



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

August 31, 2026

MEMORANDUM TO: Division Environmental and Construction Units

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

SUBJECT: Environmental Permits for the Replacement of:
Bridge 229 over the North Toe River on SR 1357 (Toe River Road) in Mitchell
and Yancey Counties, Division 13, WBS 18313.1100996.1.3.

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-2026-01180 Dated August 31, 2026	March 14, 2031
NC Division of Water Resources Section 401 Water Quality Certification	Water Quality Certification No. 8562 Project ID: 20260836 Dated August 27, 2026	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
WRDA / TRANSPORTATION BRANCH
3331 HERITAGE TRADE DR, SUITE 105
WAKE FOREST NC 27587

August 31, 2026

Regulatory Division
SAW-2026-01180

Sent Via email: maturchy@ncdot.gov

Michael Turchy
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, NC 27606

Dear Mr. Turchy:

This letter is in response to the Pre-Construction Notification (PCN) you submitted to the Wilmington District, WRDA / Transportation Branch on June 30, 2026, for a Department of the Army Nationwide permit (NWP) verification. This project has been assigned the file number SAW-2026-01180 and is known as NCDOT / Hurricane Helene / DF18313.1100996.1.3 / Br 229 / SR 1357 / Mitchell and Yancey . This file number should be referenced in all correspondence concerning this project.

A review of the information provided indicates that the proposed work would include a new 4-span, 315'-3"-long bridge in the same location as the previous bridge. A temporary rail-car bridge downstream of the previous bridge will continue to serve as a temporary detour during construction. Impacts are shown in Table 1, below. The project area for this determination is illustrated on the enclosed permit drawings. The project is located at the site of destroyed Bridge 229 over the N. Toe River, on SR 1357, Toe River Road, at Latitude 35.992520 and Longitude -82.258100; west of Bakersville, Mitchell and Yancey Counties, North Carolina.

Table 1: Impacts

Name	Aquatic Resource	Duration	Length (ft)	Width (ft)	Amount (acre)
Site 1 Fill Abutment Stabilization	North Toe River	Permanent	113	4	0.0104
Site 1 Fill Abutment	North Toe River	Temporary	81	5	0.0093
Site 1 Fill Access Ramp	North Toe River	Temporary	164	47	0.17695
Site 1 Fill Causeway	North Toe River	Temporary	-	-	0.2960
Site 1 Fill Causeway	North Toe River	Temporary	-	-	0.1179
Site 1 Fill Causeway	North Toe River	Temporary	-	-	0.2060

We have determined that the proposed work is authorized by 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 general permit conditions, any regional conditions, the special conditions listed in this letter, the application materials, and the enclosed plans. If the extent of the project area and/or nature of the authorized impacts to waters are modified, a revised PCN must be submitted to this office for written approval before work is initiated. Any violation of permit conditions or deviation from your submitted plans may subject the permittee to enforcement action.

This verification is valid until **March 15, 2031**, unless prior to this date the subject NWP(s) is suspended, revoked, or is modified such that the activity no longer complies with the terms and conditions of this NWP. If you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

Project Specific Special Conditions:

1. FWS Biological Opinion: This Corps permit does not authorize you to take specific protected or proposed protected species, in particular Appalachian elktoe (*Alasmidonta raveneliana*), Eastern Hellbender (*Cryptobranchus alleganiensis alleganiensis*), Gray bat (*Myotis grisescens*), Northern Long-Eared Bat (*Myotis septentrionalis*), Tricolored bat (*Perimyotis subflavus*). In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g., a Biological or Conference Opinion (BO or CO) under the ESA, Section 7, with “incidental take” provisions with which you must comply). The U.S. Fish and Wildlife Service (USFWS) BO/CO, dated June 11, 2026, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with “incidental take” that is also specified in the BO/CO. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the BO/CO, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the BO/CO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its BO/CO, and with the ESA.
2. All recommendations in the attached letter from the North Carolina Wildlife Resources Commission dated July 7, 2026, are hereby incorporated as special conditions of this permit.

This NWP verification does 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 Eric Alsmeyer, Project Manager of the WRDA / Transportation Branch at 919-817-1570, by mail at the above address, or by email at eric.c.alsmeyer@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". There are small red marks above the "M" and below the "J".

M. Scott Jones, PWS
WRDA / Transportation Branch Chief

Enclosures

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 eric.c.alsmeyer@usace.army.mil or by mail at the below address: U.S. Army Corps of Engineers Wilmington District Street Address: 3331 Heritage Trade Dr, Suite 105 City: Wake Forest State: NC Zip Code: 27587		
COMPLETED BY THE CORPS		
Corps Action Number: SAW-2026-01180 Permit Type: General Permit General Permit Number and Name (<i>if applicable</i>): NWP 3 Name of Permittee: Michael Turchy Project Name: NCDOT / Hurricane Helene / DF18313.1100996.1.3 / Br 229 / SR 1357 / Mitchell and Yancey Project Location (<i>physical address</i>): Toe River Rd Green Mountain, North Carolina		
PERMITTEE'S CERTIFICATION		
Date Work Started: Date Work Completed: Enclose photographs showing the completed project (<i>if available</i>). 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



◻ North Carolina Wildlife Resources Commission ◻

M. Kyle Briggs, Executive Director

July 7, 2026

Lori 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 600229 over North Toe River, Mitchell and Yancey Counties. **DF18313.1100996, M-0572D, DWR 20260836**

The North Carolina Department of Transportation (NCDOT) applied for a 404 Permit and 401 Certification for the subject bridge replacement. 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 existing bridge 600229 was destroyed by Hurricane Helene flooding. There is a temporary bridge that is handling traffic at this crossing.

The North Toe River (B Tr) in the project area is a cool-water habitat that was severely degraded by floodwater from Hurricane Helene. Thermal and spawning conditions in this part of the river are likely marginal for trout. The trout moratorium should not apply to the work included in this application.

The river may still support rare and sensitive species such as Eastern Hellbender (*Cryptobranchus alleganiensis*, NC Special Concern). While it is unlikely that many of these species will be directly impacted

by the proposed project, the NCWRC would nonetheless appreciate being apprised of the construction schedule so that biologists can possibly survey and relocate animals that may be found.

The North Toe River supports a Smallmouth Bass (*Micropterus dolomieu*) fishery near the bridge. As reflected in scoping comments, the NCWRC requested that several Helene bridge replacements on the Cane and North Toe rivers include areas of wide, unobstructed (no guardrail) road shoulders to provide potential opportunities for anglers to park. Bridge 600229 is one of those bridges where accessibility is desired. It is likely that some shoulder parking could be reasonably accommodated with this project in final grading designs or with possible minor field adjustments during construction. For example, a small shoulder parking opportunity, or at least a widened roadway section, could be accommodated along Whitson Branch Road, a 12.5' gravel roadway, near the southeast corner of bridge.

The NCWRC requests that the following conditions be considered for inclusion in authorizations to help conserve the habitats affected by the project:

1. Applicable measures from the current *NCDOT Erosion and Sediment Control Design and Construction Manual* should be adhered to. *Design Standards in Sensitive Waters* should be incorporated into the project's erosion control (see part (d) of 15A NCAC 04B .0124).
2. 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.
3. Heavy equipment needs to be well-maintained and concrete pouring needs to be closely monitored to avoid and quickly mitigate fuel, fluid, or wet concrete losses in or near streams.
4. Excavation in flowing water should be minimized and sandbags, cofferdams, or other diversions used to isolate construction around bridge substructures.
5. Rock grouting, if used, should be completed in accordance with NCDOT hydraulic unit guidance.

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: Michael Turchy, NCDOT ECAP, Environmental Analysis Unit
Yates Allen, NCDOT Division 13 Environmental Specialist II
Mike Sanderson, NCDOT Division 13 Environmental Officer

401

Certification (NCDWR)

JOSH STEIN
Governor

D. REID WILSON
Secretary

RICHARD E. ROGERS, JR.
Director



NORTH CAROLINA
Environmental Quality

August 27, 2026

DWR # 20260836
Mitchell County

North Carolina Department of Transportation
Attn: Mr. Michael Turchy
1598 Mail Service Center
Raleigh, North Carolina 27606

Delivered via email to: maturchy@ncdot.gov

Subject: Certificate of Coverage Approval under Water Quality General Certification No. 8562
Replacement of Bridge 600229 over North Toe River on SR 1357 (Toe River Rd.); WBS 18313.1100996.1.3

Location: 35.992523, -82.258102

Dear Mr. Michael Turchy:

This Certificate of Coverage approval is issued to Mr. Michael Turchy and North Carolina Department of Transportation, dated August 27, 2026. This Certificate of Coverage authorizes work under General Certification No. 8562 for the impacts listed below and described in your application which was received by the N.C. Division of Water Resources (Division or DWR) on June 30, 2026, with fee received on July 1, 2026, and subsequent information on August 14, 2026, and within the *Reasonable Period of Time* pursuant to 40 CFR Part 121.6. This certificate is for the purpose and design described in your application. This approval requires you to follow all the conditions listed in the enclosed General Certification No. 8562.

This Water Quality Certification shall expire on the same day as the expiration date of the corresponding Section 404 Permit that is current at the time this Certification is issued. The conditions shall remain in effect for the life of the project, regardless of the expiration date of this Water Quality Certification.

Upon completion of the proposed project, the applicant shall submit a Certificate of Completion and/or shall provide as-built documentation. Certificates of Completion and/or as-built documentation can be submitted via the DWR website: <https://edocs.deq.nc.gov/Forms/Certificate-of-Completion>.

The following impacts are hereby approved. No other impacts are approved, including incidental impacts. [15A NCAC 02H .0506(b)]



North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000

Type of Impact	Amount Approved Permanent	Amount Approved Temporary	Mitigation Amount Required
Perennial Streams			
Site 1 / North Toe River / Bank Stabilization at abutment	113 linear feet	81 linear feet	0 credits
Site 1 / North Toe River / Bridge causeway	0	108 linear feet	0 credits
Site 1 / North Toe River / Bridge access ramp	0	164 linear feet	0 credits
Site 2 / North Toe River / Existing bridge causeway	0	83 linear feet	0 credits
Site 2 / North Toe River / Existing bridge access ramp	0	167 linear feet	0 credits
<i>Totals:</i>	<i>113 linear feet</i>	<i>603 linear feet</i>	<i>0 credits</i>

Notice regarding the right to contest this 401 Water Quality Certification decision is attached to this letter.

This letter completes the Division's review under Section 401 of the Clean Water Act and 15A NCAC 02H .0500. Please contact Amy Annino at 828-296-4668 or amy.annino@deq.nc.gov if you have any questions or concerns.

Sincerely,

Signed by:

Faith Hardin

3185423002EA45E...

Faith Hardin, Supervisor
401 & Buffer Permitting Transportation Branch
Division of Water Resources, NCDEQ

Enclosures: Notice Regarding The Right To Contest A DWR 401 Water Quality Certification Decision
And/Or Buffer Authorization
GC 8562

Electronic cc: Lori Beckwith, USACE Asheville Regulatory Field Office
Holland Youngman, USFWS Asheville Field Office
Mike Sanderson, NCDOT Division 13 Environmental Officer
Dave McHenry, NCWRC
DWR 401 & Buffer Permitting Branch Electronic file



**NOTICE REGARDING THE RIGHT TO CONTEST A DWR 401 WATER QUALITY
CERTIFICATION AND/OR BUFFER AUTHORIZATION**

Right of Persons Aggrieved to File a Contested Case for the Decision on a 401 Water Quality Certification and/or Buffer Authorization:

The Division's decision is subject to review under NCGS 150B-23.

Rights of Persons Aggrieved to File a Contested Case: Pursuant to NCGS 150B, Article 3, a party or person aggrieved may commence a contested case by filing a petition under NCGS 150B-23 in the Office of Administrative Hearings within 60 days after the Division provides notice of its decision on an application, as provided in NCGS 150B-23(f). If no contested case is commenced within the required time, the Division's decision is final and is not subject to review.

General Filing Instructions: A petition for contested case hearing must be in the form of a written petition, conforming to NCGS 150B-23, and filed with the Office of Administrative Hearings, 1711 New Hope Church Road, Raleigh NC, 27609, along with a fee in an amount provided in NCGS 150B-23.2. A petition for contested case hearing form may be obtained upon request from the Office of Administrative Hearings or on its website at <https://www.oah.nc.gov/hearings-division/filing/hearing-forms>. Additional specific instructions for filing a petition are set forth at 26 NCAC Chapter 03.

Service Instructions: A party filing a contested case is required to serve a copy of the petition, by any means authorized under 26 NCAC 03 .0102, on the process agent for the Department of Environmental Quality:

Daniel Hirschman, General Counsel
North Carolina Department of Environmental Quality
1601 Mail Service Center
Raleigh, North Carolina 27699-1601

If the party filing the petition is a person aggrieved other than the recipient of the certificate (the "Permittee"), the party must also serve the Permittee in accordance with NCGS 150B-23(a).

Be aware that other rules or laws may apply to the filing of a petition for a contested case. Additional information is available at <https://www.oah.nc.gov/hearings-division/hearing-process/filing-contested-case>. Please contact the Office of Administrative Hearings at (984) 236-1850 with all questions regarding the filing fee and/or the details of the filing process.



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: 18313.1100996 TIP/Proj No: M-0572D County(ies): Yancey Mitchell Page 1 of 2

General Project Information

WBS Element:	18313.1100996	TIP Number:	M-0572D	Project Type:	Other	Date:	5/5/2026
NCDOT Contact:	Michael Turchy	Contractor / Designer:	Joshua G. Dalton, PE				
Address:	Environmental Analysis Unit			Address:	5400 Etta Burke Ct, Suite 100		
	1000 Birch Ridge Drive				Raleigh, NC 27606		
	Raleigh, NC 27610						
Phone:	(919)707-6157			Phone:	(919)859-2243		
Email:	maturchy@ncdot.gov			Email:	jdalton@sungatedesign.com		
City/Town:	Relief			County(ies):	Yancey	Mitchell	
River Basin(s):	French Broad			CAMA County?	No	No	
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	337 ft.	Surrounding Land Use:	Rural; Mountainous
Proposed Project		Existing Site	
Project Built-Upon Area (ac.)	0.3 ac.	0.1 ac.	
Typical Cross Section Description:	SR 1357: 2 paved lanes (20' total), 4' paved shoulder on each side. See project typical for detail.		
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 700	Year: 2023	Existing: 700 Year: 2023

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

The North Carolina Department of Transportation (NCDOT) has proposed a disaster relief project to replace Bridge #600229 over the North Toe River. The bridge is located between Toe River Rd. (SR 1336) and B.E. Miller Rd. The pre-storm structure was a 1@41', 4@67' Reinforced Concrete Floor and Precast Prestressed Concrete Deck Panels on precast prestressed concrete girders. This structure was destroyed during Hurricane Helene. Currently, this crossing is serviced by a temporary rail car bridge. Any remnants of the pre-storm structure will be removed and replaced with a 1@79'-2.5", 2@78'-3.5", 1@79'-2.5' 45" Prestressed Concrete Girder with 8.5" concrete deck with spill through abutments. Excavation beneath the proposed bridge was kept to a minimum to produce as little impact as possible. To avoid direct discharge of bridge stormwater into North Toe River, deck drains are not required for the proposed bridge. The runoff from the bridge will flow into grated inlets outside of the existing top bank. Any stormwater discharge entering the jurisdictional stream will be at non-erosive velocities.

Additional slope stabilization and scour protection measures have been applied in areas deemed necessary from the SRH-2D model using Rain On Grid discharges provided by a NCDOT watershed model. These measures are intended to protect the existing slopes extending into the North Toe River from eroding during large flood events. Please see the impact summary table attached to this permit package.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

WBS Element: 18313.1100996 TIP/Proj No.: M-0572D County(ies): Yancey Mitchell Page 2 of 2

General Project Information

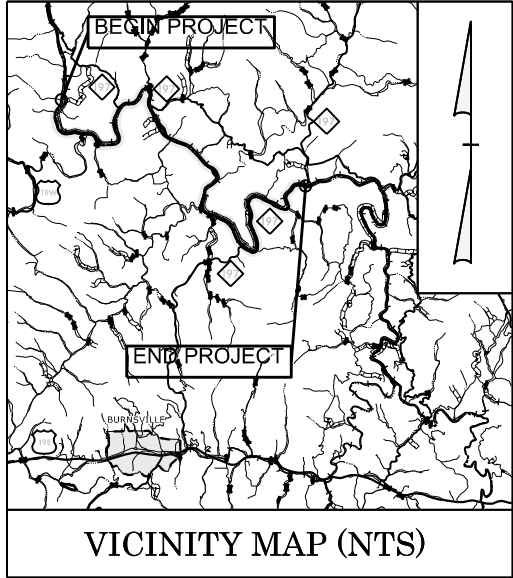
Waterbody Information

Surface Water Body (1):	North Toe River		NCDWR Stream Index No.:	7-2-(58.5)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class B		
	Supplemental Classification:		Trout Waters (Tr)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	Yes	Comments: Within FWS-defined critical habitat for federally endangered Appalachian Elktoe and Eastern Hellbender.			
NRTR Stream ID:	North Toe River		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?	
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?		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?		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)					

TIP PROJECT: M-0572D

CONTRACT:

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MITCHELL & YANCEY COUNTIES

LOCATION: NC 197 FROM ST 1336 (TOE RIVER ROAD) TO
THE NORTH TOE RIVER /
MITCHELL COUNTY LINE

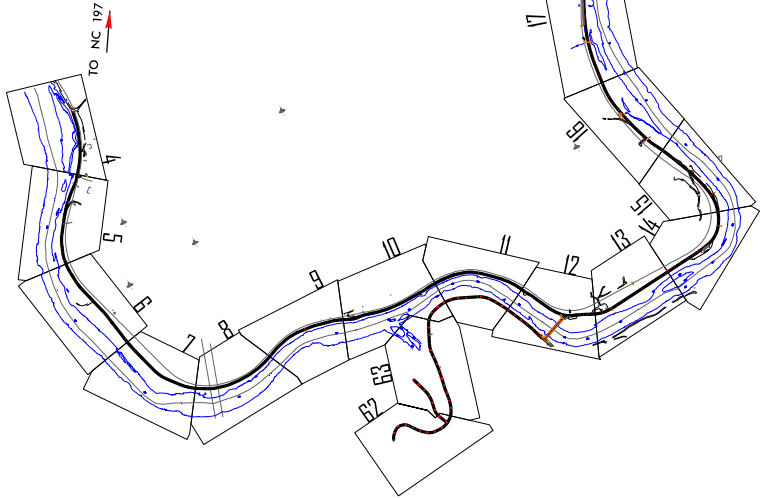
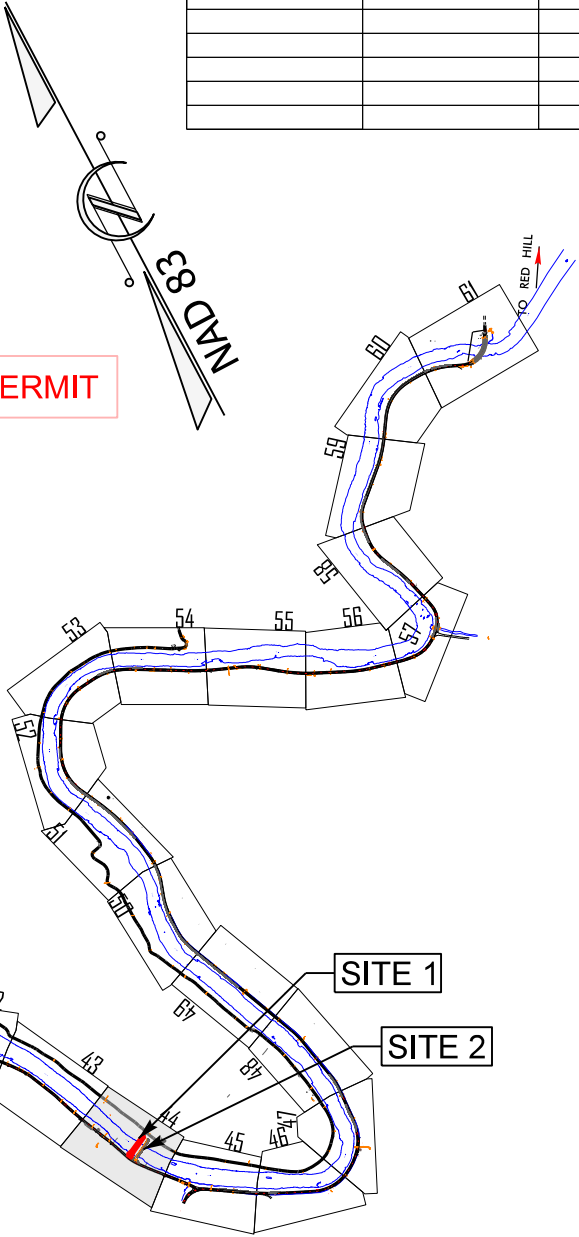
TYPE OF WORK: GRADING, DRAINAGE, STRUCTURES, PAVING
GUARDRAIL, AND SIGNING

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 1 OF 6

DATE: 6/4/2026

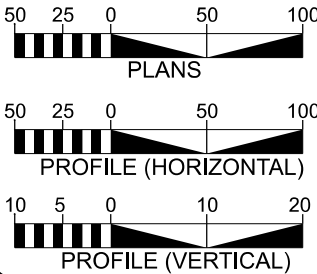
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	M-0572D	11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
18313.1100996.1.2	ER24387	P.E.	



CLEARING ON THIS PROJECT SHALL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD ____.

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

GRAPHIC SCALES



Prepared in the Office of:
Michael Baker
INTERNATIONAL
2024 STANDARD SPECIFICATIONS

Michael Baker Engineering, Inc.
8000 Regency Parkway, Suite 600
Cary, NC 27518
Professional Corporation License Number:
F-1084

RIGHT OF WAY DATE: _____

LETTING DATE: _____

TODD H. BUCKNER, P.E.
PROJECT ENGINEER

JUSTIN BLACKMAN
PROJECT DESIGN ENGINEER

NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____
ROADWAY DESIGN ENGINEER

SIGNATURE: _____
P.E.



PERMIT DRAWING
SHEET 2 OF 6
DATE: 6/4/2026

M-0572D
20-2

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MITCHELL &
YANCEY COUNTIES

ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

PREPARED BY

Michael Baker

INTERNATIONAL
SUNGATE

DESIGN GROUP
3401 Old North Rd., Ste. 200, Raleigh, NC 27605
Phone: (919) 899-2241 or gpb@mbak.com

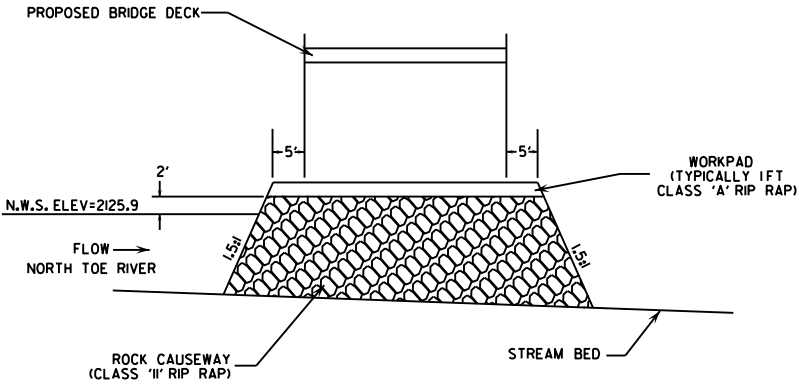
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Ames Construction

INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

WORKPAD #1 DETAIL
(NOT TO SCALE)



QUANTITIES OF ESTIMATES

VOLUME OF CLASS II RIP RAP= 770 yds³
AREA OF CLASS II RIP RAP= 0.237 ac
Estimate 110 Tons Class 'II' Rip Rap
Estimate 840 Tons Class 'A' Rip Rap

PERMIT DRAWING
SHEET 3 OF 6
DATE: 6/4/2026

M-0572D

044

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MITCHELL &
YANCEY COUNTIES

ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

PREPARED BY

Michael Baker

INTERNATIONAL
SUNGATE

19010 N. Main St., Suite 100, Raleigh, NC 27605
Phone: (919) 870-2200 or (919) 870-2201

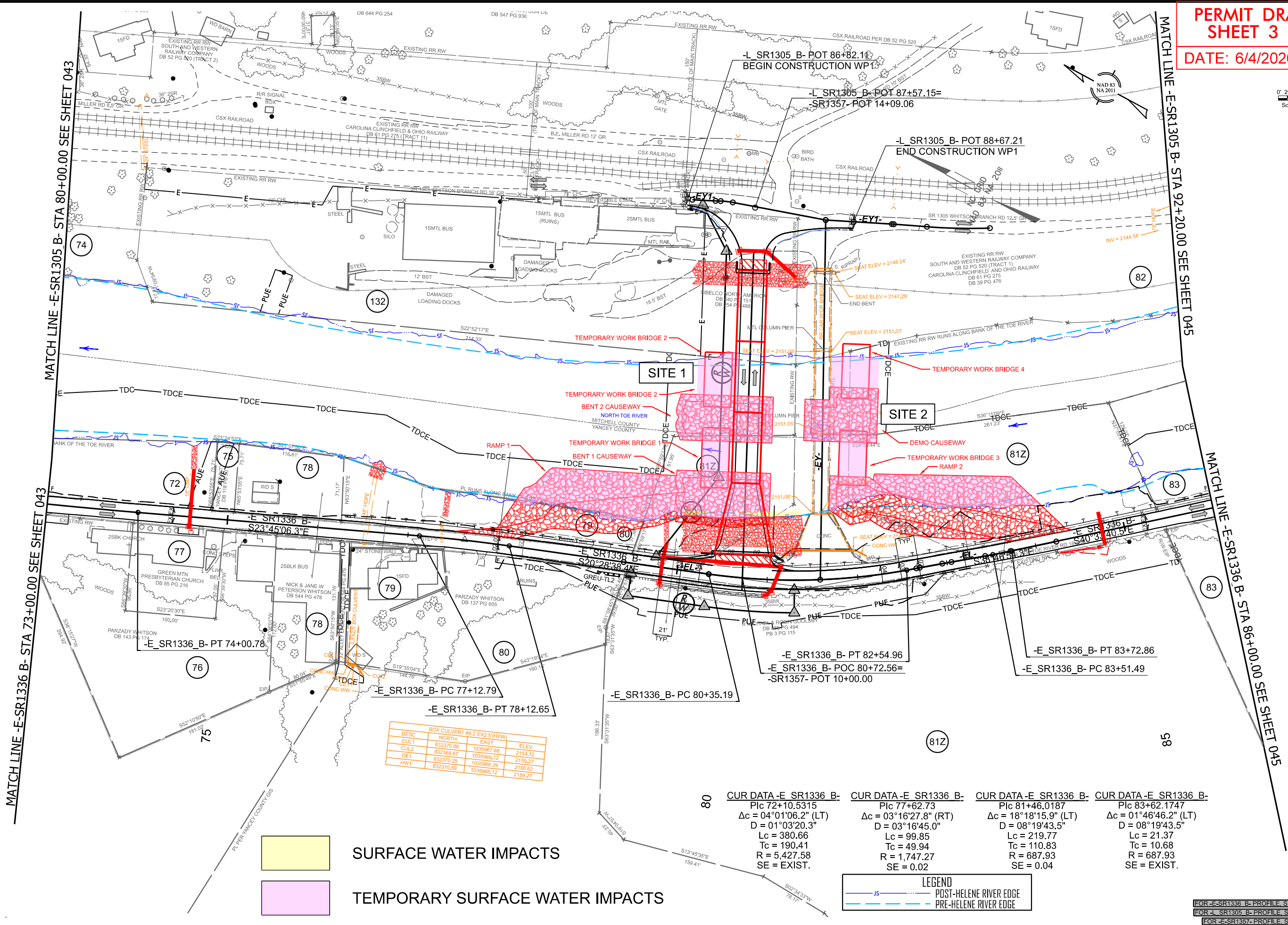


Ames Construction

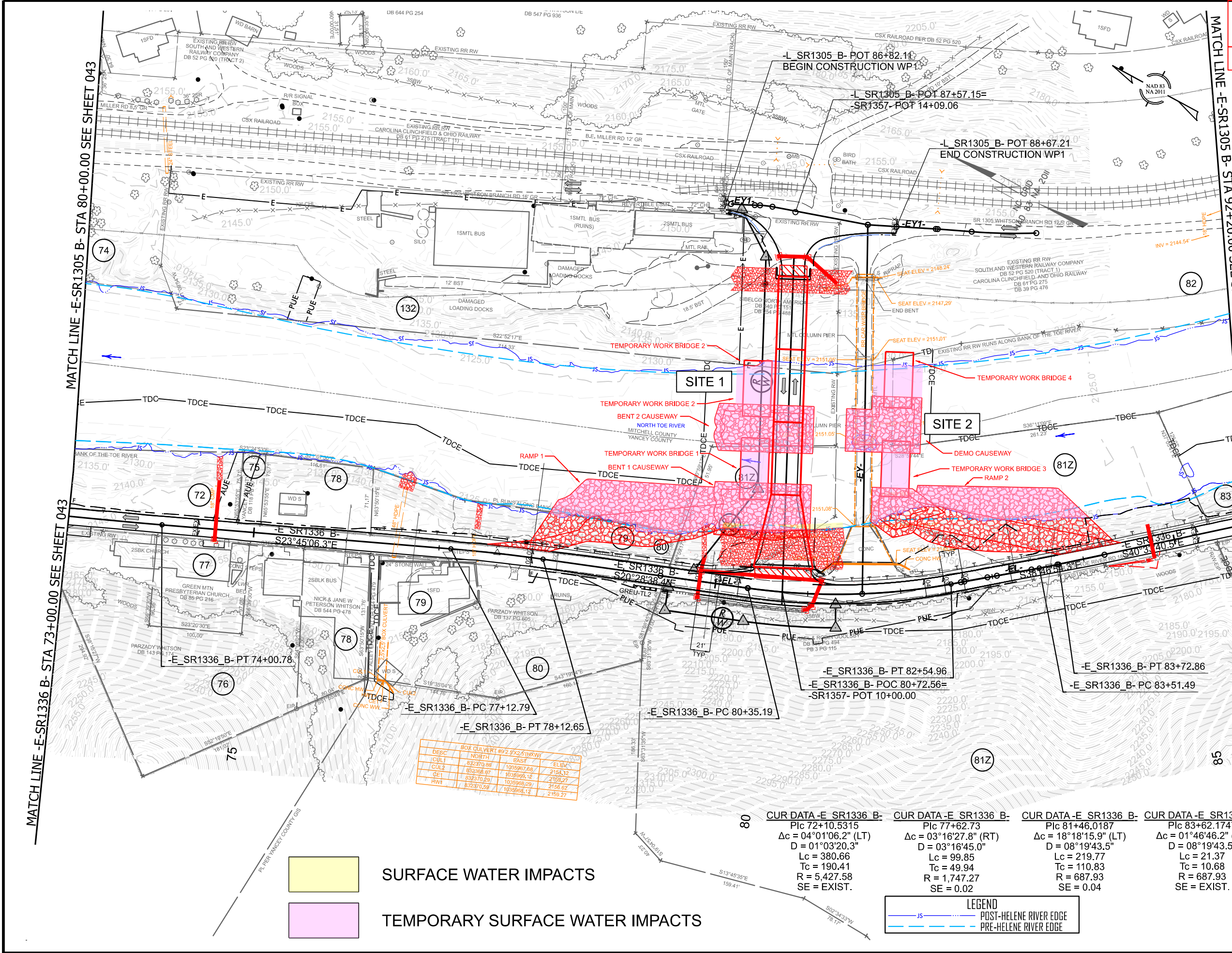
INCOMPLETE PLANS
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

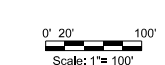
0' 20' 100'
Scale: 1" = 100'



FOR -E-SR1336 B- PROFILE, SEE SHEET 088
FOR -L SR1305 B- PROFILE, SEE SHEET 101
FOR -E-SR1357- PROFILE, SEE SHEET 101



PERMIT DRAWING
SHEET 4 OF 6
DATE: 6/4/2026



M-0572D
044

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
MITCHELL & YANCEY COUNTIES

ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER

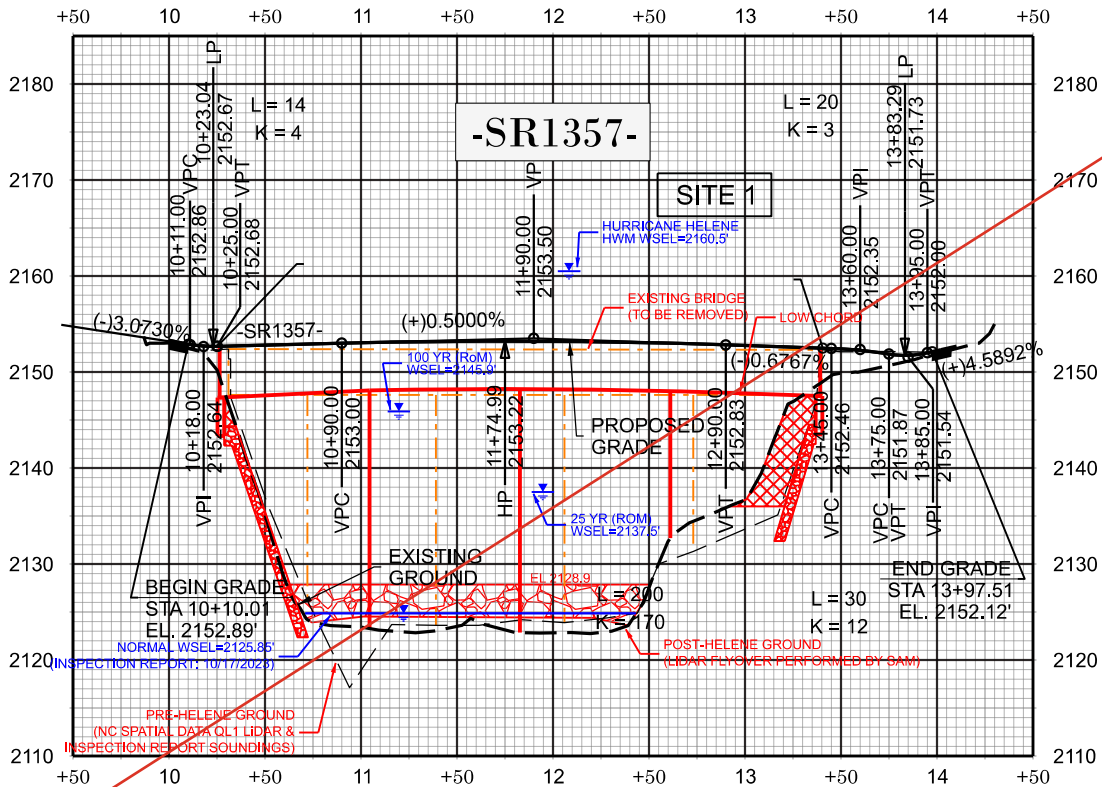
HYDRAULICS
ENGINEER

PREPARED BY
Michael Baker
INTERNATIONAL
SUNGATE

Ames Construction

INCOMPLETE PLANS
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

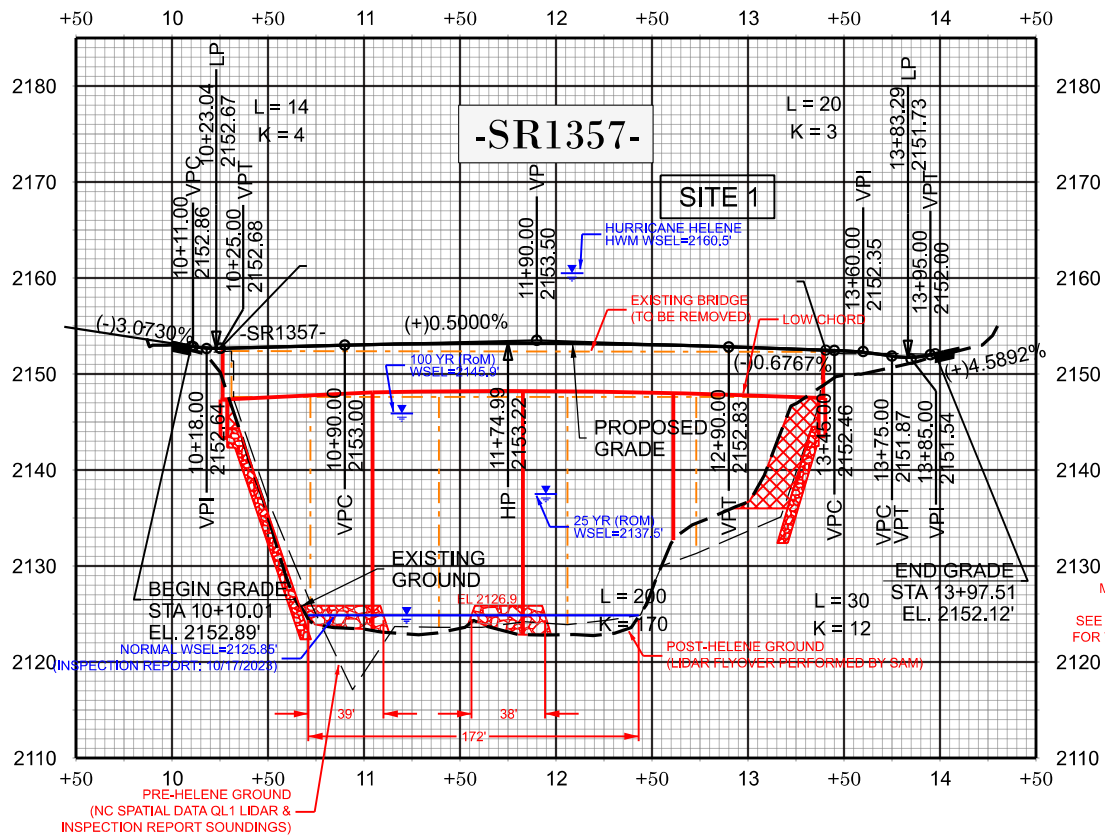
REVISIONS



BRIDGE 229 CAUSEWAY CONSTRUCTION SEQUENCING

- PHASE 1**
- INSTALL RAMP 1.
 - INSTALL BENT 1 CAUSEWAY.
- PHASE 2**
- INSTALL BENT 2 CAUSEWAY WITH A CRANE FROM BENT 1 CAUSEWAY.
- PHASE 3**
- COMPLETE BENT 2 CAUSEWAY.
 - INSTALL TEMPORARY WORK BRIDGE 1 & 2.
 - COMPLETE PROPOSED BRIDGE CONSTRUCTION.
- PHASE 4**
- REMOVE TEMPORARY WORK BRIDGE 1 & 2.
 - REMOVE BENT 1 CAUSEWAY.
 - REMOVE RAMP 1.
- PHASE 5**
- INSTALL CAUSEWAY ACCESS FROM BENT 3 (EAST) BANK TO BENT 2 CAUSEWAY.
 - REMOVE BENT 2 CAUSEWAY.
 - REMOVE CAUSEWAY ACCESS FROM BENT 3 (EAST) BANK TO BENT 2 CAUSEWAY.
- PHASE 6**
- INSTALL RAMP 2.
 - INSTALL DEMO CAUSEWAY WITH A CRANE.
- PHASE 7**
- INSTALL TEMPORARY WORK BRIDGE 3 & 4.
 - COMPLETE DEMO
- PHASE 8**
- REDUCE SIZE OF DEMO CAUSEWAY.
 - REMOVE TEMPORARY WORK BRIDGE 3 & 4.
 - REMOVE RAMP 2.
- PHASE 9**
- INSTALL CAUSEWAY ACCESS FROM EAST BANK TO DEMO CAUSEWAY.
 - REMOVE DEMO CAUSEWAY.
 - REMOVE CAUSEWAY ACCESS FROM EAST BANK TO DEMO CAUSEWAY.
- NOTES:**
- 1) PLEASE REFER TO EITHER PERMIT DRAWING SHEET 3 OR 4 FOR LABELS CORRESPONDING TO THE CAUSEWAY AND WORK BRIDGE NUMBER REFERENCED IN THE ABOVE SEQUENCING.
 - 2) DISREGARD THE PROFILE REPRESENTATION OF THE CAUSEWAY ON THIS SHEET AND REFER TO EITHER PERMIT DRAWING SHEET 3 OR 4 WHEN GOING THROUGH THE ABOVE CONSTRUCTION SEQUENCE.

FOR E SR1305 C-PLAN, SEE SHEET 054



BRIDGE 229 CAUSEWAY CONSTRUCTION SEQUENCING

- PHASE 1**
- INSTALL RAMP 1.
 - INSTALL BENT 1 CAUSEWAY.
- PHASE 2**
- INSTALL BENT 2 CAUSEWAY WITH A CRANE FROM BENT 1 CAUSEWAY.
- PHASE 3**
- COMPLETE BENT 2 CAUSEWAY.
 - INSTALL TEMPORARY WORK BRIDGE 1 & 2.
 - COMPLETE PROPOSED BRIDGE CONSTRUCTION.
- PHASE 4**
- REMOVE TEMPORARY WORK BRIDGE 1 & 2.
 - REMOVE BENT 1 CAUSEWAY.
 - REMOVE RAMP 1.
- PHASE 5**
- INSTALL CAUSEWAY ACCESS FROM BENT 3 (EAST) BANK TO BENT 2 CAUSEWAY.
 - REMOVE BENT 2 CAUSEWAY.
 - REMOVE CAUSEWAY ACCESS FROM BENT 3 (EAST) BANK TO BENT 2 CAUSEWAY.
- PHASE 6**
- INSTALL RAMP 2.
 - INSTALL DEMO CAUSEWAY WITH A CRANE.
- PHASE 7**
- INSTALL TEMPORARY WORK BRIDGE 3 & 4.
 - COMPLETE DEMO
- PHASE 8**
- REDUCE SIZE OF DEMO CAUSEWAY.
 - REMOVE TEMPORARY WORK BRIDGE 3 & 4.
 - REMOVE RAMP 2.
- PHASE 9**
- INSTALL CAUSEWAY ACCESS FROM EAST BANK TO DEMO CAUSEWAY.
 - REMOVE DEMO CAUSEWAY.
 - REMOVE CAUSEWAY ACCESS FROM EAST BANK TO DEMO CAUSEWAY.
- NOTES:**
- 1) PLEASE REFER TO EITHER PERMIT DRAWING SHEET 3 OR 4 FOR LABELS CORRESPONDING TO THE CAUSEWAY AND WORK BRIDGE NUMBER REFERENCED IN THE ABOVE SEQUENCING.
 - 2) DISREGARD THE PROFILE REPRESENTATION OF THE CAUSEWAY ON THIS SHEET AND REFER TO EITHER PERMIT DRAWING SHEET 3 OR 4 WHEN GOING THROUGH THE ABOVE CONSTRUCTION SEQUENCE.

FOR E SR1357-PLAN, SEE SHEET 044

