

MINIMUM CRITERIA DETERMINATION CHECKLIST

The following questions provide direction in determining when the Department is required to prepare environmental documents for state-funded construction and maintenance activities. Answer questions for Parts A through C by checking either “Yes” or “No”. Complete Part D of the checklist when Minimum Criteria Rule categories #8, 12(i) or #15 are used.

TIP Project No.: BR-0010

State Project No.: 67010.1.1

Project Location: Existing Bridge #110105 on US 64 (NC 18) over Johns River in Burke County, North Carolina.

Project Description: The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge #110105 on US 64 (NC 18) over the Johns River in Burke County, North Carolina.

The total project length is approximately 3,000 feet, with an overall existing right-of-way width of 100 feet. Bridge #110105 is currently 343 feet long. The bridge was built in 1934 and has had maintenance performed to the structure. These repairs have been temporary, and the bridge needs to be replaced. The replacement bridge will be a pre-stressed concrete structure.

Additional easement is required. US 64 will provide two 12-foot travel lanes. The roadway will be designed as an Arterial using Regional Tier Guidelines with a 60 mph design speed.

The bridge will be replaced in place using a temporary on-site detour.

Anticipated Permit or Consultation Requirements: This project is located within a FERC site boundary, and will therefore require a FERC easement for work on the bridge. It is anticipated that a U.S. Army Corps of Engineers (USACE) Nationwide Permit #33 and a state-issued General Water Quality Certification will be required for impacts to wetlands during construction.

Special Project Information:

Traffic. ADT 2021 = 8,450 VPD. ADT 2041 = 9,250 VPD. BR-0010, as depicted in preliminary plans, will meet 2041 traffic needs.

Crash Data. There were six crashes reported in the vicinity of Bridge #110105 for the period from 9/1/2013 to 8/31/2018. No fatalities occurred. Two crashes included injuries and four crashes had property damage only. Three accidents occurred in the vicinity of the access to the boat ramp.

Pedestrian and Bicycle Accommodations. There are no pedestrian or bicycle accommodations associated with this project.

Detour. A two-lane on-site detour will be used for this project. The project investigated building the bridge in the same location and using an offsite detour, but that option was eliminated from the design as the detour would be over 16 miles in length and would cause a significant delay in traffic during construction.

Right-of-Way and Easements. No right-of-way acquisition is required for this project; however, 2.21 acres of temporary easement from the John's River Game Lands are required.

PART A: MINIMUM CRITERIA

Item 1 to be completed by the Engineer.

- 1. Is the proposed project listed as a type and class of activity allowed under the Minimum Criteria Rule in which environmental documentation is not required?

YES

NO

If the answer to number 1 is “no”, then the project does not qualify as a minimum criteria project. A state environmental assessment is required.

If yes, under which category? (9) Reconstruction of existing crossroad or railroad separations and existing stream crossings, including, but not limited to, pipes, culverts, and bridges.

If either category #8, #12(i) or #15 is used complete Part D of this checklist.

PART B: MINIMUM CRITERIA EXCEPTIONS

Items 2 – 4 to be completed by the Engineer.

- 2. Could the proposed activity cause significant changes in land use concentrations that would be expected to create adverse air quality impacts?
- 3. Will the proposed activity have secondary impacts or cumulative impacts that may result in a significant adverse impact to human health or the environment?
- 4. Is the proposed activity of such an unusual nature or does the proposed activity have such widespread implications, that an uncommon concern for its environmental effects has been expressed to the Department?

YES

NO

Item 5-8 to be completed by Division Environmental Officer.

- 5. Does the proposed activity have a significant adverse effect on wetlands; surface waters such as rivers, streams, and estuaries; parklands; prime or unique agricultural lands; or areas of recognized scenic, recreational, archaeological, or historical value?
- 6. Will the proposed activity endanger the existence of a species on the Department of Interior's threatened and endangered species list?
- 7. Could the proposed activity cause significant changes in land use concentrations that would be expected to create adverse water quality or ground water impacts?

- | | YES | NO |
|--|--------------------------|-------------------------------------|
| 8. Is the proposed activity expected to have a significant adverse effect on long-term recreational benefits or shellfish, finfish, wildlife, or their natural habitats? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If any questions 2 through 8 are answered “yes”, the proposed project may not qualify as a Minimum Criteria project. A state environmental assessment (EA) may be required. For assistance, contact:

Manager, Environmental Analysis Unit
 1598 Mail Service Center
 Raleigh, NC 27699-1598
 (919) 707 – 6000
 Fax: (919) 212-5785

PART C: COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

- | <i>Items 9- 12 to be completed by Division Environmental Officer.</i> | YES | NO |
|--|-------------------------------------|-------------------------------------|
| 9. Is a federally protected threatened or endangered species, or its habitat, likely to be impacted by the proposed action? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Does the action require the placement of temporary or permanent fill in waters of the United States? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. Does the project require the placement of a significant amount of fill in high quality or relatively rare wetland ecosystems, such as mountain bogs or pine savannahs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Is the proposed action located in an Area of Environmental Concern, as defined in the coastal Area Management Act? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- | <i>Items 13 – 15 to be completed by the Engineer.</i> | | |
|--|--------------------------|-------------------------------------|
| 13. Does the project require stream relocation or channel changes? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Cultural Resources

- | | | |
|---|--------------------------|-------------------------------------|
| 14. Will the project have an “effect” on a property or site listed on the National Register of Historic Places? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15. Will the proposed action require acquisition of additional right of way from publicly owned parkland or recreational areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Questions in Part “C” are designed to assist the Engineer and the Division Environmental Officer in determining whether a permit or consultation with a state or federal resource agency may be required. If any questions in Part “C” are answered “yes”, follow the appropriate permitting procedures prior to beginning project construction.

PART D:(To be completed when either category #8, 12(i) or #15 of the rules are used.)

Items 16- 22 to be completed by Division Environmental Officer.


- 16. Project length: _____
- 17. Right of Way width: _____
- 18. Project completion date: _____
- 19. Total acres of newly disturbed ground surface: _____
- 20. Total acres of wetland impacts: _____
- 21. Total linear feet of stream impacts: _____
- 22. Project purpose: _____

If Part D of the checklist is completed, send a copy of the entire checklist document to:

David B. Harris, PE
 State Roadside Environmental Engineer
 Mail Service Center 1557
 Raleigh, NC 27699-1557
 (919) 707-2920
 Fax (919) 715-2554
 Email: davidharris@ncdot.gov

Reviewed by: DocuSigned by:
Kevin Fischer _____ Date: 4/15/2019

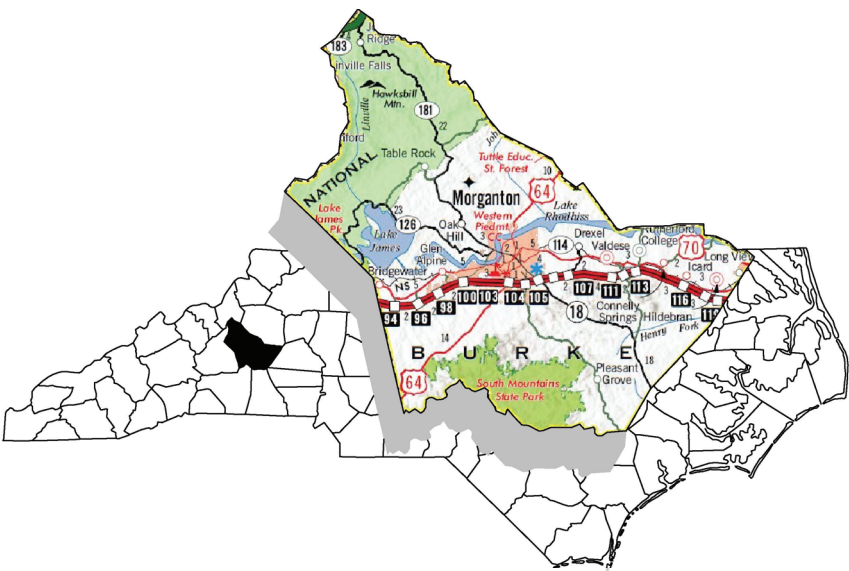
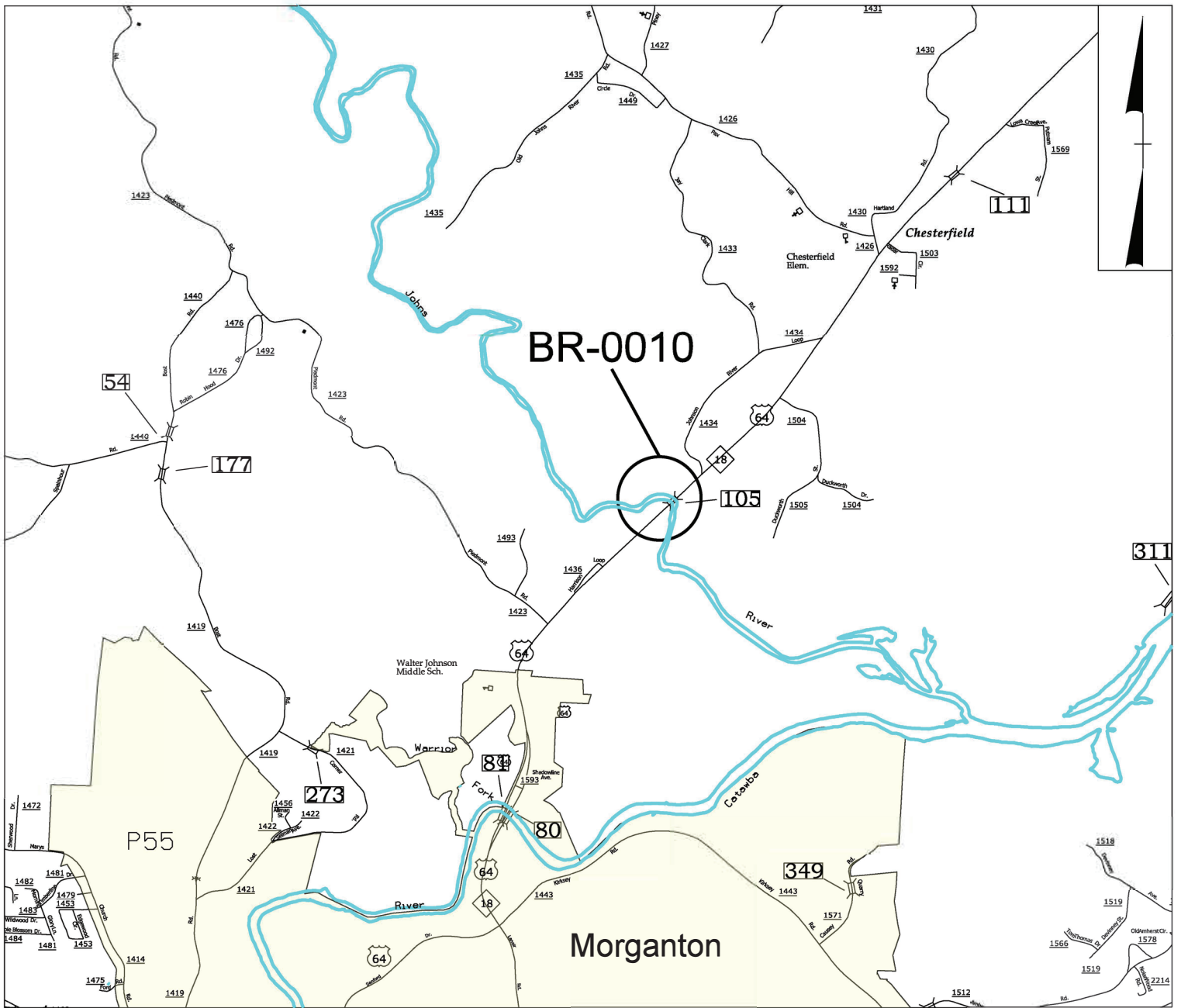
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 Kevin Fischer, PE, Structures
 Management Unit, NCDOT

 _____ Date: 4/8/2019

Scott Shifflett, Environmental Project
 Manager, ATCS, PLC

Project Commitments

Burke County
Replacement of Bridge #110105 on US 64 (NC 18) over Johns River
WBS # 67010.1.1
STIP # BR-0010



ATCS[®] 100 REGENCY FOREST DR., SUITE 130
 CARY, NORTH CAROLINA 27518
 919-341-9418 <http://www.atcspc.com/>
 NC LICENSE NO. P-0192
 ENGINEERING | PLANNING | SURVEYING | ENVIRONMENTAL

BURKE COUNTY
 REPLACE BRIDGE NO. 110105 on
 US 64 (NC 18) over Johns River
 STIP # BR-0010
 WBS Element No. 67010.1.1



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: BR-0010 *County:* Burke
WBS No: 67010.1.1 *Document:* State Minimum Criteria Checklist
Federal Aid No: *Funding:* State Federal
Federal Permit Required? Yes No *Permit Type:* USACE

Project Description:

Replace Bridge 105 on US 64/NC 18 over the Johns River in Burke County. Area of Potential Effects (A.P.E.) is approximately 1,372 meters (4,500 ft.) long and 152 meters (500 ft.) wide. No design plans provided. The project is State-funded and will require Federal permits. Easements will be required.

SUMMARY OF CULTURAL RESOURCES REVIEW

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

The review included an examination of a topographic map, an aerial photograph, and listings of previously recorded sites, previous archaeological surveys, and previous environmental reviews at the Office of State Archaeology (O.S.A.). NC 18 is oriented northeast-southwest, but is considered north-south for this review.

The topographic map (Morganton North) shows the bridge is located in a wide river valley. The landforms in the A.P.E. include level floodplain, terraces, and ridge toe. The floodplain and terraces on both sides of the bridge are depicted as cleared land, indicating they are suitable for agriculture (well-drained). Level, well-drained floodplain and terraces have a moderate to high potential for archaeological sites. A small stream joins the Johns River in the northwest quadrant. There are no structures shown in the A.P.E.

The aerial photograph shows the A.P.E. is wooded. The intersection with SR 1434 is located at the north end of the northwest quadrant. The south half of the northwest quadrant appears to be a flooded area (pond?). The southwest quadrant is wooded. The southeast quadrant is wooded. The northeast quadrant is wooded other than a small parking lot (boat landing?) next to the bridge.

A review of information at the O.S.A. shows there is a previously recorded archaeological site located near the A.P.E. Site 31BK12 is located near the northwest quadrant of the A.P.E., in an agricultural field approximately 250 meters (820 ft.) west of US 64/NC 18. Most of the A.P.E. is within areas that have already been surveyed for archaeological sites. Joy (1994) conducted a survey of US 64/NC 18 that included the A.P.E. No archaeological sites were recorded in this

area. Jenkins and Pattison (2005) conducted a survey for a new location corridor for US 64/NC 18 that included the south end of the southeast quadrant of the A.P.E. No archaeological sites were recorded near the A.P.E. Idol (2000) conducted a survey for a proposed gas pipeline that included the south end (next to the bridge) of the northwest quadrant. The survey included the recorded location of 31BK12, but no evidence of the site was found.

Idol, Bruce S.

2000 Phase I Archaeological Survey of a Proposed Three-County Natural Gas Pipeline Expansion, Sections 1 and 2 and Burnsville Lateral, Burke, Mitchell and Yancey Counties, North Carolina. Report submitted to the Piedmont Natural Gas Company, Charlotte, North Carolina. TRC Garrow Associates, Chapel Hill, North Carolina.

Jenkins, David G. and Kate C. Pattison

2005 Archaeological Survey and Evaluation of the Proposed New Location Corridor of Alternative 1 for the Widening of US 64-NC 18, Burke County, North Carolina (NCDOT TIP R-2549). Report prepared for the N.C. Department of Transportation, Raleigh. Brockington and Associates, Inc., Raleigh, North Carolina.

Joy, Deborah

1994 Archaeological Survey Report: Widening US 64-NC 18 from Morganton to Gamewll, Burke and Caldwell Counties, North Carolina (NCDOT TIP R-2549). N.C. Department of Transportation, Raleigh.

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 A.P.E. has already been surveyed for archaeological sites.

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
 Photocopy of County Survey Notes Other:

FINDING BY NCDOT ARCHAEOLOGIST

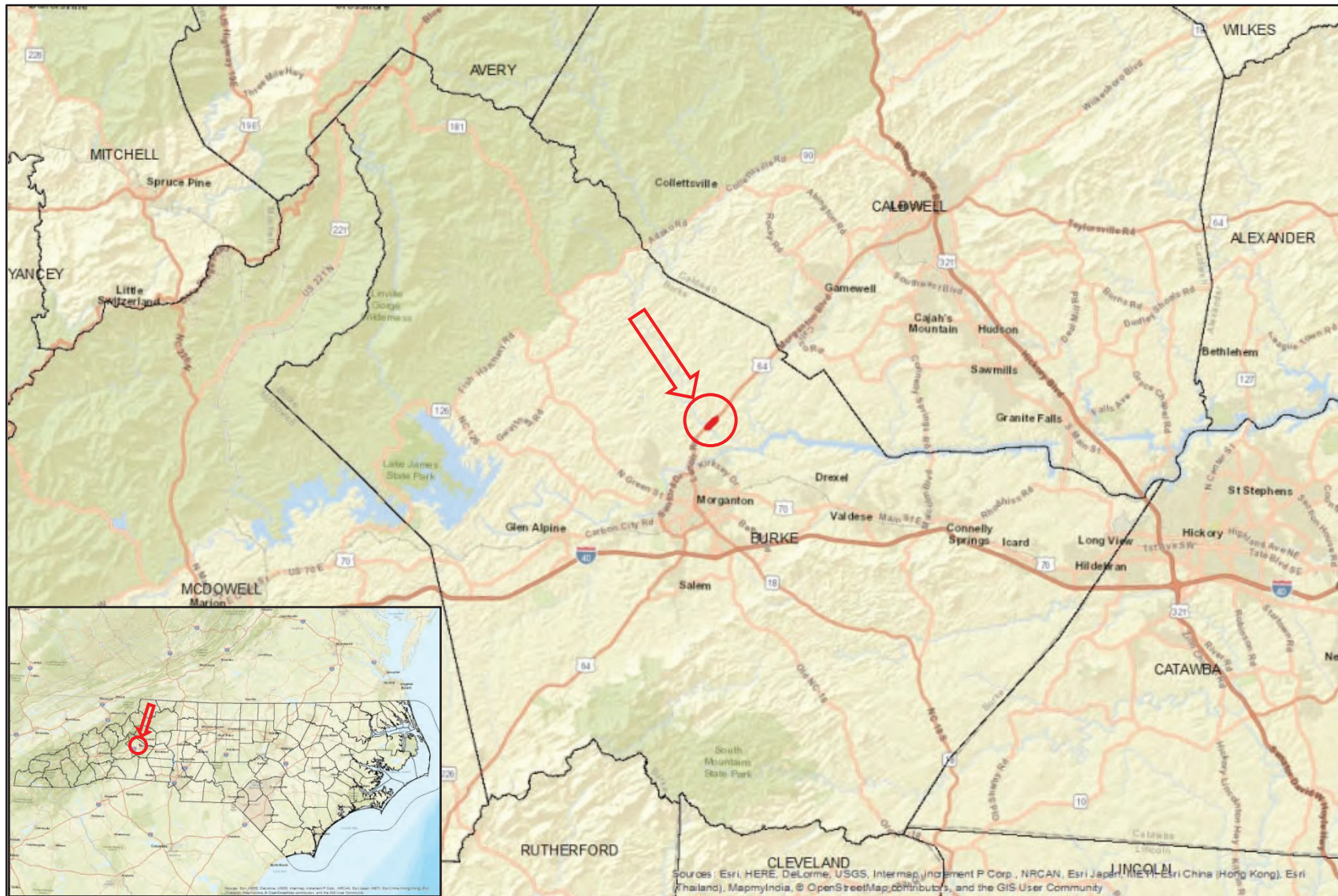
NO ARCHAEOLOGY SURVEY REQUIRED

Caleb Smith

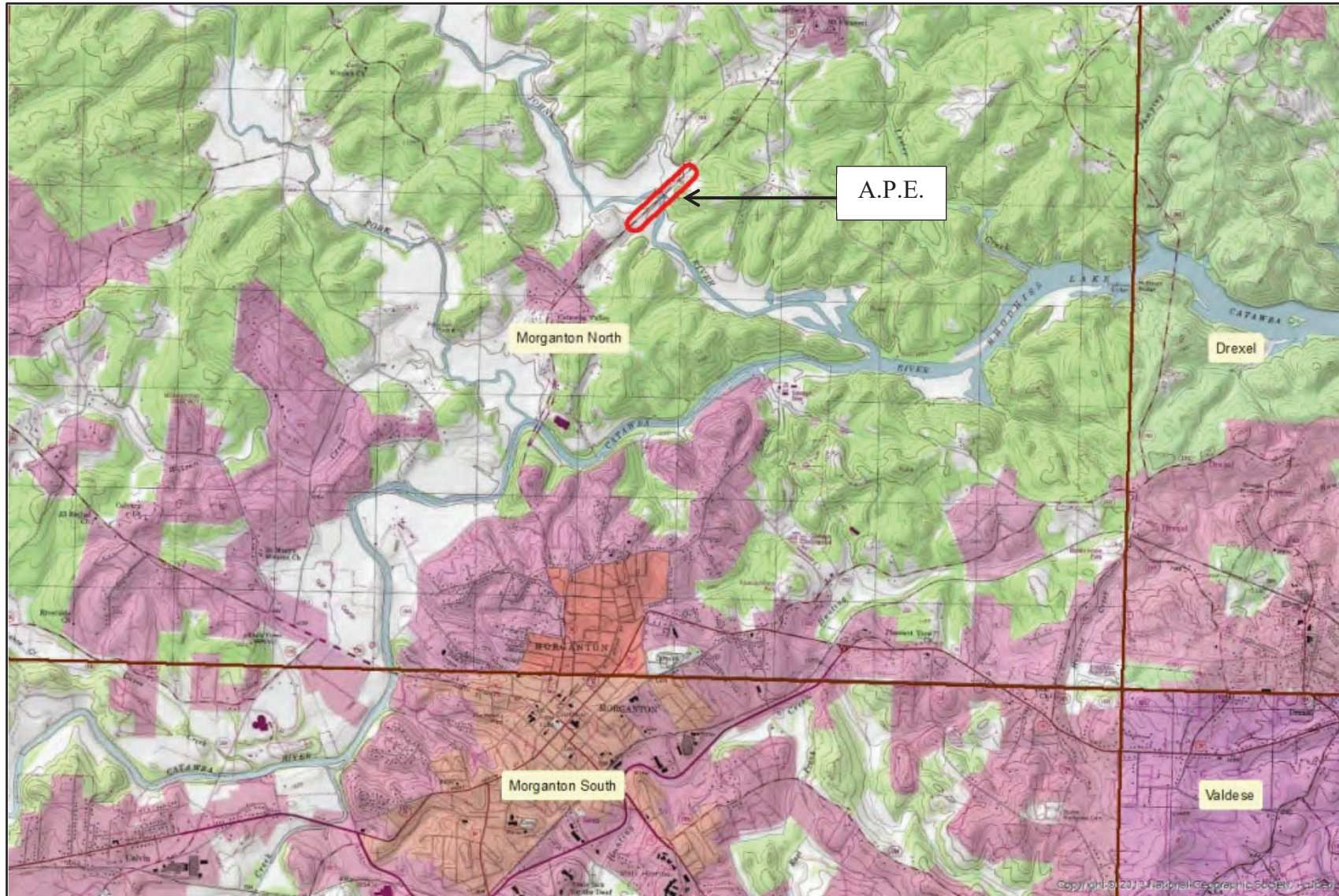
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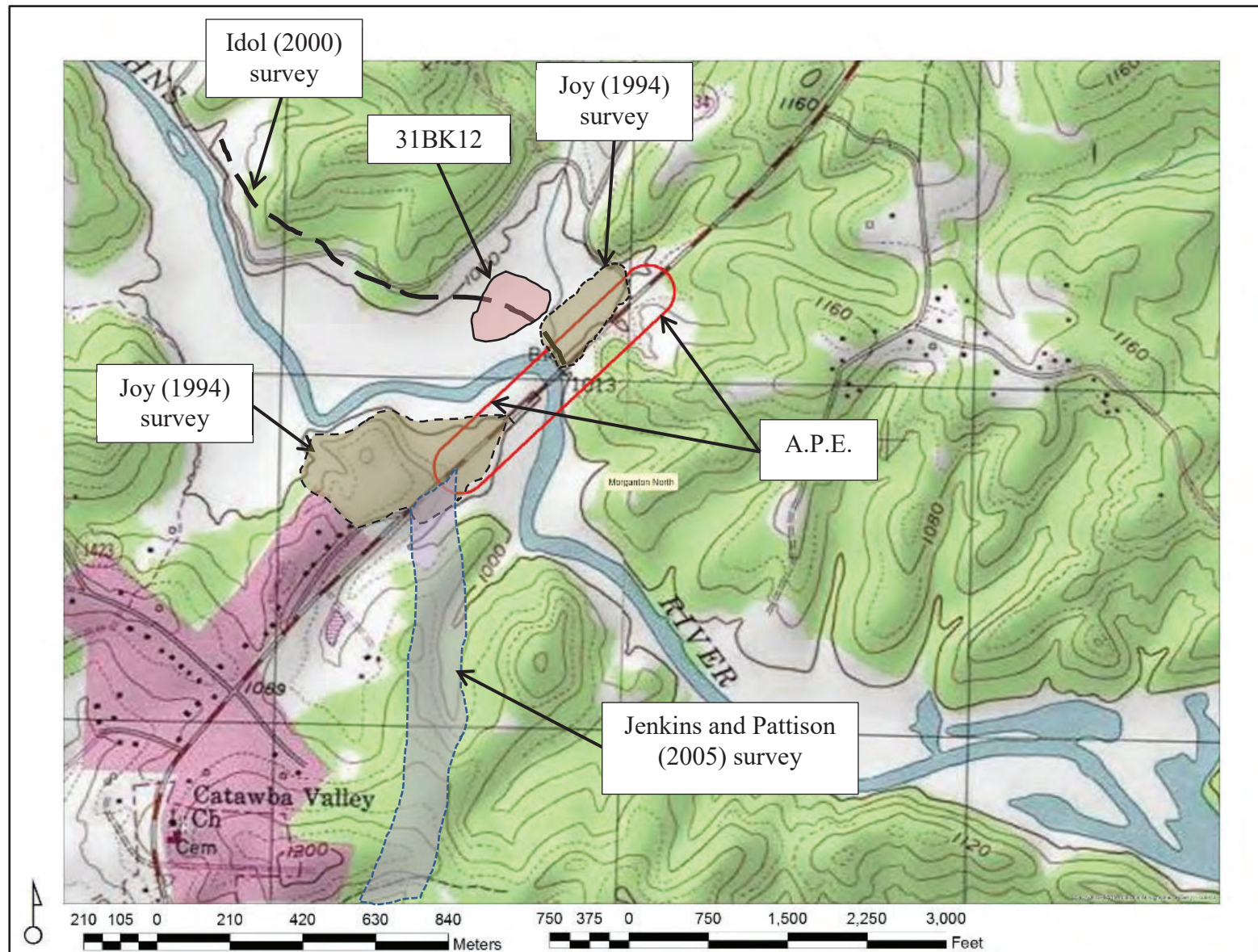
NCDOT ARCHAEOLOGIST II

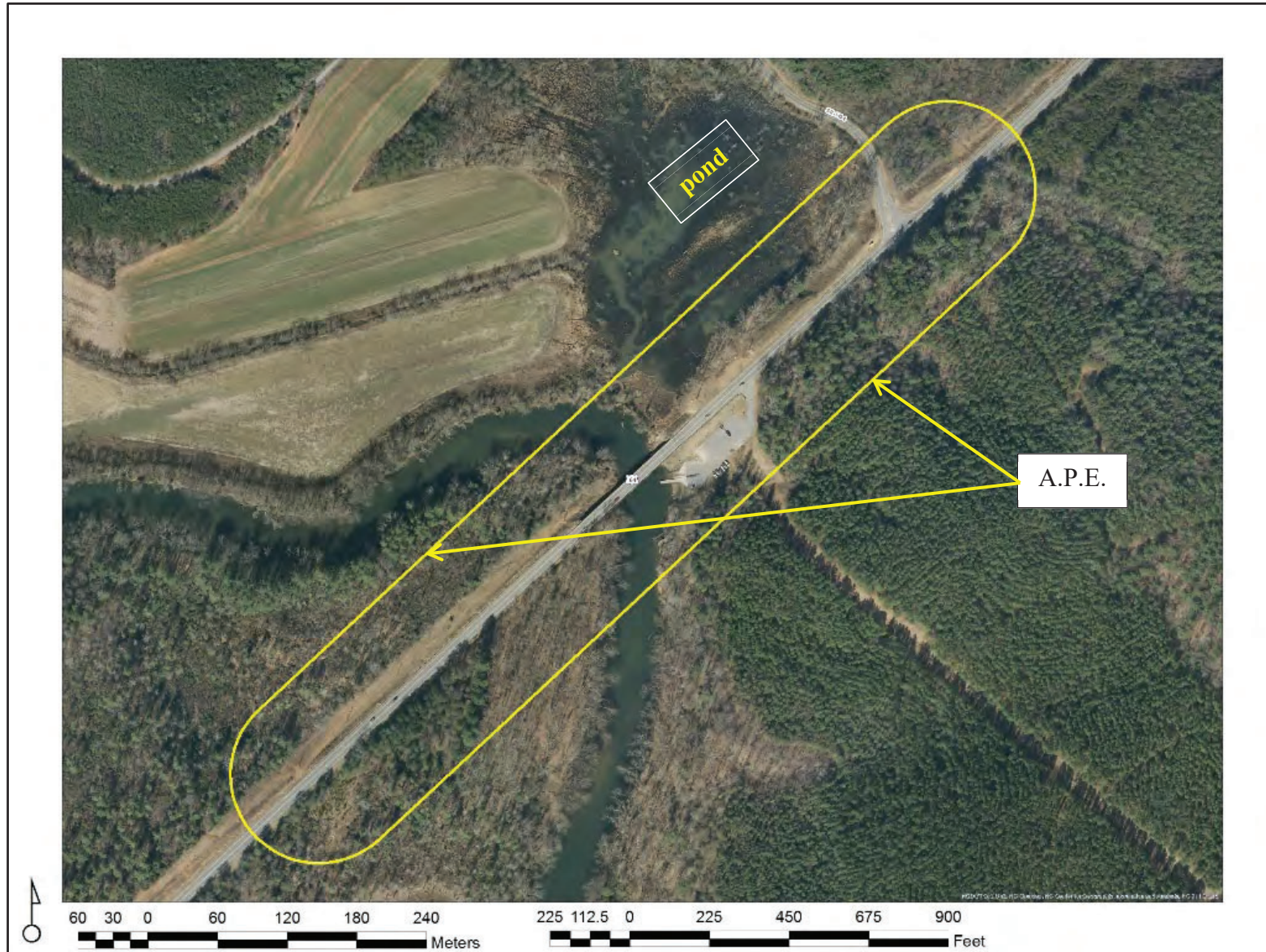
Date



"No ARCHAEOLOGY SURVEY REQUIRED" form for Minor Transportation Projects as Qualified in the 2015 Programmatic Agreement.







17-12-0045



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:	BR-0010	County:	Burke
WBS No.:	67010.1.1	Document Type:	MCC
Fed. Aid No:		Funding:	<input checked="" type="checkbox"/> State <input type="checkbox"/> Federal
Federal Permit(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Permit Type(s):	none
<u>Project Description:</u> Replace Bridge No 105 on US 64/NC 18 over John's River			

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 January 17, 2018. Based on this review there are no NR, DE, LL, SL, or SS in the Area of Potential Effects (APE). There are no properties which are older than 50 years in the APE. No survey required.

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

Jan 18, 2018

Date

