

MINIMUM CRITERIA DETERMINATION CHECKLIST

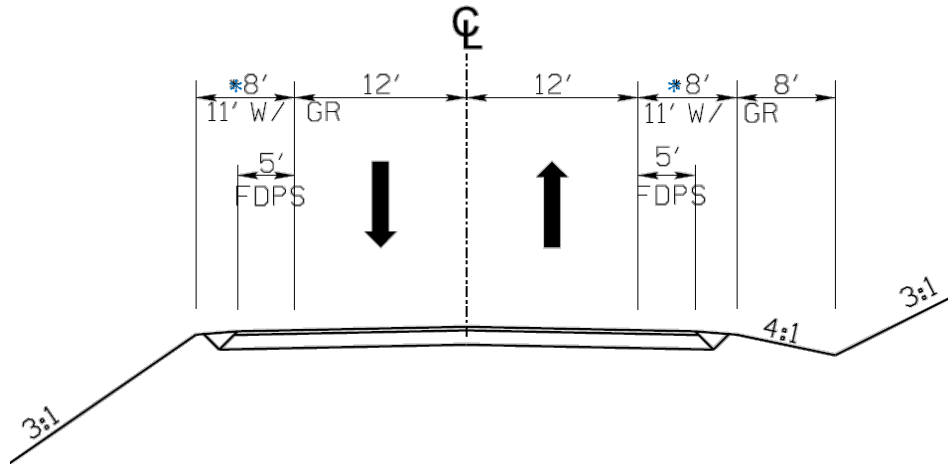
The following questions provide direction in determining when the Department is required to prepare environmental documents for state-funded construction and maintenance activities. Answer questions for Parts A through C by checking either “Yes” or “No”. Complete Part D of the checklist when Minimum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

TIP Project No.: BR-0035

State Project No.: 67035.1.1

Project Location: Moore County, North Carolina (see attached vicinity map)

Project Description: Replace Moore County Bridge No. 24 on NC 22 over Nicks Creek. The replacement structure will be a triple barrel reinforced concrete box culvert built on new alignment while traffic is maintained on the existing alignment during construction. A brief offsite detour (1-2 days) will be required to tie in the old alignment in with the new. The typical sections for the project is as follows:



*5' FDPS allows for future bike lanes

Anticipated Permit or Consultation Requirements: [Nationwide Permit and 401 Certification.](#)

Special Project Information:

Bicycle and Pedestrian Concerns

NC 22 is indicated in the Moore County Comprehensive Transportation Plan (CTP) for bicycle accommodations which are incorporated by way of five feet offset on the bridge and bike safe rails on the bridge. The CTP also shows a future multi-use trail extending northward across Nick's Creek from the existing Nick's Creek Greenway trailhead (see Figure 2). However, after coordination with the county, there is no funding available to support the additional costs of carrying it on the bridge. Therefore, no action is being taken with this project as it relates to the future greenway extension.

Public Involvement

A Land Owner Notification Letter was sent to all property holders within the study area at the beginning of planning. No comment was received public involvement is anticipated prior to right of way acquisition.

Maintenance of Traffic

Serious consideration was given to an offsite detour, but it was ruled out based on EMS concerns and concerns of passing through the Pinehurst Traffic Circle south of US 15/501.

Structure Type

A culvert was desirable for many construction reasons but a bridge was ultimately chosen because of the facility type and the amount of truck traffic.

This section should have been deleted. There was originally debate over the type of structure that should be included but a culvert was determined to have the most benefit in the end.

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?

(26) Implementation of any project which qualifies as a "categorical exclusion" under the National Environmental Policy Act by one of the Agencies of the U.S. Department of Transportation

If either category #8, #12(i) or #15 is used complete Part D of this checklist. Although Item 26 doesn't meet one of these categories, it is appropriate to answer the questions in Part D because of the nature of the project.

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? *The proposed project will only replace the function of the existing bridge.*
- 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? *The proposed project will only replace the function of the existing bridge.*
- 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? *No concerns have been expressed.*

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? *No. Source: NRTR and CIA in file and cultural resources screenings attached.*
- 6. Will the proposed activity endanger the existence of a species on the Department of Interior's threatened and endangered species list? *Source: See NRTR and explanation in Question 9 below*

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?
- The proposed project will only replace the function of the existing bridge.*

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. **YES** **NO**
- The impacts of the project will be very limited both during and after construction.*

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.

PART C: COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

- Items 9- 12 to be completed by Division Environmental Officer.*** **YES** **NO**
9. Is a federally protected threatened or endangered species, or its habitat, likely to be impacted by the proposed action?
- There is habitat for Michaux’s sumac but no species were found during field reviews resulting in a determination of no effect.*
10. Does the action require the placement of temporary or permanent fill in waters of the United States?
- A temporary causeway will likely be necessary for construction of the new bridge and demolition of the old structure. Pg 4*
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?
- Source: design and .wex files in MicroStation*
12. Is the proposed action located in an Area of Environmental Concern, as defined in the coastal Area Management Act?
- Source: Not in the 20 CAMA counties*

Items 13 – 15 to be completed by the Engineer.

13. Does the project require stream relocation or channel changes?

Cultural Resources

14. Will the project have an “effect” on a property or site listed on the National Register of Historic Places?
15. Will the proposed action require acquisition of additional right of way from publicly owned parkland or recreational areas?

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.)

- 16. Project length: 1720 feet
- 17. Right of Way width: varies
- 18. Project completion date: 2021
- 19. Total acres of newly disturbed ground surface: 5.13 acres
- 20. Total acres of wetland impacts: 0
- 21. Total linear feet of stream impacts: 80 feet
- 22. Project purpose: Replace deficient bridge

Prepared By:

6/11/2019

Date

DocuSigned by:

John Williams

John L. Williams, P.E., Project Manager
RK&K

Prepared For: NCDOT Structures Management Unit

Approved By:

6/12/2019

Date

DocuSigned by:

Kevin Fischer

Kevin Fischer, P.E., Assistant State Structures Engineer – PEF
Coordination, Program Manager and Field Operations,
Structures Management Unit
North Carolina Department of Transportation

PROJECT COMMITMENTS:

T.I.P. No. BR-0035

Replace Moore Co. Bridge No. 24

On NC 22 over Nicks Creek

WBS # 67035.1.1

~~Bicycle Accommodations~~

~~The design of the project will accommodate bicycles regarding paved shoulders and the approaches and regarding offset and bicycle safe rail on the bridge.~~

Correction - This commitment should be treated as deleted because the design changed from a culvert to a bridge. There are now no special commitments.



22

Lift Station

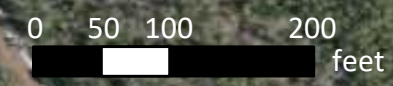
Existing Bridge 24

Raw Water Pump Station

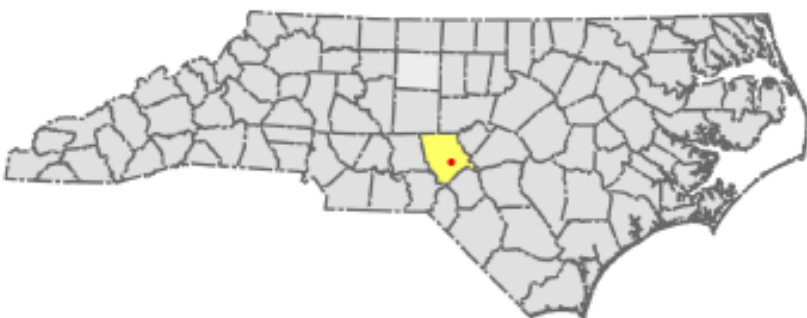
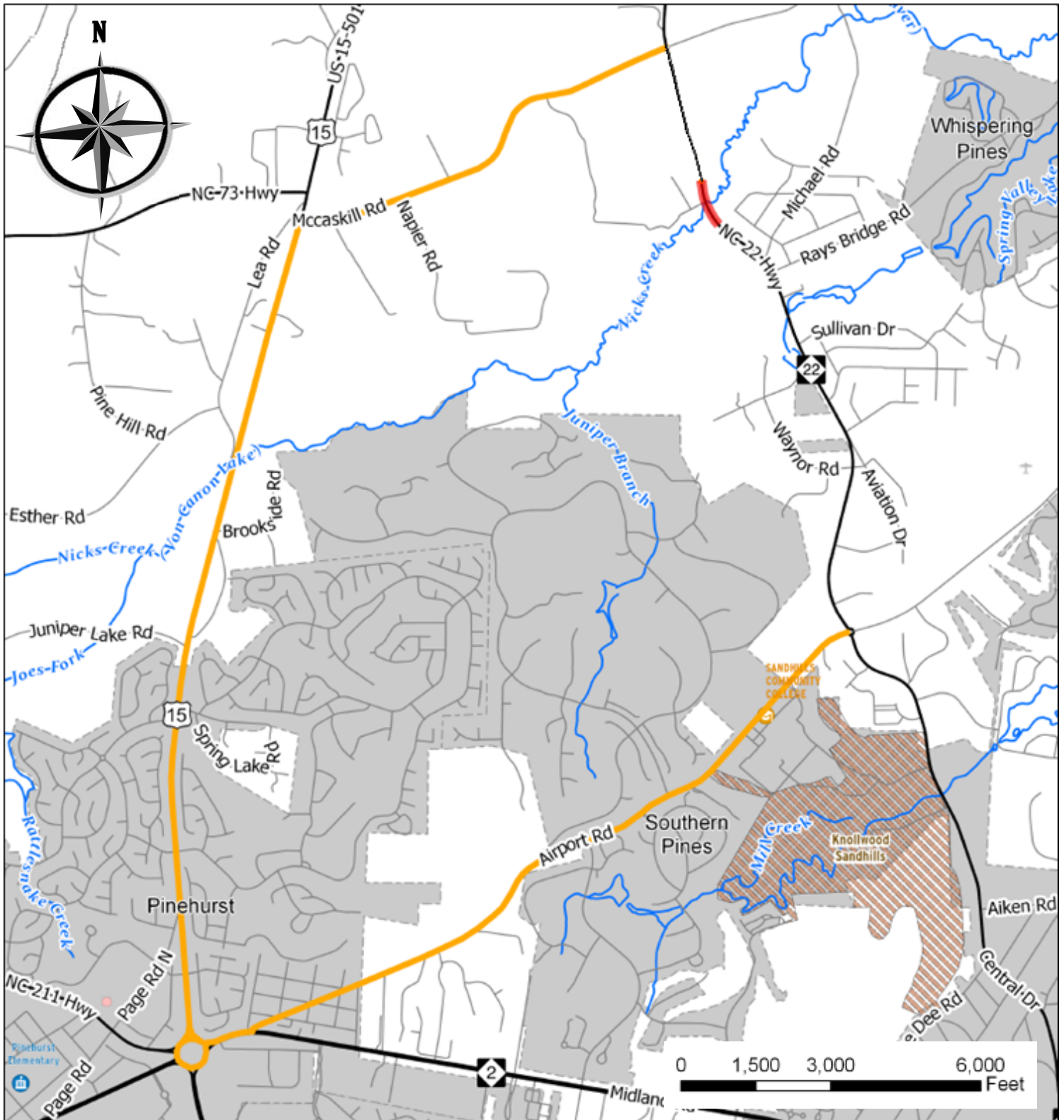
Nick's Creek Greenway


LEGEND

| | |
|------------------|--|
| Study Area | |
| Slope Stakes | |
| Edge of Pavement | |
| Wetlands | |
| Streams | |



| | |
|---------------------------|--|
| | STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 8 |
| | BR-0035 Replace Moore Co. Bridge No. 24 On NC 22 over Nicks Creek |
| Proposed Design on Aerial | Figure 2 |



| | |
|--|--|
|  | STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 3 |
| | BR-0035 Replace Moore Co. Bridge No. 24 On NC 22 over Nicks Creek |
| Project Location Map Figure 1 | |

17-12-0008
updated

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-0035 | County: | Moore |
| WBS No.: | 67035.1.1 | Document Type: | MCC |
| Fed. Aid No: | | Funding: | <input checked="" type="checkbox"/> State <input 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. 24 on NC 22 over Nick's Creek. | | | |

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 4, 2018. Based on this review there are no NR, DE, LL, SL, or SS in the Area of Potential Effects (APE). There is a reservoir or lake southwest the bridge that was created by damming Nick's Creek. An aerial photo from 1993 shows this dam to be a recent addition. No survey is required. The study area was expanded in March 2019; however, there are no properties over 50 years of age in the new 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

April 22, 2019

Date



17-12-0008



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-0035** County: **Moore**
 WBS No: **67035.1.1** Document: **M C C**
 F.A. No: Funding: State Federal

Federal Permit Required? Yes No Permit Type: **usace**

Project Description: NOTE THIS FORM REVISED AS OF 3/7/2019 FOR APE INCREASE. NCDOT proposes to replace Bridge No. 24 on NC 22 over Nicks Creek north of Southern Pines in Moore County. No alternative designs were available for use prepared for use during the archaeological review. However, considering the length and complexity of detour options, realignment or temporary detours are possible. For purposes of this review, the Area of Potential Effects (APE) is the length of the entire provided study area, about 1500 feet, with a width of 200 feet, all centered around the existing small Bridge No. 24 to be replaced. This APE allows for and considers multiple possible alignments and detour configurations and would include any needed new ROW, fill and cut lines, or construction easements. While this is a state funded project, USACE permitting is required, therefore Section 106 of the National Historic Preservation Act.

SUMMARY OF CULTURAL RESOURCES REVIEW

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

The bridge to be replaced is located along NC 24 in a rural setting between Carthage to the north and Southern Pines to the south. Some residences are present in the nearby vicinity and newer neighborhoods have been recently constructed.

USGS mapping (Carthage) and aerial photography was studied (see Figures 1 and 2). Google and Bing street view tools were used and confirm the conditions immediately around the existing bridge, generally wooded within the APE, and the terrain which has hilly approaches on NC 22 with a floodplain at the bridge. To the west of NC 22 is a dam and large pond, historically referenced as Chandler Pond though it may now be a municipal water source.

Soils were examined using Web Soil Survey. Two main soils are encountered, the often flooded Bibb loam (Bb, 0-2 percent slope, frequently flooded) and the steep Tarrus and Nanford soils (TnE, 15-25 percent slope). Neither is often associated with the presence of most types of archaeological sites in the county due to the unsuitable characteristics for habitation.

According to USGS mapping and GIS resources (data layer created by NCDOT archaeologist Paul J. Mohler), no cemetery is present at the APE or nearby.

A greenway exists in the nearby vicinity and suggests possible other park use facilities are in the greater project area.

Historic maps were examined to determine if any late historic structures, roads or other notations were present to help establish the a context of the recent past, especially farms, industry, land and transportation features which might offer hints to the presence of archaeological sites. The 1919 Soils Map of Moore County (MC.068.1919j) depicts the equivalent roadway at that time on a different alignment especially heading north from the crossing of Nicks Creek. A short distance to the west is "Chandler's Pond," where the current lake exists. It is possible that earlier dams or mills were present in the nearby vicinity, or may