



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

September 1, 2026

MEMORANDUM TO: Division Environmental and Construction Units

FROM:  Michael A. Turchy, ECAP Group Leader
Environmental Analysis Unit

SUBJECT: Environmental Permits for the Replacement of:
Rutherford Bridge 572 over Taylor Creek on SR 1312 (Cedar Creek Road)
Division 13, WBS DF18313.2081051.PR.

Please find enclosed the following permits for this project:

Agency	Permit Type	Expiration
US Army Corps of Engineers Section 404 Clean Water Act Permit	Nationwide Permit 3 Action ID: SAW-2026-01394 Dated September 1, 2026	March 14, 2031
NC Division of Water Resources Section 401 Water Quality Certification	General Certification No. 8562 [3] Project ID: 20261009v1 <i>Written authorization not required.</i>	expires with above Permit

Work is authorized by the above-referenced documents and must be accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group (ECAP) or the Division Environmental Office must be consulted if any deviation from the permit(s) or accompanying drawings is required.

404 Permit (USACE)



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

September 1, 2026

Regulatory Division
SAW-2026-01394

North Carolina Department of Transportation
Attn: Mr. Michael A. Turchy
Environmental Coordination and Permitting Group Leader
1598 Mail Service Center
Raleigh, North Carolina 27699-1598
Sent Via Email: maturchy@ncdot.gov

Dear Mr. Turchy,

This letter is in response to the application you submitted to the U.S. Army Corps of Engineers (USACE), Wilmington District, WRDA/Transportation Branch on August 3, 2026, for a Department of the Army general permit verification to replace a bridge that was damaged by **Hurricane Helene**. This project will replace **Bridge No.572** over Taylor Creek on SR 1312 in Rutherford County, North Carolina (35.5102, -82.1720) and has been assigned file number SAW-2026-01394. In order to perform this work, NCDOT proposes to conduct the following activities in waters of the U.S.:

Summary of Proposed Impacts

Impact ID #	NWP / GP #	Open Water (ac)		Wetland (ac)		Stream (lf)	
		Temporary	Permanent	Temporary	Permanent	Temporary	Permanent
Site 1 (Taylor Creek)	<u>NWP 3</u>					53' (161 sq ft) / dewater	47' (12 sq ft) / bank stabilization
Impact Totals		0	0	0	0	53' (161 sq ft) / dewater	47' (12 sq ft) / bank stabilization
Total Loss of waters of the U.S. (wetlands and/or open waters)		0		Total Loss of waters of the U.S.		0	

We have reviewed the proposed activities in waters of the U.S. and have determined that these activities are authorized by Nationwide Permit (NWP) 3 pursuant to authorities under Section 404 of the Clean Water Act (33 U.S.C § 1344). The proposed work must be accomplished in strict accordance with the following:

- enclosed terms, general conditions, and regional conditions of NWP 3
- special conditions of the verification letter (see below)
- information in the PCN and attachments
- enclosed plans

If the extent of the project area and/or nature of the authorized impacts to waters are modified, a request detailing the proposed changes must be submitted to this office for written approval before work is initiated. Any deviation from the terms and conditions of the permit, the special conditions of this letter, the information contained in the PCN, or your submitted plans, may subject the permittee to enforcement action.

This verification is valid until **March 14, 2031**, unless the subject NWP is suspended, revoked, or is modified prior to that date such that the activity no longer complies with the terms and conditions of the NWP.

Project Specific Special Conditions:

1. This verification letter does not authorize you to take a federally listed species. In order to legally take a federally listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g., an ESA Section 10 permit, or a Biological Opinion (BO) under ESA Section 7, with “incidental take” provisions with which you must comply). The U.S. Fish and Wildlife Service (USFWS) issued a document titled, “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” on July 21, 2025. This document contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with incidental take for this project. Your authorization under this verification letter and NWP 3 is conditional upon your compliance with the mandatory terms and conditions associated with incidental take listed in this document for this project. Failure to comply with the terms and conditions associated with incidental take detailed in this document, where a take of a federally listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your verification letter and NWP 3. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its Opinion and with the ESA.

2. The permittee shall require its contractors and/or agents to comply with the terms and conditions of this authorization letter in the construction and maintenance of this project and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this authorization letter, all conditions, and any authorized modifications. A copy of this authorization letter, all conditions, and any authorized modifications, shall be available at the project site during construction and maintenance of this project.

This general permit verification and any associated authorizations do not preclude the necessity to obtain any other Federal, State, or local permits, licenses, and/or certifications, which may be required.

If you have any questions related to this verification or have issues accessing documents referenced in this letter, please contact Lori Beckwith, Regulatory Project Manager of the WRDA/Transportation Branch by email at loretta.a.beckwith@usace.army.mil. Please take a moment to complete our customer satisfaction survey located at <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Sincerely,

A handwritten signature in black ink that reads "M. Scott Jones". The signature is written in a cursive, flowing style.

M. Scott Jones, PWS
WRDA / Transportation Branch Chief
USACE, Wilmington District

Enclosures

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.

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.

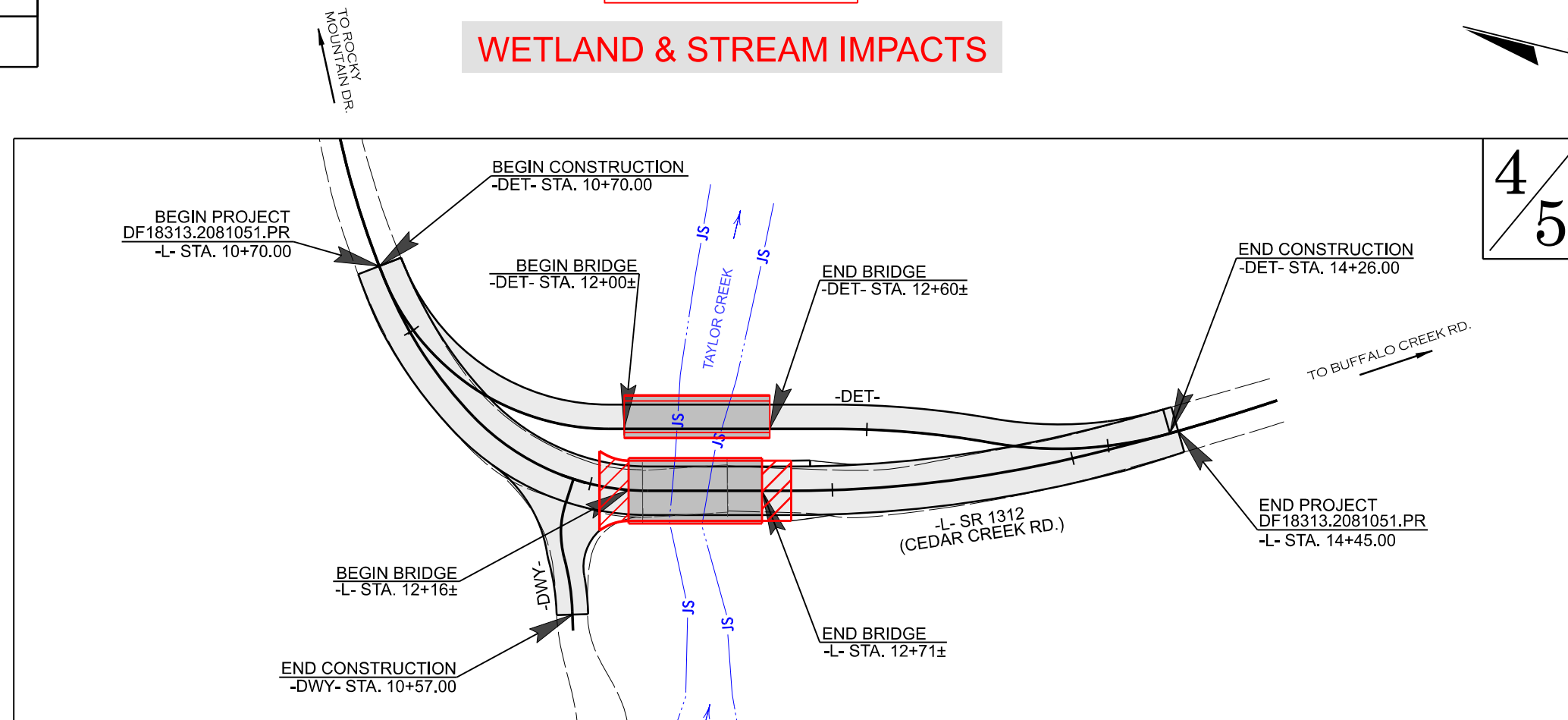
9. Reinitiation Notice

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

U.S. Army Corps of Engineers (USACE) CERTIFICATION OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act; the proponent agency is CECW-COR.		Form Approved - OMB No. 0710-0003 Expires 2027-10-31
The Agency Disclosure Notice (ADN)		
The Public reporting burden for this collection of information, 0710-0003, is estimated to average 10 minutes per response, including 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.		
PURPOSE: This form is used by recipients of U.S. Army Corps of Engineer Regulatory permits to certify compliance with the permit terms and conditions. Your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.		
Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the U.S. Army Corps of Engineers, Wilmington District, Regulatory Office. The certification can be submitted by email at loretta.a.beckwith@usace.army.mil or by mail at the below address: U.S. Army Corps of Engineers, Wilmington District Asheville Field Office Street Address: 151 Patton Avenue, Room 208 Asheville, North Carolina 28801-5006		
Corps Action Number: SAW-2026-01394 Permit Type: General Permit General Permit Number and Name (if applicable): NWP 3 Name of Permittee: NCDOT, Division of Highways Project Name: NCDOT Hurricane Helene/DF18313.2081051.PR/Br 572/SR 131 /Rutherford/Div 13 Project Location (physical address): Bridge 572 over Taylor Creek on SR 1342 Rutherford Co. NC		
PERMITTEE'S CERTIFICATION		
Date Work Started: Date Work Completed: Enclose photographs showing the completed project (if available). I _____ hereby certify that the work authorized by the above referenced permit has been completed in accordance with all of the permit terms and conditions, and that any required compensatory mitigation has been completed in accordance with the permit conditions.		
Name	Date	Signature

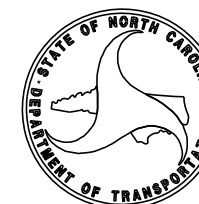
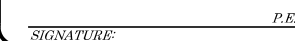
VICINITY MAP (NTS)

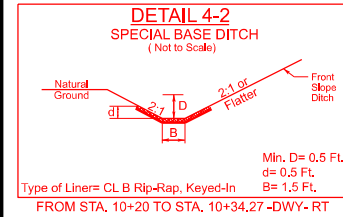
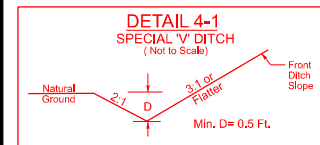
WETLAND & STREAM IMPACTS



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED





CUR DATA -L- Plc 10+39.34	CUR DATA -L- Plc 11+11.51	CUR DATA -L- Plc 11+86.20	CUR DATA -L- Plc 13+41.81	CUR DATA -L- Plc 14+43.89
$\Delta c = 12^{\circ}18'17.1''$ (LT)	$\Delta c = 21^{\circ}26'17.9''$ (LT)	$\Delta c = 45^{\circ}53'14.0''$ (LT)	$\Delta c = 13^{\circ}07'08.8''$ (LT)	$\Delta c = 05^{\circ}25'35.5''$ (LT)
D = 15°41'50.9"	D = 32°44'25.6"	D = 57°17'44.8"	D = 11°12'44.9"	D = 06°11'38.9"
Lc = 78.39	Lc = 65.48	Lc = 80.09	Lc = 117.00	Lc = 87.61
Tc = 39.34	Tc = 33.13	Tc = 42.33	Tc = 58.76	Tc = 43.84
R = 365	R = 175	R = 100	R = 511	R = 925
SE = Exist.	SE = 0.06	SE = 0.06	SE = 0.04	SE = Exist.
RO = N/A	RO = 84'	RO = 84'	RO = 56'	RO = N/A
	DS = 25 MPH	DS = 20 MPH	DS = 25 MPH	



DF18313.2081051.PR

RDY 004

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY



ROADWAY DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

HYDRAULIC DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



NC FIRM LICENSE No: C-5176
1000 Social St., Suite 800
Raleigh, NC 27609
(919) 732-3883
(919) 732-6676 (FAX)

CUR DATA -DWY- Plc 10+22.21	CUR DATA -DWY- Plc 10+44.65
$\Delta c = 32^{\circ}54'44.3''$ (LT)	$\Delta c = 12^{\circ}52'11.4''$ (RT)
D = 143°14'22.0"	D = 57°17'44.8"
Lc = 22.98	Lc = 22.46
Tc = 11.82	Tc = 11.28
R = 40	R = 100

PERMANENT SURFACE WATER IMPACTS
 TEMPORARY SURFACE WATER IMPACTS

PERMIT DRAWING
SHEET 2 OF 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- 12+32 TO 12+40 LT & RT	Proposed Bridge						< 0.01	< 0.01	47	53	
TOTALS*:								< 0.01	< 0.01	47	53	0

NOTES:
Total Permanent SW Impacts = 12 SF
Total Temporary SW Impacts = 161 SF

SHEET 4 OF 4

401 Certification (NCDWR)

*Written
Authorization
Not Required*

Permitted Drawings



North Carolina Department of Transportation
Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element: DF18313.2081051.PR TIP/Proj No: DF18313.2081051.PR County(ies): Rutherford Page 1 of 2

General Project Information

WBS Element:	DF18313.2081051.PR	TIP Number:	DF18313.2081051.PR	Project Type:	Bridge Replacement	Date:	7/27/2026
NCDOT Contact:	Byron Kyle			Contractor / Designer:	He Yang, PE		
	Address: NCDOT Alternative Delivery 1020 Birch Ridge Drive Raleigh, NC 27610				Address: Summit Design and Engineering Services 1000 Social St, Suite 800 Raleigh, NC 27609		
	Phone: (919) 707-6621				Phone: (919) 322-0115		
	Email: bkyle@ncdot.gov				Email: alec.yang@summitde.com		
City/Town:	Lake Lure			County(ies):	Rutherford		
River Basin(s):	Broad			CAMA County?	No		
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	0.08	Surrounding Land Use:	Rural, Wooded, Mountainous					
	Proposed Project		Existing Site					
Project Built-Up Area (ac.)	0.2	ac.	0.2	ac.				
Typical Cross Section Description:	Proposed Road and Bridge will be a 2-lane facility with 10' wide travel lane and 3' grass shoulders. The total proposed bridge length is 55-ft with an out-to-out width of 27-ft.		Existing road and bridge is a 2-lane facility with 9' wide travel lanes. The total bridge length is 35-ft 6-in with an out-to-out width of 20.25 ft.					
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	400	Year:	2046	Existing:	400	Year:	2026

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

State Project involves the replacement of NCDOT Bridge 800572 over Taylor Creek on SR 1312 in Rutherford County. The existing structure is a 35 feet 6 inches long, single span timber floor on I-Beams. The proposed structure will be a 55 feet 21" cored slab with an out-to-out deck width of 27 ft. The existing structure does not have deck drains. The proposed structure will not have deck drains, but will instead direct and outlet stormwater runoff to a proposed outfall on the end bent one side of the bridge. Proposed outfall will utilize a rip rap pad to reduce velocity and minimize erosion. Bank stabilization is utilized along the vertical abutments at the begin bridge. A detour structure will be utilized just downstream of the proposed bridge. The detour structure will not have any stream impacts. A driveway pipe will outlet on the top of bank with bank stabilization.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element: DF18313.2081051.PR TIP/Proj No.: DF18313.2081051.PR County(ies): Rutherford Page 2 of 2

General Project Information

Waterbody Information

Surface Water Body (1):	Taylor Creek		NCDWR Stream Index No.:	9-23-14-3	
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?	No	Comments:			
NRTR Stream ID:	N/A		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)					

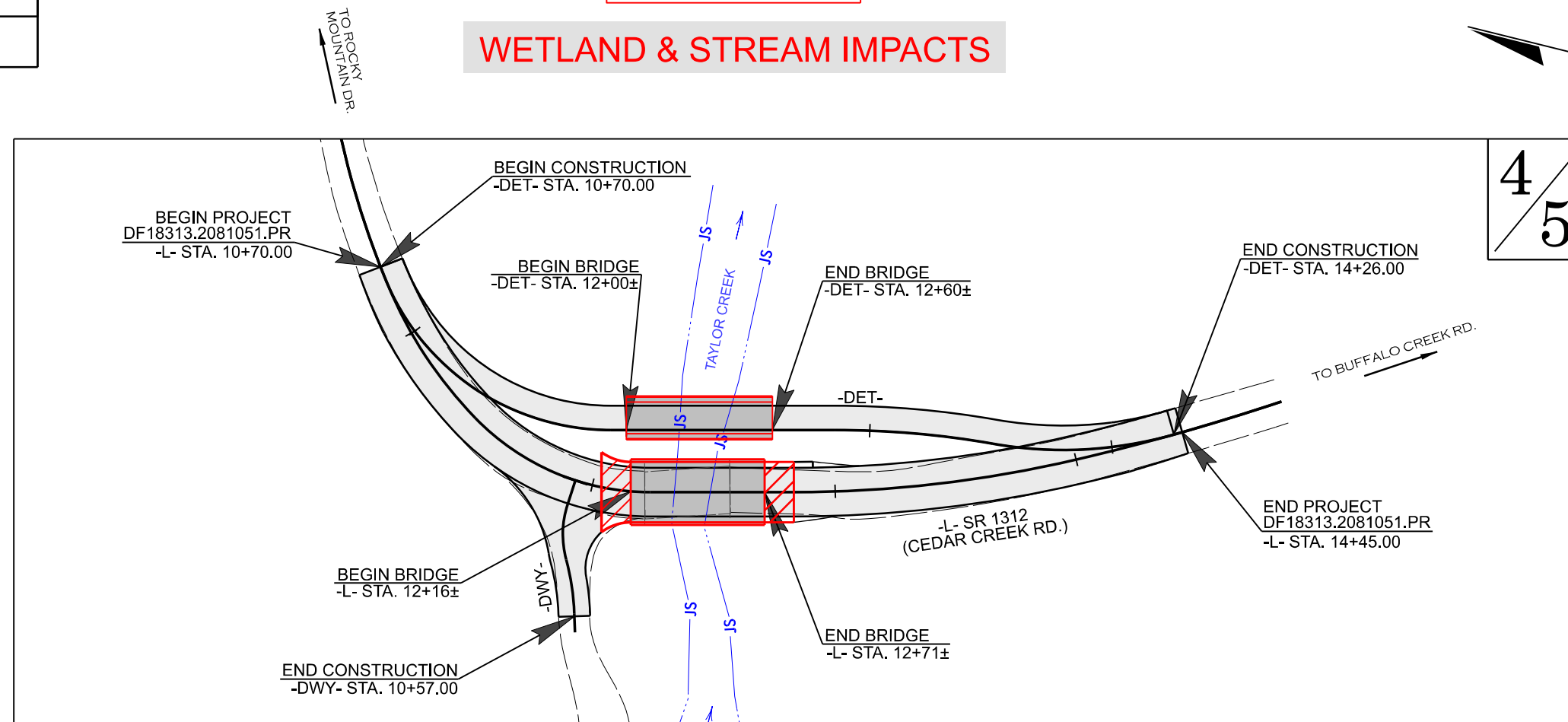
VICINITY MAP (NTS)

RUTHERFORD COUNTY

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, & STRUCTURE*

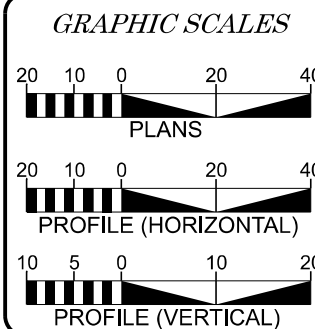
PERMIT DRAWING
SHEET 1 OF 4

WETLAND & STREAM IMPACTS



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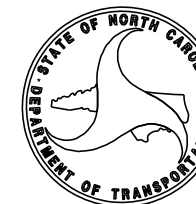


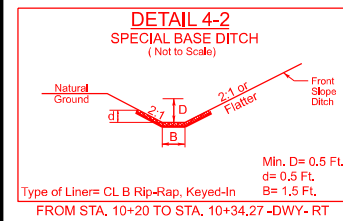
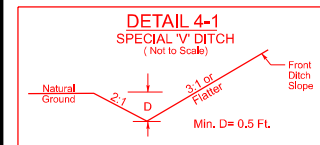
SUBREGIONAL TIER

NCDOT CONTACT: BYRON KYLE
NCDOT - ALTERNATIVE DELIVERY UNIT

JOSHUA JERNIGAN, PE
PROJECT DESIGN ENGINEER

SIGNATURE: _____ P.E.





CUR DATA -L- Plc 10+39.34	CUR DATA -L- Plc 11+11.51	CUR DATA -L- Plc 11+86.20	CUR DATA -L- Plc 13+41.81	CUR DATA -L- Plc 14+43.89
$\Delta c = 12^{\circ}18'17.1''$ (LT)	$\Delta c = 21^{\circ}26'17.9''$ (LT)	$\Delta c = 45^{\circ}53'14.0''$ (LT)	$\Delta c = 13^{\circ}07'08.8''$ (LT)	$\Delta c = 05^{\circ}25'35.5''$ (LT)
D = 15°41'50.9"	D = 32°44'25.6"	D = 57°17'44.8"	D = 11°12'44.9"	D = 06°11'38.9"
Lc = 78.39	Lc = 65.48	Lc = 80.09	Lc = 117.00	Lc = 87.61
Tc = 39.34	Tc = 33.13	Tc = 42.33	Tc = 58.76	Tc = 43.84
R = 365	R = 175	R = 100	R = 511	R = 925
SE = Exist.	SE = 0.06	SE = 0.06	SE = 0.04	SE = Exist.
RO = N/A	RO = 84'	RO = 84'	RO = 56'	RO = N/A
	DS = 25 MPH	DS = 20 MPH	DS = 25 MPH	



DF18313.2081051.PR

RDY 004

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY



ROADWAY DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

HYDRAULIC DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PLANS PREPARED BY:

SUMMIT
DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE No: C-5176
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GAYLE P. SAMS
DB 2057 PG 450
PB 17 PG 66

THREE CREEKS POA
DB 2082 PG 4664
PB 23 PGS 131-132

THREE CREEKS POA
DB 2082 PG 4664
PB 23 PGS 131-132

0.2 MILES +/-
TO SR 1314
BUFFALO CREEK RD

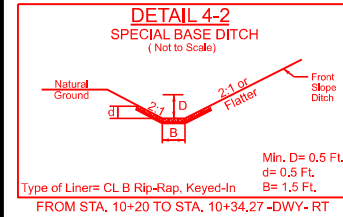
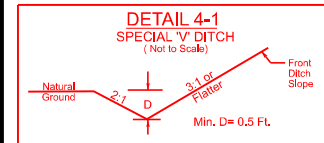
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PB 17 PG 66

804°59'38"E
855.92'

CUR DATA -DWY- Plc 10+22.21	CUR DATA -DWY- Plc 10+44.65
$\Delta c = 32^{\circ}54'44.3''$ (LT)	$\Delta c = 12^{\circ}52'11.4''$ (RT)
D = 143°14'22.0"	D = 57°17'44.8"
Lc = 22.98	Lc = 22.46
Tc = 11.82	Tc = 11.28
R = 40	R = 100

PERMANENT SURFACE WATER IMPACTS
 TEMPORARY SURFACE WATER IMPACTS

PERMIT DRAWING
SHEET 2 OF 4



CUR DATA -L- Plc 10+39.34	CUR DATA -L- Plc 11+11.51	CUR DATA -L- Plc 11+86.20	CUR DATA -L- Plc 13+41.81	CUR DATA -L- Plc 14+43.89
$\Delta c = 12^{\circ}18'17.1''$ (LT)	$\Delta c = 21^{\circ}26'17.9''$ (LT)	$\Delta c = 45^{\circ}53'14.0''$ (LT)	$\Delta c = 13^{\circ}07'08.8''$ (LT)	$\Delta c = 05^{\circ}25'35.5''$ (LT)
D = 15°41'50.9"	D = 32°44'25.6"	D = 57°17'44.8"	D = 11°12'44.9"	D = 06°11'38.9"
Lc = 78.39	Lc = 65.48	Lc = 80.09	Lc = 117.00	Lc = 87.61
Tc = 39.34	Tc = 33.13	Tc = 42.33	Tc = 58.76	Tc = 43.84
R = 365	R = 175	R = 100	R = 511	R = 925
SE = Exist.	SE = 0.06	SE = 0.06	SE = 0.04	SE = Exist.
RO = N/A	RO = 84'	RO = 84'	RO = 56'	RO = N/A
	DS = 25 MPH	DS = 20 MPH	DS = 25 MPH	

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PERMANENT SURFACE WATER IMPACTS
TEMPORARY SURFACE WATER IMPACTS

PERMIT DRAWING
SHEET 3 OF 4

WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			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- 12+32 TO 12+40 LT & RT	Proposed Bridge						< 0.01	< 0.01	47	53	
TOTALS*:								< 0.01	< 0.01	47	53	0

*Rounded totals are sum of actual impacts

NOTES:
 Total Permanent SW Impacts = 12 SF
 Total Temporary SW Impacts = 161 SF

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 7/27/2026
 RUTHERFORD
 DF18313.2081051.PR

SHEET 4 OF 4