



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

August 17, 2026

DANIEL H. JOHNSON
SECRETARY

U. S. Army Corps of Engineers
Water Resources Development Act (WRDA)
Transportation Permitting Branch

NC Division of Water Resources
Transportation Permitting Branch

ATTN: NCDOT Coordinator

NCDOT Coordinator

Subject: Application for: **Section 404 Permit and 401 Water Quality Certification** as the result of **Hurricane Helene** for the **Replacement of Bridge 159** over **Reems Creek** on SR 2115 (Blackberry Inn Road) in **Buncombe County**, Division 13, WBS DF18313.2011262.PR.

Dear NCDOT Coordinators:

The North Carolina Department of Transportation (NCDOT) proposes the following project as the result of damage caused by Hurricane Helene in September 2024: Restoration of Bridge 159 over Reems Creek.

Approvals Requested:

404 Nationwide Permit 3: Notification required due to:

- 1) greater than 0.008 acre of impacts other than temporary dewatering in a Designated Trout Watershed
- 2) A biological conclusion of other the "No Effect"

401 General Certification 8562: Certificate of Coverage required due to stream impacts greater than 150 lf

FEMA is the lead federal agency for this project.

Brief Damage Summary and Current Temporary/ Emergency Structure:

The existing 21-foot long, single-span bridge was critically damaged by the storm. The bridge has been temporarily shored and is currently serving SR 2115.

Proposed Replacement:

A new single-span, 30-foot-long bridge will replace the previous 21-foot bridge, in the same location as the previous bridge. A temporary detour bridge will be constructed immediately upstream to serve SR 2115 during construction.

Avoidance and Minimization:

- The proposed bridge will have no direct discharge into the creek.
- Stormwater runoff is discharged as far away from the stream and at the lowest velocities practicable.
- Bank stabilization is proposed to stabilize the stream banks.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

Telephone: (919) 707-6000
Customer Service: 1-877-368-4968
Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610

Proposed Activities in Streams:

Impact Site	Permanent Fill	Bank Stabilization	Temporary Impacts	Permit Proposed/ Impact Description
Site 1 Detour Road	--	143 lf 0.03 ac	90 lf 0.02 ac	Bank stabilization is required to stabilize the banks leading up to and through the detour bridge. Additional temporary dewatering operations are also required throughout the reach. All bank stabilization will be removed in conjunction with the removal of the detour bridge after construction is complete. All streamside areas will be regraded and seeded as appropriate.
Site 1 Permanent Replacement	--	113 lf 0.03 ac	20 lf <0.01 ac	Bank stabilization is required to stabilize the banks leading up to and through the new bridge. Additional temporary impacts are for dewatering operations that will be occurring throughout the reach.
Totals*:	--	256 lf 0.06 ac	110 lf 0.03 ac	*Accounting for overlapping temporary and permanent impacts, the proposed detour bridge and replacement structure will impact a total of 243 linear feet of Reems Creek at least temporarily. It is anticipated that all 243 linear feet of Reems Creek will be at least partially dewatered during construction phases.

The information above is provided in accordance with the "U.S. Army Corps of Engineers, Wilmington District's Information for Hurricane Helene Recovery and Repair Work Conducted by the North Carolina Department of Transportation in Waters of the U.S." dated February 10, 2025.

Bridge Before:



Bridge After:



Endangered Species Act

Protected Species listed from IPaC¹ as of the date of this application:

Common Name	Habitat Present	Survey Dates	Proposed Biological Conclusion	FWS Concurrence Remarks
Gray bat	Yes	n/a	May Affect, Likely to Adversely Affect	Attached
Northern long-eared bat	Yes	n/a	May Affect, Likely to Adversely Affect	
Tricolored bat	Yes	n/a	May Affect, Likely to Adversely Affect	
Bog Turtle ²	n/a	n/a	n/a	n/a
Eastern hellbender (Proposed) ³	n/a	n/a	n/a	n/a
Monarch butterfly (Proposed) ³	n/a	n/a	n/a	n/a
1 IPaC – Information for Planning and Consultation (US Fish and Wildlife Service) 2 Similarity of Appearance (Threatened); A species that is threatened due to similarity of appearance with another listed species and is listed for its protection. 3 Due to the recent listings of Eastern hellbender and monarch butterfly within the proposed action area, NCDOT does not have complete information at this time. It is anticipated that construction will be complete by the timeframes proposed for full listing, should the species be formally listed.				

Historic Resources Summary (documentation included)

106 Topic	Findings	
Historic Architecture	No Properties Present	
Archaeology	No Archaeological Sites Present	
Tribal Coordination	Tribe	Response
Tribal Coordination Letters were sent to the following Tribes on February 11, 2025:	Catawba Indian Nation	No response received
	Eastern Band of Cherokee Indians	No response received
	Muscogee (Creek) Nation	No response received
	Cherokee Nation	No response received
	United Keetoowah Band of Cherokee Indians in Oklahoma	No response received

If you have any questions or need additional information, please contact Michael Turchy, at maturchy@ncdot.gov or (919) 707-6157.

Sincerely,

 Digitally
signed by
Michael
Turchy

Michael A. Turchy
Environmental Coordination and Permitting Group Leader

ePCN

U.S. Army Corps of Engineers (USACE)
NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)

For use of this form, see 33 CFR 330; the proponent agency is CECW-CO-R.

Form Approved -
OMB No. 0710-
0003
Expires: 2027-10-31

DATA REQUIRED BY THE PRIVACY ACT OF 1974

Authority Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Regulatory Program of the Corps of Engineers (Corps); Final Rule 33 CFR 320-332.

Principal Purpose Information provided on this form will be used in evaluating the nationwide permit pre-construction notification.

Routine Uses This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of the agency coordination process.

Disclosure Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can

The public reporting burden for this collection of information, 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see *sample drawings and/or instructions*) and be submitted to the district engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED 08/17/2026	4. DATE APPLICATION COMPLETE
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(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First – Robert Middle – Last – Crowther Company – NCDOT Company Title – E-mail Address – recrowther@ncdot.gov	8. AUTHORIZED AGENT'S NAME AND TITLE (<i>agent is not required</i>) First – Middle – Last – Company – E-mail Address –
6. APPLICANT'S ADDRESS Address – 1598 Mail Service Center City – Raleigh State – NC ZIP – 27699 Country – US	9. AGENT'S ADDRESS Address – City – State – ZIP – Country –
7. APPLICANT'S PHONE NOS. with AREA CODE a. Business b. c. Fax +19197076112	10. AGENT'S PHONE NOS. with AREA CODE a. b. c. Fax

STATEMENT OF AUTHORIZATION

11. I hereby authorize, to act in my behalf as my agent in the processing of this nationwide permit pre-construction notification and to furnish, upon request, supplemental information in support of this nationwide permit pre-construction notification.

SIGNATURE OF APPLICANT_____
DATE**NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY**12. PROJECT NAME or TITLE (*see instructions*)

NCDOT / Helene Bridge 159 / Reems Creek / Blackberry Inn Road (SR 2115) / Buncombe / Div. 13 / DF18313.2011262.PR

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY13. NAME OF WATERBODY, IF KNOWN (*if applicable*)14. PROPOSED ACTIVITY STREET ADDRESS (*if applicable*)15. LOCATION OF PROPOSED ACTIVITY (*see instructions*)

Latitude: 35.709222 °N

Longitude: -82.461 °W

Address: 113 Blackberry Inn Rd

City:

Weaverville

State:

NC

Zip:

28787

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (*see instructions*)

Section –

Township –

Range –

County – Buncombe County

Project Area – 3 Acres

State Tax Parcel ID –

17. DIRECTIONS TO THE SITE

18. IDENTIFY THE SPECIFIC NATIONWIDE PERMIT(S) YOU PROPOSE TO USE

NWP 3 Maintenance

19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY (*see instructions*)

NCDOT proposes the Replacement of Bridge 159 over Reems Creek on Blackberry Inn Road (SR 2115) in Buncombe County, Division 13, WBS DF18313.2011262.PR, under the Expedited Processing Provisions for Hurricane Helene Response.

State Department of Transportation/ Bridge Replacement Project

20. DESCRIPTION OF PROPOSED MITIGATION MEASURES (*see instructions*)

-The proposed bridge will have no direct discharge into the creek.

-Stormwater runoff is discharged as far away from the stream and at the lowest velocities practicable.

-Bank stabilization is proposed to stabilize the stream banks.

21. PURPOSE OF NATIONWIDE PERMIT ACTIVITY *(Describe the reason or purpose of the project, see instructions)*

To restore a transportation facility (bridge) damaged or destroyed by Hurricane Helene.

22. QUANTITY OF WETLANDS, STREAMS, OR OTHER TYPES OF WATERS DIRECTLY AFFECTED BY PROPOSED NATIONWIDE PERMIT ACTIVITY
(see instructions)

See Appendix B

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.

25. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. *(see instructions)*

26. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and/or the loss of greater than 3/100-acre of stream bed and requires pre-construction notification, explain how the compensatory mitigation requirement in paragraph (c) and/or paragraph (d) of general condition 23 will be satisfied, or explain why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required for the proposed activity.

27. Is any portion of the nationwide permit activity already complete? Yes No

If Yes, describe the completed work:

28. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. *(see instructions)*

Gray bat,Northern Long-Eared Bat,Tricolored bat,Eastern Hellbender,Monarch butterfly

ADDITIONAL AFFECTED SPECIES:

Bog Turtle: SAT

See included USFWS Consultation.

29. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties. *(see instructions)*

See included Section 106 documentation

30. For a proposed NWP activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, identify the Wild and Scenic River or the "study river":

31. If the proposed NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, have you submitted a written request for section 408 permission from the Corps district having jurisdiction over that project? Yes No

If "yes", please provide the date your request was submitted to the Corps district:

32. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. (*see instructions*)

33. Pre-construction notification is hereby made for one or more nationwide permit(s) to authorize the work described in this notification. I certify that the information in this pre-construction notification is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Robert Crowther

08/17/2026

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF AGENT

DATE

The pre-construction notification must be signed by the person who desires to undertake the proposed activity (applicant) and, if the statement in Block 11 has been filled out and signed, the authorized agent.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

**Instructions for Preparing a
Department of the Army
Nationwide Permit (NWP) Pre-Construction Notification (PCN)**

Blocks 1 through 4. To be completed by the Corps of Engineers.

Block 5. Applicant's Name. Enter the name and the e-mail address of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the name of the organization and responsible officer and title. If more than one party is associated with the preconstruction notification, please attach a sheet of paper with the necessary information marked Block 5.

Block 6. Address of Applicant. Please provide the full address of the party or parties responsible for the PCN. If more space is needed, attach an extra sheet of paper marked Block 6.

Block 7. Applicant's Telephone Number(s). Please provide the telephone number where you can usually be reached during normal business hours.

Blocks 8 through 11. To be completed, if you choose to have an agent.

Block 8. Authorized Agent's Name and Title. Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer, consultant, or any other person or organization. Note: An agent is not required.

Blocks 9 and 10. Agent's Address and Telephone Number. Please provide the complete mailing address of the agent, along with the telephone number where he / she can be reached during normal business hours.

Block 11. Statement of Authorization. To be completed by the applicant, if an agent is to be employed.

Block 12. Proposed Nationwide Permit Activity Name or Title. Please provide a name identifying the proposed NWP activity, e.g., Windward Marina, Rolling Hills Subdivision, or Smith Commercial Center.

Block 13. Name of Waterbody. Please provide the name (if it has a name) of any stream, lake, marsh, or other waterway to be directly impacted by the NWP activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

Block 14. Proposed Activity Street Address. If the proposed NWP activity is located at a site having a street address (not a box number), please enter it in Block 14.

Block 15. Location of Proposed Activity. Enter the latitude and longitude of where the proposed NWP activity is located. Indicate whether the project location provided is the center of the project or whether the project location is provided as the latitude and longitude for each of the "corners" of the project area requiring evaluation. If there are multiple sites, please list the latitude and longitude of each site (center or corners) on a separate sheet of paper and mark as Block 15.

Block 16. Other Location Descriptions. If available, provide the Tax Parcel Identification number of the site, Section, Township, and Range of the site (if known), and / or local Municipality where the site is located.

Block 17. Directions to the Site. Provide directions to the site from a known location or landmark. Include highway and street numbers as well as names. Also provide distances from known locations and any other information that would assist in locating the site. You may also provide a description of the location of the proposed NWP activity, such as lot numbers, tract numbers, or you may choose to locate the proposed NWP activity site from a known point (such as the right descending bank of Smith Creek, one mile downstream from the Highway 14 bridge). If a large river or stream, include the river mile of the proposed NWP activity site if known. If there are multiple locations, please indicate directions to each location on a separate sheet of paper and mark as Block 17.

Block 18. Identify the Specific Nationwide Permit(s) You Propose to Use. List the number(s) of the Nationwide Permit(s) you want to use to authorize the proposed activity (e.g., NWP 29).

Block 19. Description of the Proposed Nationwide Permit Activity. Describe the proposed NWP activity, including the direct and indirect adverse environmental effects the activity would cause. The description of the proposed activity should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal. Identify the materials to be used in construction, as well as the methods by which the work is to be done.

Provide sketches when necessary to show that the proposed NWP activity complies with the terms of the applicable NWP(s). Sketches usually clarify the activity and result in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed NWP activity (e.g., a conceptual plan), but do not need to be detailed engineering plans.

The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to do. If more space is needed, attach an extra sheet of paper marked Block 19.

Block 20. Description of Proposed Mitigation Measures. Describe any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed NWP activity. The description of any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or additional mitigation measures.

Block 21. Purpose of Nationwide Permit Activity. Describe the purpose and need for the proposed NWP activity. What will it be used for and why? Also include a brief description of any related activities associated with the proposed project. Provide the approximate dates you plan to begin and complete all work.

Block 22. Quantity of Wetlands, Streams, or Other Types of Waters Directly Affected by the Proposed Nationwide Permit Activity. For discharges of dredged or fill material into waters of the United States, provide the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained by the proposed NWP activity. For structures or work in navigable waters of the United States subject to Section 10 of the Rivers and Harbors Act of 1899, provide the amount of navigable waters filled, dredged, or occupied by one or more structures (e.g., aids to navigation, mooring buoys) by the proposed NWP activity.

For multiple NWPs, or for separate and distant crossings of waters of the United States authorized by NWPs 12 or 14, attach an extra sheet of paper marked Block 21 to provide the quantities of wetlands, streams, or other types of waters filled, flooded, excavated, or drained (or dredged or occupied by structures, if in waters subject to Section 10 of the Rivers and Harbors Act of 1899) for each NWP. For NWPs 12 and 14, include the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained for each separate and distant crossing of waters or wetlands. If more space is needed, attach an extra sheet of paper marked Block 22.

Block 23. Identify Any Other Nationwide Permit(s), Regional General Permit(s), or Individual Permit(s) Used to Authorize Any Part of Proposed Activity or Any Related Activity. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. For linear projects, list other separate and distant crossings of waters and wetlands authorized by NWPs 12 or 14 that do not require PCNs. If more space is needed, attach an extra sheet of paper marked Block 23.

Block 24. Compensatory Mitigation Statement for Losses of Greater Than 1/10-Acre of Wetlands and/or of Greater Than 3/100-Acre of Stream Bed When Pre-Construction Notification is Required. Paragraphs (c) and (d) of NWP general condition 23 require compensatory mitigation at a minimum one-for-one replacement ratio for all wetland losses that exceed 1/10-acre and/or for all losses of stream bed that exceed 3/100-acre, unless the district engineer determines in writing that either some other form of mitigation is more environmentally appropriate or the adverse environmental effects of the proposed NWP activity are no more than minimal without compensatory mitigation, and provides an activity-specific waiver of this requirement. Describe the proposed compensatory mitigation for wetland losses greater than 1/10 acre and/or for losses of stream bed that exceed 3/100-acre, or provide an explanation of why the district engineer should not require wetland and/or stream compensatory mitigation for the proposed NWP activity. If more space is needed, attach an extra sheet of paper marked Block 24.

Block 25. Is Any Portion of the Nationwide Permit Activity Already Complete? Describe any work that has already been completed for the NWP activity.

Block 26. List the Name(s) of Any Species Listed As Endangered or Threatened under the Endangered Species Act that Might be Affected by the Nationwide Permit Activity. If you are not a federal agency, and if any listed species or designated critical habitat might be affected or is in the vicinity of the proposed NWP activity, or if the proposed NWP activity is located in designated critical habitat, list the name(s) of those endangered or threatened species that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 7 of the Endangered Species Act.

Block 27. List Any Historic Properties that Have the Potential to be Affected by the Nationwide Permit Activity. If you are not a Federal agency, and if any historic properties have the potential to be affected by the proposed NWP activity, list the name(s) of those historic properties that have the potential to be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

Block 28. List the Wild and Scenic River or Congressionally Designated Study River if the Nationwide Permit Activity Would Occur in such a River. If the proposed NWP activity will occur in a river in the National Wild and Scenic River System or in a river officially designated by Congress as a "study river" under the Wild and Scenic Rivers Act, provide the name of the river. For a list of Wild and Scenic Rivers and study rivers, please visit <http://www.rivers.gov/>.

Block 29. Nationwide Permit Activities that also Require Permission from the Corps Under 33 U.S.C. 408. If the proposed NWP activity also requires permission from the Corps under 33 U.S.C. 408 because it will temporarily or permanently alter, occupy, or use a Corps federal authorized civil works project, indicate whether you have submitted a written request for section 408 permission from the Corps district having jurisdiction over that project.

Block 30. Other Information Required For Nationwide Permit Pre Construction Notifications. The terms of some of the Nationwide Permits include additional information requirements for preconstruction notifications:

- * NWP 3, Maintenance –information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals.
- * NWP 31, Maintenance of Existing Flood Control Facilities –a description of the maintenance baseline and the dredged material disposal site.
- * NWP 33, Temporary Construction, Access, and Dewatering –a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre project conditions.
- * NWP 44, Mining Activities –if reclamation is required by other statutes, then a copy of the final reclamation plan must be submitted with the pre construction notification.
- * NWP 45, Repair of Uplands Damaged by Discrete Events –documentation, such as a recent topographic survey or photographs, to justify the extent of the proposed restoration.
- * NWP 48, Commercial Shellfish Aquaculture Activities –(1) a map showing the boundaries of the project area, with latitude and longitude coordinates for each corner of the project area; (2) the name(s) of the species that will be cultivated during the period this NWP is in effect; (3) whether canopy predator nets will be used; (4) whether suspended cultivation techniques will be used; and (5) general water depths in the project area (a detailed survey is not required).
- * NWP 49, Coal Remining Activities –a document describing how the overall mining plan will result in a net increase in aquatic resource functions must be submitted to the district engineer and receive written authorization prior to commencing the activity.
- * NWP 50, Underground Coal Mining Activities –if reclamation is required by other statutes, then a copy of the reclamation plan must be submitted with the pre construction notification.

If more space is needed, attach an extra sheet of paper marked Block 30.

Block 31. Signature of Applicant or Agent. The PCN must be signed by the person proposing to undertake the NWP activity, and if applicable, the authorized party (agent) that prepared the PCN. The signature of the person proposing to undertake the NWP activity shall be an affirmation that the party submitting the PCN possesses the requisite property rights to undertake the NWP activity (including compliance with special conditions, mitigation, etc.).

DELINEATION OF WETLANDS, OTHER SPECIAL AQUATIC SITES, AND OTHER WATERS

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current wetland delineation manual and regional supplement published by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. The 45 day PCN review period will not start until the delineation is submitted or has been completed by the Corps.

DRAWINGS AND ILLUSTRATIONS

General Information.

Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map, a Plan View or a Typical Cross Section Map. Identify each illustration with a figure or attachment number. For linear projects (e.g. roads, subsurface utility lines, etc.) gradient

drawings should also be included. Please submit one original, or good quality copy, of all drawings on 8½x11 inch plain white paper (electronic media may be substituted). Use the fewest number of sheets necessary for your drawings or illustrations. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross section). While illustrations need not be professional (many small, private project illustrations are prepared by hand), they should be clear, accurate, and contain all necessary information.

ADDITIONAL INFORMATION AND REQUIREMENTS

For proposed NWP activities that involve discharges into waters of the United States, water quality certification from the State, Tribe, or EPA must be obtained or waived (see NWP general condition 25). Some States, Tribes, or EPA have issued water quality certification for one or more NWPs. Please check the appropriate Corps district web site to see if water quality certification has already been issued for the NWP(s) you wish to use. For proposed NWP activities in coastal states, state Coastal Zone Management Act consistency concurrence must be obtained, or a presumption of concurrence must occur (see NWP general condition 26). Some States have issued Coastal Zone Management Act consistency concurrences for one or more NWPs. Please check the appropriate Corps district web site to see if Coastal Zone Management Act consistency concurrence has already been issued for the NWP(s) you wish to use.

Appendix B. Aquatic Resource Inventory:

<i>Aquatic Resource Name</i>	<i>State</i>	<i>Cowardin System</i>	<i>Cowardin Class</i>	<i>HGM Class</i>	<i>Local Waterway Name</i>	<i>Measurement Type</i>	<i>Measurement Amount</i>	<i>Measurement Units</i>	<i>Waters Type</i>	<i>Latitude</i>	<i>Longitude</i>
Reems Creek	North Carolina	RIVERIN E	R2- RIVERINE, LOWER PERENNIAL		Reems Creek	Linear	200	FOOT	DELIN.CONC	35.709222	-82.461

Appendix C. Impact Inventory:

<i>Water Name</i>	<i>Impact Name</i>	<i>Activity</i>	<i>Type of Material Being Discharged</i>	<i>Resource Type</i>	<i>Permanent Loss (Y/N)</i>	<i>Impact Duration</i>	<i>Amount Type</i>	<i>Proposed Length</i>	<i>Proposed Width</i>	<i>Proposed Amount</i>	<i>Amount Units</i>
Reems Creek	Site 1 temporary dewatering	Discharge of fill material	Rock	River/Stream	No	Temporary	Fill Area	10	10	0.002296	Acres
Reems Creek	Site 1a bank stabilization	Discharge of fill material	Rock	River/Stream	No	Temporary	Fill Area	113	10	0.025941	Acres
Reems Creek	Site 1b temporary dewatering	Discharge of fill material	Rock	River/Stream	No	Temporary	Fill Area	10	10	0.002296	Acres
Reems Creek	Site 1c temporary dewatering	Discharge of fill material	Rock	River/Stream	No	Temporary	Fill Area	10	10	0.002296	Acres
Reems Creek	Site 1d bank stabilization/detour bridge	Discharge of fill material	Rock	River/Stream	No	Permanent	Fill Area	143	10	0.032828	Acres
Reems Creek	Site 1e temporary dewatering	Discharge of fill material	Rock	River/Stream	No	Temporary	Fill Area	10	10	0.002296	Acres
Reems Creek	Site 1d temporary dewatering	Discharge of fill material	Rock	River/Stream	No	Temporary	Fill Area	70	10	0.01607	Acres

Provide any additional information you may have about the proposed quantity of wetlands, streams, or other types of waters directly affected by the proposed activity. This level of detail is helpful to better understand the type of impacts that are proposed for your project.

Site 1, 1c, 1e: Temporary impacts for dewatering operations.

Site 1a: Bank stabilization is required to stabilize the banks leading up to and through the new bridge.

Site 1b: Temporary impacts are required to excavate the overbank area adjacent to the stream to increase the hydraulic opening beneath the temporary detour bridge and provide adequate conveyance during construction. The area will be restored following removal of the detour bridge.

Appendix H. Supporting Information:

<i>Document Type</i>	<i>Document Created Date (YYYY-MM-DD)</i>	<i>Document Label</i>	<i>Information Source/Citation</i>	<i>Uploaded file name</i>
Historic Properties Cultural Resources Information	2025-07-11	Tribal Coordination Letter	NCDOT	Buncombe 159 - 2025-07-11 Tribal Coordination Letter Distribution.pdf
Threatened Endangered Species Report	2026-08-17	ESA Section 7 Coordination	NCDOT	Buncombe 159 - 2025-07-21 and 2026-07-14 USFWS Concurrence.pdf
Historic Properties Cultural Resources Information	2025-12-17	HAL - No Properties Present	NCDOT	Buncombe 159 - 2025-12-17 HAL - No Properties Present.pdf
Historic Properties Cultural Resources Information	2025-12-18	No NRHP or Listed Archaeological Sites Present	NCDOT	Buncombe 159 - 2025-12-18 No NRHP or Listed Archaeological Sites Present.pdf
Project Plans	2026-08-17	Permit Impact Drawings	NCDOT	Buncombe 159 - 2026-06-23 Permit Drawings.pdf
Other Information	2026-08-17	Application Cover Letter / Impact Descriptions	NCDOT	Buncombe 159 - 2026-08-17 Application Cover Letter.pdf

U.S. Army Corps of Engineers (USACE)

PERMIT INFORMATION SHEET

PERMIT FORM TYPE

ENG 6082

DATE RECEIVED

08/17/2026

TYPE OF PERMIT YOU'RE REQUESTING

Standard

Letter Of Permission

General Permit

APPLICABLE STATUTORY AUTHORITY

Section 404 Clean Water Act

Section 10 Rivers and Harbors Act

Section 103 of the Marine Protection, Research, and Sanctuaries Act

DO YOU PROPOSE COMPENSATORY MITIGATIONS?

No

COASTAL DISTRICT

WOULD THE PROJECT OCCUR IN THE TERRITORIAL SEAS OR OCEAN WATERS?

No

DESCRIBE THE ACTIVITY'S RELATIONSHIP TO THE BASELINE FROM WHICH THE TERRITORIAL SEA IS MEASURED

SECTION 408 USACE CIVIL WORKS PROJECTS

WILL THE PROPOSED ACTIVITY REQUIRES PERMISSION FROM THE USACE PURSUANT TO 33 U.S.C. 408 BECAUSE IT WILL ALTER OR TEMPORARILY OR PERMANENTLY OCCUPY OR USE A U.S. ARMY CORPS OF ENGINEERS FEDERALLY AUTHORIZED CIVIL WORKS PROJECT?

Yes

No

I'm not sure

IF YES, HAVE YOU SUBMITTED A WRITTEN REQUEST FOR SECTION 408 PERMISSION FROM THE USACE DISTRICT HAVING JURISDICTION OVER THAT PROJECT?

Yes

No

GENERAL PERMIT INFORMATION

WILL THE PROPOSED ACTIVITY RESULT IN A LOSS TO WETLANDS OR WATERS THAT EXCEEDS NATIONAL OR DISTRICT THRESHOLDS?

No

U.S. Army Corps of Engineers (USACE)

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT – PARTNER APPENDIX

For use of this form, see 33 CFR 325. The proponent agency is CECW-COR.

AUTHORITIES: The Department of Army Corps of Engineers (Corps) and partner entities have established a joint process for activities impacting jurisdictional waterways that require review and/or approval of both the Corps and its partners. Department of Army permits are required by Section 10 of the Rivers & Harbors Act of 1899 for any structure(s) or work in or affecting navigable waters of the United States and by Section 404 of the Clean Water Act for the discharge of dredged or fill materials into waters of the United States, including adjacent wetlands. This supplemental information is provided to the partner entity along with the standard regulatory forms.

PARTNER INFORMATION

ORGANIZATION:

NC Division of Water
Resources (DWR)

PARTNER ID:

NAME AND CODE:

Form Name: NATIONWIDE/GENERAL/INDIVIDUAL PERMIT - DWR 401 Application Form
NC Division of Water Resources Application Information
Form Code: NCDWR 401

In North Carolina, many activities covered by Nationwide and Regional General Permits, as well as Individual Permits, also require a 401 Water Quality Certification from the Division of Water Resources. To streamline the application process for both the U.S. Army Corps of Engineers (USACE) and the North Carolina Division of Environmental Quality (NCDEQ) - Division of Water Resources (DWR), we have collaborated on this joint application form.

This joint application form serves to fulfill reporting requirements for both agencies under Sections 401 and 404 of the Clean Water Act, and Section 10 of the Rivers and Harbor Act of 1899, for specific activities permitted through Nationwide Permits (NWP), Regional General Permits (RGPs), and Individual Permits. The RRS is now the preferred method for submitting application information for these permits.

For questions, please contact the USACE at (910) 251-4633.

The Wilmington District and the North Carolina Department of Environmental Quality (NCDEQ) have collaborated to develop a Joint Permit Application (JPA) within the Regulatory Request System (RRS) for use with Nationwide Permits (NWP) and Regional General Permits (RGP), as well as, Individual Permits. This system functions similarly to previous versions of the Pre-Construction Notification form (also known as e-PCN). The RRS is an online platform that enables applicants to electronically upload and submit all required information to the reviewing agencies.

The RRS JPA fulfills the application and reporting requirements for both the U.S. Army Corps of Engineers (USACE) and NCDEQ for activities authorized under Sections 401 and 404 of the Clean Water Act, as well as Section 10 of the Rivers and Harbors Act of 1899.

Projects that fall within the North Carolina Division of Coastal Management (NCDQM) review area, will need to coordinate their application with NCDQM directly. To learn more, visit the [NCDQM website](<https://www.deq.nc.gov/about/divisions/division-coastal-management>).

USACE/NCDWR Joint Application Form for Nationwide Permits, Regional General Permits, and Individual Permits (along with corresponding Water Quality Certifications)

****PLEASE NOTE: THE SYSTEM IS STILL UNDER DEVELOPMENT, AND DATA CURRENTLY DOES NOT TRANSMIT ELECTRONICALLY TO NCDEQ'S DIVISION OF WATER RESOURCES (DWR). UNTIL FURTHER NOTICE, APPLICANTS MUST SUBMIT COMPLETED RRS JPA DOCUMENTS THROUGH [NCDEQ'S "PROJECT SUBMITTAL INTERIM FORM" WEBSITE](<https://edocs.deq.nc.gov/Forms/Supplemental-Information-Form>).****
[Additional Instructions](<https://edocs.deq.nc.gov/WaterResources/Browse.aspx?dbid=0&startid=3890140>)

SUPPLEMENTAL INFORMATION COLLECTED

ADDITIONAL CONTACT INFORMATION - Property Owner

- Is the owner the same as the applicant?
 - Yes

- Provide Primary Property Owner information
 - Please see the JPA_ContactReport.xlsx to review the provided contact data.
- Provide Additional Property Owner information
 - Please see the JPA_ContactReport.xlsx to review the provided contact data.

PROCESSING INFORMATION -

- Does the project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund OR involve the distribution or transmission of energy or fuel (including natural gas, diesel, petroleum, or electricity)?
 - No
- Is this project connected with (American Rescue Plan Act) ARPA funding or S.L. 2023-134 (earmark)?
 - No
- Please select:
 - Not Applicable (Question not presented)
- Please provide the DWI ARPA Funding Project Number (ie: SRP-W-ARP-1234 or SRP-W-134-1234):
 *The DWI Funding Project number can be located on the "Letter of Intent to Fund" (LOIF) or "Offer and Acceptance Letter". If you do not know your DWI project #, please contact your DWI project manager or fund recipient (e.g., LGU).
 - Not Applicable (Question not presented)
- Is this a NC Division of Mitigation Services (NCDMS) Project? Note - Select Yes only if NCDMS is the applicant/co-applicant.
 - No
- Is this project a public transportation project?
 - Yes
- Is this a NC Department of Transportation (NCDOT) project?
 - Yes
- (NCDOT only) T.I.P. (Transportation Improvement Program) or state project number:
 - Not Applicable (Question not presented)
- (NCDOT only) WBS #
 - Not Applicable (Question not presented)
- Application for NC Division of Water Resources (DWR) Certification.
 Type(s) of approval sought from the DWR? (Select all that apply)
 - 401 Water Quality Certification
- Is this a modification OR new project with existing ID?
 - No
- Please provide the DWR ID number.
 - Not Applicable (Question not presented)

- Is the project located in any of NC's twenty coastal counties?
 - No
- Is the project located within a NC Division of Coastal Management (DCM) Area of Environmental Concern (AEC)?
 - Not Applicable (Question not presented)
- Is the project located in a designated trout watershed? [Learn more about Trout](https://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx)
 - Yes
- If yes, attach a copy of existing correspondence from the Wildlife Resource Commission Office.
 - Buncombe 159 - 2026-06-30 WRC Comments.pdf File(s) Uploaded

WATERS DETAILS -

- Name of nearest waterbody? [Surface Water Lookup](https://experience.arcgis.com/experience/7073e9122ab74588b8c48ded34c3df55/)
 - Reems Creek
- Does the proposed activity impact perennial or intermittent streams?
 - Yes
- Please ensure that the Aquatic Resource Inventory section includes all perennial and intermittent streams and be sure to identify them with appropriate Cowardin codes.
(Click the Aquatic Resources Inventory in the menu on the left to navigate to that section.)

Note: Use the Cowardin Code "R2 or R3" for perennial. Use Cowardin Code "R4" for intermittent.
If no code provided, waters will be assumed to be perennial.
 - Not Applicable (Question not presented)

NON-JD IMPACT DETAILS - NOTE: Questions only appear in this section when 'Non-404 Jurisdictional Waters Permit' has been included among the Type(s) of approval sought from the DWR.

- Will the project result in impacts to Non-404 JD waters?
 - Not Applicable (Question not presented)
- Please ensure that the associated Non-404 Jurisdictional Waters have been entered in the Aquatic Resource Inventory section of the Permit Application. Use the Aquatic Resource Type of "DELIN.NOJD-404".
(Click the "Aquatic Resources Inventory" option in the menu on the left to navigate to that section.)
 - Not Applicable (Question not presented)

BUFFER IMPACTS AND MITIGATION SUMMARY - Additional impacts and mitigation not previously covered in this application: Buffers

- Will project occur in an area subject to state riparian buffer regulations?
 - No
- Will project result in any impacts within a protected riparian buffer?
 - Not Applicable (Question not presented)

- Which protected basin(s) is the project located within?
 - Not Applicable (Question not presented)
- Other Protected Basin
 - Not Applicable (Question not presented)
- Are the buffer regulations implemented by a delegated local government?
 - Not Applicable (Question not presented)
- Please specify which local government.
 - Not Applicable (Question not presented)
- Impact Details
 - Please see the JPA_DynamicTableReport.xlsx to review the provided data.
- Total Temporary Buffer Impacts
 - Not Applicable (Question not presented)
- Total Permanent Buffer Impacts
 - Not Applicable (Question not presented)
- Total Combined Buffer Impacts
 - Not Applicable (Question not presented)
- Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?
 - Not Applicable (Question not presented)
- If yes, you must fill out this entire section - please contact DWR for more information.
 Identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required in the table below.
 - Please see the JPA_DynamicTableReport.xlsx to review the provided data.
- How is buffer mitigation proposed to be met?
 - Not Applicable (Question not presented)
- If payment to mitigation bank or NCDMS, attach a valid statement of availability or DMS acceptance letter. OR Attach mitigation plan for review.
 - Not Applicable (Question not presented)

STORMWATER MANAGEMENT PLAN -

- Does this project disturb >1 acre of land?
 - Yes
- Is this an NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?
 - Yes
- Is this project subject to review and approval under a state post-construction stormwater program (DEMLR) or state-approved local government stormwater program?
 - Not Applicable (Question not presented)

- What entity has reviewed/is reviewing the Stormwater Management Plan?
 - Not Applicable (Question not presented)
- What is the Stormwater Management Plan status?
 - Not Applicable (Question not presented)
- Does this project meet the requirements for low density projects as defined in 15A NCAC 02H.1003(2)? For details on how Low Density Projects are characterized, click the help icon.
 - Not Applicable (Question not presented)
- For low density projects, submit documentation including built-upon area (BUA) delineation, percent BUA calculations, stormwater drainage plan, and designs for vegetated conveyances.
 - Not Applicable (Question not presented)
- For all High Density projects submit a Stormwater Management Plan that includes stormwater control measures for water quality treatment.
 - Not Applicable (Question not presented)

STORMWATER MANAGEMENT IN BUFFERED BASINS - All stormwater generated from high ground within regulated buffer basins must be in compliance with the stormwater management requirements of the applicable buffer rules.

NOTE: Questions only appear in this section when 'Will project occur in an area subject to state riparian buffer regulations?' is answered Yes.

- Does the project comply with the stormwater management requirements of the applicable buffer rules?
 - Not Applicable (Question not presented)
- Please explain why the project does not comply.
 - Not Applicable (Question not presented)

ENVIRONMENTAL DOCUMENTATION -

- Is an environmental document required under NCEPA (01 NCAC 25 .0100)?
 - Yes
- Has the document review been finalized by the State Clearing House?
 - Yes
- Comments
 - Not Applicable (Question not presented)
- Attach a copy of the SEPA final approval document.
 - Buncombe 159 - 2026-03-12 CE.pdf File(s) Uploaded

VIOLATIONS -

- Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)?

- No

- Please explain.

- Not Applicable (Question not presented)

CUMULATIVE IMPACTS -

- Will this project (based on past and reasonably anticipated future impacts) result in additional development?

- No

- Provide a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWR policy. [Learn more about Cumulative Impact Policy](https://files.nc.gov/ncdeq/Water%20Quality/Surface%20Water%20Protection/401/Policies_Guides_Manuals/CumulativeImpactPolicy.pdf)

- Not Applicable (Question not presented)

- If not, provide a short narrative description.

- Repair of a bridge damaged by Hurricane Helene.

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[Additional Instructions](<https://edocs.deq.nc.gov/WaterResources/Browse.aspx?dbid=0&startid=3890140>)

Project Submittal Interim Form

Updated March 16, 2026



*Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.*

Project Type: *

- | | |
|---|---|
| ☐ For the Record Only (Courtesy Copy) | ☒ New Project |
| ☐ Modification/New Project with Existing ID | ☐ More Information Response |
| ☐ Other Agency Comments | ☐ Pre-Application Submittal |
| ☐ Re-Issuance/Renewal Request | ☐ Stream or Buffer Appeal |

*** If this is a GP reissuance/renewal please reference the date of the plans and PCN that were originally verified.**

New Project - Please check the new project type if you are trying to submit a new project that needs an official approval decision.

Pre-Application Submittal – Please check the pre-application submittal if you just want feedback on your submittal and do not have the expectation that your submittal will be considered a complete application requiring a formal decision.

Modification/New Project With An Existing ID - Please check this box if you are submitting for a new phase of an existing project, a modification to an existing project or for any additional impacts to an existing project for an official approval decision.

More Information Response - Please check this type if you are responding to a request for information from staff and you have an ID# and version for this response.

Other Agency Comments - Please check this if you are submitting comments on an existing project.

Re-issuance/Renewal Request – Please check this if you are submitting for a re-issuance/renewal prior to expiration date for the corresponding 401/404. If submitting after the expiration date or if modification needed use Modification/New Project with Existing ID option.

Submittal Type: *

401 Application - Certificate of Coverage

Is buffer approval also required? *

☐ Yes ☒ No

Project Contact Information

Name:

Robert Crowther

Who is submitting the information?

Email Address: *

recrowther@ncdot.gov

Project Information

Project Name: *

NCDOT / Helene Bridge 159 / Reems Creek / Blackberry Inn Road (SR 2115) / Buncombe / Div. 13 /
DF18313.2011262.PR

Is this a public transportation project? *

☒ Yes ☐ No

Is this a DOT project? *

☒ Yes ☐ No

TIP#:

WBS#:

DF18313.2011262.PR

(Applies to DOT projects only)

Project Status

If you selected "Re-Issuance/Renewal Request" or "Modification/New Project with Existing ID" for your project type at the top of this form, please enter the current status of your project.

☒ Pre-let ☐ Under Construction
☐ Utility Relocation Underway ☐ In-Field Adjustment

****Only choose "In-Field Adjustment" if directed to do so by 401 staff****

Is this application for a project associated with emergency response/repairs from Hurricane Helene impacts to your project or property? *

☒ Yes ☐ No

Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

☐ Yes ☒ No ☐ Unknown

Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund, electric generation projects located at an existing or former electric generating facility, or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity? *

☐ Yes ☒ No

Is this project connected with ARPA funding or S.L. 2023-134 (earmark)? *

☐ ARPA ☐ S.L. 2023-134 (earmark) ☒ No

Is this application being filed jointly with another party involved with this project? *

☐ Yes ☒ No

County (ies) *

Buncombe

Please upload all files that need to be submitted.

[Click the upload button or drag and drop files here to attach document](#)

Buncombe 159 - 2026-06-23 Permit Drawings.pdf	2.46MB
Buncombe 159 - 2026-06-30 WRC Comments.pdf	608.81KB
Buncombe 159 - 2026-08-17 Application Cover Letter.pdf	483.82KB
Generated_Crowther_48313_56186_0_Appx_B_Aquatic_Resources.pdf	50.23KB
Generated_Crowther_48313_56186_0_Appx_C_Impacts.pdf	70.23KB
Generated_Crowther_48313_56186_0_Appx_H_Supporting_Files.pdf	50.97KB
Generated_Crowther_48313_56186_0_ENG_6082_PCN.pdf	542.68KB
Generated_Crowther_48313_56186_0_NCDWR 401_JPA_Report.pdf	91.47KB
Generated_Crowther_48313_56186_0_Permit_Additional_Info.pdf	215.78KB
Buncombe 159 - 2025-07-11 Tribal Coordination Letter Distribution.pdf	693.17KB
Buncombe 159 - 2025-07-21 and 2026-07-14 USFWS Concurrence.pdf	639.03KB
Buncombe 159 - 2025-12-17 HAL - No Properties Present.pdf	331.92KB
Buncombe 159 - 2025-12-18 No NRHP or Listed Archaeological Sites Present.pdf	1.79MB
Buncombe 159 - 2026-03-12 CE.pdf	1.42MB

[Only pdf or kmz files are accepted.](#)

Describe the attachments or add comments:

*

☒ By checking the box and signing box below, I certify that:

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, the project proponent, hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I agree that submission of this online form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the online form.

Signature: *



Submittal Date:

Permit Drawings



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.03; Released June 1, 2026)

WBS Element: DF18313.2011262.PR TIP/Proj No: 100159 County(ies): Buncombe Page 1 of 2

General Project Information

WBS Element:	DF18313.2011262.PR	TIP Number:	100159	Project Type:	Bridge Replacement	Date:	6/18/2026
NCDOT Contact:	Joel M. Davis			Contractor / Designer:	DRMP, Inc.		
	Address: Assistant Division Bridge Program Manager 20 Old 74 Asheville, NC 28803				Address: 5808 Faringdon Place Suite 100 Raleigh, NC 27609		
	Phone: (828) 488-0902				Phone: (919) 650-1038		
	Email: jmdavis4@ncdot.gov				Email: rmitchell@drmp.com		
City/Town:	Unincorporated			County(ies):	Buncombe		
River Basin(s):	French Broad			CAMA County?	No		
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	0.07	Surrounding Land Use:	Rural with forested land and a few residential parcels		
Project Built-Up Area (ac.)		0.20 ac.		Existing Site	
Typical Cross Section Description:		Typical Section includes two 9-foot lanes with 2-foot shoulders and a crowned roadway section sloping at 2% from the centerline. Runoff is conveyed by roadside grassed ditches with 4:1 side slopes. The bridge section provides a 20-foot clear roadway with timber bridge rails.		The existing site consists of an approximately 18-foot wide roadway with grass shoulders approaching an existing 21' overall length, 25' wide timber deck bridge supported by I-beams and vertical concrete abutments.	
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	Year:	Existing:	Year:	

General Project Narrative:
(Description of Minimization of Water
Quality Impacts)

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 100159 on SR 2115 (Blackberry Inn Road) over Reems Creek in Buncombe County, east of Weaverville, North Carolina. The project consists of an in-line replacement of the existing bridge utilizing an on-site detour bridge to maintain traffic during construction. Associated roadway, drainage, and stream stabilization improvements are proposed within the project limits, including roadway ditch grading, channel tie-ins, and bank stabilization measures adjacent to the bridge approaches. Riprap stabilization and streambed excavation have been incorporated at drainage outlets, bridge embankments, and disturbed channel areas to minimize erosion and maintain channel stability. Temporary impacts associated with the detour bridge and construction access will be restored to pre-construction contours and stabilized upon completion of construction. NCDOT standards for erosion control, ground cover, vegetation establishment, and slope stabilization will be implemented throughout the duration of the project in accordance with the project Erosion and Sediment Control Plan.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.03; Released June 1, 2026)

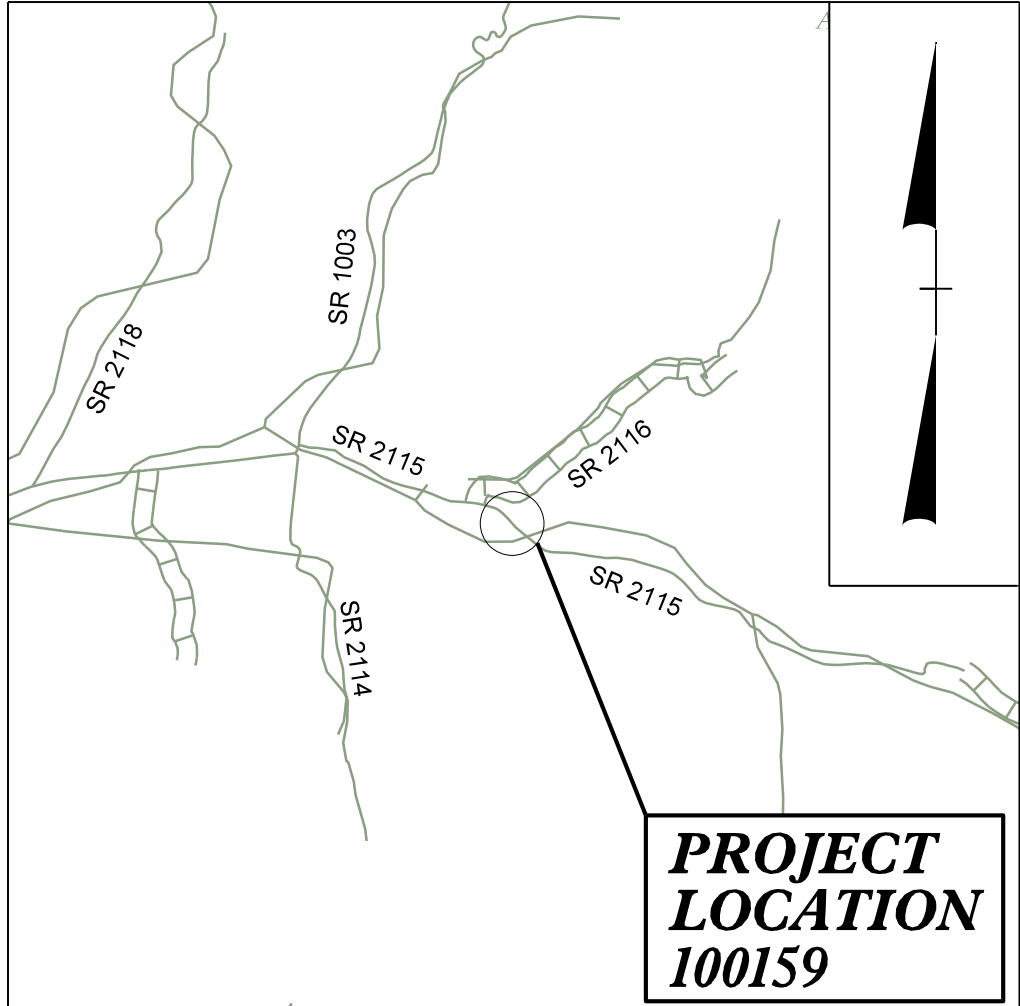
WBS Element: DF18313.2011262.PR TIP/Proj No.: 100159 County(ies): Buncombe Page 2 of 2

General Project Information

Waterbody Information

Surface Water Body (1):	Reems Creek		NCDWR Stream Index No.:	6-87-(1)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		Trout Waters (Tr)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species Habitat?	Yes	Comments: Hellbender, Longsolid, Appalachian Elktoe			
NRTR Stream ID:				Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					
Surface Water Body (2):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species Habitat?		Comments:			
NRTR Stream ID:				Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					
Surface Water Body (3):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species Habitat?		Comments:			
NRTR Stream ID:				Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

PRELIMINARY ROADWAY PLANS
SUBMITTAL NO. S-0002
FEBRUARY 27, 2026

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

LOCATION: *REPLACE BRIDGE NO. 100159 ON
SR 2115 (BLACKBERRY INN ROAD)
OVER REEMS CREEK*

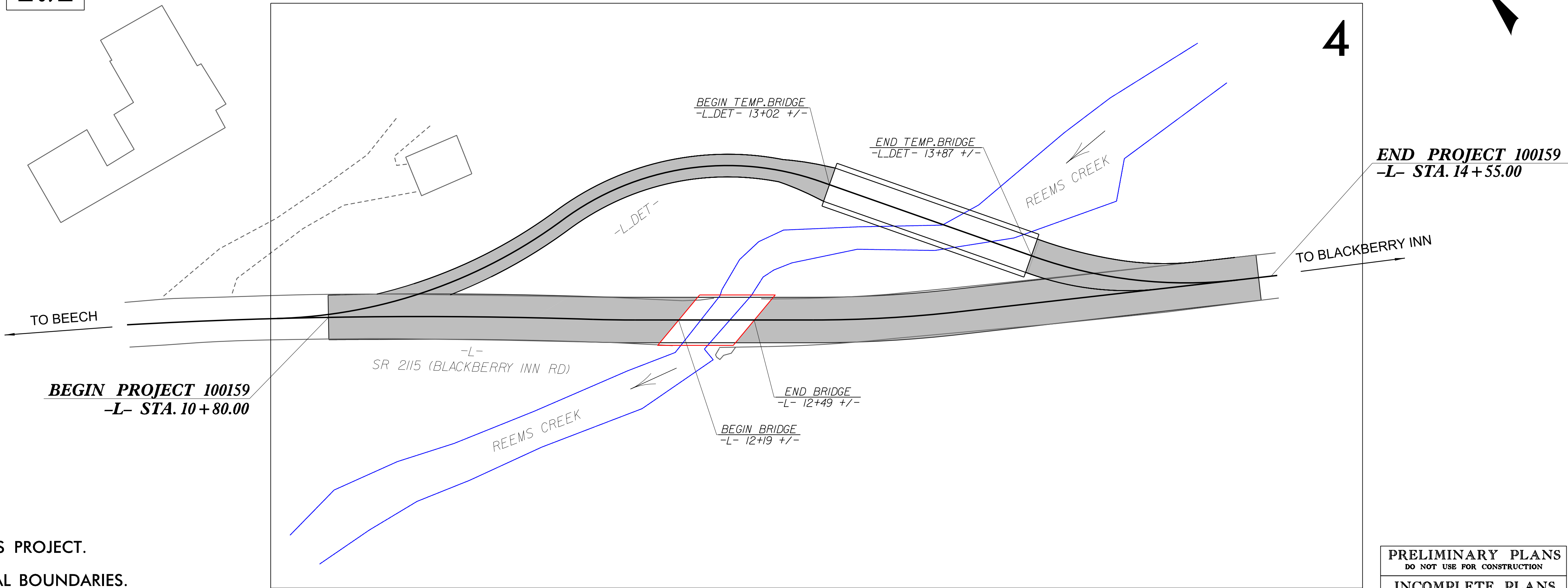
TYPE OF WORK: *GRADING, DRAINAGE, PAVING, STRUCTURE*
JUNE 2026

WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	100159	11	
STATE PROJ. NO.		F. A. PROJ. NO.	DESCRIPTION
DF18313.2011262.PR		HELENE	P.E.

PERMIT DRAWING
SHEET 1 OF 6

NAD 83
NA 2011



END PROJECT 100159
-L- STA. 14+55.00

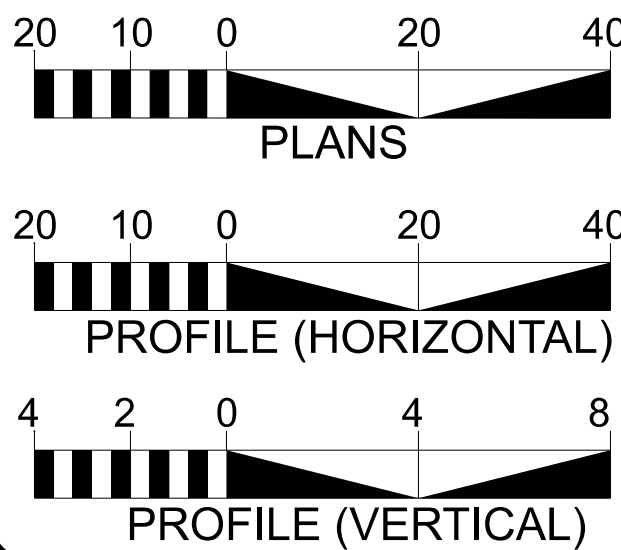
TO BLACKBERRY INN

TO BEECH

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO
THE LIMITS ESTABLISHED BY METHOD II MODIFIED.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 230
ADT = N/A
K = N/A %
D = N/A %
T = N/A % *
V = 40 MPH
* TTST = DUAL
FUNC CLASS = LOCAL
SUB-REGIONAL

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 100159 = 0.065 MILES
LENGTH OF STRUCTURE PROJECT 100159 = 0.006 MILES
TOTAL LENGTH OF PROJECT 100159 = 0.071 MILES

PLANS PREPARED BY:

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

DRMP, INC.
5808 FARINGTON PLACE, SUITE 100
RALEIGH, NORTH CAROLINA 27609
(919) 872-5115
NC LICENSE NO. F-1524

FOR
NCDOT ALTERNATIVE DELIVERY UNIT

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

TIMOTHY A. KLOTZ, PE
PROJECT ENGINEER

COOPER A. BOLZ, EI
PROJECT DESIGN ENGINEER

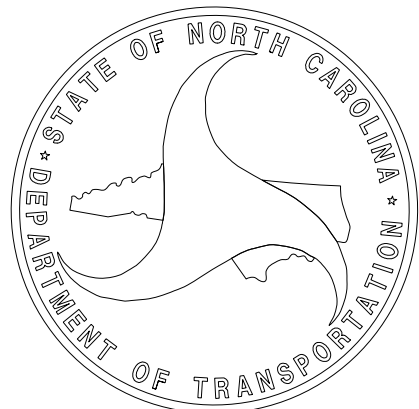
ROB COUSINS, PE
NCDOT PROJECT MANAGER

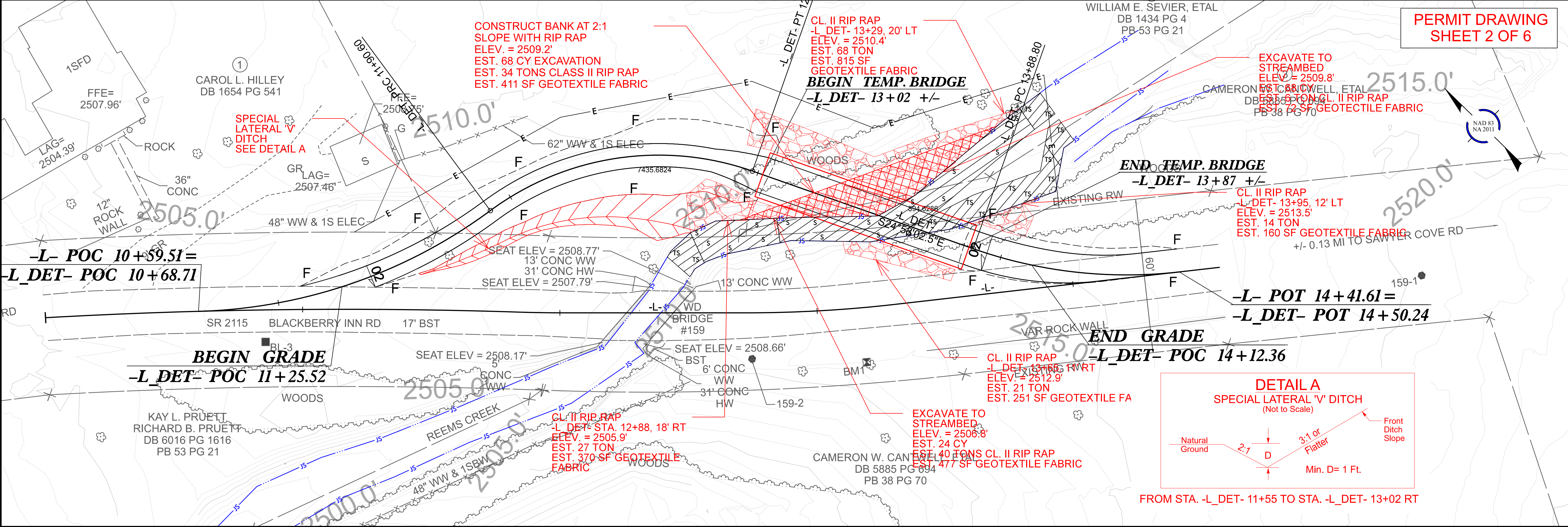
HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.





100159

28-1

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
BUNCOMBE COUNTY

ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER

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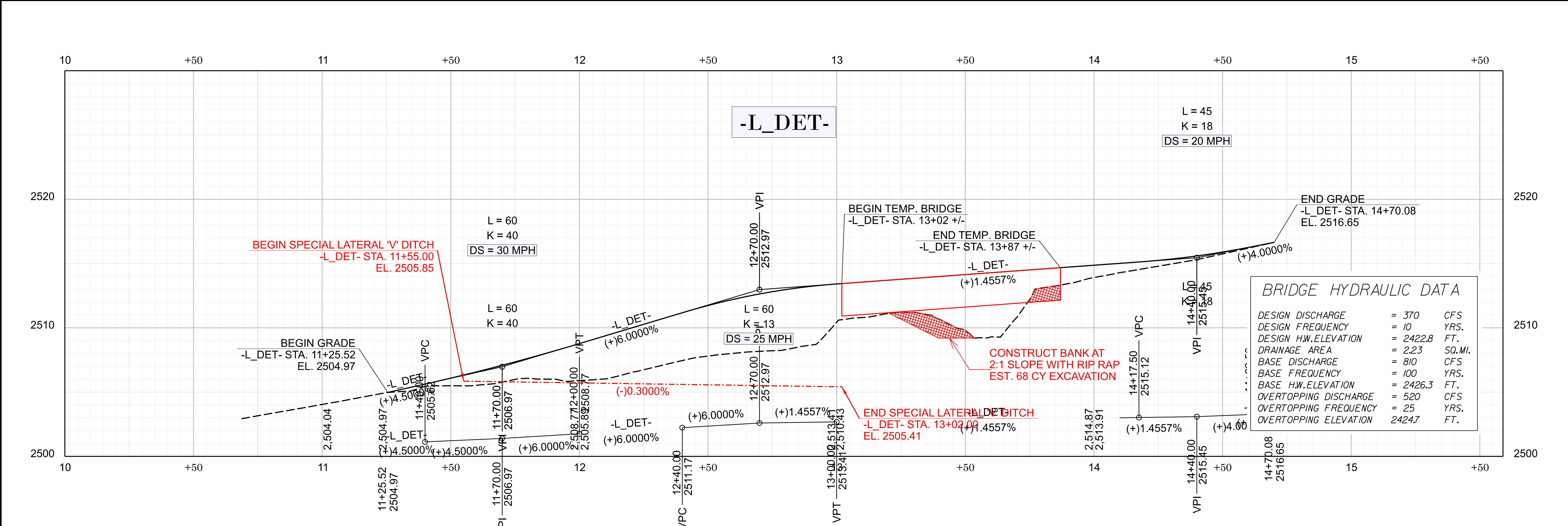
HYDRAULICS
ENGINEER

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PREPARED BY

DRMP

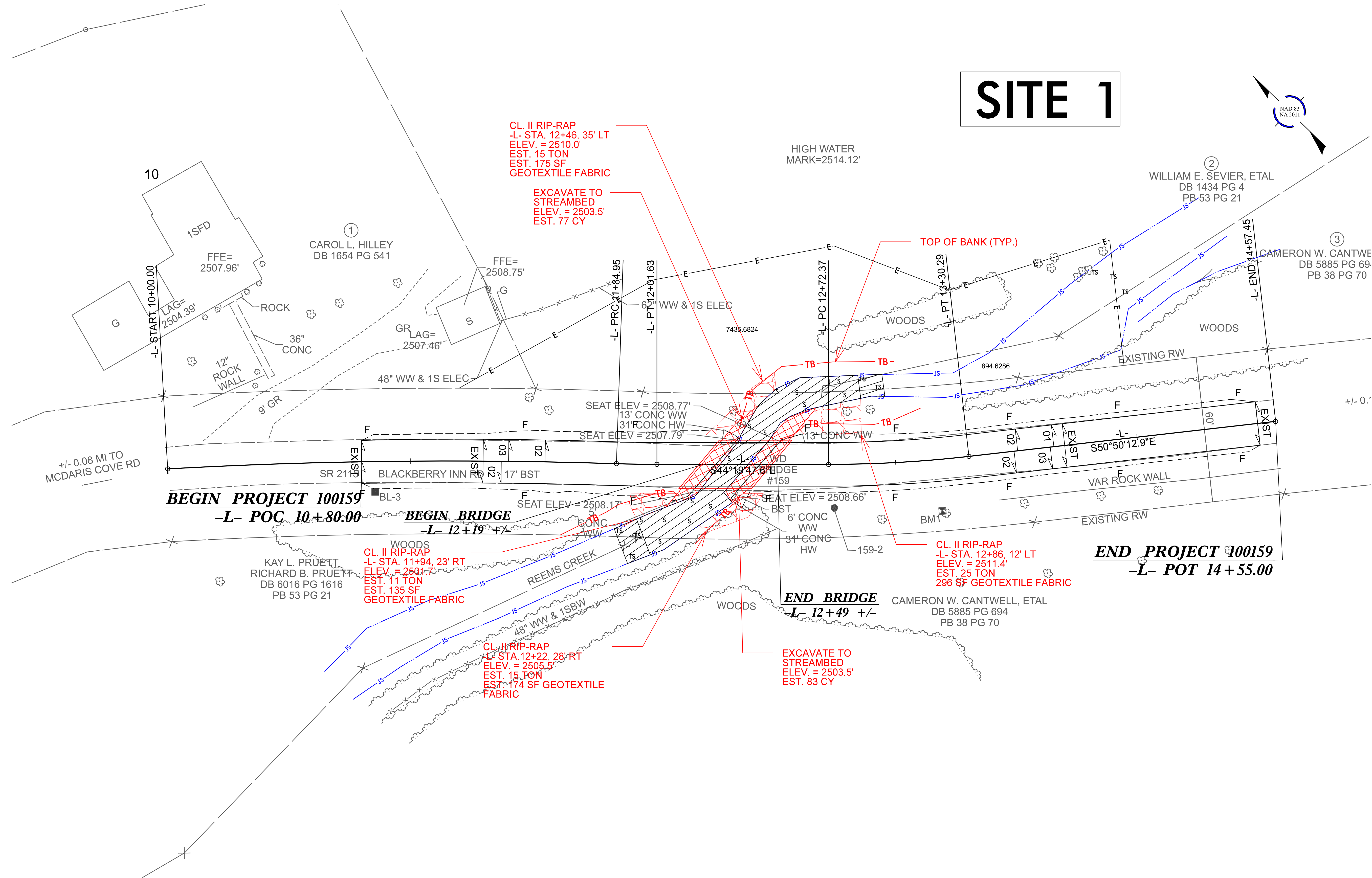
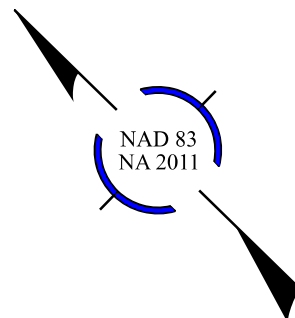
DRMP, INC.
5808 FARMINGTON PLACE
RALEIGH, NC 27609
(919) 872-5153 www.drmp.com
NC LICENSE NO. F-1554



BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 370	CFS
DESIGN FREQUENCY	= 10	YRS.
DESIGN H.W. ELEVATION	= 2422.8	FT.
DRAINAGE AREA	= 2.23	SQ. MI.
BASE DISCHARGE	= 810	CFS
BASE FREQUENCY	= 100	YRS.
BASE H.W. ELEVATION	= 2426.3	FT.
OVERTOPPING DISCHARGE	= 520	CFS
OVERTOPPING FREQUENCY	= 25	YRS.
OVERTOPPING ELEVATION	= 2424.7	FT.

REVISIONS

SITE 1



FOR -L- PROFILE, SEE SHEET 5

SITE 1

HIGH WATER
MARK=2514.12'

TOP OF BANK (TYP.)

WILLIAM E. SEVIER, ETAL
DB 1434 PG 4
PB 53 PG 21

CAMERON W. CANTWELL, ETAL
DB 5885 PG 69
PB 38 PG 70

CAMERON W. CANTWELL, ETAL
DB 5885 PG 69
PB 38 PG 70

END PROJECT 100159
-L- POT 14+55.00

END BRIDGE
-L- 12+49 +/-

BEGIN BRIDGE
-L- 12+19 +/-

BEGIN PROJECT 100159
-L- POC 10+80.00

CL. II RIP-RAP
-L- STA. 12+46, 35' LT
ELEV. = 2510.0'
EST. 15 TON
EST. 175 SF
GEOTEXTILE FABRIC

EXCAVATE TO
STREAMBED
ELEV. = 2503.5'
EST. 77 CY

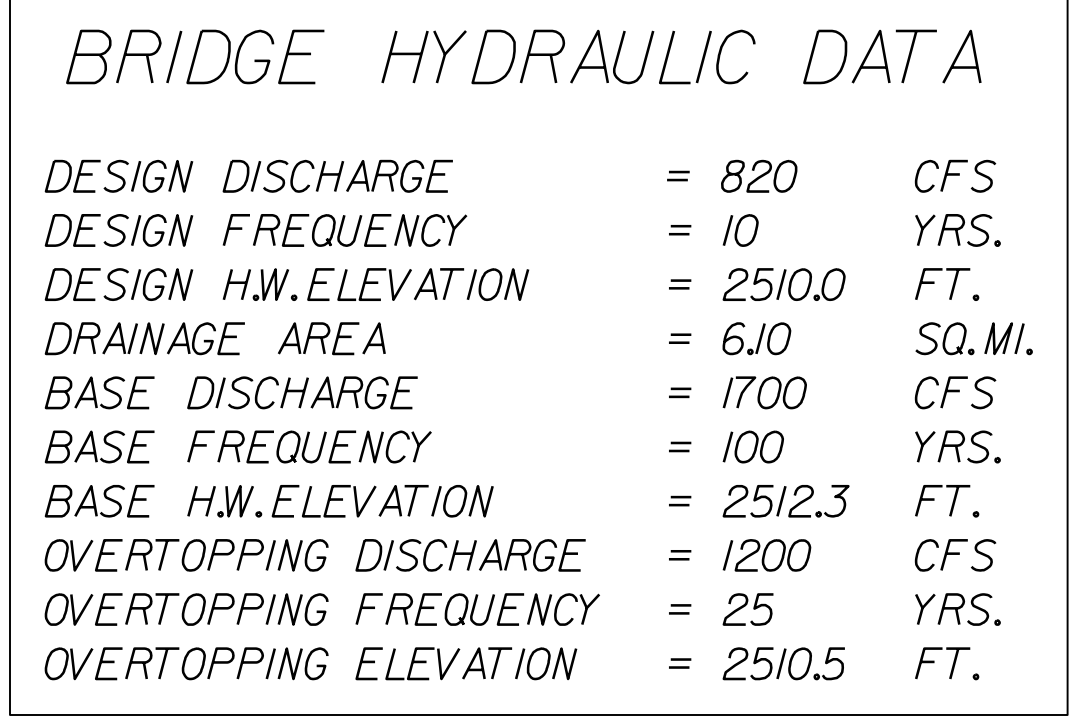
CL. II RIP-RAP
-L- STA. 12+86, 12' LT
ELEV. = 2511.4'
EST. 25 TON
EST. 296 SF
GEOTEXTILE FABRIC

EXCAVATE TO
STREAMBED
ELEV. = 2503.5'
EST. 83 CY

CL. II RIP-RAP
-L- STA. 11+94, 23' RT
ELEV. = 2501.7'
EST. 11 TON
EST. 135 SF
GEOTEXTILE FABRIC

CL. II RIP-RAP
-L- STA. 12+22, 28' RT
ELEV. = 2505.5'
EST. 15 TON
EST. 174 SF
GEOTEXTILE FABRIC

FOR -L- PROFILE, SEE SHEET 5



BM-1	ELEV. 2512.86'
N=730887.6359'	E=972805.0822'
-BL- STA. 3+17.65	21.71' RT
-L- STA. 13+17.54	21.24' RT
RR SPIKE IN 20" POPLAR	

-L- STATION= 12+34.00
G.P. ELEVATION= 2510.96
SKEW= 140 DEGREES
TIMBER BRIDGE w/ 30ft 14' I-Beams
w/ Concrete Abutments

100159	
	5
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION BUNCOMBE COUNTY	
	
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CONCLUSION

FOR -L- PLAN, SEE SHEET 4

WETLAND AND SURFACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 11+87.49/11+96.35	Downstream of Bridge							< 0.01		10	
1A	-L-11+96.35/12+86.08	Bank Stabilization/Bridge						0.03		113		
1B	-L- 12+86.08/12+96.61	Upstream of Bridge							< 0.01		10	
1C	DET 12+75.54/12+83.64	Downstream of Detour Bridge							< 0.01		10	
1D	DET 12+83.64/14+01.68	Bank Stabilization/ Detour Bridge						0.03		143	70	
1E	DET 14+01.68/14+10.97	Upstream of Detour Bridge							< 0.01		10	
TOTALS*:								0.06	0.01	256	110	0

NOTES:

SHEET 6 OF 6

ESA Consultation

Turchy, Michael A

From: Knepp, Cheryl L
Sent: Monday, July 27, 2026 11:23 AM
To: Turchy, Michael A; Crowther V., Robert E
Subject: Hurricane Helene project updates

From: Endries, Mark mark_endries@fws.gov
Sent: Tuesday, July 14, 2026 12:52 PM
To: Knepp, Cheryl L clknepp@ncdot.gov
Cc: Stanton, Tyler P tpstanton@ncdot.gov
Subject: Re: [EXTERNAL] Hurricane Helene project updates

Hello Everyone,

We have received your July 9, 2026, request to reinitiate consultation for five ongoing projects (25-144, 249, 258, 25-257, and 262) related to Tropical Storm Helene. These projects were previously addressed through the Helene batch consultation process but have not yet been completed.

Reinitiation is requested to address changes in the take prohibitions for the following species and projects:

- Northern long-eared bat, and tricolored bat - Projects 25-144, 249, and 258.
- Northern long-eared bat - Projects 25-257 and 262.

The reinitiation addresses changes to project plans, which now include minimal tree clearing (0.1 acres per project) with no ability to determine time of year for this tree clearing. This activity was not part of the original analysis for these particular projects and creates the potential for incidental take for the northern long-eared bat and tricolored bat.

After reviewing the revised action, the Service concludes that it is not likely to jeopardize the continued existence of these species. All provisions from the original biological opinions for each project now apply to the revised project activities. These provisions include the effects analyses, incidental take statements, terms and conditions, reasonable and prudent measures, and conservation measures, including contributions determined by the amount and season of tree clearing.

Sincerely,

Mark

Mark Endries

USFWS
160 Zillicoa St
Asheville, NC 28801
Office & Mobile: 828.373.4504
Mobile Only: 828.215.1740

[Chat](#)

From: Endries, Mark <mark_endries@fws.gov>
Sent: Friday, July 10, 2026 10:00 AM
To: Knepp, Cheryl L <clknepp@ncdot.gov>
Cc: Stanton, Tyler P <tpstanton@ncdot.gov>
Subject: Re: [EXTERNAL] Hurricane Helene project updates

Hello All,

Received. I should be able to get this to you next week.

Thanks!

Mark

Mark Endries

USFWS
160 Zillicoa St
Asheville, NC 28801
Office & Mobile: 828.373.4504
Mobile Only: 828.215.1740
[Chat](#)

From: Knepp, Cheryl L <clknepp@ncdot.gov>
Sent: Thursday, July 9, 2026 12:13 PM
To: Endries, Mark <mark_endries@fws.gov>
Cc: Stanton, Tyler P <tpstanton@ncdot.gov>
Subject: [EXTERNAL] Hurricane Helene project updates

Mark, we have several projects that went through the Helene batch process where previously they were determined to be No Effect based on early tree clearing estimates = 0 ac, however, plans now include minimal tree clearing. Can you please revise the below mentioned Helene batches and update these projects to MALAA using the updated biological rationale information. For ease, I would have run them through the PBO, but Buncombe 100199 and Henderson 440245 have acoustic buffers associated with them. Until we can get that issue resolved, we are not using the PBO if projects have acoustic records associated with their buffers. So, for consistency with the Helene process, we will individually consult for all of these. I will be leaving for vacation so I'm cc'ing Tyler and if you all decide a different path in the coming weeks for these, just cc me for my records.

Thank you,
Cheryl

TIP	County and Bridge No	Batch	USFWS Log Nos.	USFWS Date	Remarks	Original biological rationale and determination	Updated biological rationale and determination
DF18313.2011262.PR	Buncombe 100159	D 13, Batch 3	25-258	7/21/2025	Currently developing permit application	Terrestrial: wooden bridge contains no habitat for listed bat species. No tree clearing. This project is not expected to result in adverse effects. No Effect . Aquatics: For mussels USFWS IPaC review on 06/12/2025 revealed no aquatic species in the project area. No Effect based on this review. Per phone conversation on 1/29/2025 with USFWS there are no needed actions for the proposed Eastern Hellbender at this time.	Terrestrial: wooden bridge contains no habitat for listed bat species. However, minimal suitable tree clearing (0.1 ac) and unable to determine tree clearing TOY for bats, LAA. Bat CM - Tree Clearing Bat Fund. Aquatics: no change
DF18313.2011267.PR	Buncombe 100199	D 13, Batch 3	25-249	7/21/2025	Currently developing	Terrestrial: wooden bridge contains no habitat	Terrestrial: wooden bridge contains no

					permit application	for listed bat species. No tree clearing. This project is not expected to result in adverse effects. No Effect Aquatics: For mussels USFWS IPaC review on 06/12/2025 revealed no aquatic species in the project area. No Effect based on this review. Per phone conversation on 1/29/2025 with USFWS there are no needed actions for the proposed Eastern Hellbender at this time.	habitat for listed bat species. However, minimal suitable tree clearing (0.1 ac) and unable to determine tree clearing TOY for bats, LAA. Bat CM - Tree Clearing Bat Fund. Aquatics: no change
DF18314.2045335	Henderson 440245	D 14, Batch 1	25-144	5/13/2025		Terrestrial: Three temporary CMPs <60' in length do not provide habitat for bats. No evidence of bat use observed on 12/13/2024. No Effect. Aquatics: No mussels listed. No effect. Per phone conversation on 1/29/2025 with USFWS there are no needed actions for the proposed Eastern Hellbender at this time.	Terrestrial: pipe contains no habitat for listed bat species. However, minimal suitable tree clearing (0.1 ac) and unable to determine tree clearing TOY for bats, LAA. Bat CM - Tree Clearing Bat Fund. Aquatics: no change
DF18313.2061559.PR	Mitchell 600156	D 13, Batch 3	25-262	7/21/2025		Terrestrial: wooden bridge contains no habitat for listed bat species. No tree clearing. This project is not	Terrestrial: wooden bridge contains no habitat for listed bat species. However, minimal suitable tree

					expected to result in adverse effects. No Effect. Aquatics: For mussels USFWS IPaC review on 06/12/2025 revealed no aquatic species in the project area. No Effect based on this review. Per phone conversation on 1/29/2025 with USFWS there are no needed actions for the proposed Eastern Hellbender at this time.	clearing (0.1 ac) and unable to determine tree clearing TOY for bats, LAA. Bat CM - Tree Clearing Bat Fund. Aquatics: no change
18313.1100052.PR	Yancey 990188	D 13, Batch 3	25-257	7/21/2025	Terrestrial: wooden bridge contains no habitat for listed bat species. No tree clearing. This project is not expected to result in adverse effects. No Effect. Aquatics: For mussels USFWS IPaC review on 06/12/2025 revealed no aquatic species in the project area. No Effect based on this review. Per phone conversation on 1/29/2025 with USFWS there are no needed actions for the proposed Eastern Hellbender at this time.	Terrestrial: wooden bridge contains no habitat for listed bat species. However, minimal suitable tree clearing (0.1 ac) and unable to determine tree clearing TOY for bats, LAA. Bat CM - Tree Clearing Bat Fund. Aquatics: no change

From: Knepp, Cheryl L clknepp@ncdot.gov
Sent: Thursday, July 9, 2026 3:58 PM
To: Turchy, Michael A maturchy@ncdot.gov
Cc: Crowther V., Robert E recrowther@ncdot.gov
Subject: RE: Helene No Effects to LAA?

FYI, I sent the projects off to USFWS, I ended up not utilizing the PBO since a couple were in excluded areas. So, I just asked USFWS to use the same Log no as before and individually consult. Tyler was cc'd in case you have questions.

Thank you,
Cheryl

Biological and Conference Opinions and Informal Consultations – Batch Format

**Replace Multiple Crossing Structures Destroyed by Tropical Storm Helene in
Buncombe, McDowell, Mitchell, Rutherford, and Yancey Counties, North Carolina**

Service Log #25-249 through 25-263



Prepared by:

U.S. Fish and Wildlife Service
Asheville Ecological Services Office
160 Zillicoa Street
Asheville, North Carolina 28801

GARY PEEPLES

Digitally signed by GARY
PEEPLES

Date: 2025.07.21 11:40:46 -04'00'

Gary Peeples
Acting Field Supervisor
Asheville Ecological Services Field Office
Asheville, North Carolina

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Consultation History

- **December 2, 2024:** Discussion between U.S. Fish and Wildlife Service (Service) and North Carolina Department of Transportation (NCDOT) regarding consultation batching processes and applicable avoidance and minimization and conservations measures for projects related to Tropical Storm (TS) Helene damage.
- **December 3-6, 2024:** Email correspondence between the Service and NCDOT discussing aspects of batching process and need for a virtual discussion.
- **December 11, 2024:** Virtual meeting between NCDOT and the Service to discuss batching process and avoidance and minimization and conservations measures.
- **December 30-31, 2024:** Service asked NCDOT questions about project impact estimates and NCDOT provided responses.
- **January 2, 2025:** Phone discussion between NCDOT and the Service regarding aquatic impact area estimates.
- **January 7, 2025:** NCDOT provided needed information on aquatic impact area estimates.
- **June 20, 2025:** NCDOT submitted batched request for informal and formal consultation to the Service.

Background

On September 27, 2024, TS Helene moved across a large swath of Western North Carolina (WNC). Extreme rainfall and high winds resulted in catastrophic damage across much of the region. Record flooding occurred in several watersheds, destroying thousands of transportation sites as well as homes and entire communities. Widespread landslides and tree fall contributed to the damage. In the wake of this disastrous event, the North Carolina Department of Transportation (NCDOT) is tasked with responding to, repairing, and [to the extent possible] replacing the transportation infrastructure destroyed by TS Helene. The following informal and formal consultations are presented in batched format to streamline and expedite review of numerous similar projects. The format utilized in this consultation is intended for TS Helene-related projects and is tailored to the unique challenges and constraints precipitated by this event. Biological determinations presented below are based on the best available scientific data at the time of this document and incorporate the expertise of WNC's Service and partner resource agency biologists.

Projects

The table below represents the projects reviewed in this batch of TS Helene-related projects. Work will involve the replacement of damaged or wholly destroyed crossing structures, which may include minimal tree clearing, grading, demolition, and in-water construction. Construction of most of the structures will likely begin in 2025. All construction should be completed by late 2026, though the exact schedule depends on many different factors. Additional description of the project-associated activities is provided in Section 2 of this document.

Table 1. Batched Consultation Projects – Crossing Structures

Structure Number	Waterbody	County	Location	Status	Service Log No.
------------------	-----------	--------	----------	--------	-----------------

100199	Beetree Creek	Buncombe	35.6359, -82.3996	Partial damage to structure includes gap at approach and end bent 1. Left wooden guardrail damage.	25-249
100236	Reems Creek	Buncombe	35.6944, -82.4992	Partial damage to structure includes damage to west approach.	25-250
100449	Sugar Creek	Buncombe	35.6701, -82.7928	Partial damage to structure includes erosion and undermining up to 3' under roadway at barrel 1 on right side.	25-251
100463	Broad River	Buncombe	35.5639, -82.2712	Partial damage to structure includes failure of north bridge rail.	25-252
580382	Clear Creek	McDowell	35.6904, -82.0846		25-253
600050	Right Fork Cane Creek	Mitchell	36.0170, -82.0856	Partial damage to structures includes headwall failure, southeast approach roadway washed out encroaching on roadway, downstream bank severely washed out, failed guardrail, severe drift accumulation on inlet side.	25-254
800573	Cedar Creek	Rutherford	35.5257, -82.1693	Partial damage to structures includes moderate drift, bank erosion and compromised between sections 2/3.	25-255
990179	George Fork	Yancey	35.9065, -82.2573	Partial damage to structures includes scour at outlet full width below barrel 1, apron broken and settled.	25-256
990188	Jacks Creek	Yancey	35.9938, -82.2893	Partial damage to structure includes massive debris buildup west side of bridge blocking flow, asphalt wearing surface failed, northeast corner scour hole undermining roadway and behind abutment 2 backwall, abutment 2 crutch bent sill at northeast end, undermined.	25-257
100159	Reems Creek	Buncombe	35.7092, -82.461		25-258
100846	Rocky Broad River	Buncombe	35.5692, -82.2954	Partial damage to structures includes roadway collapsed along right side and settling over barrels	25-259
800572	Taylor Creek	Rutherford	35.5102, -82.1720	Bridge collapsed but spans remain in stream	25-260
600087	Big Rock Creek	Mitchell	36.1158, -82.1869	Partial damage to structure includes end bent 1 abutment missing/broken sections with 2 beams completely undermined, erosion at southeast corner, roadway washed out.	25-261

600156	Beans Creek	Mitchell	36.0803, -82.2253		25-262
100149	Walker Branch	Buncombe	35.7550, -82.3858	Partial damage to structure includes undermining of end bent	25-263

Informal Consultation

The NCDOT assessed each project location addressed in this document for the presence of suitable habitat for listed species and for the potential effects of project work on listed species with suitable habitat present. The following table outlines the project locations and associated “No Effect” (NE) determinations. For this batch of projects there was no “May Affect, Not Likely to Adversely Affect” (NLAA) determinations for any species.

Table 2. Species NE Determinations

Structure Number	Waterbody	Service Log No.	NE and NLAA Species
100199	Beetree Creek	25-249	NE: Gray bat (<i>Myotis grisescens</i>), northern long-eared bat (<i>Myotis septentrionalis</i>), tricolored bat (<i>Perimyotis subflavus</i>), Rock gnome lichen (<i>Gymnoderma lineare</i>). Rationale: For bats, absence of roosting habitat and no tree clearing. For plants, absence of suitable habitat.
100463	Broad River	25-252	NE: rock gnome lichen, white irisette (<i>Sisyrinchium dichotomum</i>). Rationale: Absence of suitable habitat.
580382	Clear Creek	25-253	NE: Gray bat (<i>Myotis grisescens</i>), small whorled pogonia (<i>Isotria medeoloides</i>). Rationale: For bats, structure does not meet habitat requirements for listed bats, available trees do not provide roosting habitat. For plants, absence of suitable habitat.
600050	Right Fork Cane Creek	25-254	NE: Virginia spiraea (<i>Spiraea virginiana</i>), rock gnome lichen. Rationale: Absence of suitable habitat.
800573	Cedar Creek	25-255	NE: Dwarf-flowered heartleaf (<i>Hexastylis naniflora</i>), small whorled pogonia, white Irisette. Rationale: Absence of suitable habitat.
990179	George Fork	25-256	NE: small whorled pogonia, Virginia spiraea. Rationale: Absence of suitable habitat.
990188	Jacks Creek	25-257	NE: Gray bat, northern long-eared bat, small whorled pogonia, Virginia spiraea. Rationale: For bats, absence of roosting habitat and no tree clearing. For plants, absence of suitable habitat.
100159	Reems Creek	25-258	NE: Gray bat, northern long-eared bat, tricolored bat. Rationale: Absence of roosting habitat and no tree clearing.

100846	Rocky Broad River	25-259	NE: white Irisette, rock gnome lichen. Rationale: Absence of suitable habitat.
800572	Taylor Creek	25-260	NE: Dwarf-flowered heartleaf, small whorled pogonia, white Irisette. Rationale: Absence of suitable habitat.
600087	Big Rock Creek	25-261	NE: Virginia spiraea, rock gnome lichen. Rationale: Absence of suitable habitat.
600156	Beans Creek	25-262	NE: Gray bat, northern long-eared bat, Virginia spiraea. Rationale: For bats, absence of roosting habitat and no tree clearing. For plants, absence of suitable habitat.
100149	Walker Branch	25-263	NE: rock gnome lichen. Rationale: Absence of suitable habitat.

In instances where suitable habitat is absent from the action area, or where project actions would not result in impacts to suitable habitat within the action area, we agree that NE determinations are appropriate.

We believe the requirements under section 7 of the Endangered Species Act are fulfilled for the species addressed above in relation to the designated projects. However, obligations under section 7 of the ESA must be reconsidered if: (1) new information reveals impacts of this proposed action that may affect listed species or critical habitat in a manner not previously considered, (2) this proposed action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the proposed action.

A species proposed for listing under the ESA is one that the Service or the National Marine Fisheries Service has determined, based on the best available scientific and commercial data, may warrant listing as either endangered or threatened. This proposal is a formal step in the process of providing federal protection to species facing potential extinction across all or a significant portion of their range. Species proposed for listing are not afforded protection under the ESA; however, as soon as a listing becomes effective, the protections set forth in the ESA will apply.

On December 13, 2024, eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*) was proposed for listing as endangered under the ESA. Information provided by NCDOT after the originally submitted consultation request for the subject projects indicates that NCDOT has chosen not to conference on eastern hellbender but will consider the species and coordinate with partner resource agencies as project actions move forward.

Biological Opinion and Conference Opinion

1. Introduction

A biological opinion is the document that states the opinion of the Service in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (ESA), as to whether a Federal action is likely to jeopardize the continued existence of species listed as endangered or threatened; or result in the destruction or adverse modification of designated critical habitat. A conference opinion is equivalent to a biological opinion but addresses species that are not yet listed under the ESA and/or proposed critical habitats not yet designated. Therefore, the ESA prohibitions against jeopardy, adverse modification, and taking do not yet apply. The Service may adopt a conference opinion as a biological

opinion if the evaluated species/critical habitat are eventually listed/designated and while the action agency maintains discretion and involvement in the action.

This document transmits the Service’s biological and conference opinions (Opinion) and is based on our review of the proposal to replace several crossing structures (Table 1) and the effects on the federally endangered gray bat (*Myotis grisescens*), Indiana bat (*Myotis sodalis*), and northern long-eared bat (*Myotis septentrionalis*), and federally proposed endangered tricolored bat (*Perimyotis subflavus*). This Opinion is based on information provided in the assessment submitted to the Service by the NCDOT, field investigations, correspondence between NCDOT and the Service, communications with experts on the affected species, and other sources of information as cited. The Federal Highway Administration is the lead Federal action agency for these projects, with consultation authority delegated to the NCDOT.

2. Proposed Action

As defined in the Service’s section 7 regulations (50 CFR 402.02), "action" means “all activities or programs of any kind authorized, funded, or carried out, in whole or in part, by Federal agencies in the United States or upon the high seas.” The “action area” is defined as “all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action.” The direct and indirect effects of the actions and activities must be considered in conjunction with the effects of other past and present Federal, state, or private activities, as well as the cumulative effects of reasonably certain future state or private activities within the action areas.

2.1 Action Areas

The project action areas are all areas of construction and include any portions of the project waterbodies, as indicated in Table 3, that may be affected by direct or indirect effects. The action areas are comprised of the:

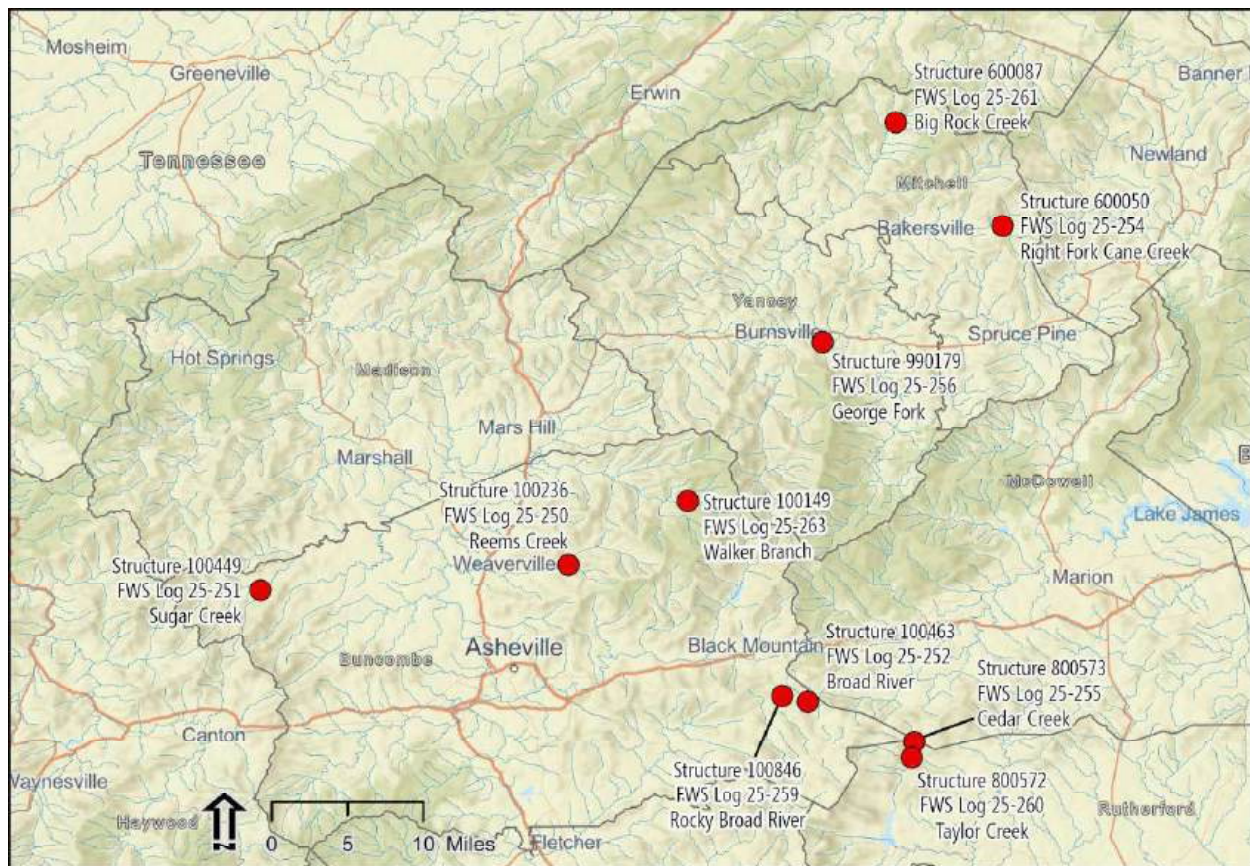
- 1.) Project construction limits including all project related work such as tree-clearing and grading.
- 2.) Limits of sedimentation effect, anticipated to extend 100 meters (m) (328 feet (ft)) upstream from each bridge and 400 m (1,314 ft) downstream from each crossing structure in each respective river.

Table 3. Projects that are Likely to Adversely Affect (LAA) Listed Species

Structure Number	Waterbody	County	Location	Service Log No.	Taxa Determination
100236	Reems Creek	Buncombe	35.6944, -82.4992	25-250	Plants: NE Bats: LAA Aquatics: NE
100449	Sugar Creek	Buncombe	35.6701, -82.7928	25-251	Plants: NE Bats: LAA Aquatics: NE
100463	Broad River	Buncombe	35.5639, -82.2712	25-252	Plants: NE Bats: LAA Aquatics: NE

600050	Right Fork Cane Creek	Mitchell	36.0170, -82.0856	25-254	Plants: NE Bats: LAA Aquatics: NE
800573	Cedar Creek	Rutherford	35.5257, -82.1693	25-255	Plants: NE Bats: LAA Aquatics: NE
990179	George Fork	Yancey	35.9065, -82.2573	25-256	Plants: NE Bats: LAA Aquatics: NE
100846	Rocky Broad River	Buncombe	35.5692, -82.2954	25-259	Plants: NE Bats: LAA Aquatics: NE
800572	Taylor Creek	Rutherford	35.5102, -82.1720	25-260	Plants: NE Bats: LAA Aquatics: NE
600087	Big Rock Creek	Mitchell	36.1158, -82.1869	25-261	Plants: NE Bats: LAA Aquatics: NE
100149	Walker Branch	Buncombe	35.7550, -82.3858	25-263	Plants: NE Bats: LAA Aquatics: NE

Figure 1. Projects that are Likely to Adversely Affect (LAA) Listed Species



2.2 Project Description

The widespread infrastructure failure of numerous NCDOT bridges and roadways due to TS Helene necessitates an expedited design build repair/replacement process and batched consultation response. Consequently, specific details regarding the proposed project designs in Table 1 and associated action area impact details are not yet finalized. However, project activities and estimated impacts, based on the established practices of NCDOT's crossing structure replacement work, are available. At the time of this consultation, it is anticipated that most replacement bridges will be constructed using concrete box beam or cored slab designs. The general and expected elements of these crossing structure replacement projects are described below. The current estimated timeline for completion of these projects is late fall of 2026.

In-water impacts

Considering the range in structure and waterbody sizes analyzed in this review, and basing amounts on past similarly-sized structure and waterbody NCDOT crossing structure projects in WNC, the estimate of combined temporary and permanent in-water impacts for these projects range from 0.01 – 0.35 acres (or 4,356 – 15,246 square feet) per structure. Some structure replacements will fall in the lower portion of that range of in-water impacts while some will fall in the higher range. These impacts may be in the form of work pad causeways, bent removal and/or placement, and placement of stream-bank stabilization materials.

Tree Clearing, Access Roads, and Demolition

The maximum estimate for tree clearing per structure replacement location is 0.10 acre. That amount will likely be less at most locations, given the variability in site conditions and the extreme scour (and resulting loss of riparian vegetation) during TS Helene flooding. The season during which clearing will occur is not known for each location but is assumed to occur during any time of year, including summer months. Clearing and grading will occur to allow for access roads and general construction functionality.

Where damaged structures or portions of damaged structures remain in place, demolition will occur. The details of demolition activities and seasonality of demolition will vary by project, with an assumption that these activities will occur during any time of year, including summer months.

2.3 Avoidance and Minimization and Conservation Measures

NCDOT will employ the following agency standards, guidelines, and best practices to avoid and minimize project-mediated activities that could negatively impact listed/proposed species or their habitat.

2.3.1 Avoidance and minimization measures (AMMs)

General (regardless of species): The following General AMMs will be implemented on all projects to minimize impacts to listed/proposed species and habitat:

- General AMM1 -NCDOT will ensure all operators, employees, and contractors working in areas of suitable habitat for federally listed/proposed species are aware of all NCDOT environmental commitments, including all applicable AMMs and all associated NCDOT guidance documents.
- General AMM2 - Best management practices (BMP) and sediment and erosion control (SEC) measures will be utilized to prevent non-point source pollution, control storm water runoff, and minimize sediment damage to avoid and reduce overall water quality degradation.
- General AMM3 - Areas of disturbance, such as tree clearing, grubbing, and grading, will be limited to the maximum extent possible.

Bats - General AMMs will minimize impacts to listed/proposed bats. **To the maximum extent possible**, the following AMMs will also be incorporated into project work – though implementation of all bat AMMs below cannot be guaranteed at the time of this consultation, given the scale, scope, and timeline constraints addressed previously:

- Bat AMM Noise - Percussive activities will occur only after the tree clearing within the action area has been completed, helping to reduce the exposure of any tree-roosting bats within the action area to high decibel noise.
- Bat AMM Lighting - No new permanent lighting will be added to the action area. Any lighting needed for night work will be directed at the work area and shielded from surrounding waters/landscape, only on when needed, no brighter than necessary, and blue light emissions will be limited.
- Bat AMM Riparian Planting – Disturbed riparian areas will be replanted with native, fast-growing tree and shrub species where feasible, with the understanding that plantings likely cannot be done in utility/drainage/construction easements.

Aquatics- General AMMs will minimize impacts to the aquatic environment. **To the maximum extent possible**, the following AMMs will be incorporated into project work, though implementation of all aquatic AMMs below cannot be guaranteed at the time of this consultation, given the scale, scope, and timeline constraints addressed previously:

- Aquatic AMM Structure – Structure will be built in the same location as the previous structure, with minimal impact [bents] to water resource, built to today's improved highway and hydraulic standards.
- Aquatic AMM Equipment – Heavy machinery will not be utilized within the waterbody. Additionally, staging and storage areas for equipment and materials will be managed in such a way to ensure that potential spills and leaks do not have access to the waterbody.
- Aquatic AMM Temporary and Permanent Fill – Any temporary fill (i.e. causeways) or permanent (i.e. bents/piers) fill in excess of what was previously present will be avoided and minimized to the maximum extent possible.
- Aquatic AMM Abutments - Existing abutments will be completely removed unless removal results in destabilizing of banks or increases the adverse effect to listed/proposed aquatic species.
- Aquatic AMM Deck Drains – Deck drains that empty directly to the waterbody below will not be implemented on new bridge designs. Surface water drainage transport will be designed to incorporate improved treatment prior to drainage entering the waterbody.
- Aquatic AMM Erosion Control Matting – Coir fiber matting will be utilized instead of plastic or other synthetic matting.

2.3.2 Conservation Measures (CMs)

CMs represent actions, pledged in the project description, that the action agency will implement to further the recovery of the species under review. The beneficial effects of CMs are considered in making determinations of whether the projects will jeopardize the species under consideration in this document.

Bat CM - Tree Clearing Bat Fund Contribution: For individual bridge projects likely to adversely affect bat species during tree removal, the NCDOT will contribute a payment* to the N.C. Nongame Terrestrial Species Fund (or other Service-approved fund) in support of the recovery of federally protected bat species.

Bat CM Structure Removal Bat Fund Contribution: For individual bridge projects that are LAA bat species during structure removal, the NCDOT will contribute a payment** to the N.C. Nongame Terrestrial Species Fund (or other Service-approved Fund) in support of the recovery of federally listed bat species.

*Contributions made will be based on a 2:1 ratio multiplier specified for the non-volant pup season (May 15-July 31). This ratio offers the most protective coverage as time of year clearing will occur is unknown. The amount will be determined using the United States Department of Agriculture Farm Real Estate

Value for North Carolina for 2024 (\$5,190/acre).

https://www.nass.usda.gov/Publications/Todays_Reports/reports/land0824.pdf

If tree clearing is unknown, an assumed clearing acreage of 0.1 acre will be used based on estimates from previous clearing work at bridges (NCDOT 2015). The formula is calculated as follows:

$\$5,190 \times 0.1 \text{ ac} = 519 \times 2 \text{ (critical life stage multiplier)} = \$1,038 \text{ contribution}$

**Structures with documented bat use are generally larger than the average bridge, with a median size of 0.10 acre (length x width) (KYTC 2019). Therefore 0.10 acre per bridge is used to calculate the amount of suitable bat habitat lost for projects involving structure impacts. However, the displacement affects to bats that must find a new roost while a new structure is being constructed are considered temporary in nature because the new structure will be replaced with a similar structure that will provide adequate roosting habitat again. Therefore, the ratio multiplier was reduced to 1.5:1 vs 2:1 used in the tree clearing contribution explained above. If the structure is demolished after March 15 when bats return to the landscape, a payment will be required, if not, no payment is required. The formula is calculated as follows: $\$5,190 \times 0.1 \text{ ac} = 519 \times 1.5 \text{ (temporary affect multiplier)} = \$779 \text{ contribution/structure}$

3. Status of the Species

This section summarizes best available data about the biology and current condition of gray bat (*Myotis grisescens*), Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*), and tricolored bat (*Perimyotis subflavus*) throughout their ranges that are relevant to formulating an opinion about the actions. More in-depth species information such as species status assessments can be found at the species-specific pages at the Service's Environmental Conservation Online System (ECOS): ecos.fws.gov/ecp/

3.1 Gray Bat

Scientific Name:	<i>Myotis grisescens</i>
Status:	Endangered
Date of Listing:	April 28, 1976
Critical Habitat:	None designated

3.1.1 Description and Life History

The gray bat is a medium-sized insectivorous bat with an overall length of about 3.5 inches and a wingspan of 10 to 11 inches. As the name implies, gray bats have gray fur, but the hair often bleaches to reddish-brown by early summer. The gray bat largely occurs in limestone karst areas, meaning a landscape marked by caves, sinkholes, springs and other features, of the southeastern and midwestern United States.

Gray bats use caves year-round for roosting and hibernating. Seasonal occupancy of caves differs between summer roost and winter hibernacula, and gray bats are known to migrate more than 300 miles between the two. While gray bats are predominantly found roosting in caves, they are known to roost in structures including buildings, bridges and culverts. Bats emerge from summer roosts early in the evening and forage along waterbodies adjacent to forested areas. The species has been documented traveling from a few miles to 20 or more miles between their day roosts and nightly foraging areas.

Adult bats mate upon arrival at the wintering caves in September or early October. Hibernation occurs in deep vertical caves in the winter, where colder temperatures are preferable. Gray bats require consistently cold temperatures to maintain hibernation and conserve energy in the winter months. The adult females

will emerge from hibernation in late March or early April. At that time, the females who have mated will begin their pregnancy, dispersing to maternity caves. Males and juveniles emerge shortly after the females and disperse to bachelor caves. Gray bats are documented using bridges and culverts as roosting habitat during the spring, summer, and fall and show strong philopatry to their summer ranges and typically use the same roost sites year after year (Tuttle 1976; Martin 2007). Gray bats are most observed in bridges with concrete and their preferred roosting location is in the vertical expansion joints of a bridge deck above piers (NCDOT 2023a), though they can also roost in clogged deck drains and other sheltered areas on crossing structures. According to approximately 2,000 bridge surveys conducted throughout WNC from 2000 - 2023, gray bats have been recorded roosting in bridges at a usage rate of 3% (NCDOT 2023a), with bridge use observed in the covered area from March – November. Up to 1,000 individuals, including males and females, have been observed day-roosting throughout the summer in expansion joints between box beams at two separate bridges (Weber et al. 2020). Sporadic summer use of other concrete type bridges has also been noted for smaller numbers of day-roosting gray bats (NCDOT, 2023a). Gray bats have also been observed within culverts, most commonly of concrete material.

Gray bats primarily forage over open water bodies, such as rivers, streams, lakes, and reservoirs, and associated riparian areas (Tuttle 1976; LaVal et al. 1977; Weber et al. 2020). On a macroscale, gray bats feed in aquatic-based habitats where specific types of insect prey are abundant (Brack and LaVal 2006). Bats typically travel individually or in small groups that forage in an area for a short period before moving to another area. Studies suggest that gray bats visit multiple foraging areas during the night and travel frequently between these areas.

3.1.2 Status and Distribution

The primary range of gray bats is concentrated in the cave regions of Alabama, Arkansas, Kentucky, Missouri and Tennessee, though its overall range stretches from Virginia to Oklahoma, and Missouri to Alabama. WNC is on the eastern edge of the bat's range. In North Carolina, the gray bat is currently documented from 14 western counties and is possible in an additional 10 counties. Most gray bat occurrences in WNC are centered on the French Broad and Pigeon River watersheds. Gray bats are generally present in North Carolina from March 15 to November 15, when they leave for winter hibernacula. It is believed that many of the gray bats in North Carolina migrate to hibernacula in Tennessee, using the French Broad River as a commuting pathway. The closest active hibernaculum is near Newport, Tennessee (Weber et al. 2020), approximately 20 miles from the border with Haywood and Madison Counties in North Carolina.

Ellison et al. (2003) of the U.S. Geological Survey (USGS) statistically analyzed 1,879 observations of gray bats obtained from 334 roost locations in 14 south-central and southeastern states. They determined that 94.4% of the populations showed stable or increasing populations while 6% revealed a decreasing population. For populations where there was a downward population trend, decreases in population numbers were mostly attributed to continued problems with human disturbance. This increasing population trend has been reflected in the work of Sasse et al. (2007), Martin (2007), and again by Elliott in 2008 in looking at high-priority caves. It is estimated that more than 95% of the species range-wide population hibernate in only 9 caves.

Emergence counts conducted by Indiana State University researchers at known roosts in WNC from 2018-2019 suggested there were at least 2,820 gray bats in the French Broad River basin (Weber et al. 2020). Due to 2024 flooding associated with TS Helene, these numbers may be significantly lower now, though at the time of this document, the impacts from Helene on imperiled species numbers are still unknown. Throughout WNC, there are 58 current element occurrences of the gray bat based on N.C.

Natural Heritage Program, NCWRC, and NCDOT records; most are from built structures (largely bridges). The number of gray bats found at each occurrence range from 1 to about 1,500 bats, with some roosts surveyed in the Weber et al. (2020) study hosting >1,000 gray bats during certain times of the season. The most recent winter population estimate of gray bats in the closest hibernaculum to the action area (Rattling Cave, near Newport TN) was 250,689 bats (TWRA 2019).

3.1.3 Threats

Cave disturbance and alteration, loss of forested habitat, pollution of waterways, and significant natural factors including those caused by climate change (flooding, freezing, and forest destruction) are threats to gray bats. Gray bats have been infected by the invasive fungus *Pseudogymnoascus destructans*, the causative agent of white-nose syndrome (WNS), a fungal disease contributing to the declines of several bat species in the U.S.; however, WNS is not considered a major threat to the species.

3.2 Indiana Bat

Scientific Name:	<i>Myotis sodalis</i>
Status:	Endangered
Date of Listing:	March 11, 1967
Critical Habitat:	Established in 1976

3.2.1 Description and Life History

The Indiana bat is a temperate, insectivorous, migratory bat that hibernates colonially in caves and mines in the winter. The species is widely distributed in a variety of wooded habitats, ranging from highly fragmented woodlands in agricultural landscapes to extensively forested areas. Roosting areas are preferred in forest stands with uneven-aged trees that can supply the canopy with large, dead trees in more direct sunlight and are near foraging areas and water sources. Some roosts do occur in living trees (primarily shagbark hickory) or damaged trees from several species. During winter, Indiana bats are restricted to suitable underground hibernacula. Most of these sites are caves located in karst areas of the east-central United States; however, Indiana bats also hibernate in other cave-like locations, including abandoned mines.

Maternity colonies form in early May and remain together until August. Females will rear a single pup from May into July. Temperatures and weather will alter the length of the time a pup will stay in the primary roost and females will relocate the pup to another snag to manage temperatures and environmental conditions. In summer, most reproductive females occupy roost sites under the exfoliating bark of dead trees that retain large, thick slabs of peeling bark. Habitats in which maternity roosts occur include riparian zones, bottomland and floodplain habitats, wooded wetlands, and upland communities. Indiana bats typically forage in semi-open to closed (open understory) forested habitats, forest edges, and riparian areas.

Fall swarming and mating takes place between August and November and are at different sites from the actual hibernaculum. Typically, hibernation begins in November and lasts through March. Several variables influence hibernacula selection, but generally Indiana bats prefer caves with stable temperatures that remain below 50°F with humidity greater than 74 percent. Indiana bats emerge from hibernation in March or April and remain near the hibernacula to refuel before migrating to summer ranges. Migration distances vary but have been observed greater than 300 miles. Bats may be concentrated near hibernacula and often roost in trees during fall swarming and spring staging.

Indiana bats primarily feed on flying insects, including some from orders with both an aquatic and terrestrial stage. Numerous foraging habitat studies have found that Indiana bats often forage in closed to semi-open forested habitats and forest edges located in floodplains, riparian areas, lowlands, and uplands; however, old fields and agricultural fields are also used (Service 2007). Drinking water is essential, especially when bats actively forage. Indiana bats obtain water from streams, ponds, and water-filled road ruts in forest uplands. Consistent use of moths, flies, beetles, and caddisflies throughout the year at various colonies suggests that Indiana bats are selective predators to a certain degree, but incorporation of other insects into the diet also indicates that these bats can be opportunistic (Murray and Kurta 2002).

3.2.2 Status and Distribution

Indiana bats can be found primarily in the midwestern and eastern part of the United States, with a range stretching east to west from Vermont to Oklahoma, and north to south from Michigan to Alabama, and comprising approximately 403,883 square miles. WNC falls on the southeast edge of their range. No known active hibernacula are present in WNC, and summer maternity colonies are widely dispersed, with most locations unknown (Service 2019a).

According to the 2024 population status update (Service 2024), range-wide there are approximately 631,786 Indiana bats, using 194 hibernacula across 15 states. The nine most populous hibernacula are home to 91% of Indiana bats, though none are in North Carolina or adjacent states. The Service divides the Indiana bat range into four recovery units, delineating evidence of population discreteness and genetic differentiation, differences in population trends, and broad-level differences in macrohabitats and land use. North Carolina is part of the Appalachia Recovery Unit, which includes all of West Virginia, as well as portions of Pennsylvania, Virginia, and Tennessee. The Appalachian recovery unit represents 0.2% of the overall Indiana bat population.

There are 20 element occurrences of the Indiana bat in WNC based on NCNHP records, five of these are considered historical. There are several records of Indiana bats roosting in concrete-material bridges associated with a water crossing and of concrete material (NCDOT 2023a). According to approximately 2,000 bridge surveys conducted throughout WNC from 2000 - 2023, Indiana bats have been recorded roosting in WNC bridges at a usage rate of 0.2% (NCDOT 2023a) with use documented to occur from March - July. There are currently no records in North Carolina of Indiana bats roosting in culverts (NCDOT 2023b), though they have been found in culverts in other states. White Oak Blowhole cave in Tennessee (Great Smoky Mountains National Park) is located within five miles of the North Carolina border. Therefore, part of the designated spring staging and fall swarming habitat associated with this hibernaculum extends into Swain County, NC.

3.2.3 Threats

Threats to the Indiana bat include modifications to caves, mines, and surrounding areas that change airflow and alter microclimate in the hibernacula. Human disturbance and vandalism pose significant threats during hibernation through direct mortality and by inducing arousal and consequent depletion of fat reserves. Natural catastrophes can also have a significant effect during winter because of the concentration of individuals in a relatively few sites. During summer months, possible threats relate to the loss and degradation of forested habitat. Migration pathways and swarming sites may also be affected by habitat loss and degradation. Although populations have increased in recent years, WNS poses an additional threat that has caused and may continue to cause population declines.

3.3 Northern long-eared Bat

Scientific Name:	<i>Myotis septentrionalis</i>
Status:	Endangered
Date of Listing:	April 1, 2015 as Threatened; November 30, 2022 as Endangered
Critical Habitat:	None designated

3.3.1 Description and Life History

The northern long-eared bat is a wide-ranging species, found in 37 states and eight provinces in North America. The species typically overwinters in caves and mines and spends the remainder of the year in forested habitats. As its name suggests, the northern long-eared bat is distinguished by its long ears, particularly as compared to other bats in the genus *Myotis*.

Northern long-eared bats are a forest bat species that roosts in a variety of forest types and structures. They are known to roost in trees and have also been documented using roost sites such as buildings, artificial roosts, and bridges. During the active season, northern long-eared bats typically roost singly or in maternity colonies underneath bark or more often in cavities or crevices of both live trees and snags (Service 2023). Males' and non-reproductive females' summer roost sites may also include cooler locations, such as caves and mines (Service 2023). According to approximately 2,000 bridge surveys conducted throughout western North Carolina from 2000 - 2023, northern long-eared bats have been recorded roosting in western North Carolina bridges at a usage rate of 0.2% (NCDOT 2023a) with use documented to occur from May - October. With one exception, all bridge roost records in North Carolina are associated with a water crossing. There are no records of northern long-eared bats roosting in culverts in North Carolina, though they have been documented using culverts in other states. Northern long-eared bats will overwinter in caves or mines and have been documented using railroad tunnels, storm sewers, and bunkers. Length of hibernation varies depending on location. They may hibernate singly or in small groups and can be found hibernating in open areas but typically prefer caves with deep crevices, cracks, and bore holes that protect from drafts. They typically hibernate from September or October to March or April. More than 780 hibernacula have been documented within the northern long-eared bat range.

Prior to hibernation, between mid-August and mid-November, bat activity will increase during the evenings at the entrance of a hibernaculum (fall swarming). Suitable fall swarming habitat is like roosting, foraging, and commuting habitat selected during the summer and is most typically within 4-5 miles of a hibernaculum (Service 2023). Likewise, in the spring they emerge from and stage near hibernacula before moving to maternity areas typically in early April to mid-May; however, they may leave as early as March. Northern long-eared bats also roost in trees near hibernacula during spring staging, and Thalken et al. (2018) found that roost trees were situated within 1.2 miles (2km) of hibernacula during spring staging and the early maternity season. The species migrates relatively short distances between maternity areas and hibernacula.

Northern long-eared bats are more likely to forage under the canopy on forested hillsides and ridges (Nagorsen and Brigham 1993) rather than along riparian areas (Brack and Whitaker 2001; LaVal et al. 1977). Because of this, alternative water sources like seasonal woodland pools may be an important source of drinking water for these bats (rather than just streams and ponds; Franci 2008). Mature forests may be an important habitat type for foraging (Service 2015). Northern long-eared bats have a diverse diet including moths, beetles, flies, leafhoppers, caddisflies, and arachnids (Service 2020a), which they catch while in flight or by gleaning insects off vegetation (Ratcliffe and Dawson 2003).

3.3.2 Status and Distribution

The species' range includes all or portions of 37 eastern and mid-western states and the District of Columbia in the U.S. The northern long-eared bat's range also includes eight Canadian provinces. In WNC, the species range includes all or portions of 26 counties in the western portion of the state.

Prior to the emergence of WNS, northern long-eared bat was abundant and widespread throughout much of its range with 737 occupied hibernacula, a maximum count of 38,181 individuals and its range being spread across >1.2 billion acres in 29 states and 3 Canadian provinces. Numbers vary temporally and spatially, but abundance and occurrence on the landscape were stable (Cheng et al. 2022, p. 204; Wiens et al. 2022, p. 233). Currently, declining trends in abundance and occurrence are evident across much of northern long-eared bat's summer range. Range-wide summer occupancy declined by 80% from 2010–2019. Data collected from mobile acoustic transects found a 79% decline in range-wide relative abundance from 2009–2019 and summer mist-net captures declined by 43–77% compared to pre-WNS capture rates.

There are approximately 169 element occurrences for northern long-eared bat in NC, based on N.C. Natural Heritage Program records, 19 of which are considered historical. The number of bats found at each occurrence ranges from one to more than 80. There have been 22 documented hibernacula, all in caves or mines; however, northern long-eared bats have not been observed using hibernacula in North Carolina since 2014 (NCWRC personal communication September 2022). The Service estimates that there has been an occupancy drop of 85% and a 24% loss of winter colony sites across the Southeast Representation Unit (RPU) overall since 2006 when white-nose syndrome was first documented (Service 2022a).

3.3.3 Threats

The primary factor influencing the viability of the northern long-eared bat range-wide population is WNS. Other primary factors that influence the decline in northern long-eared bat numbers include wind energy mortality, effects from climate change, and habitat loss.

3.4 Tricolored Bat

Scientific Name:	<i>Perimyotis subflavus</i>
Status:	Proposed Endangered
Date of Proposed Listing:	September 14, 2022
Critical Habitat:	None proposed

3.4.1 Description and Life History

The tricolored bat is one of the smallest bats in North America. The once common species is wide-ranging across the eastern and central US and portions of southern Canada, Mexico and Central America. As its name suggests, the tricolored bat is distinguished by its unique tricolored fur that appears dark at the base, lighter in the middle and dark at the tip.

During the spring, summer, and fall, tricolored bats are found in forested habitats where they roost in trees, primarily among leaves. Additionally, tricolored bats have been observed roosting among pine needles, eastern red cedar (*Juniperus virginiana*), within artificial roost structures, beneath porch roofs, bridges, concrete bunkers, and rarely within caves. Female tricolored bats form maternity colonies and switch roost trees regularly. Maternity colonies typically consist of one to several females and pups. They usually have twins in late spring or early summer, which are capable of flight in four weeks.

During the winter, across much of their range tricolored bats hibernate in caves and mines; although, in the southern United States, where caves are sparse, they often hibernate in culverts, as well as sometimes in tree cavities and abandoned water wells. In the southern US, hibernation length is shorter compared to northern portions of the range. Hibernating tricolored bats do not typically form large clusters; most commonly roost singly, but sometimes in pairs, or in small clusters of both sexes away from other bats (Service 2021). Tricolored bat hibernacula following population crashes from WNS generally host <100 individuals (Service 2021), though solitary hibernation can often occur with this species (Whitaker and Hamilton 1998).

Before entering hibernacula for the winter, tricolored bats demonstrate ‘swarming’ behavior. The peak swarming period for tricolored bats in much of WNC/eastern Tennessee generally starts in mid to late August and extends into November and is a sensitive period for bats. Suitable fall swarming habitat is like roosting, foraging, and commuting habitat selected during the summer. Spring staging is the time period between winter hibernation and spring migration to summer habitat (Service 2023). During this time, bats begin to gradually emerge from hibernation, exit the hibernacula to feed, but re-enter the same or alternative hibernacula to resume daily bouts of torpor (state of mental or physical inactivity). Tricolored bats also roost in trees near hibernacula during spring staging.

Tricolored bats are opportunistic feeders and consume small insects including caddisflies, moths, beetles, wasps, flying ants and flies. The species most commonly forages over waterways and along forest edges

3.4.2 Status and Distribution

Tricolored bats have a very wide range that encompasses most of the eastern US from Canada to Florida and west to New Mexico (39 states). They can be found throughout North Carolina and are one of the most encountered cave-dwelling species seen in winter, albeit at much lower densities than prior to the arrival of WNS in the state.

There are 147 NC element occurrences of the tricolored bat based on N.C. Natural Heritage Program records, seven of which are considered historical. The number of bats found at each occurrence range from 1 to 3,000 bats. There have been 79 tricolored bat hibernacula documented, including caves (50), mines (22), root cellars (4), and culverts (3). According to approximately 2,000 bridge surveys conducted throughout western North Carolina from 2000 - 2023, tricolored bats have been recorded roosting in bridges at a usage rate of 1.3% (NCDOT 2023a). Tricolored bat bridge use has been documented to occur in western North Carolina from April – October (with one outlier record from 2013 citing February use). Approximately 900 culvert surveys have been conducted in western North Carolina from 2010 – 2023 (NCDOT 2023b) with year round data coverage. Tricolored bats have been found using culverts in western North Carolina, again at a relatively low rate (0.8% observed use). Culvert use has been observed in western North Carolina from January – April.

For tricolored bats, the Service split the bat’s range into three Representation Units (RPU), two of which, the Northern and Southern RPUs, include the western and eastern halves of WNC, respectively. The Service estimates that, since 2006, the Northern RPU has experienced a 17% decline in summer occupancy and a 57% decline in the number of winter colonies, while the Southern RPU has experienced a 37% decline in summer occupancy and a 24% decline in the number of winter colonies (Service 2021).

3.4.3 Threats

WNS is the primary driver of the species' decline and is predicted to continue to be the primary influence into the future. Wind energy-related mortality is also considered a consequential driver to the bat's viability. Although habitat loss is considered pervasive across the species' range, severity has likely been low given historical abundance and spatial extent; however, as tricolored bat's spatial extent is projected to decline in the future (i.e., consolidation into fewer winter and summer colonies) negative impacts (e.g., loss of a hibernaculum or maternity colony) may be significant.

4. Environmental Baseline

The environmental baseline includes the past and present impacts of all Federal, State, or private actions and other human activities in the action area, the anticipated impacts of all proposed Federal projects in the action area that have already undergone formal or early section 7 consultation, and the impact of State or private actions which are contemporaneous with the consultation in process [50 CFR §402.02].

The project action areas contain the existing crossing structures and the roadway approaches, along with the existing utilities and surrounding riparian areas in which project work will occur. Past impacts include the original construction and placement of the crossing structures within waterbodies to facilitate transportation in the surrounding locations. Because this document addresses several projects, more detailed information regarding other human activities at each location is not included for the purposes of this consultation review.

4.1 Listed and Proposed Bats Within the Action Areas

Structures

Buncombe County structure 449, Mitchell County structure 050, Rutherford County structure 573, and Yancey County structure 188 were all partially damaged from Hurricane Helene, yet suitable structural roosting habitat remains. For gray bats, primary roost structures can support several hundred to over 1,000 individuals, but most structures with observed gray bat roosting in WNC contain only 1 to 10 individuals. The bridges or culverts that support higher numbers of gray bats are typically larger than average. The number of northern long-eared bats, tricolored bats, and Indiana bats observed roosting on bridges in WNC is typically between 1 and 2 individuals at any given time. More specifically, Natural Heritage data in Buncombe County contains two bridge and five culvert roost locations for gray bats, and one bridge roost for tricolored bats. Rutherford County has one gray bat bridge roost, and Yancey County has three gray bat bridge roost locations. Notably, there are no current records of northern long-eared bat or Indiana bat culvert roosts in North Carolina. Given the size of these damaged crossing structures, the degraded and reduced roosting habitat available, and based on existing WNC data, it is estimated that one individual per species could be present within each structure at these four locations.

Trees

Gray bats are not considered "tree-roosting" species. While individuals have been observed utilizing trees in rare occasions, they are generally considered a cave/structure-specific roosting species; therefore, no gray bats are expected to be roosting in trees within the action areas. Indiana, northern long-eared, and tricolored bats roost in trees during the warmer months. Buncombe County projects 149, 236, 449, 463, and 846, Mitchell County projects 050 and 087, Rutherford County projects 572 and 573, and Yancey County project 179 may involve tree clearing, but no project anticipates clearing more than 0.1 acres. Given the minimal amount of riparian vegetation and trees remaining within the action areas, it is unlikely that a high number of bats would be utilizing the small amount of available habitat. Based on that

rationale, one individual per species (of northern long-eared bat or tricolored bat) could be present in trees within the action area per crossing structure location.

5. Effects of the Action

Under section 7(a)(2) of the ESA, "effects of the action" refers to the consequences, both direct and indirect, of an action on the species or critical habitat. The effects of the proposed action are added to the environmental baseline to determine the future baseline, which serves as the basis for the determination in this Opinion. Should the effects of the Federal action result in a situation that would jeopardize the continued existence of the species, we may propose reasonable and prudent alternatives that the Federal agency can take to avoid a violation of section 7(a)(2).

5.1 Gray Bat, Indiana Bat, Northern Long-eared Bat, and Tricolored Bat

5.1.1 Proximity of the Action, Nature of the Effect, and Disturbance Duration for Bats

Based on the description of the action and the species' biology, stressors to gray bat, Indiana Bat, northern long-eared bat, and tricolored bat have been identified and are shared below. The proximity of these actions will be within the entire action area of each project, including the structures, waterways, riparian zone, and any existing forested areas. Duration of disturbance is expected primarily during the construction phase of project work.

5.1.2 Effects Analysis for Bats

Replacement structures: Due to the constraints associated with the TS Helene response, such as the high volume of projects and timeline unknowns, the exact designs of replacement crossing structures are not known at the time of this document. However, according to information provided by NCDOT, most replacement bridge structures are expected to be either cored slab or box beam bridges. Such precast concrete bridges may provide suitable bat roosting habitat depending on factors such as spacing between beams/girders, arrangement above any bents, and other design elements that could result in potential roosting crevices. Generally, concrete is a favorable material for roosting due to its thermal stability.

Direct Impacts – Direct effects are caused by the action and occur at the same time and place (50 CFR 402.02).

Structure Work

The demolition of remaining portions of structures, if conducted while bats are present, could result in causing bats to flush, which would expose them to risk of predation, would cause increased energy expenditure, and create the need for bats to find alternative roost locations. It could also result in physical wounding or death. High-decibel percussive noises associated with demolition or construction may cause nearby roosting bats to flush, exposing them to harm and increased energy expenditure. Additionally, while adults may be able to flush, any non-volant pups present would be left behind with mortality as the likely outcome. In summary, these activities, should they occur while bats are present, are likely to adversely affect gray bat, Indiana bat, northern long-eared bat, and tricolored bat in the form of harm.

Tree Removal

The removal of suitable roost trees, if conducted while Indiana bats, northern long-eared bats, or tricolored bats are present, could result in causing bats to flush, which would expose them to risk of predation, would cause increased energy expenditure, and create the need for bats to find alternative roost locations. It could also result in physical wounding or death. Given the presence of alternative forested habitat near the action areas, bats could likely find trees for roosting. Harm would be expected in the

increased exposure to predation from flushing and from the potential for wounding or killing when trees are felled. Additionally, while adults may be able to flush, any non-volant pups would be left behind and would likely perish. In summary, these activities, should they occur while bats are present, are likely to adversely affect Indiana bat, northern long-eared bat and tricolored bat in the form of harm.

Indirect Impacts – Indirect effects are defined as those caused by the proposed action and are later in time but reasonably certain to occur (50 CFR 402.02).

If bats were utilizing structures or trees (when considering Indiana bats, northern long-eared bat, and tricolored bat) within the action areas as roost sites prior to demolition/clearing/construction and return to those roost sites to find the habitat gone or altered, the bats may then have to expend extra energy in finding alternative roosting areas. While this could occur, it is considered unlikely to result in adverse effects given that replacement structures are expected to offer suitable roosting features, and alternative forested habitat is available near the action areas.

Operational Effects

Because these projects are limited to the replacement of damaged or destroyed crossing structures and their approaches, which will not result in changes to traffic volumes, any operational effects above the existing baseline conditions are not expected to occur; or, if they do occur, are expected to be minimal.

5.2 Cumulative Effects

Cumulative effects are defined as "those effects of future state or private activities, not involving Federal activities, that are reasonably certain to occur within the action area of the Federal action subject to consultation" (50 CFR 402.02). Future federal actions unrelated to the proposed action are not considered because they require separate consultation pursuant to Section 7 of the ESA.

These structure replacements are not expected to induce land development or substantially change the function of the roadways. Any potential effects are anticipated to be localized and consistent with baseline land use patterns. Many private landowners and local governments are recovering from TS Helene and rebuilding homes/businesses and infrastructure. Therefore, there will likely be increased construction in WNC Counties for an undefined period of time. Some of this work will be conducted during seasons when bats are active on the landscape, potentially increasing exposure to construction-related stressors. However, other effects from these private actions cannot be determined at this time.

6. Conclusion and Jeopardy Determination

After reviewing the current status of gray bat, Indiana bat, northern long-eared bat, and tricolored bat, the environmental baselines for the action areas, the effects analyses and cumulative effects, the Service's biological and conference opinions are shared below.

6.1 Gray Bat, Indiana Bat, Northern Long-eared Bat, and Tricolored Bat

On September 14, 2022, the Service published a proposal in the Federal Register to list the tricolored bat as endangered under the ESA. As a result, NCDOT requested a conference for the tricolored bat as the projects may be on-going after the effective date of any final listing rule, if one is published. It is the Service's biological and conference opinion that the proposed actions are not likely to jeopardize the continued existence of gray bat, Indiana bat, northern long-eared bat, or tricolored bat. Effects from these actions stem from the replacement of the following crossing structures and/or associated tree clearing: Buncombe County structures 149, 236, 449, 463, and 846; Mitchell County structures 050, and 087,

Rutherford County structures 572 and 573, and Yancey County structure 179. These action areas comprise only a small amount of active season habitat within the overall ranges of these species. No changes in the long-term viability of gray bat, Indiana bat, northern long-eared bat, or tricolored bat are expected because, given the low numbers of each species which could be expected to occur at each crossing structure location (that is, an estimate of 1 individual per species per structure and an estimate of one Indiana bat, one northern long-eared bat, and one tricolored bat per forested area within each action area), and the occurrence range-wide of each species – gray bat in 14 states, Indiana bat in 27 states, northern long-eared bat in 37 states, and tricolored bat in 39 states as well as in portions of other North and Central American countries – only a miniscule percentage of those overall populations may be affected. Crossing structure construction activities are likely to negatively affect gray bat, Indiana bat, northern long-eared bat, and tricolored bat within the action areas but the incorporated conservation measures are expected to reduce impacts.

7. Incidental Take Statement

Section 9 of the ESA and Federal regulations pursuant to section 4(d) of the ESA prohibit the take of endangered and threatened animals, respectively, without special exemption. Take “*means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct*” (16 U.S.C §1532). Harm is further defined by the Service as “*an act which actually kills or injures wildlife. Such act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering*” (50 CFR 17.3). Incidental taking “*means any taking otherwise prohibited, if such taking is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity*” (50 CFR 17.3). Harass is defined by the Service as “*an intentional or negligent act or omission which creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding or sheltering*” (50 CFR 17.3). Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of section 7(b)(4) and section 7(o)(2), taking that is incidental to, and not intended as part of, the agency action is not considered to be prohibited under the Endangered Species Act, provided that such taking is in compliance with the terms and conditions of this Incidental Take Statement.

7.1 Amount of Take for Gray Bat, Indiana Bat, Northern Long-eared Bat, and Tricolored Bat

The Service anticipates incidental take of gray, Indiana, northern long-eared, and tricolored bats may result from the demolition (if applicable) and construction of crossing structures 149, 236, 449, 463, and 846 (Buncombe County); structures 050, and 087 (Mitchell County); structures 572 and 573 (Rutherford County); and structure 179 (Yancey County). Specifically, take of these species may occur as a result of flushing, wounding, or direct mortality during demolition activities (if applicable); or, for northern long-eared bat Indiana bat, and tricolored bat, take may occur as a result of clearing suitable roost trees during times of year that these bats could be tree-roosting within the action area, which may similarly result in flushing, wounding, or direct mortality during clearing activities.

Incidental take of bats is difficult to measure or detect given that 1) the animals are small, cryptic, and generally difficult to observe, 2) finding dead or injured bats during or following project implementation is unlikely, and 3) some incidental take is in the form of non-lethal harm and not directly observable. Given this, the 1) maximum estimated tree clearing (for northern long-eared bat, Indiana bat, and tricolored bat only) and 2) number of structures replaced, are used as surrogate measures of take for this Opinion. Additionally, as discussed in the Environmental Baseline, no more than one individual of gray

bat or two individuals of northern long-eared bat, Indiana bat, or tricolored bat (given structure and tree roosting) are estimated to be present within the action areas of each crossing structure.

Therefore, the incidental take permitted by the Opinion would be exceeded if:

1. *Tree clearing amount exceeds 0.10 acre at a single structure location for the crossing structures listed at the beginning of section 7.2.
2. Any more than one structure is demolished/replaced per crossing structure, as listed at the beginning of section 7.2.

**For Indiana bat, northern long-eared bat, and tricolored bat only*

Exceedance of take as defined above will represent new information that was not considered in this Opinion and shall result in reinitiation of this consultation. The incidental take of gray bat, northern long-eared bat, and tricolored bat is expected to be in the form of harm, wounding, or death.

7.3 Reasonable and Prudent Measures

The Service believes the following reasonable and prudent measure(s) are necessary and appropriate to minimize take of gray bat, Indiana bat, northern long-eared bat, and tricolored bat. These non-discretionary measures reduce the level of take associated with project activities and include only actions that occur within the action area.

1. NCDOT shall ensure that the contractor(s) understands and follows the measures listed in the “Conservation Measures”, “Reasonable and Prudent Measures,” and “Terms and Conditions” sections of this Opinion.
2. NCDOT shall minimize the area of disturbance within the action areas to only the area necessary for the safe and successful implementation of the proposed actions.
3. NCDOT shall monitor and document any take numbers and the surrogate measures of take and report those to the Service in a batched format.

7.4 Terms and Conditions

In order to be exempt from the prohibitions of section 9 of the ESA, the Applicant must comply with the following terms and conditions, which implement the reasonable and prudent measures described above and outline required reporting and/or monitoring requirements. When incidental take is anticipated, the terms and conditions must include provisions for monitoring project activities to determine the actual project effects on listed fish or wildlife species (50 CFR §402.14(i)(3)). These terms and conditions are nondiscretionary. If this conference opinion is adopted as a biological opinion following a listing or designation, these terms and conditions will be non-discretionary.

1. NCDOT shall adhere to all measures as listed in the Avoidance and Minimization and Conservation Measures section as summarized in this Opinion.
2. The NCDOT will immediately inform the Service if the amount or extent of incidental take in the incidental take statement is exceeded.
3. When incidental take is anticipated, the Terms and Conditions must include provisions for monitoring project activities to determine the actual project effects on listed fish or wildlife species (50 CFR §402.14(i)(3)). In order to monitor the impact of incidental take, the NDOT must report the action impacts on the species to the Service according to the following:
 - a. The NCDOT will submit a report each year not later than September 30 identifying, per individual project (via Service Log # and NCDOT identifiers), the following for the preceding calendar year ending December 31:
 - i. Acreage and dates of tree removal (if any), if LAA for bats (excepting gray bat).

- ii. Dates of structure removal (if any), if LAA for bats.
- iii. List of implemented AMMs and BMPs [as listed in Section 2.3].

8. Conservation Recommendations

Section 7(a)(1) of the Endangered Species Act (ESA) directs Federal agencies to use their authorities to further the purposes of the Endangered Species Act by carrying out conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary agency activities to minimize or avoid adverse effects of a proposed action on listed species or critical habitat, to help implement recovery plans, or to develop information.

- **Eastern Hellbender:** Proximity to eastern hellbender occurrence records was noted for the following crossing structures: Buncombe County structures 25-249, 25-250, 25-251, 25-258, and 25-263, Mitchell County structures 25-254, 25-261, and 25-262, and Yancey County structures 25-256, and 25-257. Ahead of work at these locations, coordinate with the NCWRC and the Service to survey for/relocate any hellbender that may be within the action area and vulnerable to impacts from project work.
- **State Species of Concern:** Proximity to aquatic species with North Carolina designations was noted for Rutherford County crossing structure 572. While these species are not currently afforded legal protection under the ESA, we recommend the most protective sediment and erosion control measures possible be used in waters occupied by these species, and we encourage you to coordinate any relocation efforts of such species with the NCWRC.
- **Refueling and Materials Storage:** Refuel construction equipment outside the 100-year floodplain or at least 200 feet from all water bodies (whichever distance is greater) and protected with secondary containment. Store hazardous materials, fuel, lubricating oils, or other chemicals outside the 100-year floodplain or at least 200 feet from all water bodies (whichever distance is greater).
- **Provide Terrestrial Wildlife Passage:** Where riparian corridors suitable for wildlife movement occur adjacent to a project, a spanning structure that also spans a portion of the floodplain and provides or maintains a riprap-free level path underneath for wildlife passage would provide a safer roadway and facilitate wildlife passage. A 10-foot strip may be ideal, though smaller widths can also be beneficial. Alternatively, a “wildlife path” can be constructed with a top-dressing of finer stone (such as smaller aggregate or on-site alluvial material) to fill riprap voids if full bank plating is required. If a multi-barrel culvert is used, the low flow barrel(s) should accommodate the entire stream width and the other barrel should have sills to the floodplain level and be back-filled to provide dry, riprap-free wildlife passage and well as periodic floodwater passage.

For the Service to be kept informed of actions minimizing or avoiding adverse effects or benefitting listed species or their habitats, we request notification of the implementation of any conservation recommendations.

9. Reinitiation Notice

This concludes formal consultation on the action(s) outlined in the consultation request dated December 12, 2024. As provided in 50 CFR §402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if: (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in this opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of

incidental take is exceeded, any operations causing such take must cease pending reinitiation.

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Archaeology



NO NATIONAL REGISTER OF HISTORIC PLACES ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES PRESENT 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 Team.



PROJECT INFORMATION

Project No: **Bridge 159** County: **Buncombe**
WBS No: **DF18313.2011262.PR** Document: **Federal CE**
F.A. No: **n/a** Funding: ☐ State ☒ Federal
Federal Permit Required? ☒ Yes ☐ No Permit Type: **FHWA, USACE, FEMA**

Project Description:

NCDOT proposes replacing Bridge No. 159 on SR 2115 (Blackberry Inn Road) in Buncombe County. Division 13 provided a Vicinity Map, ArcGIS shapefiles of the general expanded study area, and a Bridge Inspection Report. For the Area of Potential Effects (APE), this review considers all areas of potential earth disturbing activities and is defined as an approximate 400- foot (121.92 m) long corridor running 200 feet (60.96 m) east and west along Blackberry Inn Road from the center of Bridge No. 159. The APE corridor is approximately 150 feet (45.72 m) wide extending 75 feet (22.86 m) to either side of the centerline. The APE is approximately 1.8 acres.

Federal funds and permits are anticipated for this project. As a result, this archaeological review was conducted in accordance with Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance (36 CFR Part 800).

SUMMARY OF ARCHAEOLOGICAL FINDINGS

The North Carolina Department of Transportation (NCDOT) Archaeology Team has reviewed the subject project and determined:

- ☒ There are no National Register listed ARCHAEOLOGICAL SITES within the project's area of potential effects. (Attach any notes or documents as needed.)
- ☐ No subsurface archaeological investigations were required for this project.
- ☐ Subsurface investigations did not reveal the presence of any archaeological resources.
- ☒ Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- ☒ All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

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

NCDOT has conducted an intensive archaeological survey and evaluation for the proposed replacement of Bridge No. 159 on SR 2115 (Blackberry Inn Road) over Reems Creek, located west of Weaverville in Buncombe County, North Carolina (Figure 1).

Background Research

A site file search was conducted using data from the Office of State Archaeology on July 17, 2025. No previous investigation has been carried out within the current project area, but eight archaeological sites (31BN13, 31BN14, 31BN15, 31BN130, 31BN461, 31BN481, 31BN482, and 31BN483) were recorded within a one-mile radius of the bridge (see Figure 1). These sites were recorded by either the Works Progress Administration in 1942 or local amateur archaeologists. As a result, information is very limited about each site. All are precontact sites and are situated in agricultural fields on well drained stream terraces along Reems Creek and its tributaries. Site 31BN14, located approximately 620 feet east of the APE, is situated on the same landform as the current project landform. Due to the high density of sites in proximity along the Reems Creek waterways, a systematic archaeological survey was recommended in areas not heavily disturbed by Hurricane Helene.

At the time of the initial file search, the North Carolina State Historic Preservation Office online database (HPOWEB 2025) showed no known eligible or listed historic architectural resources within the APE that may yield intact archaeological deposits. As a part of this project, a historic structures survey was conducted by NV5 on behalf of NCDOT's Historic Architecture Group. As a result of the investigation, one historic structure was recorded (Ollie Ballard Wheeler House [BN6899]). The structure was determined to be Not Eligible for the NRHP.

History of the project area prior to the 1900s is limited. Most early maps provide only general details such as major roads and settlements. The 1900 USGS topographic map of Mount Mitchell is the first to depict reliable information (Figure 2). This map shows intersection of SR 2115 and SR 2116 as well as the crossing of SR 2115 over Reems Creek. Two structures are depicted to the north and one to the south of the crossing. The 1920 Soil Map for Buncombe County shows a similar setting (Figure 3). By 1935, the two structures to the north and the one to the south are gone and a singular structure is shown that resembles the location of the Ollie Ballard Wheeler House (Figure 4). Two additional structures are illustrated on the 1947 USGS topographic map, one to the north and one to the south (Figure 5). These two additional structures as well as the Ollie Ballard Wheeler House remain intact today. The road alignment and creek crossing have remained relatively unchanged since its earliest depictions in 1900. A large man-made pond situated west of the APE was constructed sometime between 1978 and 1979. Aerial imagery following Hurricane Helene show scouring of floodplain occurred north and southeast of Bridge 159 (Figure 6-7).

According to the USDA soil survey for Buncombe County, much of the APE (88.6%) consists of the Dellwood-Reddies complex (DeA) (Figure 8). Although it is occasionally flooded, this flat soil is well drained and therefore ideal for containing archaeological deposits in the mountain region. The remaining soils (11.4%) are classified as Tusquitee-Whiteside complex (TwC). These soils are also well drained and may contain archaeological deposits in areas where the slope is less than 15%.

Fieldwork Results

The archaeological field investigations were carried out on October 8, 2025. A visual reconnaissance survey of the entire APE was conducted followed by an intensive subsurface investigation in areas of high potential.

Visual Reconnaissance Survey

Surface visibility northwest of Bridge No. 159 was high due to a low level of new growth. A push pile was observed along the creek and damage from flooding was visible including a scatter of large river cobbles and visible clay soil on the surface (Figure 9). Historic ceramics were observed on the surface. These were interpreted to be deposited during a flood event and were not collected. Subsurface testing was not performed in the northwest quadrant.

Visibility northeast of the bridge was moderate in areas frequently mowed but visibility decreased near the road due to overgrown shrubs (Figure 10). The residences and their associated outbuildings are situated on higher ground above Reems Creek. This landform has been cut from road construction and possible flood events. Large cobbles and exposed soil were also observed on the surface indicating a recent flood event. No surface artifacts were observed. Due to the observed flood damage, no subsurface testing occurred in the northeast quadrant.

The landform to the southeast of the bridge was cut in half by Reems Creek. The northside contained a floodplain adjacent to a terrace that contained an agricultural field and barn, and the south side of the creek contained exposed soil from vehicle parking adjacent to a driveway (Figure 11). Large cobbles and exposed soil were observed on the surface. Along the creek, surface visibility was low due to dense secondary growth (Figure 12). Due to the presence of rocky soil to the north of the creek and the disturbed soil south of the creek, shovel testing was not conducted in this area.

Southwest of the bridge contains a well-maintained terraced residential lawn that gently sloped northward to a floodplain above Reems Creek and an area of dense secondary brush adjacent to a man-made pond (Figure 13-14). A stacked stone fence lined the edge of the property along the road. Seedlings were recently planted in the residential lawn by the landowner. A small strip of maintained land is located between the pond, creek, and south side of Bridge 159, likely used as an access area around the pond. Ground surface visibility in this quadrant was low due to the grass-covered lawn and dense vegetation near the pond. Located above the creek, little evidence of damage from flooding was observed on the surface. Therefore, this area was selected for intensive shovel testing.

Intensive Subsurface Investigation

A total of six shovel tests (STs) were placed at approximately 15-meter (ca. 49-foot) intervals within the APE's southwest quadrant (see Figure 8). Additional shovel tests including shorter intervals STs adjacent to a positive test for cultural material could not be excavated due to lack of landowner permission.

31BN1384

Site 31BN1384 is low-density precontact site situated on the edge of a stream terrace southeast of Bridge 159 within a well-maintained residential lawn (see Figure 13-14). The site measures approximately 40 m north-south by 50 m east-west within the APE. It is bounded by SR 2115 to the

north-northeast, consecutive negative shovel tests to the northwest, and the APE to the south (see Figure 8). Delineation shovel tests were not excavated to the south within the APE or to the east outside the APE as additional shovel testing on the property was not allowed by the landowner. Systematic surface inspection was not conducted because the grass-covered lawn yielded no ground surface visibility at the time of survey.

The USDA soil map identified the area as Dellwood-Reddies complex (DeA) and Tusquitee-Whiteside complex (TwC). The soil map is considered to be accurate as evidence of occasional flooding and coarse-textured alluvium containing gravel and cobbles was observed in the area. Soil stratigraphy on the terrace (STs #1-3) consisted of a brown (10YR 5/3) sandy clay loam A horizon (0-10 cmbs) followed by a very dark grayish brown (10YR 3/2) sandy loam B horizon (10-35 cmbs) (Figure 15-16). Excavations halted due to the large concentration of cobbles. The floodplain yielded a similar profile of a brown (10YR 5/3) sandy clay loam A horizon (0-15 cm) underlain by a very dark grayish brown (10YR 3/2) sandy loam B horizon (15-45 cmbs). A large concentration of cobbles was also observed.

The artifact assemblage consists of two quartzite flakes and one small pottery sherd. Both were collected in the surface layer between 0 and 10 cmbs. This is the brown (10YR 5/3) sandy clay loam A horizon encountered in ST #1 and #3. No artifacts were identified in the very dark grayish brown (10YR 3/2) sandy loam B horizon.

The pottery sherd is less than 2 cm in diameter and eroded (Figure 17-18). It appears to be sand or crushed quartz tempered and has a burnished interior surface, although this is inconclusive due to its small size. Lacking diagnostic qualities, the sherd cannot be typed within a particular time period. It is possible the sherd and quartzite flakes were deposited during a flood event as they were found within the upper soil layer and evidence of flood events were observed within the soil column.

Table 1. Site 31BN1384 Artifact Inventory.

Bag	Prov	Strat	Depth (cmbs)	Artifact	Description	Qty
1	ST 1	I	0-10	Pottery	Residual sherd	1
2	ST 3	I	0-10	Debitage	Quartzite Flake	2
Total						3

Site 31BN1384 is a precontact site represented by two quartzite flakes and a small pottery sherd recovered from the upper soil layer. Intact deposits and artifact concentrations were not observed and are unlikely to be present in other areas of the APE. As the site could not be fully delineated, it is recommended that it remains unassessed for inclusion in the National Register of Historic Places (NRHP). However, the portion of the site within the APE lacks substantial intact subsurface deposits and artifact concentrations needed to provide important information about the precontact history of the area.

Summary and Recommendations

The archaeological investigations for the proposed replacement of Bridge No. 159 over Reems Creek in Buncombe County resulted in the identification of archaeological site 31BN1384 southeast of the bridge. Site 31BN1384 is a small artifact scatter that includes an undiagnostic precontact pottery sherd and lithics. No intact cultural features were recorded, and the site may extend beyond the Area of Potential Effect (APE) for this project. Because it could not be fully delineated, it is recommended that the site remain unassessed for inclusion in the National Register of Historic Places (NRHP).

However, the portion of the site within the APE lacks substantial intact subsurface deposits and artifact concentrations needed to provide important information about the precontact history of the area. Other areas within the APE are unlikely to yield significant resources due to disturbance from prior flood events and modern human activity. No further archaeological work is required for the proposed replacement of Bridge No. 159 on SR 2115 (Blackberry Inn Road) in Buncombe County, but additional investigations will be necessary should the project expand outside of its currently defined APE.

(This project falls within a North Carolina County in which the following federally recognized tribes have expressed an interest: : the Catawba Indian Nation, the Eastern Band of Cherokee Indians, the Cherokee Nation, the United Keetoowah Band of Cherokee Indians, and Muscogee (Creek) Nation. . We recommend that you ensure that this documentation is forwarded to these tribes using the process described in the current NCDOT Tribal Protocol and PA Procedures Manual.)

SUPPORT DOCUMENTATION

See attached: ☒ Map(s) ☐ Previous Survey Info ☒ Photos ☐ Correspondence

Other:

Signed:



NCDOT ARCHAEOLOGIST

12/18/2025

Date

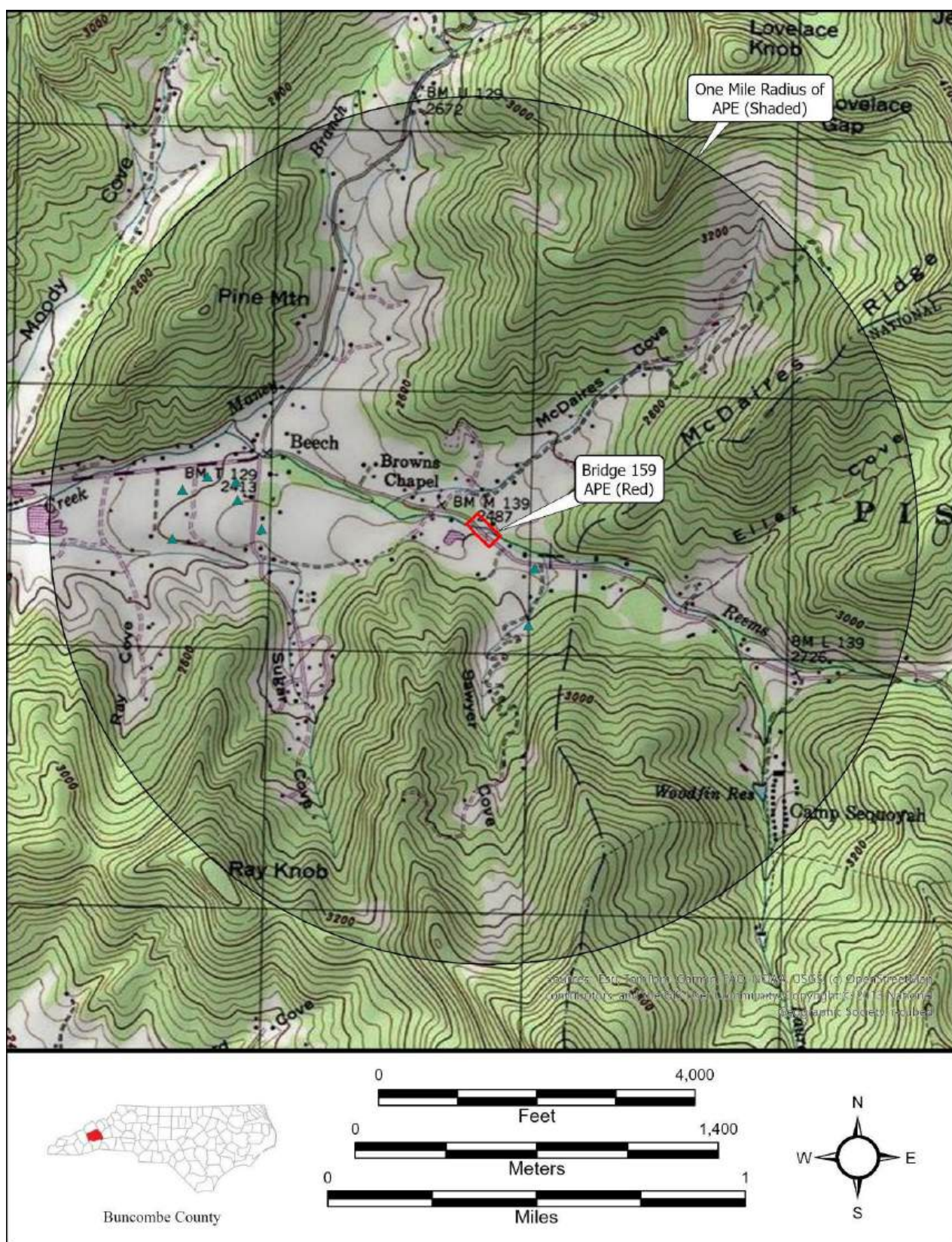


Figure 1. Topographic setting of the APE (Red) showing precontact archaeological sites (blue triangles) within one-mile, Craggy Pinnacle (2016), NC, USGS 7.5-minute Topographic Quadrangle.

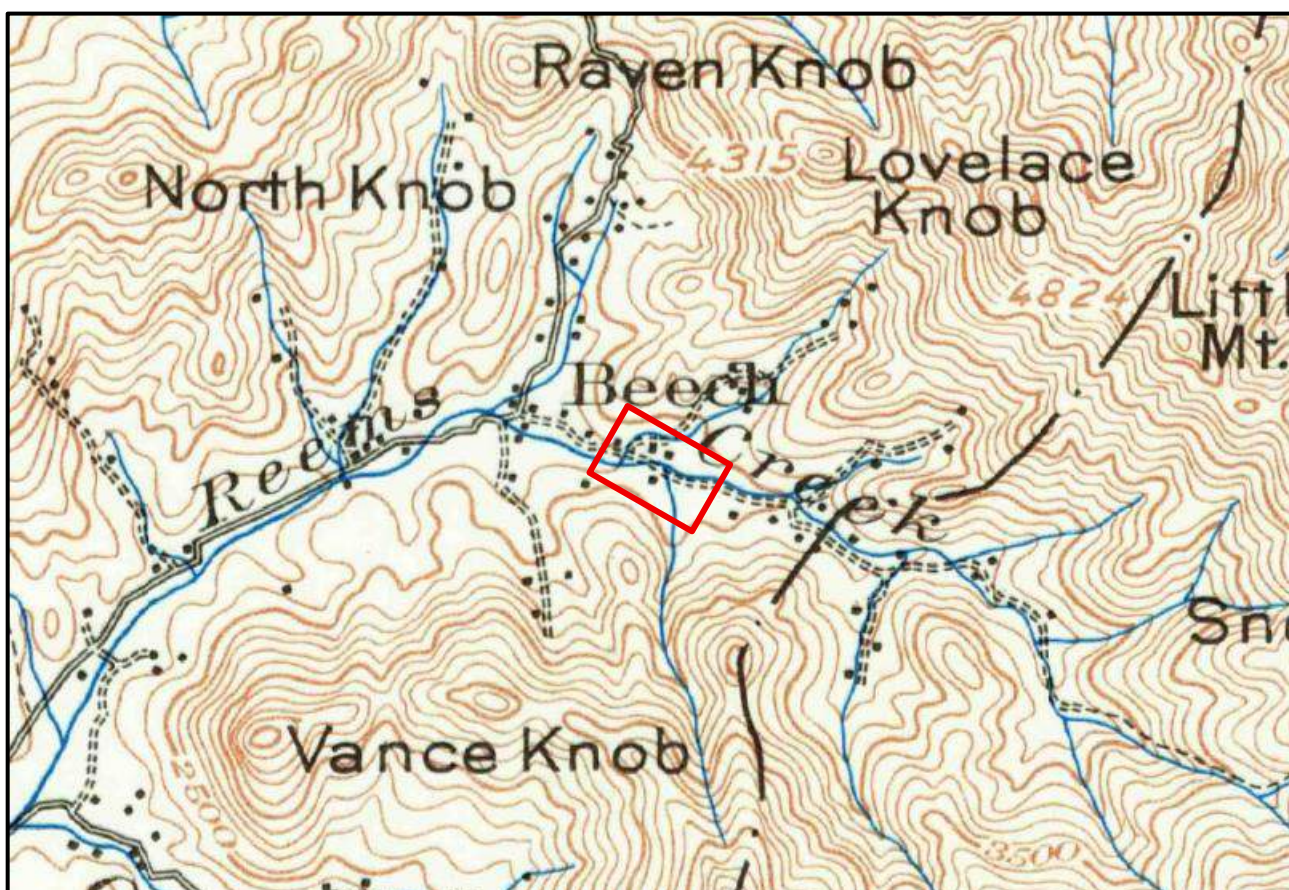


Figure 2: 1900 USGS Map of Mount Mitchell, NC-TN USGS 30-minute Topographic Quadrangle. Project APE is in red.

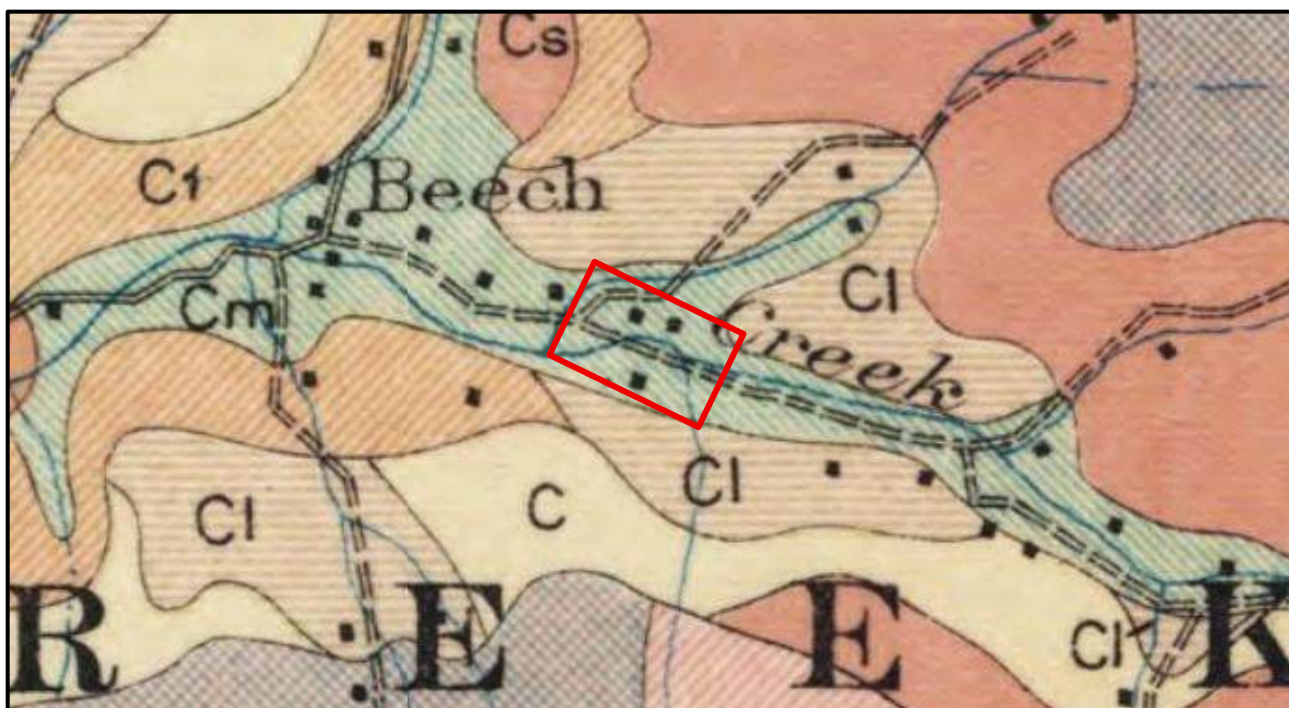


Figure 3. 1920 Soil Map of Buncombe County. Project APE is in red.

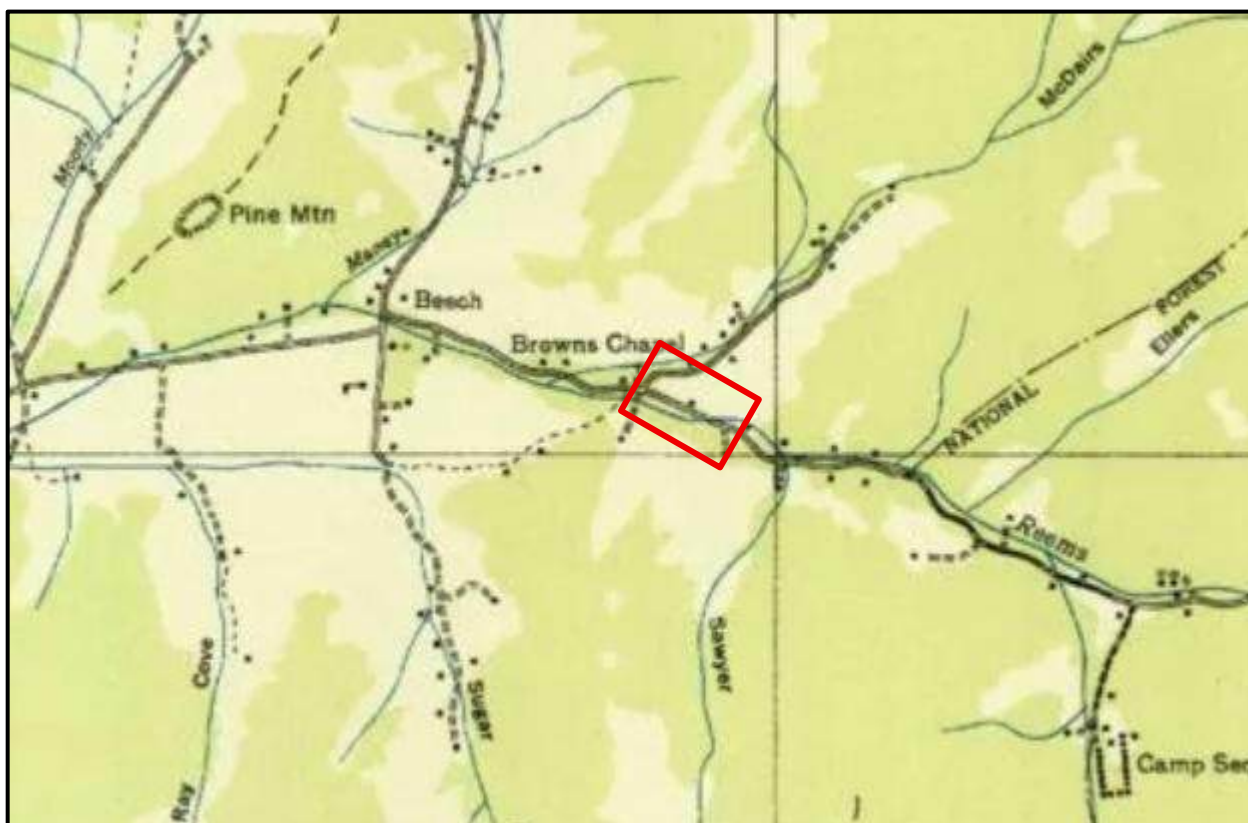


Figure 4. 1935 USGS Map of Craggy pinnacle, NC 7.5-minute Topographic Quadrangle. Project APE is in red.

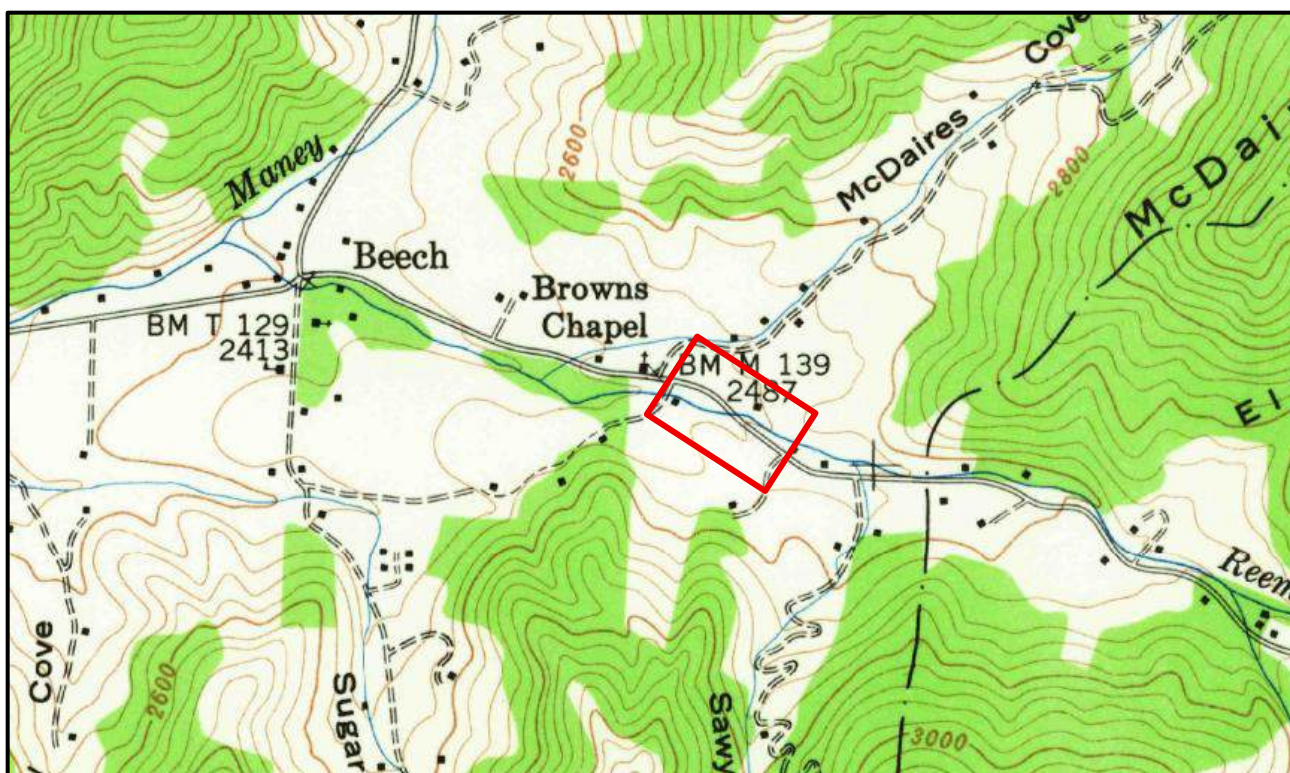


Figure 5. 1947 USGS Map of Craggy pinnacle, NC 7.5-minute Topographic Quadrangle. Project APE is in red.



Figure 6. Google Earth Imagery from April 28, 2025, showing scouring of floodplain after Hurricane Helene northeast, northwest and southeast of Bridge 159. Project APE is depicted in yellow.



Figure 7. Nearmap Imagery from January 28, 2025, showing scouring of floodplain after Hurricane Helene northeast, northwest and southeast of Bridge 159. Project APE is depicted in light blue.



Figure 8. Location of shovel tests and archaeological sites within Bridge No. 159 APE.



Figure 9. Bridge No. 159 project area facing southwest. Note push pile adjacent to Reems Creek and large scatter of cobbles on surface.



Figure 10. Bridge No. 159 project area facing southeast. Note Ollie Ballard Wheeler House (BN6899).



Figure 11. Bridge No. 159 project area facing east.



Figure 12: Bridge No. 159 project area facing east.



Figure 13: Bridge No. 159 project area and site 31BN1384 facing west.

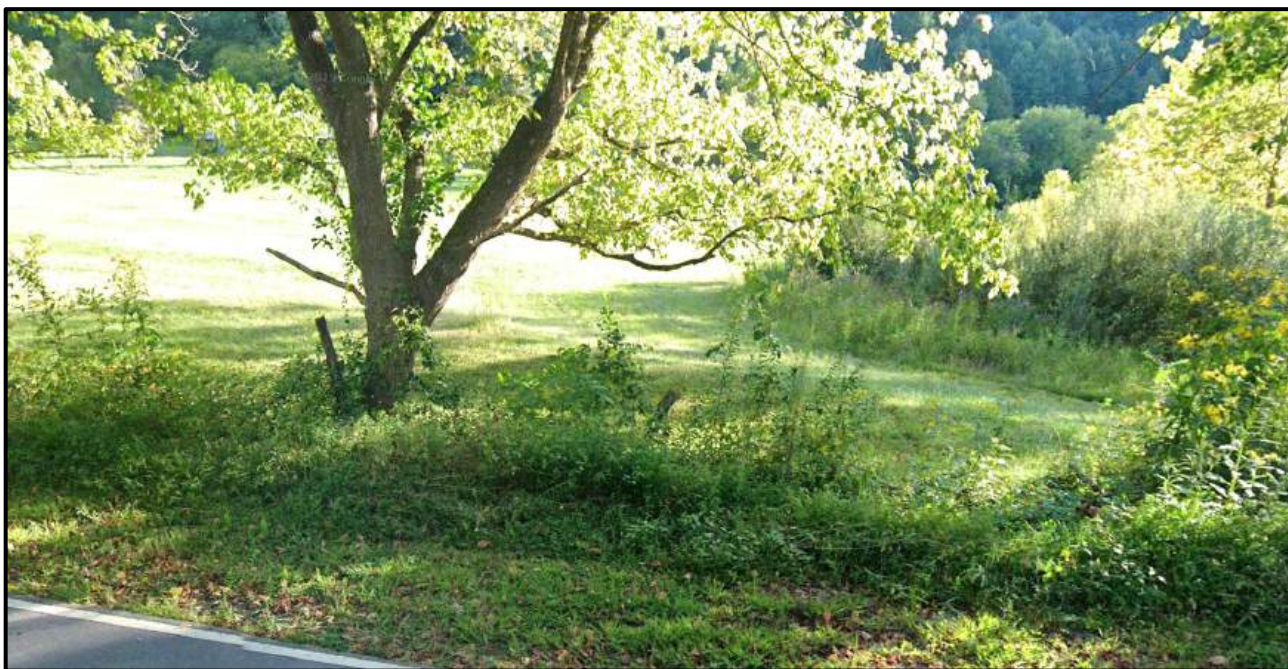


Figure 14: Bridge No. 159 project area and site 31BN1384 facing west facing southwest.



Figure 15: Shovel Test 1 at 31BN1384.



Figure 16: Shovel Test 3 at 31BN1384.



Figure 17: Exterior surface of pottery sherd recovered from 31BN1384.



Figure 18: Interior surface of pottery sherd recovered from 31BN1384.

Historic Architecture & Landscapes

25-07-0013



HISTORIC ARCHITECTURE AND LANDSCAPES NO HISTORIC PROPERTIES PRESENT 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:		County:	Buncombe
WBS No.:	DF18313.2011262.PR	Document Type:	FCE
Fed. Aid No:		Funding:	☐ State ☒ Federal
Federal Permit(s):	☒ Yes ☐ No	Permit Type(s):	USACE
<u>Project Description:</u> Replace Bridge No. 159 on (SR 2115) Blackberry Inn Rd over Reams Creek.			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

<u>Description of review activities, results, and conclusions:</u> On July 2, 2025 a search of NC HPOWEB GIS Service map reveals identifies one historic site in the Area of Potential Effects (APE) for this project. An architectural historian will need to conduct a Comprehensive Survey and Eligibility Evaluation. On November 18, 2025, a report was transmitted to HPO, recommending the Ollie Ballard Wheeler House (BN6899) not eligible for listing in the National Register of Historic Places (NRHP). In a letter dated December 17, 2025 HPO concurred with that finding. No Historic Properties are Present. <u>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:</u> HPOGIS and County Tax Data provide reliable information regarding structures in the APE. These combined utilities are considered valid for 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 HISTORIC PROPERTIES PRESENT

Shelby Reap

December 17, 2025

NCDOT Architectural Historian

Date



**North Carolina Department of Natural and Cultural Resources
State Historic Preservation Office**

Ramona M. Bartos, Administrator

Governor Josh Stein
Secretary Pamela B. Cashwell

Office of Archives and History
Deputy Secretary Darin J. Waters, Ph.D.

December 17, 2025

MEMORANDUM

TO: Shelby Reap slreap@ncdot.gov
Historic Architecture Group
NC Department of Transportation

FROM: Renee Gledhill-Earley 
Environmental Review Coordinator

SUBJECT: Historic Structure Report: DF18313.2011262: Replace Bridge No. 159 on
SR 2115 Blackberry Inn Rd) over the Reams Creek, Buncombe County,
WBS No. DF 18313.2011262, PA No. 25-07- 0013, ER 25-3713

Thank you for your November 18, 2025, memorandum transmitting the Historic Structures Survey Report (HSSR) for the above-referenced undertaking. We have reviewed the report, accepted it as final, and offer the following comments.

We concur that the Ollie Ballard Wheeler House (BN6899) is not eligible for listing in the National Register of Historic Places (NRHP) under any Criteria.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@dncr.nc.gov. In all future communication concerning this project, please cite the above referenced tracking number.

cc: Mary Pope Furr, NCDOT mpfurr@ncdot.gov

Tribal Coordination

From: Farrell, Christine E
Sent: Friday, July 11, 2025 9:59 AM
To: Turchy, Michael A
Subject: Fw: NCDOT Tropical Storm Helene - Bridge Replacements
Attachments: Tribal Coord Letter- Helene EDB_07092025.pdf

From: Farrell, Christine E <cefarrell@ncdot.gov>
Sent: Thursday, July 10, 2025 7:34:00 PM
To: elizabeth-toombs@cherokee.org <elizabeth-toombs@cherokee.org>; russtown@ebci-nsn.gov <russtown@ebci-nsn.gov>; lisa.ebci.thpo@gmail.com <lisa.ebci.thpo@gmail.com>; section106@muscogeenation.com <section106@muscogeenation.com>; rcain@ukb-nsn.gov <rcain@ukb-nsn.gov>; ukbthpo@ukb-nsn.gov <ukbthpo@ukb-nsn.gov>
Cc: Cox, Marissa R <mrcox2@ncdot.gov>; Wilkerson, Matt T <mtwilkerson@ncdot.gov>
Subject: NCDOT Tropical Storm Helene - Bridge Replacements

Dear Tribal Nations,
NCDOT is working to repair and replace bridges damaged by Tropical Storm Helene in Western North Carolina. A list of 25 bridges currently proposed for repair or replacement are attached for your review.

Sincerely,

Christine Farrell
Environmental Policy Unit
North Carolina Department of Transportation
(919) 707 - 6107
cefarrell@ncdot.gov



Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

Mr. Russell Townsend
Preservation Specialist
Eastern Band of Cherokee Indians (EBCI) THPO
2877 Governor's Island Road
Bryson City, NC 28713

Elizabeth Toombs
Tribal Historic Preservation Officer
PO BOX 948
Tahlequah, OK 74465

Muscogee (Creek) Nation
Section 106 Coordinator
PO BOX 580
Okmulgee OK 74447

Dr. Wenonah Haire
Catawba Indian Nation Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, SC 29730

Roger Cain
United Keetoowah Band of Cherokee Indians
Section 106 Coordinator
PO Box 746
Tahlequah, OK 74465

July 8, 2025

Dear Tribal Nations,

The North Carolina Department of Transportation is starting the project development, environmental, and engineering studies to replace 25 bridges across Western North Carolina that were damaged and/or destroyed during Tropical Storm Helene. The Federal Highway Administration (FHWA) is the lead federal agency for compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA) and a Permit is anticipated under the Section 404 Process with the USACE. A list of the projects with location information is attached.

We would appreciate any information you might have that would be helpful in evaluating potential environmental impacts of the project including recommendation of alternates to be studied. Your comments may be used in the preparation of a NEPA/ State Environmental Policy Act (SEPA) Environmental Document.

In accordance with Section 106 of the NHPA, we also request that you inform us of any historic properties of traditional religious or cultural importance that you are aware of that may be affected by the proposed project. Be assured that, in accordance with confidentiality and disclosure stipulations in Section 304 of the NHPA, we will maintain strict confidentiality about certain types of information regarding historic properties.

Please respond by August 8th so that your comments can be used in the scoping of this project. If you have any questions concerning this project, or would like any additional information, please contact me at cefarrell@ncdot.gov or (919) 707-6107.

Thank you,

Christine Farrell
NEPA Program Consultant

cc: Matt Wilkerson, NCDOT Archaeology Group Leader

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH, NC 27699-1598

Telephone: (919) 707-6000
Fax: (919) 250-4224
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27610

Helene Express Design Build Bridge Replacements

Western North Carolina - July 2025

Structure #	Structure Type	County	Latitude	Longitude	WBS #	Street Name
100115	Bridge	Buncombe	35.5321	-82.2585	DF18313.2011188	Sand Branch Road
100308	Bridge	Buncombe	35.6349	-82.4711	DF18313.2011271	Bull Creek Road
100380	Bridge	Buncombe	35.6079	-82.4195	DF18313.2011278	Davidson Road
580058	Culvert	McDowell	35.6701	-82.1147	DF18313.1059106	US 70
990157	Bridge	Yancey	35.9509	-82.4056	DF18313.2100309.PR	Elk Shoals Creek Road
990192	Bridge	Yancey	35.9747	-82.2702	DF18313.2100413.PR	Upper Pig Pen Road
990193	Bridge	Yancey	35.9755	-82.2706	DF18313.2100412.PR	Upper Pig Pen Road
990233	Bridge	Yancey	35.9829	-82.2701	DF18313.2100411.PR	Upper Pig Pen Road
100149	Bridge	Buncombe	35.755	-82.3858	DF18313.2011361.PR	Coleman Boundary Rd.
100199	Bridge	Buncombe	35.636	-82.3996	DF18313.2011267.PR	Summer Haven Rd.
100236	Bridge	Buncombe	35.6944	-82.4993	18313.1011132.PR	Ox Creek Rd.
100449	Pipe	Buncombe	35.6702	-82.7929	DF18313.2011391.PR	Sugar Creek Rd.
100463	Bridge	Buncombe	35.5639	-82.2712	DF18313.2011269.PR	Crooked Creek Rd.
580382	Non-NBIS pipe	McDowell	35.6905	-82.0847	DF18313.2059107.PR	Laurel Lane
600050	Bridge	Mitchell	36.017	-82.0856	DF18313.2061198.PR	Stagger Weed Rd.
800573	pipe-culvert	Rutherford	35.5257	-82.1693	DF18313.2081026.PR	Cedar Creek Rd.
990179	pipe	Yancey	35.9066	-82.2615	DF18313.2100590.PR	Lower Georges Fork Rd.
990188	Bridge	Yancey	35.994	-82.2894	18313.1100052.PR	Smith Johnson Rd.
100159	Bridge	Buncombe	35.7092	-82.461	DF18313.2011262.PR	Blackberry Inn Rd.
100846	Bridge	Buncombe	35.5693	-82.2955	DF18313.2011105.PR	Chestnut Hill Rd.
800572	Bridge	Rutherford	35.5102	-82.172	DF18313.2081051.PR	Cedar Creek Road
600087	Bridge	Mitchell	36.1158	-82.1869	DF18313.2061363.PR	Hughes Gap Rd.
600156	Bridge	Mitchell	36.0803	-82.2253	DF18313.2061559.PR	Beans Creek Rd.
100424	Bridge	Buncombe	35.5447	-82.3117	DF18313.2011444.PR	Flat Creek Road
580090	Bridge	McDowell	35.6546	-82.2456	DF18313.2059015.PR	Mill Creek Road

NEPA Document

Type I or II Categorical Exclusion Action Classification Form

STIP Project No.	Bridge 159 (100159), Buncombe County, Division 13
WBS Element	DF18313.2011262.PR
Federal Project No.	Federal Aid Number

A. Project Description:

The North Carolina Department of Transportation (NCDOT) intends to replace Bridge 100159 over Reems Creek on Blackberry Inn Road in Buncombe County, North Carolina (Division 13). [See vicinity map.](#)

B. Description of Need and Purpose:

The Purpose of the project is to replace a structure damaged by floodwaters associated with Tropical Storm Helene which made landfall in Florida on September 26, 2024. The repair/replacement work is needed to restore essential traffic in Western North Carolina.

C. Categorical Exclusion Action Classification:

Type I(A) - Ground Disturbing Action

D. Proposed Improvements:

9. The following actions for transportation facilities damaged by an incident resulting in an emergency declared by the Governor of the State and concurred in by the Secretary, or a disaster or emergency declared by the President pursuant to the Robert T. Stafford Act (42 U.S.C. 5121):

a) Emergency repairs under 23 U.S.C. 125; and

b) The repair, reconstruction, restoration, retrofitting, or replacement of any road, highway, bridge, tunnel, or transit facility (such as a ferry dock or bus transfer station), including ancillary transportation facilities (such as pedestrian/bicycle paths and bike lanes), that is in operation or under construction when damaged and the action:

i) Occurs within the existing right-of-way and in a manner that substantially conforms to the preexisting design, function, and location as the original (which may include upgrades to meet existing codes and standards as well as upgrades warranted to address conditions that have changed since the original construction); and

ii) Is commenced within a 2-year period beginning on the date of the declaration.

and/or

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:

NCDOT conducted a desktop GIS analysis for potential natural and human environment features between November 2024 and May 2025. The study area was defined as a 200-foot buffer around the bridge location. NCDOT is utilizing an Emergency Express Design-Build contracting process to expedite this process. If additional ROW is required, or if the final design results in potential impacts outside of the study area, NCDOT will re-evaluate and document any additional effects.

NCDOT is providing comprehensive public outreach to our western NC communities in lieu of site-specific outreach. As site-specific information becomes available, NCDOT will use its various outreach platforms to inform the public.

In August 2025 a Direct and Indirect Screening Tool ([see project site](#)) was used to assess potential impacts to the local community, farm lands, and pedestrian accommodations. If additional right-of-way becomes necessary, the NCDOT Project Manager should coordinate completion of the Preliminary Screening of Farmland Conversion Impacts and if warranted, submission of the NRCS farmland conversion form to NRCS for further evaluation.

The parcel in the northeast bridge quadrant is a Voluntary Agricultural District (VAD) property. If right-of-way will need to be acquired from the VAD property through eminent domain, additional consultation will be required. The Buncombe County Voluntary Agricultural District Ordinance requires that the Buncombe County Agricultural Advisory Board hold a public hearing on the proposed condemnation before condemnation may be initiated. Any VAD lands converted to non-agricultural use as part of a temporary construction easement must be returned to farmable condition by the project's completion.

NCDOT conducted a review of the potential cultural resources present within the study area boundary in July 2025. Preliminary review determined surveys were required for both potential historic architecture and archaeological sites. Archaeological survey work was completed in October 2025 and resulted in the identification of one site, 31BN1384, which has the potential to extend beyond the boundaries of the current area of potential effect (APE) and thus was recommended to remain as unassessed. Should the APE be increased beyond that of the 2025 study area, additional review and investigation will be required. It is expected that artifacts from 31BN26 will be encountered during construction. Should an *unanticipated* archaeological resource, including human remains, be encountered during construction all work in the surrounding area will stop and a NCDOT archaeologist will be notified. A "No National Register of Historic Places Eligible or Listed Archaeological Sites Present" form was issued on December 18, 2025 ([see project site](#)).

A historic architecture survey was completed in November 2025 to evaluate the Ollie Ballard House (BN6899) for listing in the National Register of Historic Places. NCDOT recommended the property as ineligible in a November 18, 2025 letter to the State Historic Preservation Office (SHPO). Following SHPO's December 17, 2025 concurrence, NCDOT issued a "No Historic Properties Present" form ([see project site](#)).

Coordination letters/emails were sent to the Eastern Band of Cherokee, Catawba Indian Nation, United Keetoowah Band of Cherokee Indians, and the Muscogee (Creek) Nation, on July 10, 2025 ([see project site](#)) with request for comment by August 8, 2025. No response has been received as of the date of this document.

The United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) tool was reviewed between May and July 2025. USFWS lists the following species below as federally protected with potential to be found within the project study area as of this date:

Species Name	Scientific Name	ESA Status	Biological Conclusion	Habitat Present
Gray bat	<i>Myotis grisescens</i>	Endangered	No Effect	No
Northern Long-eared bat	<i>Myotis septentrionalis</i>	Endangered	No Effect	No
Tricolored bat	<i>Perimyotis subflavus</i>	Proposed Endangered	No Effect	No
Monarch Butterfly	<i>Danaus plexippus</i>	Proposed Threatened	N/A	Unknown
Eastern Hellbender	<i>Cryptobranchus alleganiensis</i>	Proposed Endangered	N/A	Unknown

A “Batched Format Consultation” was completed by NCDOT Biological Surveys Group in May 2025 to address multiple crossing structures damaged by Tropical Storm Helene in Buncombe, McDowell, Mitchell, Rutherford, and Yancey Counties. The USFWS confirmed the biological conclusions for listed species in July 2025 ([see project site](#)) by issuing either a Biological Opinion, Conference Opinion or Informal Concurrence.

The U.S. Fish and Wildlife Service (USFWS) proposed to list the monarch butterfly as a threatened species under the Endangered Species Act (ESA) in December 2024. However, as of December 2025 the final decision has been delayed, and the status has been moved to "long-term action," meaning no final ruling is expected for at least another year. No regulatory protections will take effect until the listing is finalized. Until that time, proposed species do not receive formal ESA protections, though federal action agencies are still required to ensure that their actions do not jeopardize the continued existence of the species. Action agencies may initiate consultation with the USFWS to obtain a conference opinion. If and when the listing is finalized, and at the agency’s request, the Service may adopt the conference opinion as a biological opinion—provided no relevant new information has emerged and no substantial changes to the proposed action have occurred.

The Eastern Hellbender was proposed for federal listing under the Endangered Species Act (ESA) in December 2024. However, no regulatory protections will take effect until the listing is finalized, which is anticipated in late 2025 or early 2026. Until that time, proposed species do not receive formal Endangered Species Act (ESA) protections. However, federal action agencies are still required to ensure that their actions do not jeopardize the continued existence of the species. Federal action agencies may initiate consultation with the U.S. Fish and Wildlife Service (USFWS) to obtain a conference opinion. If and when the listing is finalized, and at the agency’s request, the Service may adopt the conference opinion as a biological opinion—provided no relevant new information has emerged and no substantial changes to the proposed action have occurred.

F. Project Impact Criteria Checklist:

F2. Ground Disturbing Actions – Type I (Appendix A) & Type II (Appendix B)				
For proposed improvement(s) that fit Type I Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix A) including 2, 3, 6, 7, 9, 12, 18, 21, 22, 23, 24, 25, 26, 27, 28, &/or 30; &/or Type II Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix B), answer the project impact threshold questions (below) and questions 8–31. - If any question 1-7 is checked “Yes” then NCDOT certification for FHWA approval is required. - If any question 1-30 is checked “Yes” then additional information will be required for those questions in Section G. <i>Source documents should be cited for each question as appropriate. If no source is needed or available, denote as “n/a”. Please note that some “no” answers should have a corresponding email/memo/report cited for that NCDOT discipline. Project reports or memos/emails should be linked to their location on the project’s Precon site; other publications (e.g. the STIP) can be linked directly. Example: (Source: NCDOT HE-0001 NRTR [HE-0001 NRTR.pdf, 2022])</i>				
PROJECT IMPACT THRESHOLDS (FHWA signature required if any of the questions 1-7 are marked “Yes.”)			Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS) in which a “likely to adversely affect determination” has been made? (Source: NCDOT “Batched Format Consultation” with FWS, 2025)	☐	☒	
2	Does the project result in effects subject to the conditions of the Bald and Golden Eagle Protection Act (BGEPA)? (Source: NCDOT BSG Review, 2025)	☐	☒	
3	Does the project generate substantial controversy or public opposition, regarding human and/or natural environment concerns, following appropriate public involvement? (Source: DIST, 2025)	☐	☒	
4		☐	☐	
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?	☐	☒	
6	Does the project require an Individual Section 4(f) approval? (Source: EPU GIS Screening, 2025)	☐	☒	
7	Does the project result in adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or result in an adverse effect on a National Historic Landmark (NHL)? (Source: NCDOT Cultural Resources review, 2025)	☐	☒	
Other Considerations			Yes	No
8	Is an Endangered Species Act (ESA) determination unresolved or resolved utilizing a Section 7 programmatic agreement? Include in Section G any utilization of a Section 7 Programmatic Agreement. (Source: NCDOT BSG Review, 2025)	☐	☒	
9	Is the project located in anadromous fish spawning waters? (Source: EPU GIS Screening, 2025)	☐	☒	
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)? (Source: EPU GIS Screening, 2025)	☐	☒	
11	Does the project impact waters of the United States in any of the designated mountain trout streams? (Source: EPU GIS Screening, 2025)	☒	☐	

12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit? (Source: EPU GIS Screening, 2025)	☐	☒
13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility? (Source: EPU GIS Screening, 2025)	☐	☒
14	Does the project include a Section 106 of the National Historic Preservation Act (NHPA) effects findings other than a No Effect, including archaeological remains? No matter the effect finding, list any commitments (conditions) in Section I made in association with the effect finding detailed in Section G. (Source: NCDOT Cultural Resources review, 2025)	☐	☒
15	Does the project involve GeoEnvironmental Sites of Concerns such as gas stations, dry cleaners, landfills, etc.?	☐	☒
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? (Source: ATLAS Screening, 2025)	☒	☐
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)? (Source: EPU GIS Screening, 2025)	☐	☒
18	Does the project require a U.S. Coast Guard (USCG) permit? (Source: EPU GIS Screening, 2025)	☐	☒
19	Does the project involve Coastal Barrier Resources Act (CBRA) resources? (Source: EPU GIS Screening, 2025)	☐	☒
20	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River? (Source: EPU GIS Screening, 2025)	☐	☒
21	Does the project impact federal lands (e.g., U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands? (Source: EPU GIS Screening, 2025)	☐	☒
22	Does the project involve any changes in access control to the interstate (modification or construction of an interchange)?	☐	☒
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness? (Source: DIST, 2025)	☐	☒
24	Will maintenance of traffic or detours cause substantial disruption?	☐	☒
25	Is the project inconsistent with the NCDOT's federally approved 4-year STIP or NCDOT's BMIP, and where applicable, the Metropolitan Planning Organization's (MPO) Transportation Improvement Program (TIP)? (Source: Emergency Response project, not in STIP)	☒	☐
26	Does the project require the acquisition of lands under the protection of the Land and Water Conservation Fund, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), Tribal Lands, Dedicated Nature Preserves, 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? (Source: ATLAS Screening, 2025)	☐	☒
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)? (Source: ATLAS Screening, 2025)	☐	☒
28	Does the project "use" Section 4(f) property, and/or result in a <i>de minimis</i> determination? (Source: DIST, 2025)	☐	☒
29	Is the project considered a Type I under the NCDOT Noise Policy? (Source: NA-replace-in-kind)	☐	☒
30	Does the project impact VAD-enrolled property, or prime or important farmland soil, as defined by the Farmland Protection Policy Act (FPPA)? (Source: DIST, 2025)	☐	☒

G. Additional documentation as required from Section F; documentation should address the context and intensity (or severity) of the impact. (Required for all questions marked 'Yes.')

11. Reems Creek is a designated trout water per NCDWR Surfacewater Classification system. If a USACE 404 permit is required for this project, it may include requirements related to trout moratoriums. In their comments of June 30, 2025 ([see project site](#)), NCWRC acknowledges that the trout moratorium for October 15 to April 15th, 2026, has been waived for work at this site but that subsequent moratoria periods should apply.

16. This project involves construction activities on or adjacent to FEMA-regulated stream(s) and needs to comply with the Disaster Specific Guidance (DSG) on the Repair/Replacement of Publicly Owned Roads and Bridges in Special Flood Hazard Areas (SFHAs) for the Ongoing Tropical Storm Helene Recovery. Therefore, the Division shall: (1) construct all vertical and horizontal elements within the floodplain as designed; and (2) consult with the Hydraulics Unit of any planned deviation of these elements within the floodplain prior to commencing any such changes; and (3) submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction; and (4) submit post-construction Hydraulic modeling and SFC package to the Hydraulics Unit upon completion of project construction.

25. This project is an emergency relief project due to Tropical Storm Helene impacts. Per 40 CFR § 93.126, it is exempt from the requirement to determine conformity because it does not involve substantial functional, locational or capacity changes (23 CFR 450.218(g)).

H. Categorical Exclusion Approval:

STIP Project No.	Bridge 159 (100159), Buncombe County, Division 13
WBS Element	DF18313.2011262.PR
Federal Project No.	Federal Aid Number

Prepared By:

03/12/2026

Date

Signed by:

C5D40DDBAC76416...

Katie Harville, NEPA Program Consultant
Environmental Policy Unit, NCDOT

Prepared For:

NCDOT Division 13

Reviewed By:

03/12/2026

Date

Signed by:

78BFB0F950D342E...

Marissa Cox, Western Regional Team Lead
North Carolina Department of Transportation



Approved

- If NO grey boxes are checked in Section F, NCDOT approves the Type I or Type II Categorical Exclusion.

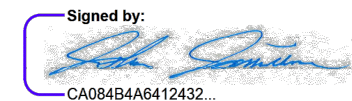


Certified

- If ANY grey boxes are checked in Section F, NCDOT certifies the Type I or Type II Categorical Exclusion for FHWA approval.

03/12/2026

Date

Signed by:

CA084B4A6412432...

John Jamison, Environmental Policy Unit Manager
North Carolina Department of Transportation

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

Date

for Yolonda K. Jordan, Division Administrator
Federal Highway Administration

Note: Prior to ROW or Construction authorization, a [consultation](#) may be required (please see Section VIII of the NCDOT-FHWA CE Programmatic Agreement for more details). Upload final documentation to ATLAS workbench and add commitments to the green sheet and Commitments dashboard.

PROJECT COMMITMENTS

**REPLACE BRIDGE 159 (100159) ON SR2115 BLACKBERRY INN ROAD OVER REEMS CREEK
(PERM)**

**County: Buncombe
WBS: DF18313.2011262.PR**

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

Project Management (PMU/SMU/Division) - ARCHAEOLOGY - ADDITIONAL SCREENING

Additional review and investigation is required if area of potential effect (APE) increases beyond the scope of the 2025 archaeological review. NCDOT Project Manager must review DRPS as soon as they are available, compare the plans and determine if additional consultation with NCDOT Archaeology is needed.

Project Management (PMU/SMU/Division), Division Environmental Staff, Construction Office - ARCHAEOLOGY - UNANTICIPATED DISCOVERIES

Artifacts from 31BN1384 will be observed during construction. Should unanticipated archaeological resources, including human remains, be encountered during construction, all work in the surrounding area will stop and a NCDOT archaeologist will be notified.

Project Management (PMU/SMU/Division), Hydraulics - CONSTRUCTION IN FEMA FLOODPLAIN

This project involves construction activities in or adjacent to FEMA-regulated stream(s) and needs to comply with the Disaster Specific Guidance (DSG) on the Repair/Replacement of Publicly Owned Roads and Bridges in Special Flood Hazard Areas (SFHAs) for the Ongoing Tropical Storm Helene Recovery. Therefore, the Division shall: (1) construct all vertical and horizontal elements within the floodplain as designed; and (2) consult with the Hydraulics Unit of any planned deviation of these elements within the floodplain prior to commencing any such changes; and (3) submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction; and (4) submit post-construction Hydraulic modeling and SFC package to the Hydraulics Unit upon completion of project construction.

Project Management (PMU/SMU/Division), Division Environmental Staff - CONSULTATION FOR PROPOSED FEDERALLY LISTED SPECIES - EASTERN HELLBENDER

The Eastern Hellbender was proposed for federal listing under the Endangered Species Act (ESA) in December 2024. However, no regulatory protections will take effect until the listing is finalized, which is anticipated in late 2025 or early 2026. Until that time, proposed species do not receive formal Endangered Species Act (ESA) protections. However, federal action agencies are still required to ensure that their actions do not jeopardize the continued existence of the species. Federal action agencies may initiate consultation with the U.S. Fish and Wildlife Service (USFWS) to obtain a conference opinion. If and when the listing is finalized, and at the agency's request, the Service may adopt the conference opinion as a biological opinion—provided no relevant new information has emerged and no substantial changes to the proposed action have occurred.

NCDOT Construction or Division Environmental Offices may voluntarily coordinate with the North Carolina Wildlife Resources Commission (NCWRC) to assess and potentially relocate hellbenders from project sites in western North Carolina. It is recommended that they contact the NCWRC liaison, David McHenry (david.mchenry@ncwildlife.org) at least two months before construction begins.

Project Management (PMU/SMU/Division), EAU - PICSviz - PRIME FARMLAND

Should any additional ROW or permanent easements be needed after design is available, the NCDOT Project Manager should coordinate completion of the Preliminary Screening of Farmland Conversion Impacts with Community Studies and if warranted, submission of the NRCS farmland conversion form to NRCS for further evaluation.

EAU - ECAP, Division Environmental Staff - TROUT WATERS (NCWRC-DESIGNATED)

Reems Creek is a designated trout water per NCDWR Surfacewater Classification system. If a USACE 404 permit is required for this project, it may include requirements related to trout moratoriums. In their comments of June 30, 2025 (see project site), NCWRC acknowledges that the trout moratorium for October 15 to April 15th, 2026, has been waived for work at this site but that subsequent moratoria periods should apply.

Project Management (PMU/SMU/Division), EAU - PICSviz - VOLUNTARY AGRICULTURAL DISTRICT (VAD)

The project may impact VAD properties. If right of way will be acquired from VAD properties through eminent domain, the Buncombe County VAD Ordinance requires the Buncombe County Agricultural Advisory Board hold a public hearing concerning the proposed condemnation before condemnation may be initiated. Any VAD lands converted to non-agricultural use as part of a temporary construction easement must be returned to farmable condition by project completion. If any VAD property holders refuse settlement, the NCDOT Right of Way Branch must contact the Public Involvement, Community Studies and Visualization (PICSviz) Group as well as the NCDOT Project Manager to pursue a public hearing, before pursuing condemnation.

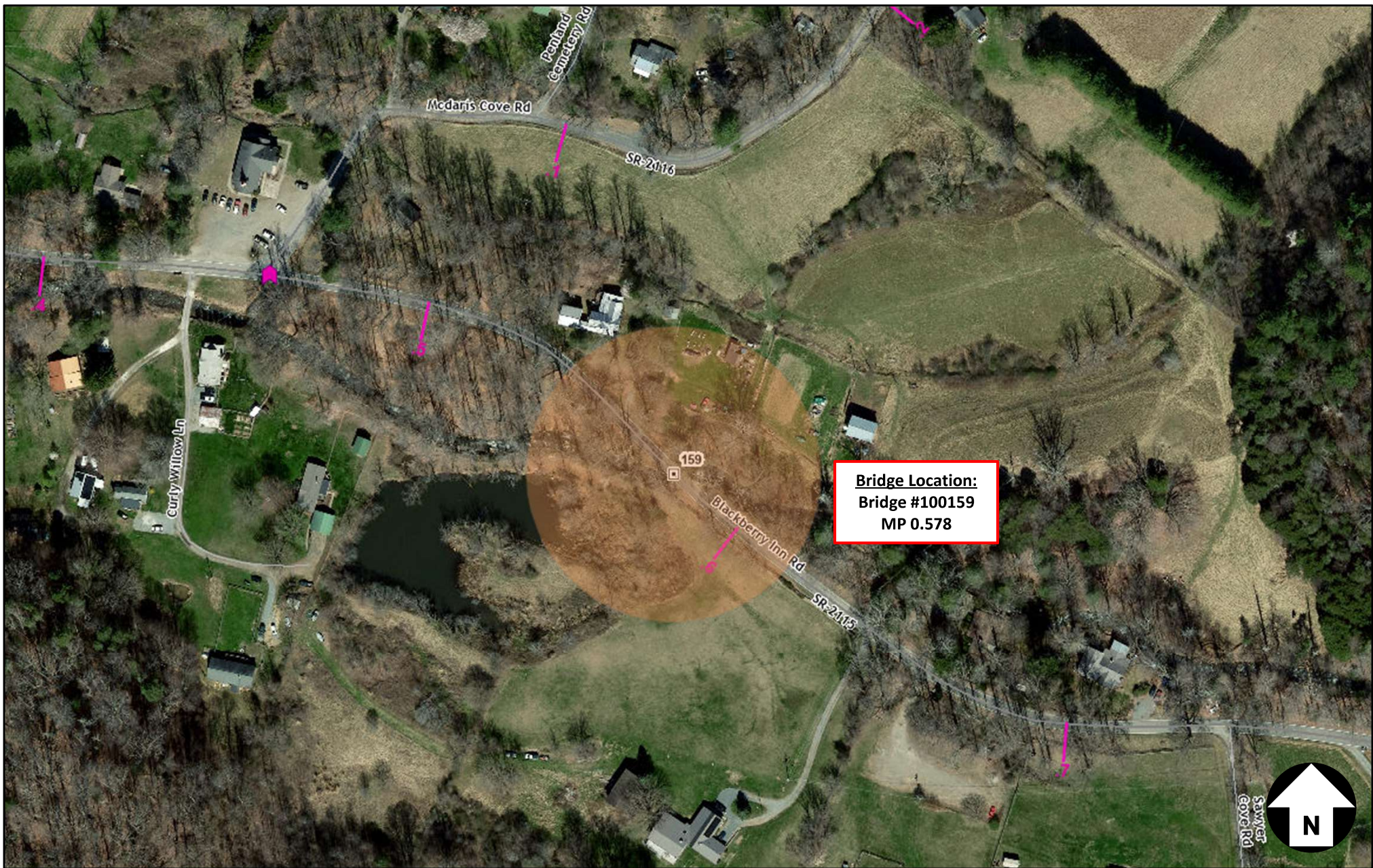
COMMITMENTS FROM PERMITTING

No permitting commitments developed to date.

*******END OF PROJECT COMMITMENTS*******

DF18313.2011262.PR

**REPLACE BRIDGE 159 (100159) ON SR2115 BLACKBERRY INN RD OVER REEMS CREEK (PERM)
Last Modified Date: 03/12/2026**



Bridge Number	Division	County	Location Description	Latitude	Longitude
100159	13	Buncombe	SR 2115 (Blackberry Inn Rd) in the vicinity of Bridge #100159	35.709233	-82.461015



HNTB North Carolina, P.C.
 4000 Center at North Hills Street Suite 500
 Raleigh, North Carolina 27609