



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: **SR 1141** County: **Cumberland**
 WBS No: **DF15006.2026041** Document: **MCC**
 F.A. No: Funding: ☐ State ☒ Federal
 Federal Permit Required? ☒ Yes ☐ No Permit Type: **NWP3**

Project Description: Replacement of an aluminum arch culvert over Beaver Creek on SR 1141 (Bingham Drive) in Cumberland County, North Carolina. The archaeological Area of Potential Effects (APE) measures 600ft in length (300ft from each culvert end-point) and 150ft in width (75ft from each side of the SR1141 center-line).

SUMMARY OF CULTURAL RESOURCES REVIEW

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

Permitting and funding information was reviewed for determining the level of archaeological input required by state and federal laws. Based on the submitted "request for cultural resources review" form, the project is federally-funded with federal permit interaction. As such, Section 106 of the National Historic Preservation Act will apply. Next, construction design and other data was examined (when applicable) to define the character and extent of potential impacts to the ground surfaces embracing the project locale. For the most part, the APE dimensions were formulated to capture any federal permitted area. Once an APE was outlined, a map review and site file search was conducted at the Office of State Archaeology (OSA) on Thursday, January 5, 2016. No previously documented archaeological sites are located within the APE.

Historic structure locations often harbor archaeological deposits and features related to the former occupation of a property. An inspection of National Register of Historic Places (NRHP), State Study Listed (SL), Locally Designated (LD), Determined Eligible (DE), and Surveyed Site (SS) properties employing the NCSHPO website evidenced an absence of these historic resources within the immediate project area. In addition, historic maps of Cumberland County were appraised to identify former structure locations, land use patterns, or other confirmation of historic occupation in the project vicinity. Archaeological/historical reference materials were inspected as well. In general, the cultural background review established that no NRHP listed properties, previously recorded archaeological sites, or cemeteries are located within the APE. Based on cultural-historical factors, the APE is considered to have a low potential for the documentation of archaeological resources.

Further, topographic, geologic, flood boundary, lidar and NRCS soil survey maps (BaD) were referenced to evaluate pedological, geomorphological, hydrological, and other environmental determinants that may have resulted in past occupation at this location. Aerial and on-ground photographs (NCDOT Spatial Data Viewer) and the Google Street View map application (when amenable) were also examined/used for additional assessment of disturbances, both natural and human induced, which compromise the integrity of archaeological sites. Environmental/impact factors do not suggest a heightened potential for archaeological resource recovery.

16-12-0024

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

No documented cultural resources are contained within the current APE limits for the SR1141 culvert replacement project in Cumberland County, North Carolina. The majority of the APE has been impacted and disturbed from urbanization and from the construction and maintenance of the subject roadway. In such contexts, intact NRHP archaeological sites are unlikely to be present or preserved. No further consultation is advocated. A finding of "no archaeological survey required" is considered appropriate.

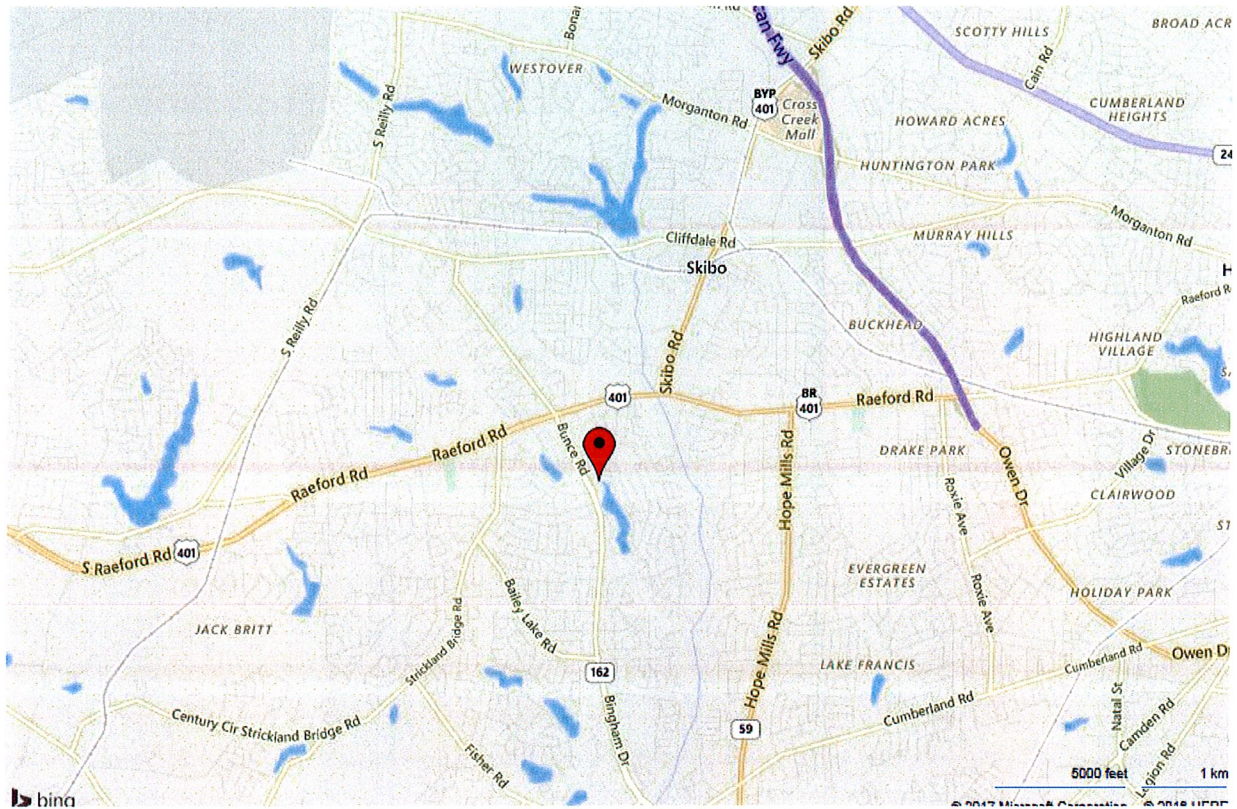
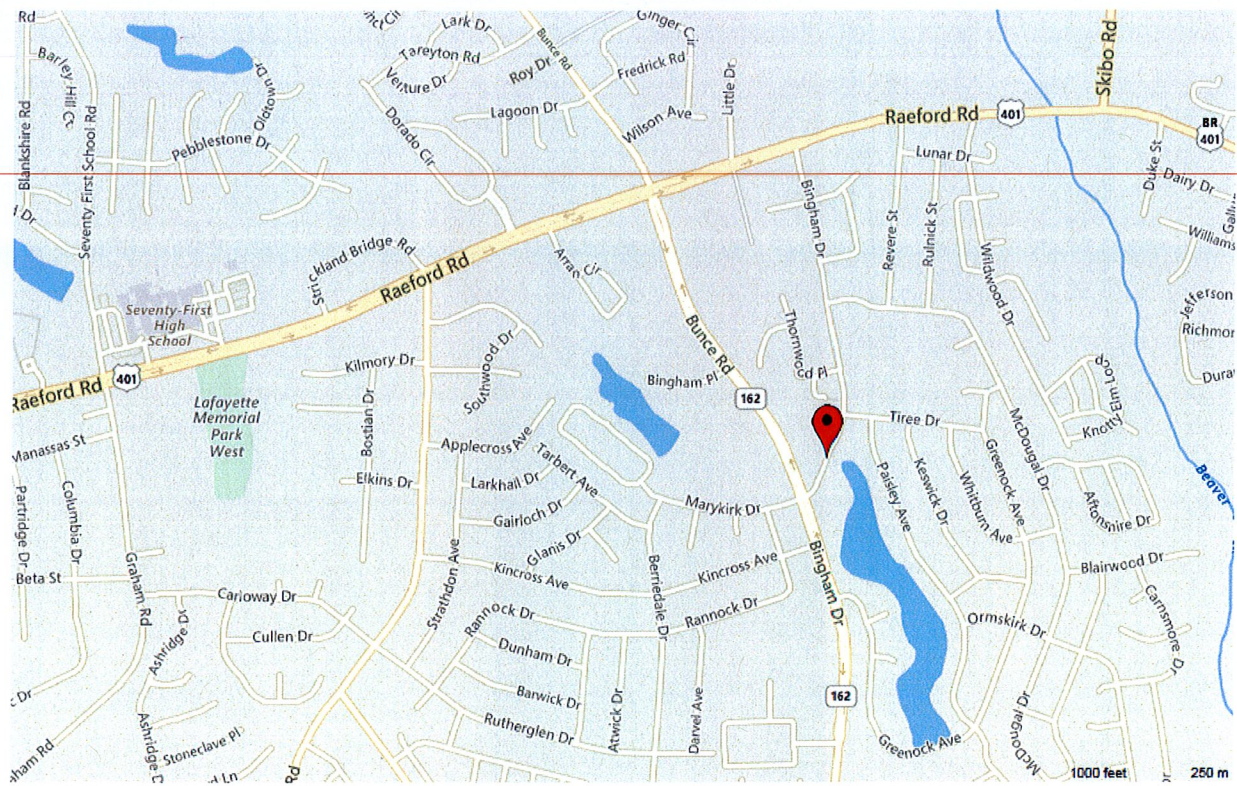
SUPPORT DOCUMENTATION

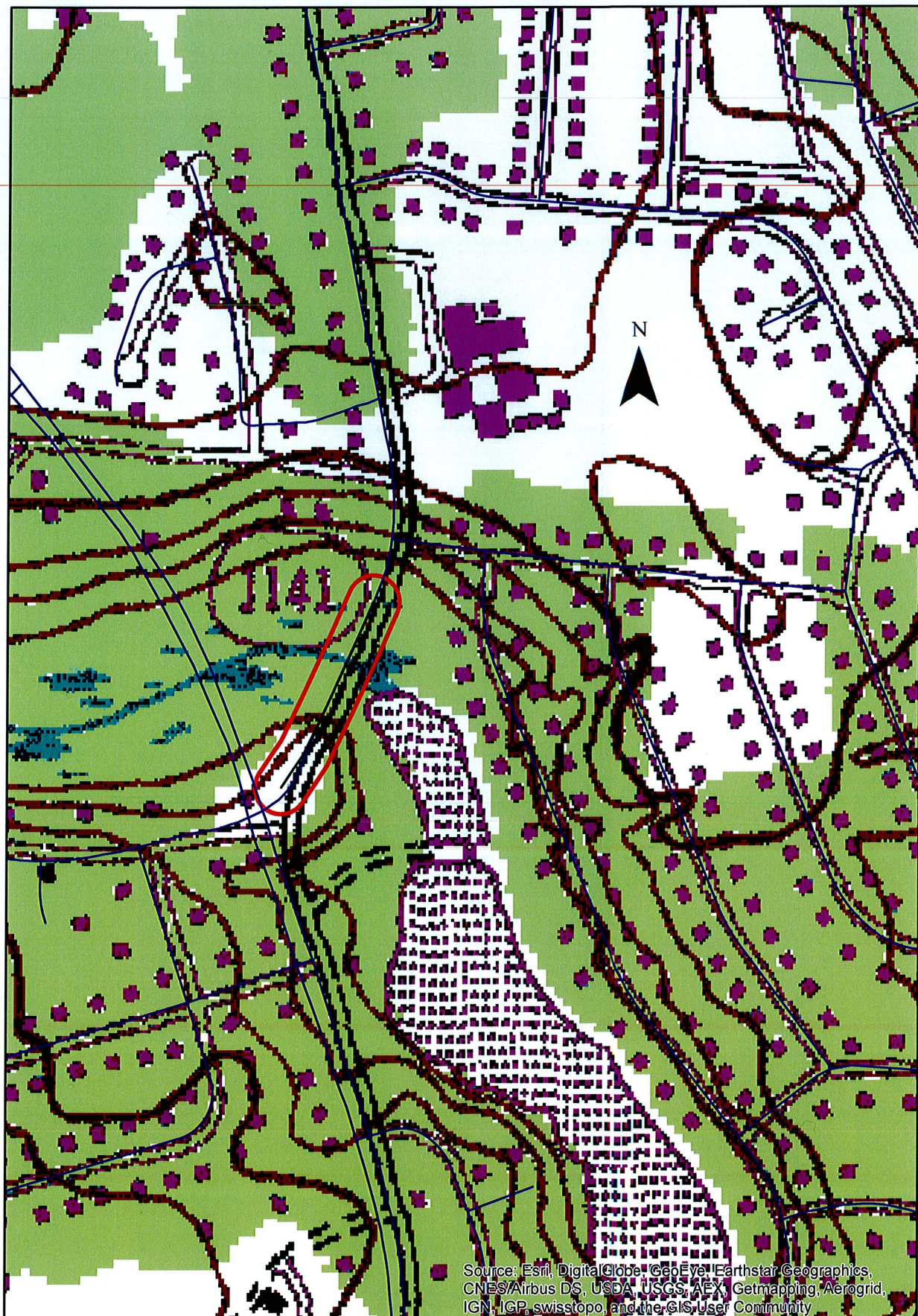
See attached: ☒ Map(s) ☐ Previous Survey Info ☐ Photos ☐ Correspondence
☐ Photocopy of County Survey Notes Other:

FINDING BY NCDOT ARCHAEOLOGIST**NO ARCHAEOLOGY SURVEY REQUIRED**

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Fayetteville topographic map relating the boundaries and location of the project APE in Cumberland County, North Carolina.



ARC-GIS image relating the boundaries and location of the project APE in Cumberland County, North Carolina.



BaD—Blaney loamy sand, 8 to 15 percent slopes

Map Unit Setting

- *National map unit symbol: w6z3*
- *Elevation: 160 to 660 feet*
- *Mean annual precipitation: 38 to 52 inches*
- *Mean annual air temperature: 61 to 70 degrees F*
- *Frost-free period: 210 to 245 days*
- *Farmland classification: Farmland of statewide importance*

Map Unit Composition

- *Blaney and similar soils: 85 percent*
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Blaney

Setting

- *Landform: Low hills*
- *Landform position (two-dimensional): Shoulder*
- *Landform position (three-dimensional): Crest*
- *Down-slope shape: Convex*
- *Across-slope shape: Convex*
- *Parent material: Sandy and loamy marine deposits*

Typical profile

- *A - 0 to 4 inches:* loamy sand
- *E - 4 to 25 inches:* loamy sand
- *Bt - 25 to 62 inches:* sandy clay loam
- *C - 62 to 80 inches:* loamy coarse sand

Properties and qualities

- *Slope:* 8 to 15 percent
- *Depth to restrictive feature:* More than 80 inches
- *Natural drainage class:* Well drained
- *Runoff class:* Medium
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.57 in/hr)
- *Depth to water table:* More than 80 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Available water storage in profile:* Low (about 4.0 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 3e
- *Hydrologic Soil Group:* C
- *Ecological site:* Loamy Backslope Woodland - PROVISIONAL (F137XY006GA)
- *Hydric soil rating:* No

VaD—Vaucluse loamy sand, 8 to 15 percent slopes**Map Unit Setting**

- *National map unit symbol:* w72d
- *Elevation:* 80 to 660 feet
- *Mean annual precipitation:* 38 to 55 inches
- *Mean annual air temperature:* 59 to 70 degrees F
- *Frost-free period:* 210 to 265 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Vaucluse and similar soils:* 80 percent
- *Minor components:* 5 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Vaucluse**Setting**

- *Landform:* Low hills
- *Landform position (two-dimensional):* Shoulder
- *Landform position (three-dimensional):* Crest
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Parent material:* Loamy and sandy marine deposits

Typical profile

- *Ap - 0 to 6 inches:* loamy sand
- *E - 6 to 15 inches:* loamy sand
- *Bt - 15 to 29 inches:* sandy clay loam
- *Btx - 29 to 58 inches:* sandy clay loam
- *BC - 58 to 80 inches:* sandy loam

Properties and qualities

- *Slope:* 8 to 15 percent
- *Depth to restrictive feature:* 15 to 35 inches to fragipan
- *Natural drainage class:* Well drained
- *Runoff class:* Medium
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.57 in/hr)

- *Depth to water table:* More than 80 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Available water storage in profile:* Very low (about 2.7 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 4e
- *Hydrologic Soil Group:* C
- *Ecological site:* Loamy Backslope Woodland - PROVISIONAL (F137XY006GA)
- *Hydric soil rating:* No

