliminary design or study area was submitted with the request for cultural resources review, but in consultation with the project engineer (via email on September 11, 2018), an archaeological area of potential effects (APE) was created that extends 150 feet (45.72 meters) from either end of the bridge and 50 feet (15.24 meters) from centerline in either direction. This archaeological APE is estimated to encompass .8 acre (slightly more than .32 hectare).

SUMMARY OF CULTURAL RESOURCES REVIEW

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

The review of the site maps and files archived at the North Carolina Office of State Archaeology was conducted on September 20, 2018. No previously recorded archaeological resources are located within the proposed APE, nor do any archaeological resources appear to be located within a .5-mile radius of the project. An examination of the data presented on the North Carolina State Historic Preservation Office HPOWEB GIS Service (<http://gis.ncdcr.gov/hpoweb/>) reveals no recorded historic property locations within .5-mile of the proposed project. No known cemeteries fall within this same radius.

An examination of soils in Bladen County presented on the National Resources Conservation Service Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) indicates that the following soil types fall within the delineated APE: Centenary sand (Ce); Torhunta mucky sandy loam (Tr).

No further archaeological investigations are required for the project within the area established as the current APE. Should the project change to include a larger footprint than covered by the current APE, further consultation will be necessary. In the unlikely event that archaeological remains are encountered during the bridge replacement project, work should cease in that area and the NCDOT Archaeology Group should be notified immediately.

Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:

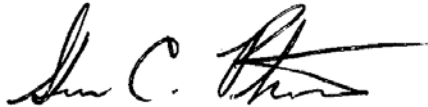
The project ARE as currently described is relatively small and is dominated by the disturbances created by the existing transportation facilities (bridge, approaches, easements, etc.). Outside the areas disturbed by the bridge and approaches, 98 percent of the landforms exhibit wet, swampy (hydric) soils that are unlikely to exhibit significant archaeological resources. Only two percent of the current APE exhibits the kind of conditions where most cultural resources are likely to occur. It should be noted, that prehistoric

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populations in the Coastal Plain of North Carolina appear to have preferred well-drained soils on the margins of wetlands (particularly those currently called 'Carolina Bays'). If the project area does expand further into well-drained landforms above the wetlands, further consultation (and likely archaeological survey) will be necessary.

SUPPORT DOCUMENTATION

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

FINDING BY NCDOT ARCHAEOLOGISTNO ARCHAEOLOGY SURVEY REQUIRED


NCDOT ARCHAEOLOGIST

September 21, 2018

Date

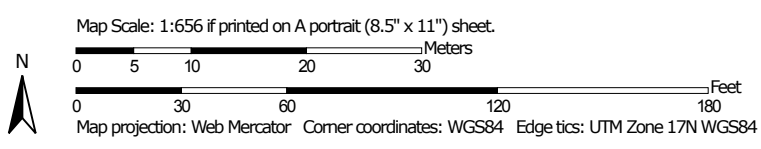


Aerial photograph with 2-contours of the location for the APE (orange lines) for the proposed replacement of Bridge No. 197 on SR 1534.

Soil Map—Bladen County, North Carolina
(Bridge No 197 on SR 1534)



Soil Map may not be valid at this scale.




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bladen County, North Carolina

Survey Area Data: Version 20, Sep 26, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 22, 2015—Nov 28, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ce	Centenary sand	0.0	2.0%
Tr	Torhunta mucky sandy loam	0.8	98.0%
Totals for Area of Interest		0.8	100.0%

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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

Project No:	B-6004	County:	Bladen
WBS No.:	48199.1.1	Document Type:	CE
Fed. Aid No:	BRZ-1534(002)	Funding:	<input type="checkbox"/> State <input checked="" type="checkbox"/> Federal
Federal Permit(s):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Permit Type(s):	USACE
<u>Project Description:</u> Replace Bridge No 197 on SR 1534 (Over Lyon Rd) over Kelly Canal.			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

Description of review activities, results, and conclusions:

Review of HPO quad maps, relevant background reports, historic designations roster, and indexes was undertaken on September 10, 2018. Based on this review there are no NR, DE, LL, SL or SS in the Area of Potential Effects (APE). There are no structures over 50 years of age other than the bridge. Bladen County Bridge No 197 County, built in 1967 does not exemplify any distinctive engineering or aesthetic type and is not eligible for the National Register of Historic Places. No Survey is required at this time.

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: Using HPO GIS website and county tax data provides reliable information regarding the structures in the APE. These combined utilities are considered valid for the purposes of determining the likelihood of historic resources being present.

SUPPORT DOCUMENTATION

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

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes -- NO SURVEY REQUIRED

Shelby Reap

NCDOT Architectural Historian

Sept 10, 2018

Date

