

13-08-0040



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: **Str#430334 – Bridge 334** County: **Haywood**
 WBS No: **17BP.14.R.93** Document: **MCS**
 F.A. No: **n/a** Funding: ☒ State ☐ Federal

Federal Permit Required? ☒ Yes ☐ No Permit Type: **Nationwide 3 & 14, TVA**

Project Description: Replacement of Bridge No. 334 over Johnson Branch on SR1212 in Haywood County, North Carolina. The archaeological Area of Potential Effects (APE) is centered upon the bridge structure and measures 600ft in length (300ft. from each bridge end-point) and 150ft in width (75ft. laterally from each side of the SR1212 center-line).

SUMMARY OF ARCHAEOLOGICAL RESOURCES REVIEW: ***SURVEY REQUIRED***

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

To determine the cultural resource potential of the APE, numerous sources of information and data were reviewed. A site file search and map review was undertaken at the Office of State Archaeology (OSA) to determine if any previously documented archaeological sites necessitating National Register of Historic Places (NRHP) evaluation were situated within or directly adjacent to the project's APE. At this time, other archaeological sites consolidated to the Dellwood topographic map were consulted in order to competently evaluate environmental, cultural, and other factors that resulted in nearby occupations. Archaeological and historical reference materials were also examined to gain a familiarity with the occupants of this area, and with the types of artifacts and deposits they generated, which may be present in the project study area.

Historic structure locations reveal patterns of settlement and occupancy across a landscape. These important resources often contain archaeological deposits which aid in disclosing muted histories and forgotten details of past lives. For this reason, examination of National Register of Historic Places (NRHP), State Study Listed (SL), Locally Designated (LD), Determined Eligible (DE), and Surveyed Site (SS) properties employing resources available on the North Carolina State Historic Preservation Office (NCSHPO) website is crucial in establishing the location of noteworthy historic occupations related to a perspective construction impact area. Historic maps of Haywood County and the genral project area were also examined for past structure locations, land-use patterns, or other features indicative of past occupation. In addition, topographical, hydrological, landform, geological, and pedeological data and mapping was assessed. These elements contribute to providing ideal settlement situations leading to past occupation of the APE.

In general, a number of factors suggest a moderate to high potential of the APE and immediately surrounding areas containing evidence of past prehistoric activity. A number of archaeological sites, situated in similar or identical environmental contexts as the current project area, have been documented in a roughly one mile arc to the north. Of these sites, 31HW188 and 31HW189 are located closest to Bridge 334, the former positioned about 500ft to the north. Recorded by Bass (1975) during his survey of the Great Smoky Mountains, 31HW188 contained unknown lithic and Middle Archaic cultural affiliations, a cultural midden feature, and a variety of lithic debitage including ground or pecked stone, secondary debitage, cores, unifacial tools, bifaces, hafted bifaces, and projectile points. 31HW189, located a bit further to the northeast, embraced a cultural midden deposit, and artifacts attributable to each Archaic and Woodland subperiod. Both 31HW188 and 31HW189 remain unassessed for NRHP

eligibility. According to topographic and soil data, the northwestern quadrant has the highest potential of containing archaeological artifacts, features, or deposits. Despite the sloping topography that characterizes much of the general vicinity surrounding the APE, the proximity of 31HW188, the overall cultural/historical profile of the area, and environmental considerations point to a heightened archaeological site documentation potential, particularly to the prehistoric end. Therefore, an in-field survey of the Bridge 334 project study area is recommended prior to construction.

SUPPORT DOCUMENTATION

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

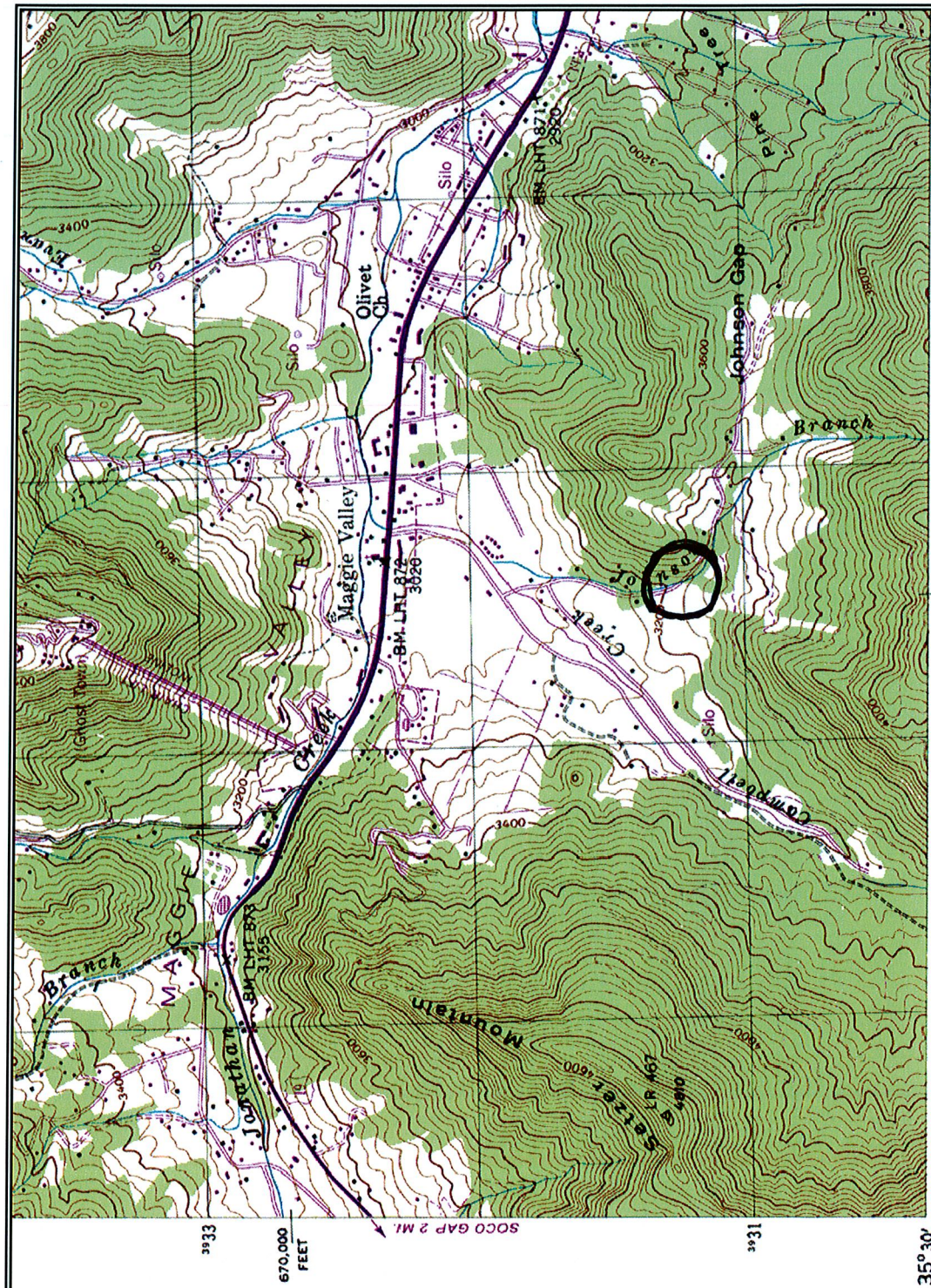
FINDING BY NCDOT ARCHAEOLOGIST – **SURVEY REQUIRED**

Gretchen E. Houser 8/28/2013
NCDOT ARCHAEOLOGIST Date

Sept-Oct 2013
Proposed fieldwork completion date

430334





35° 30' 30" 83° 07' 30" 5'

670,000 FEET

3933

3931

308 309 310 780,000 FEET

5'

1

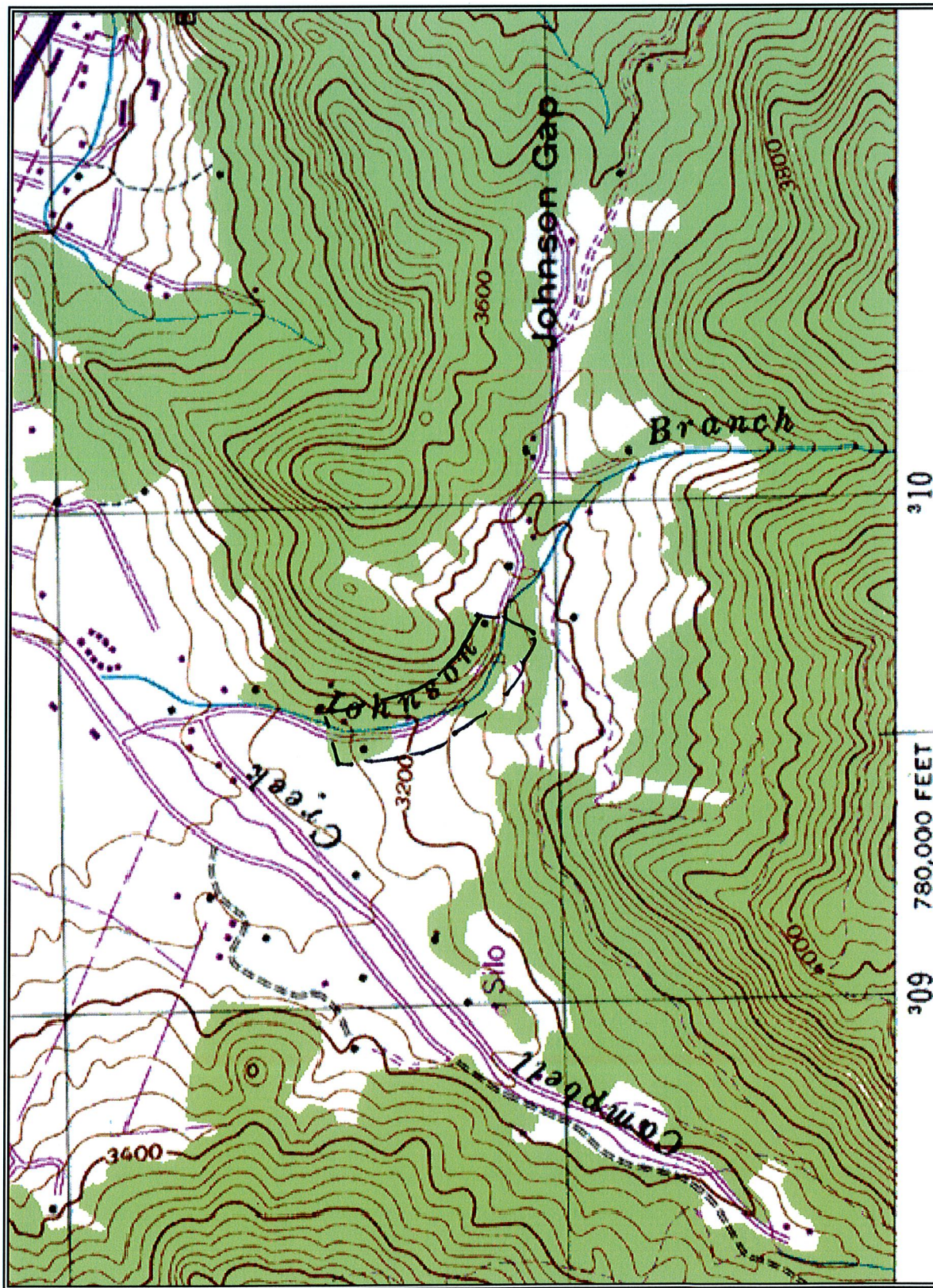
MN GN 2 1/4" 44 MILES 1" 11'

Copyright (C) 1996, Earthvisions, Inc.

Mapped and edited by Tennessee Valley Authority
 Published by the Geological Survey
 Control by NOS/NOAA, USGS, and TVA
 Topography by USGS by photogrammetric methods.
 Map field checked by TVA 1941



DELLWOOD 9946



see Valley Authority



SdC—Saunook loam, 8 to 15 percent slopes, stony

Map Unit Setting

- *Elevation:* 1,500 to 4,800 feet
- *Mean annual precipitation:* 40 to 80 inches
- *Mean annual air temperature:* 46 to 57 degrees F
- *Frost-free period:* 100 to 150 days

Map Unit Composition

- *Saunook and similar soils:* 80 percent

Description of Saunook

Setting

- *Landform:* Coves on mountain slopes, drainageways on mountain slopes, fans on mountain slopes
- *Landform position (two-dimensional):* Footslope, toeslope
- *Landform position (three-dimensional):* Mountainbase, base slope
- *Down-slope shape:* Linear
- *Across-slope shape:* Concave
- *Parent material:* Colluvium derived from igneous and metamorphic rock

Properties and qualities

- *Slope:* 8 to 15 percent
- *Depth to restrictive feature:* More than 80 inches
- *Drainage class:* Well drained
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 1.98 in/hr)
- *Depth to water table:* More than 80 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Available water capacity:* High (about 9.3 inches)

Interpretive groups

- *Farmland classification:* Farmland of statewide importance
- *Land capability (nonirrigated):* 3e
- *Hydrologic Soil Group:* B

Typical profile

- *0 to 8 inches:* Loam
 - *8 to 50 inches:* Clay loam
 - *50 to 80 inches:* Fine sandy loam
-

SoE—Soco-Stecoah complex, 30 to 50 percent slopes

Setting

- *Landform:* Mountain slopes, ridges
- *Landform position (two-dimensional):* Backslope, summit
- *Landform position (three-dimensional):* Mountainflank, mountaintop, side slope, nose slope
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Parent material:* Residuum weathered from metaconglomerate and/or meta graywacke and/or meta sandstone that is affected by soil creep in the upper solum

Properties and qualities

- *Slope:* 30 to 50 percent
- *Surface area covered with cobbles, stones or boulders:* 0.1 percent
- *Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock
- *Drainage class:* Well drained
- *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 capacity:* Low (about 5.1 inches)

Typical profile

- *0 to 5 inches:* Channery fine sandy loam
 - *5 to 24 inches:* Fine sandy loam
 - *24 to 35 inches:* Channery fine sandy loam
 - *35 to 80 inches:* Weathered bedrock
-

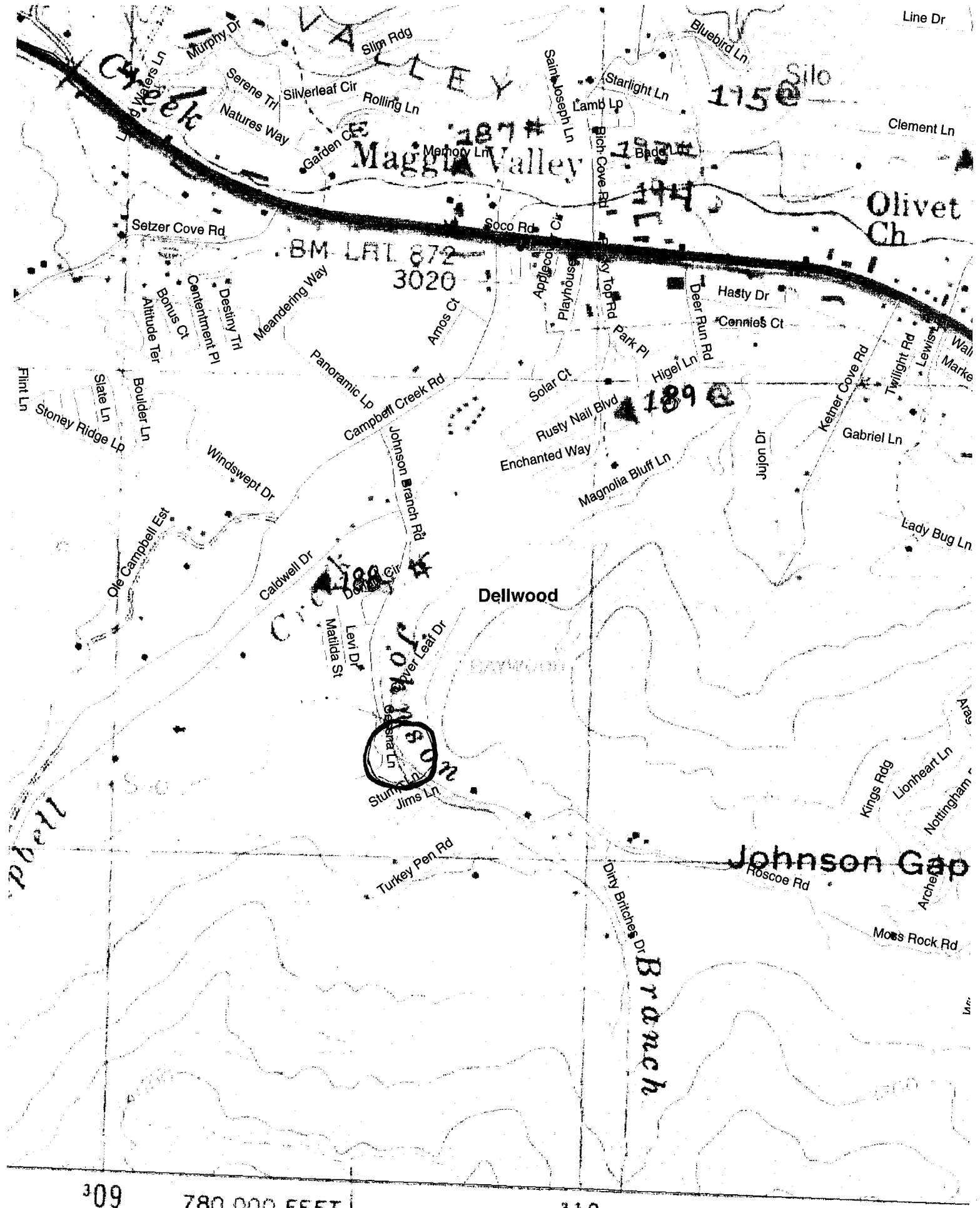
ChF—Cheoah channery loam, 50 to 95 percent slopes

Setting

- *Landform:* Mountain slopes
- *Landform position (two-dimensional):* Backslope, summit
- *Landform position (three-dimensional):* Mountainflank, side slope
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Parent material:* Residuum weathered from metaconglomerate and/or meta graywacke and/or meta sandstone that is affected by soil creep in the upper solum

Properties and qualities

- *Slope:* 50 to 95 percent
 - *Surface area covered with cobbles, stones or boulders:* 0.1 percent
 - *Depth to restrictive feature:* 40 to 60 inches to paralithic bedrock
 - *Drainage class:* Well drained
 - *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
-



Authority

Hazelwood

NORTH CAROLINA ARCHAEOLOGICAL SITE FORM

OFFICE OF STATE ARCHAEOLOGY

SITE NAME(S): _____ **OTHER SITE NUMBER:** 31HW11
INSTITUTION ASSIGNING: U.S. Park Service **PROJECT SITE NUMBER:** _____
SITE COMPONENT: Prehistoric **SITE REMAINS:** Not Recorded

SITE LOCATION INFORMATION

COUNTY	HAYWOOD	QUAD MAP	DELLWOOD 1941 (79PR)
COORDINATE SYSTEM		MAP UNITS	
MAP ZONE	17	MAP EASTING	309420
MAP DATUM		MAP NORTHING	3931570
RECORDED W/GPS?:		GPS DATA POST-PROCESSED?:	Unknown

DATE RECORDED: 6/23/1975**RECORDED BY:** _____**RESULT OF COMPLIANCE PROJECT:** _____**CODING DATE:** 1/12/1982**PROJECT NAME:** _____**CODED BY:** _____**ARTIFACT INVENTORY ATTACHED?:** Unknown**CURATION FACILITY:****ACCESSION NUMBER****ORDER:**

U.S. Park Service

1

BIBLIOGRAPHIC NUMBER(S):

BIB 43

ENVIRONMENTAL INFORMATION

TOPOGRAPHIC SITUATION: 1st Terrace	ELEVATION (FEET): 3120
SLOPE PERCENT LOW(%): 0	SLOPE PERCENT HIGH (%): 0
SLOPE FACE DIRECTION:	SOIL COMPOSITION: Sandy loam
MODERN VEGETATION: Row Crop/Cultivated	NRCS SOIL TYPE CODE:
	SOIL SERIES NAME
DISTANCE TO WATER (METERS): 160	NEAREST PERM WATER TYPE: River, Creek, or Stream
DRAINAGE BASIN:	SITE SIZE:
GROUND VISIBILITY LOW (%): 0	GROUND VISIBILITY HIGH (%): 0
PERCENT DESTROYED Unknown	DESTRUCTION DATE
SITE CONDITION:	

Major Pot Holes

INVESTIGATIONS

COLLECTION MADE: Yes**COLLECTION STRATEGY**

Total

AREA COVERED IN CONTROLLED COLLECTION (SQ.M.):**SUBSURFACE TEST MADE:** Unknown

NATIVE AMERICAN SITE INFORMATION

CULTURAL AFFILIATIONS:

Lithic (Unknown Component)

SITE FUNCTION

NORTH CAROLINA ARCHAEOLOGICAL SITE FORM
OFFICE OF STATE ARCHAEOLOGY

Middle Archaic

Short-Term Habitation

MIDDEN: Present

LITHICS:

Ground or Pecked Stone
Secondary Debitage
Secondary Debitage
Cores
Unifacial Tools
Bifaces
Hafted Bifaces/Projectile Pts.
Ground or Pecked Stone
Secondary Debitage
Secondary Debitage
Cores
Unifacial Tools
Bifaces
Hafted Bifaces/Projectile Pts.

NATIVE AMERICAN CERAMICS

HISTORIC SITE INFORMATION

PERIOD OF OCCUPATION BEGIN

PERIOD OF OCCUPATION END

REFINED DATE FROM:

REFINED DATE TO:

DATEABLE CERAMICS: Unknown

OFFICE OF STATE ARCHAEOLOGY USE ONLY

DATE ON NRHP:

REGISTER STATUS: Unassessed

TYPE OF FORM: Short Prehistoric Site Form I

RECORDER STATUS: NCAC Member or Professional

FORM RELIABILITY: Incomplete-Internally

LOCATIONAL RELIABILITY: Within 100m Ra

FORM DATA CHECKED BY:

FORM DATE:

COMMENTS

RESEARCH
POTENTIAL:EXPLANATION
OF IMPACTS:EXPLANATION OF
RECOMMENDATIONSEXCAVATION
RESULTS:SUBSURFACE TESTING
RESULTS:FEATURE
DESCRIPTION:

NORTH CAROLINA ARCHAEOLOGICAL SITE FORM
OFFICE OF STATE ARCHAEOLOGY

**OWNER/TENANT
INFORMATION:**

C. E. Shelnutt, Maggie Valley, NC

DIRECTIONS TO SITE:

COMMENTS:

**HISTORIC CERAMIC
TYPES:**

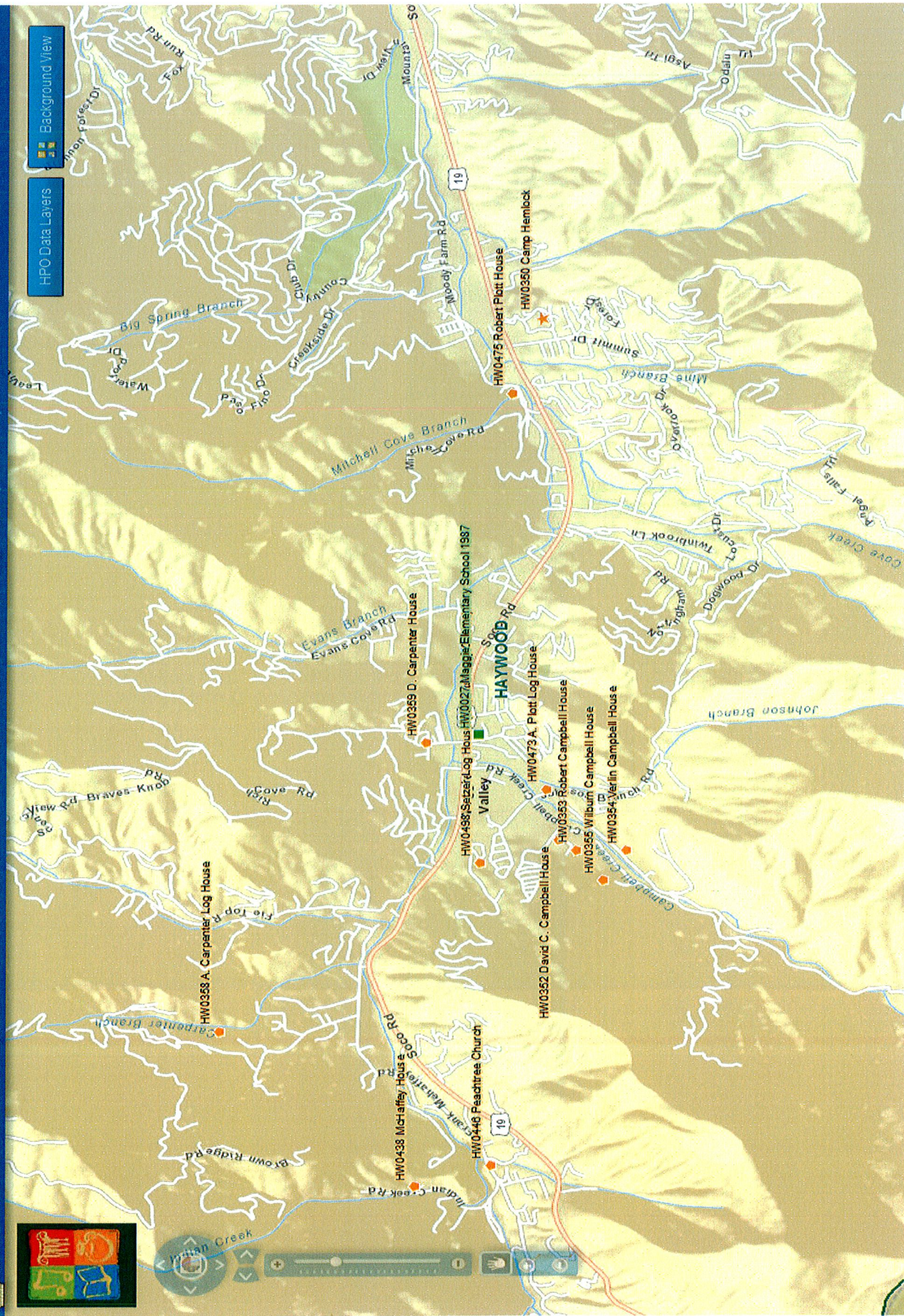
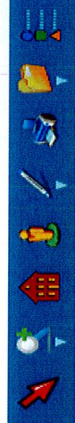
**HISTORIC SITE
DESCRIPTION:**

**OTHER IMPORTANT
ARTIFACT TYPES:**



HPO Data Layers

Background View





77m
the GIS User Community

Source: USGS
Source: NASA, NGA, USGS
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AIX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
SDV Default Map



esri

41m

Source: USGS

Source: NASA, NGA, USGS

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
SDV Default Map

**REQUEST FOR CULTURAL
RESOURCES REVIEW FORM**

13-08-0040

MEMORANDUM TO: Drew Joyner, Human Environment Unit
1598 Mail Service Center, Raleigh, NC 27699-1598

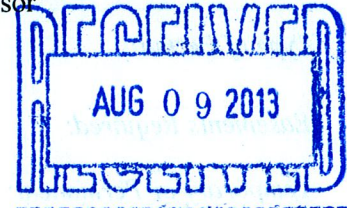
ATTENTION: Matt Wilkerson, Archaeology Supervisor
Mary Pope Furr, Historic Architecture Supervisor

FROM: Pamela R. Williams
Priority Projects Engineer

SUBJECT: Request for Cultural Resources Review

DATE: August 9, 2013

ENTERED AUG 14 2013

**PROJECT INFORMATION**

Project No: Str. # **430334** *County:* **HAYWOOD**

WBS No: **17BP.14.R.93** *Document:* LIBR data Sheet (PCE) or
Minimum Criteria checklist

F.A. No: N/A *Funding:* ☒ State ☐ Federal

USGS Quad: Dellwood

Project Description: **REPLACE BRIDGE NO. 430334 OVER JOHNSON BRANCH OFF CAMPBELL CREEK ON SR1212 (Johnson Branch)**

Replace structure at existing location. Area of potential effects is 75' either side from the centerline of the roadway/bridge and 300' from either end of the bridge.

Purpose & Need: Bridge is in poor condition and selected to be replaced under the State Funded Bridge Replacement Program-Design-Build Year 3 Express Design-Build.

SCHEDULING AND CONTACT INFORMATION

Date Needed: September 9, 2013

Engineer: Pam Williams *Tel* 919-707-6608 *Email* prwilliams@ncdot.gov

DESIGN INFORMATION

Project Length: **Approximately 500 feet**

Exist. R/W: 60 feet or from ditch line to ditch line maintained *Proposed R/W:* Yes but will Vary

Exist. Speed Limit: N/A *Proposed Speed Limit:* N/A

Exist. X-Section: One lane in each direction

Detour Route: Off-Site

Structure Type: Bridge *Year Built:* **1963**