



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

October 3, 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:
Bridge 463 over Broad River on Crooked Creek Road (SR 2788) in Buncombe,
Division 13, WBS DF18313.2011269.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-2026-01419 Dated October 2, 2026	March 14, 2026
NC Division of Water Resources Section 401 Water Quality Certification	General Certification No. 8562 Project ID: 20261023 <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.

The General Conditions and Certifications for Nationwide and Regional Permits can be referenced at:
https://xfer.services.ncdot.gov/pdea/EnvironmentalPermits/_General_Conditions_and_Certifications/

404 Permit (USACE)



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

October 2, 2026

Regulatory Division
SAW-2026-01419

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: recrowther@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 6, 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. 463** over the Broad River on SR 2788 in Buncombe County, North Carolina (33.5639, -82.2712) and has been assigned file number SAW-2026-01419. 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 (Broad River)	<u>NWP 3</u>					67' (0.02 ac) / dewater and access	80' (0.02 ac) / bank stabilization
Site 2 (Glade Creek)	<u>NWP 3</u>					15' (<0.01 ac) / dewater and access	
Impact Totals		0	0	0	0	82' (0.02 acre)	80' (0.02 ac) / 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 comply with conditions #1-4 of the attached letter from the North Carolina Wildlife Resources Commission dated August 7, 2026.

3. 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 style with a large, stylized "M" and "J".

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

Enclosures

Excerpted from Biological Opinion, pursuant to 404 Condition No. 1

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



◻ North Carolina Wildlife Resources Commission ◻

M. Kyle Briggs, Executive Director

August 7, 2026

Loretta Beckwith
U.S. Army Corps of Engineers, Asheville Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801

Amy Annino
401 and Buffer Transportation Permitting Branch
North Carolina Department of Environmental Quality
2090 U.S. 70 Highway, Swannanoa, NC 28778-8211

SUBJECT: Comments on Application for Replacement of Bridge 463 on Crooked Creek Road (SR 2788) over the Broad River, Buncombe County (DF18313.2011269), DWR 20261023 ver.1

The North Carolina Department of Transportation (NCDOT) applied for a 404 Permit and 401 Certification for the subject project. The North Carolina Wildlife Resources Commission's (NCWRC) comments are offered to help conserve the wildlife resources affected by the project and to promote wildlife-based recreation in accordance with applicable provisions of the Clean Water Act of 1977 (33 U.S.C. 466 et seq.) and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667d).

The project will replace a timber on steel beam bridge over the Broad River that was damaged by flooding from Hurricane Helene. The new structure will be similar.

In 2025 NCWRC biologists sampled the Broad River upstream of the bridge and found wild Rainbow Trout (*Oncorhynchus mykiss*) and Brown Trout (*Salmo trutta*). There should at least be wild Rainbow Trout near this bridge. Therefore, as noted in scoping comments for this bridge project, the upcoming moratoria for Rainbow Trout (January 1, 2027 to April 15, 2027, and subsequent moratorium periods), should be adhered to for instream disturbance from this bridge work.

The NCWRC requests that the following conditions be included in authorizations to help conserve trout and other aquatic resources affected by the project:

1. The upcoming moratoria for Rainbow Trout (January 1, 2027 to April 15, 2027, and subsequent moratorium periods), should be adhered to for instream disturbance.
2. Applicable measures from the current *NCDOT Erosion and Sediment Control Design and Construction Manual* should be adhered to.
3. In accordance with standard GC conditions, matting used in riparian areas should not contain nylon mesh because it entangles and kills wildlife. Coir matting should be used on disturbed stream banks that are steep or susceptible to high water. Matting should be anchored with wooden stakes according to NCDOT specifications.
4. Sandbags, rock berms, cofferdams, or other diversion structures should be used whenever possible to isolate flowing water from in-channel construction.
5. Additional rip rap on streambanks should only extend to the ordinary high water elevation and matting and vegetation should be used above the ordinary high water elevation.

Thank you for the opportunity to review and provide recommendations on this project. Please contact me at david.mchenry@ncwildlife.gov or (828) 476-1966 if you have any questions about these comments.

Sincerely,



Dave McHenry, NCWRC Western DOT Coordinator

cc: Yates Allen, NCDOT Division 14 Environmental Specialist II
Mike Sanderson, NCDOT Division 14 Environmental Supervisor
Michael Turchy, NCDOT ECAP

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-2026-01419 Permit Type: General Permit General Permit Number and Name (if applicable): NWP 3 Name of Permittee: NCDOT, Division of Highways Project Name: NCDOT/Helene Bridge 463/Broad River/SR 2788/Buncombe Co/Div 13 Project Location (physical address): -Bridge 436 over the Broad River on SR 2788 Buncombe 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

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: TIP/Proj No: DF18313.2011269.PR County(ies): Buncombe Page 1 of 2

General Project Information

WBS Element:		TIP Number:	DF18313.2011269.PR	Project Type:	Bridge Replacement	Date:	6/11/2026
NCDOT Contact:	Daniell L. Bagley			Contractor / Designer:	Kimley-Horn		
	Address:	1020 Birch Ridge Drive Room # 16 d			Address:	One City Plaza 421 Fayetteville St, STE 600 Raleigh, NC 27601	
	Phone:	919-707-6642			Phone:	919-653-2994	
	Email:	dlbagley@ncdot.gov			Email:	Jordan.Bendl@kimley-horn.com	
City/Town:	Black Mountain			County(ies):	Buncombe		
River Basin(s):	Broad			CAMA County?	No		
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	382 ft	Surrounding Land Use:	forested mountainous terrain					
	Proposed Project		Existing Site					
Project Built-Upon Area (ac.)	0.11	ac.	0.1	ac.				
Typical Cross Section Description:	Proposed bridge with 2 @ 10' wide lanes with guardrail, proposed road with 2 @ 10' wide lanes with 3' grass shoulders and 4:1 slope (LT) and 2:1 slope (RT).		Existing bridge deck with 2 @ 10' wide lanes and wooden railing on each side, existing gravel road with 2 @ 10' wide lanes					
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	650	Year:	2045	Existing:	500	Year:	2025

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

Replacement of Structure #100463 over Broad River on SR 2788 (Crooked Creek Road), including roadway improvements, in Buncombe County.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

WBS Element: TIP/Proj No.: DF18313.2011269.PR County(ies): Buncombe Page 2 of 2

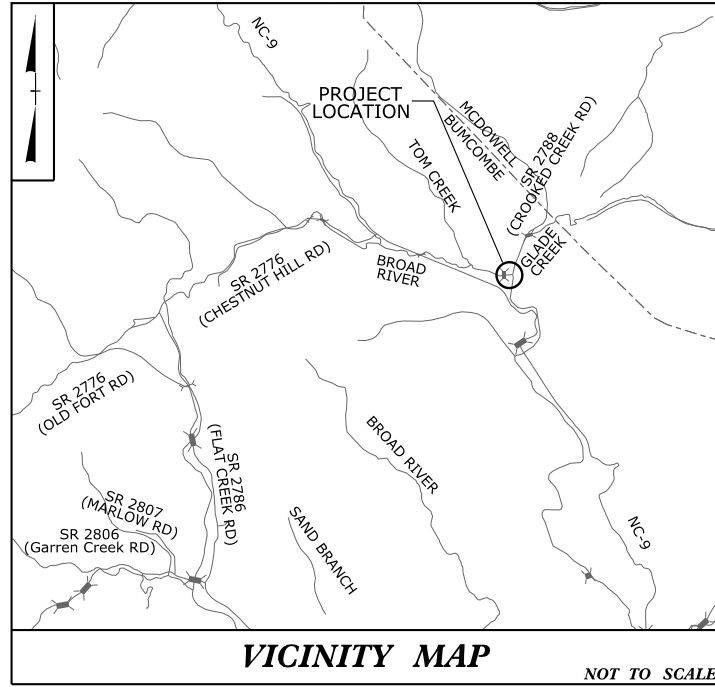
General Project Information

Waterbody Information

Surface Water Body (1):	Broad River		NCDWR Stream Index No.:	9-(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?	No	Comments:			
NRTR Stream ID:				Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	No
Deck Drains Discharge Over Water Body?	N/A	(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):	Glade Creek		NCDWR Stream Index No.:	9-4	
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:				Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	No
Deck Drains Discharge Over Water Body?	N/A	(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?		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)					

CONTRACT: C205123

See Sheet 1B For Conventional Symbols



BEGIN PROJECT DF18313.2011269.PR
-L- STA. 10+32.00

RIGHT-OF-WAY

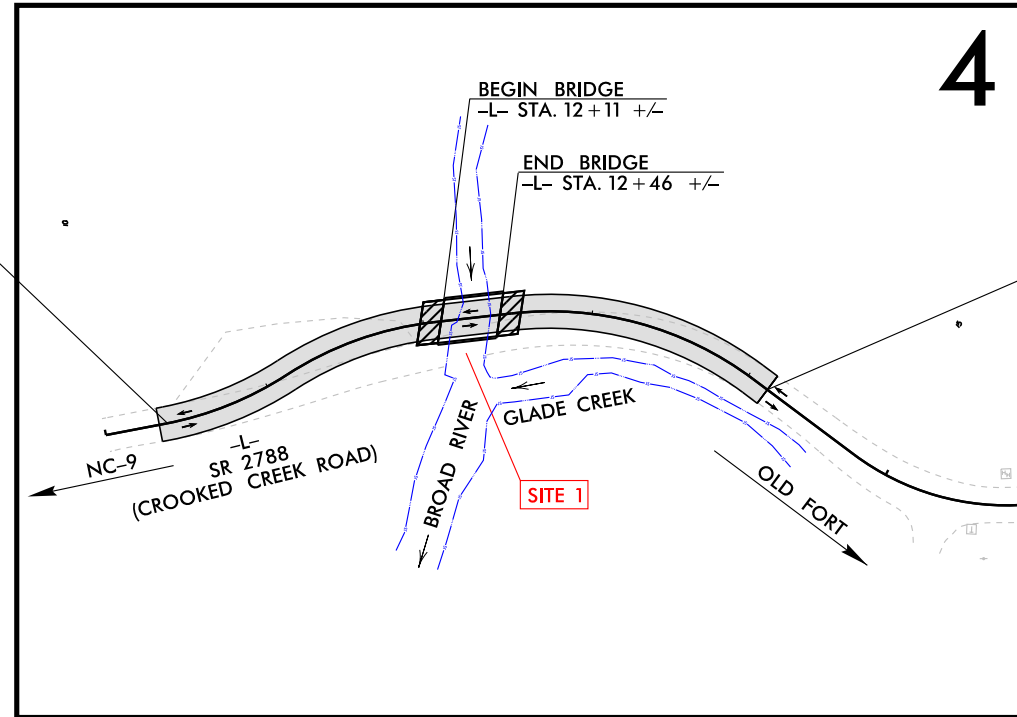
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

**LOCATION: BRIDGE NO.100463 OVER BROAD RIVER
ON SR 2788 (CROOKED CREEK ROAD)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

SURFACE WATER IMPACTS PERMIT



PERMIT DRAWING
SHEET 1 OF 5

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18313.2011269.PR	1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
DF18313.2011269.PR	N.A.	P.E.	
DF18313.2011269.PR	N.A.	R/W & UTILITIES	
DF18313.2011269.PR	N.A.	CONSTRUCTION	

EXPRESS DESIGN BUILD: DIVISION 13 GROUP 19

RIGHT-OF-WAY PLAN SET

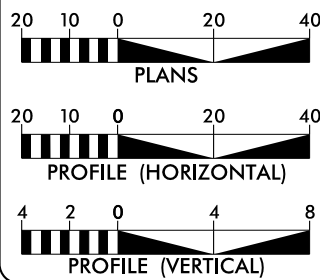
BRIDGE # 100463
SUBMITTAL # S-0011
SUBMITTAL DATE: 06/15/2026



NC GRID
NAD 83/NA 2011

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II MODIFIED
THIS PROJECT HAS NO CONTROL ACCESS.
THIS PROJECT IS NOT WITHIN THE MUNICIPAL BOUNDARIES OF A TOWN OR CITY.

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 500 vpd
ADT 2045 = 650 vpd
V = 40 MPH
FUNC CLASS =
LOCAL
SUB REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT DF18313.2011269.PR
= 0.072 MILE

LENGTH STRUCTURE PROJECT DF18313.2011269.PR
= 0.007 MILE

TOTAL LENGTH PROJECT DF18313.2011269.PR
= 0.079 MILE

**PLANS PREPARED FOR
THE NCDOT BY:**

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPT 16, 2025

LETTING DATE:
SEPT 16, 2025

Kimley»Horn

JACK R. CRINO, P.E.
PROJECT ENGINEER

GERARD GASKIN
PROJECT DESIGN ENGINEER

DANIELL L. BAGLEY
NCDOT CONTACT

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

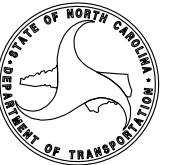
HYDRAULICS ENGINEER

P.E.

SIGNATURE:

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ *P.E.*



PERMIT DRAWING
SHEET 2 OF 5

NAD 83/NA 2011
NC GRID

REVISIONS

10

BERTHA F. GLENN
ROBERT E. GLENN
DB 1060 PG 481

BANK /LEVEE EXCAVATION
SEE TYPICAL SECTION A-A
EXCAVATE TO ELEV=2517.0'
EST 18 CY DDE

CHANNEL IMPROVEMENTS
EST 52 CY DDE
EST 38 TONS CL-II RIPRAP
EST. 76 SY GFD

CHANNEL IMPROVEMENTS
EST 37 CY DDE
EST 22 TONS CL-II RIPRAP
EST. 44 SY GFD

RONALD W. WHEELER
ESTATE FILE 22E PG 2063
DB 4259 PG 1331
DB 757 PG 163

2

15

BEGIN PROJECT DF18313.2011269.PR
BEGIN CONSTRUCTION
-L- POT Sta.10+32.00

PATSY R. HENDRIX
JOHN W. HENDRIX
DB 2901 PG 235
PB 82 PG 137

GRADE TO DRAIN ALONG BRIDGE
APPROACH TO POSITIVELY DRAIN
DOWN RIPRAP EMBANKMENT
CL-B RIPRAP
EST 16 TONS
EST 30 SY GFD

SITE 1

END PROJECT DF18313.2011269.PR
END CONSTRUCTION
-L- POT Sta.14+14.00

RONALD W. WHEELER
ESTATE FILE 22E PG 2063
DB 4259 PG 1331
DB 757 PG 163

2

LEGEND



FILL



CLASS II
RIP RAP



DENOTES IMPACTS
IN SURFACE WATER



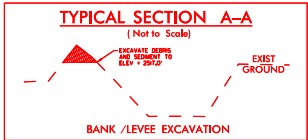
EXCAVATION



CLASS B
RIP RAP



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



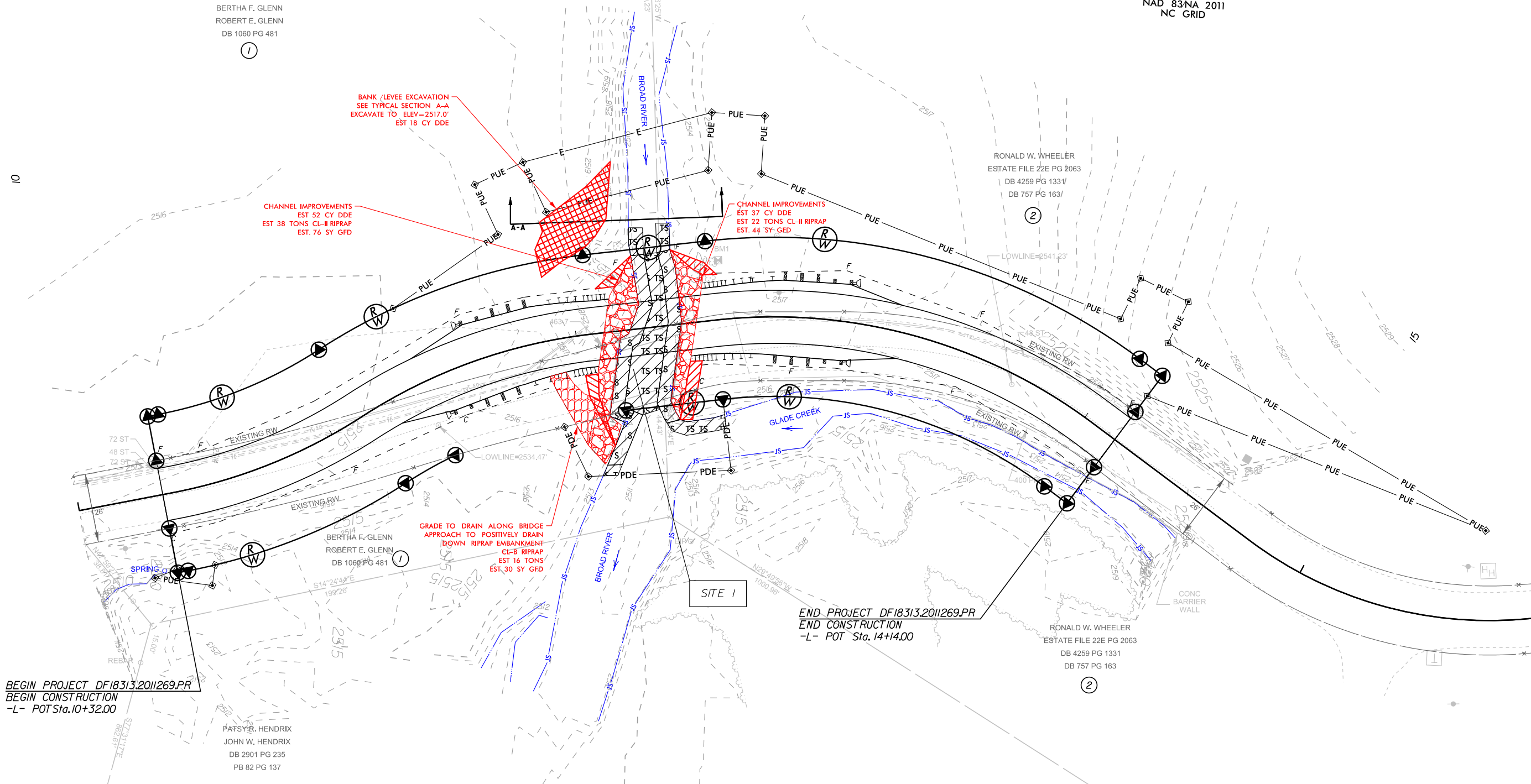
Kimley»Horn
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

6/15/2026 K:\PAL_Roadway\012593016 - Division 13 Group 19\Hydraulics\PERMITS-Environmental\00463\Drawings\00463\pr_m_pst.dgn

PERMIT DRAWING
SHEET 3 OF 5

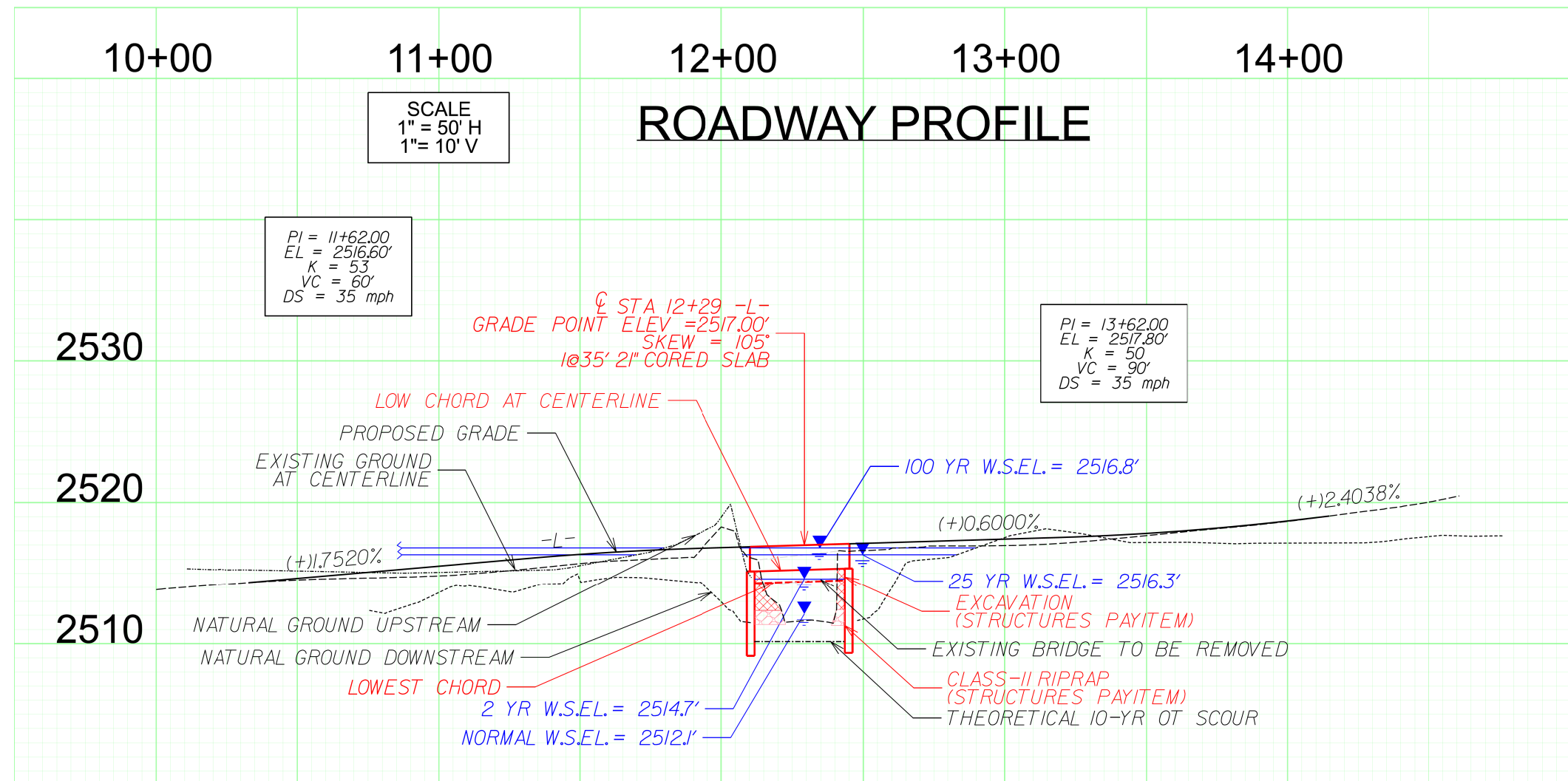
NAD 83/NA 2011
NC GRID

REVISIONS



REVISIONS

6/15/2026 K:\PAL_Roadway\012593016 - Division 13 Group 19\Hydraulics\PERMITS_Environmental\00463\Drawings\00463\prn_pl.dgn



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	12+03.54/12+52.23 -L-	CORED SLAB BRIDGE (35' x 27' x 2')						0.02	0.02	80	82	
TOTALS*:								0.02	0.02	80	82	0

NOTES:

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