



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

September 15, 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:
Henderson Bridge 245 over Featherstone Creek on SR 1528 (Locust Grove
Road) Division 14, WBS DF18314.2045335.

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-2026-01452 Dated September 11, 2026	March 14, 2031
NC Division of Water Resources Section 401 Water Quality Certification	Water Quality Certification No. 8562 [3] Project ID: 20261064 Dated August 12, 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
WILMINGTON REGULATORY OFFICE
69 DARLINGTON AVENUE
WILMINGTON NORTH CAROLINA 28403

September 11, 2026

Regulatory Division
SAW-2026-01452

Sent Via email: recrowther@ncdot.gov

NC Department of Transportation
Mr. Robert Crowther
345 Toot Hollow Road
Bryson City, NC 28713

Dear Mr. Crowther:

This letter is in response to the Pre-Construction Notification (PCN) you submitted to the Wilmington District, WRDA/Transportation Branch on August 11, 2026, for a Department of the Army Nationwide Permit (NWP) verification. This project has been assigned the file number SAW-2026-01452 and is known as the Bridge 245 replacement project. 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 the replacement of a bridge destroyed by Hurricane Helene and will involve the permanent impact to 160 lf of stream channel and the temporary impact to 25 lf of stream channel. The Bridge 245 replacement project is located where Locust Grove Road crosses Featherstone Creek in Hendersonville, Henderson County, North Carolina, at Latitude 35.393944 and Longitude -82.44228.

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) This Department of the Army permit does not authorize you to take an endangered species, in particular the federally listed or proposed gray bat (*Myotis grisescens*), tricolored bat (*Perimyotis subflavus*), and northern long-eared bat (*Myotis septentrionalis*, NLEB). In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g., an ESA Section 10 permit, or a BO under ESA Section 7, with "incidental take" provisions with which you must comply). The enclosed U.S. Fish and Wildlife Service Biological Opinion (BO) 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. Your authorization under this permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the attached BO, 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, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your permit. The U.S. Fish and Wildlife Service is the appropriate authority to determine compliance with the terms and conditions of its BO, and with the ESA
- 2) Per correspondence with WRC, geotextile will only be placed under riprap in locations directed by the engineer to ensure that the class II surface is at stream grade and not causing flow burial.
- 3) In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.

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 Crystal Amschler, WRDA Project Manager of the WRDA at 828-526-6013, by mail at the above address, or by email at crystal.c.amschler@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 some red ink marks above and below the signature.

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

Enclosures

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 Appalachian elktoe, 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 of in-water impacts, if LAA for Appalachian elktoe.
 - ii. Acreage and dates of tree removal (if any), if LAA for bats (excepting gray bat).
 - iii. Dates of structure removal (if any), if LAA for bats.
 - iv. List of implemented AMMs and BMPs [as listed in Section 2.3].

8. Conservation Recommendations

Section 7(a)(1) of the Endangered Species ESA directs Federal agencies to use their authorities to further the purposes of the Endangered Species ESA 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.

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 crystal.c.amschler@usace.army.mil or by mail at the below address: U.S. Army Corps of Engineers Wilmington District Office Street Address: 151 Patton Ave Rm 208 City: Asheville State: NC Zip Code: 28801														
COMPLETED BY THE CORPS														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;">Corps Action Number:</td> <td style="border-bottom: 1px solid black;">SAW-2026-01452</td> </tr> <tr> <td>Permit Type: <u>General Permit</u></td> <td></td> </tr> <tr> <td>General Permit Number and Name <i>(if applicable)</i>:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>Name of Permittee:</td> <td style="border-bottom: 1px solid black;">Rob Crowther</td> </tr> <tr> <td>Project Name:</td> <td style="border-bottom: 1px solid black;">the Br 245 replacement project</td> </tr> <tr> <td>Project Location <i>(physical address)</i>:</td> <td style="border-bottom: 3px double black;">located where Locust Grove Road crosses Featherstone Creek in Hendersonville</td> </tr> </table>			Corps Action Number:	SAW-2026-01452	Permit Type: <u>General Permit</u>		General Permit Number and Name <i>(if applicable)</i> :		Name of Permittee:	Rob Crowther	Project Name:	the Br 245 replacement project	Project Location <i>(physical address)</i> :	located where Locust Grove Road crosses Featherstone Creek in Hendersonville
Corps Action Number:	SAW-2026-01452													
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Name of Permittee:	Rob Crowther													
Project Name:	the Br 245 replacement project													
Project Location <i>(physical address)</i> :	located where Locust Grove Road crosses Featherstone Creek in Hendersonville													
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												

U.S. ARMY CORPS OF ENGINEERS
Wilmington District
Compensatory Mitigation Responsibility Transfer Form

Permittee: NCDOT

Project Name: Bridge 245 replacement project

Action ID: SAW-2026-01452

County: Henderson

Instructions to Permittee: The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Division of Mitigation Services (NCDMS), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that Wilmington District Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one Mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate Mitigation Sponsors.

Instructions to Sponsor: The Sponsor verifies that the mitigation requirements (credits) shown below have been released and are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether they have received payment from the Permittee. Once the form is signed, the Sponsor must update the bank ledger and provide a copy of the signed form and the updated ledger to the Permittee, the Project Manager who issued the permit, the Bank Project Manager, and the District Mitigation Office (see contact information on page 2). The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

Permitted Impacts and Compensatory Mitigation Requirements

Permitted Impacts Requiring Mitigation*:

8-digit HUC and Basin: 06010105, French Broad River Basin

Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
	98					

*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements:

8-digit HUC and Basin: 06010105, French Broad River Basin

Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
	98					

Mitigation Site Debited: _____

(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCDMS, list NCDMS. If the NCDMS acceptance letter identifies a specific site, also list the specific site to be debited).

Section to be completed by the Mitigation Sponsor

Statement of Mitigation Liability Acceptance: I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCDMS), as approved by the Wilmington District, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements.

Mitigation Sponsor Name: _____

Name of Sponsor's Authorized Representative: _____

Signature of Sponsor's Authorized Representative

Date of Signature

**USACE Wilmington District
Compensatory Mitigation Responsibility Transfer Form, Page 2**

Conditions for Transfer of Compensatory Mitigation Credit:

- Once this document has been signed by the Mitigation Sponsor and the District is in receipt of the signed form, the Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only after the District is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein. When NCDMS provides mitigation for authorized impacts conducted by the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon permit issuance; however, a copy of this form signed by NCDMS must be provided to the District within 30 days of permit issuance. NCDOT remains fully responsible for the mitigation until the District has received this form, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure that the District Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the District, the Sponsor must obtain case-by-case approval from the District Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the District administrative records for both the permit and the Bank/ILF Instrument.

Comments/Additional Conditions:

This form is not valid unless signed below by the District Project Manager and by the Mitigation Sponsor on Page 1. ***Once signed, the Sponsor should provide copies of this form along with an updated bank ledger to: 1) the Permittee, 2) the District Project Manager at the address below, 3) the Bank Manager listed in RIBITS, and 4) the Wilmington District Mitigation Office, 3331 Heritage Trade Drive, Suite 105, Wake Forest, NC 27587 (or by email to SAWMIT@usace.army.mil).*** Questions regarding this form or any of the permit conditions may be directed to the District Mitigation Office.

USACE Project Manager: Crystal Amschler
USACE Field Office: WRDA Transportation Branch
US Army Corps of Engineers
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

Email:

Crystal Amschler Digitally signed by Crystal Amschler
Date: 2026.09.15 16:07:06 -04'00'
Click here to enter a date.

Wilmington District Project Manager Signature **Date of Signature**

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at <http://ribits.usace.army.mil>.

401

Certification (NCDWR)

JOSH STEIN
Governor

D. REID WILSON
Secretary

RICHARD E. ROGERS, JR.
Director



NORTH CAROLINA
Environmental Quality

August 12, 2026

DWR # 20261064
Henderson County

Mr. Robert Crowther
NCDOT Environmental Analysis Unit
1598 Mail Service Center
Raleigh NC 27699
recrowther@ncdot.gov

Subject: Certificate of Coverage Approval under Water Quality General Certification No. 8562

NCDOT Project: DF18314.2045335: Bridge 440245 on SR 1528

Location: Lat 35.393944, Long -82.44225t 35.393944, Long -82.44225

Dear Mr. Crowther:

This Certificate of Coverage approval is issued to the North Carolina Department of Transportation, dated August 12, 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) with fee on August 11, 2026. 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

Site & Type of Impact	Amount Approved Permanent	Amount Approved Temporary
Perennial Streams		
1: Channel Change	98 linear feet	10 linear feet
2: Tributary (SA) Pipe	0 linear feet	10 linear feet
3: Bridge: Stream Reestablishment	62 linear feet	10 linear feet
Totals:	160 linear feet	30 linear feet

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 Rob Ridings at 919-707-8786 or rob.ridings@deq.nc.gov if you have any questions or concerns.

Sincerely,

Signed by:

3185423002EA45E...

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

Enclosures: Notice Regarding The Right To Contest A DWR 401 Water Quality Certification Decision
GC 8562

Electronic cc:

Lori Beckwith, USACE Asheville Regulatory Field Office (loretta.a.beckwith@usace.army.mil)

Mike Sanderson, NCDOT Division 13 Environmental Officer (jmsanderson@ncdot.gov)

DWR 401 & Buffer Permitting Branch Electronic file



**NOTICE REGARDING THE RIGHT TO CONTEST A DWR DECISION ON A 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: DF18314.2045335		TIP/Proj No: DF18314.2045335		County(ies): Henderson		Page 1 of 2	
General Project Information							
WBS Element:		DF18314.2045335		TIP Number:		DF18314.2045335	
NCDOT Contact:		Zach Shuler		Project Type:		Bridge Replacement	
Contractor / Designer:		Trent Cormier		Date:		7/1/2026	
Address:		345 Toot Hollow Road Bryson City, NC 28713		Address:		324 Blackwell St Suite 1200 Durham, NC 27701	
Phone:		(828) 488-0922		Phone:		(919)-414-4410	
Email:		ztshuler@ncdot.gov		Email:		trent.cormier@threeoaksengineering.com	
City/Town:		Hendersonville		County(ies):		Henderson	
River Basin(s):		French Broad		CAMA County?		No	
Wetlands within Project Limits?		No					
Project Description							
Project Length (lin. miles or feet):		0.048 mi		Surrounding Land Use:		Rural, mountainous, with some residential	
Proposed Project				Existing Site			
Project Built-Upon Area (ac.)		0.2 ac.		Project Built-Upon Area (ac.)		0.1 ac.	
Typical Cross Section Description:		Two 10' asphalt lanes with 3' paved shoulders		Typical Cross Section Description:		Two 10' lanes with 3' gravel shoulders	
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 450		Year: 2026		Existing: 450	
General Project Narrative:		NCDOT Division 13 proposed to replace Bridge 440245 on SR 1528 (Locust Grove Rd.) over a jurisdictional stream (Featherstone Creek) in Henderson County, North Carolina. The existing roadway and structure were damaged by Hurricane Helene. During construction, minimization measures will be used, such as 2:1 fill slopes in many areas to stay out of the existing stream and not encroach on the existing driveway bridge. The slopes on the proposed ditch were held to 2:1 in order to completely avoid the Dam. A pipe system was added that connects to the proposed ditch in order to avoid a utility pole relocation that would have occurred very close to the existing stream bank as well. Rip rap outlet pads are constructed at all pipe outlets to minimize erosion.					
(Description of Minimization of Water Quality Impacts)		At the beginning of the project, there was no way to avoid stream impacts while keeping the existing stream banks stable. In order to cause the least amount of long term impacts to the environment, a channel change was made to help retain the channel width and structure as much as possible while creating a stable roadway embankment.					
		For the main crossing, there are currently 3 @ 48" corrugated metal pipes that are filled over with gravel in place of the bridge that was washed out from Hurricane Helene. During construction, the gravel and pipes will be removed. There will be stream re-establishment along the vertical abutments and banks in order to minimize any bank erosion and to stabilize the banks from the hurricane damage. The stream re-establishment will be keyed in, and the bottom of the channel will be returned to its natural material. Vertical abutments will also be constructed so the bridge will stay out of the stream to the greatest extent.					



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

WBS Element: DF18314.2045335 TIP/Proj No.: DF18314.2045335 County(ies): Henderson Page 2 of 2

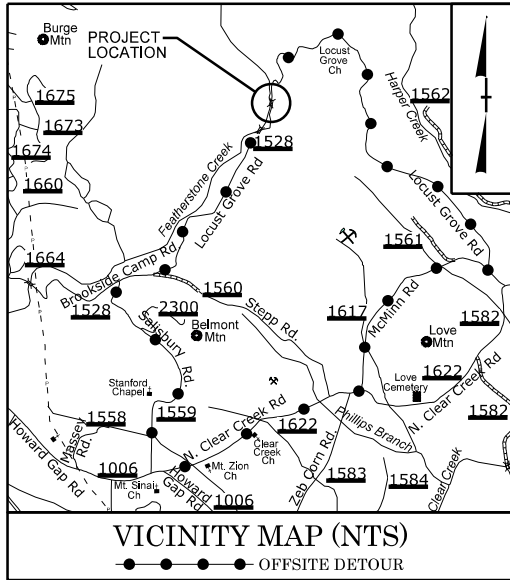
General Project Information

Waterbody Information

Surface Water Body (1):	Featherstone Creek		NCDWR Stream Index No.:	6-55-12	
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C		
		Supplemental Classification:	None		
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)					
Surface Water Body (2):	UT Featherstone Creek		NCDWR Stream Index No.:	6-55-12	
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C		
		Supplemental Classification:	None		
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?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A
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)					

CONTRACT: DN01095 TIP PROJECT: DF18314.2045335

See Sheet 1A For Index of Sheets



RIGHT OF WAY PLAN SET SUBMITTAL

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

HENDERSON COUNTY

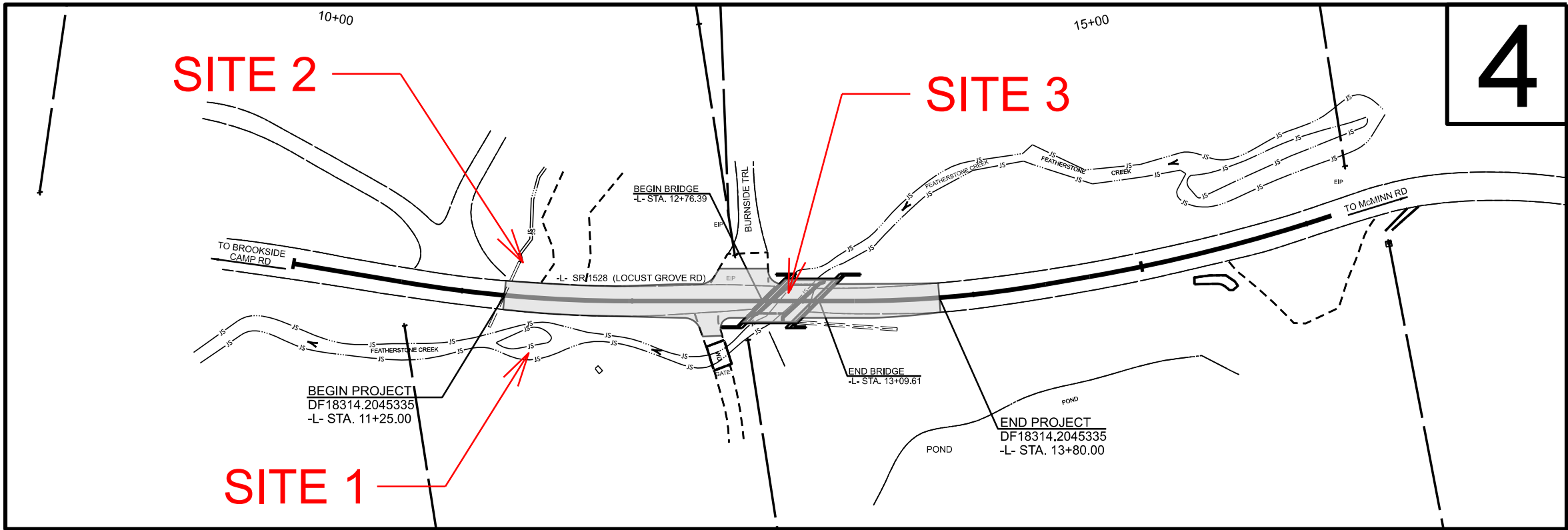
LOCATION: *REPLACEMENT OF BRIDGE NO. 440245 ON SR 1528
(LOCUST GROVE RD) OVER FEATHERSTONE CREEK*

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



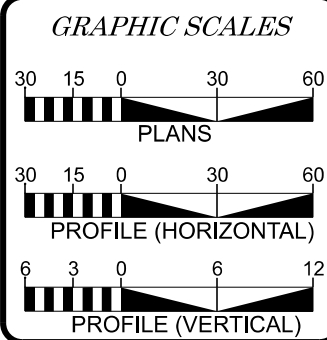
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18314.2045335	11	
STATE PROJ. NO.		F.A. PROJ. NO.	DESCRIPTION
DF18314.2045335			PE
DF18314.2045335			ROW / UTIL.
DF18314.2045335			CONST.

PERMIT DRAWING
SHEET 1 OF 5



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

CLEARING ON THIS PROJECT WILL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.



DESIGN DATA

ADT (PER RFP) = 450
V = 35 MPH

FUNC CLASS = LOCAL
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT DF18314.2045335 = 0.042 MILES
LENGTH OF STRUCTURE TIP PROJECT DF18314.2045335 = 0.006 MILES
TOTAL LENGTH OF TIP PROJECT DF18314.2045335 = 0.048 MILES

PLANS PREPARED BY:
VOLKERT
5430 Wade Park Blvd., Suite 410
Raleigh, NC 27606 Tel. 919-484-0344
NC License No. F-0765

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
EEDB

LETTING DATE:
EEDB

PLANS PREPARED FOR:
DIVISION OF HIGHWAYS
DIVISION 14
345 TOOT HOLLOW RD.
BRYSON CITY, NC 28713

CHRISTOPHER H. LEE, PE
PROJECT ENGINEER

W. CRAIG PARKER, PE
PROJECT DESIGN ENGINEER

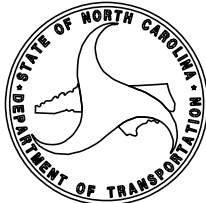
ZACH SHULER, PE
NCDOT CONTACT
DIVISION 14 PROJECT MANAGER

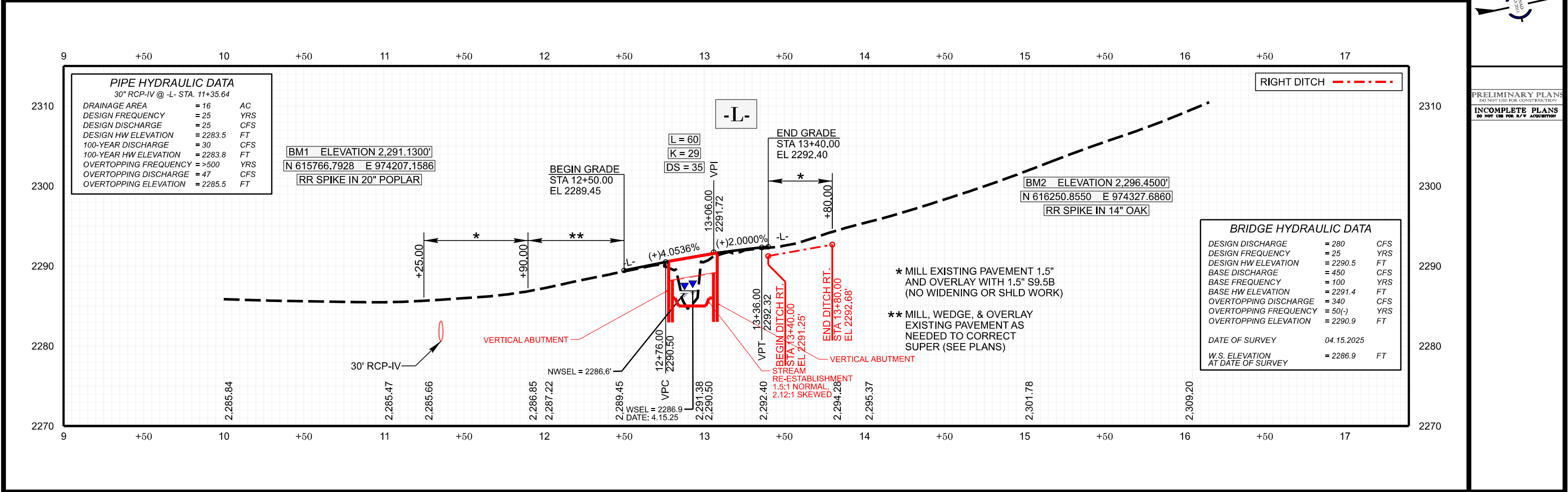
HYDRAULICS ENGINEER

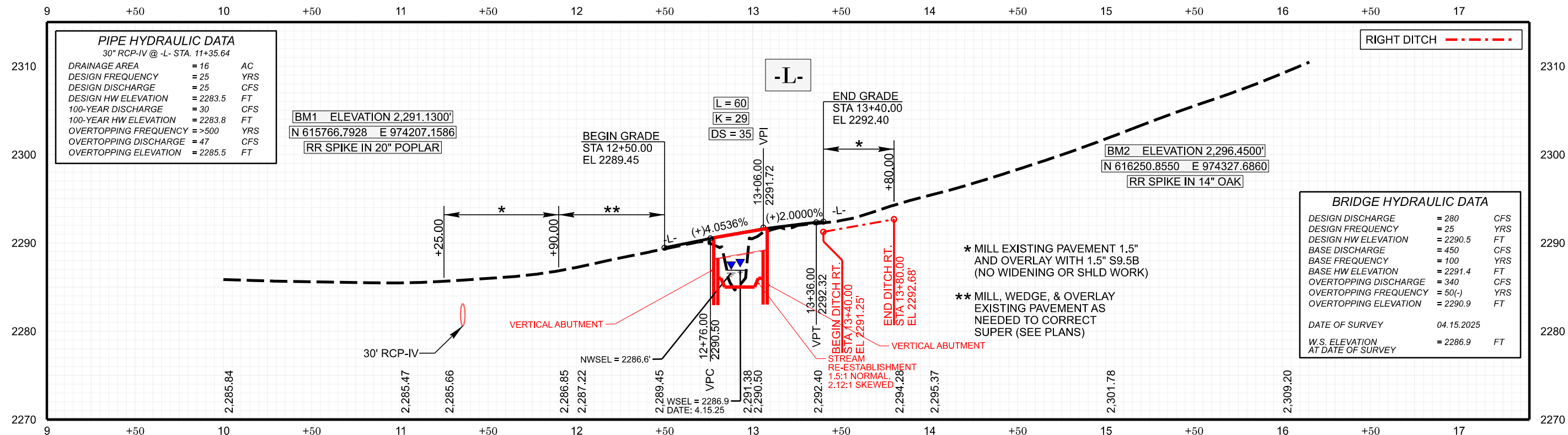
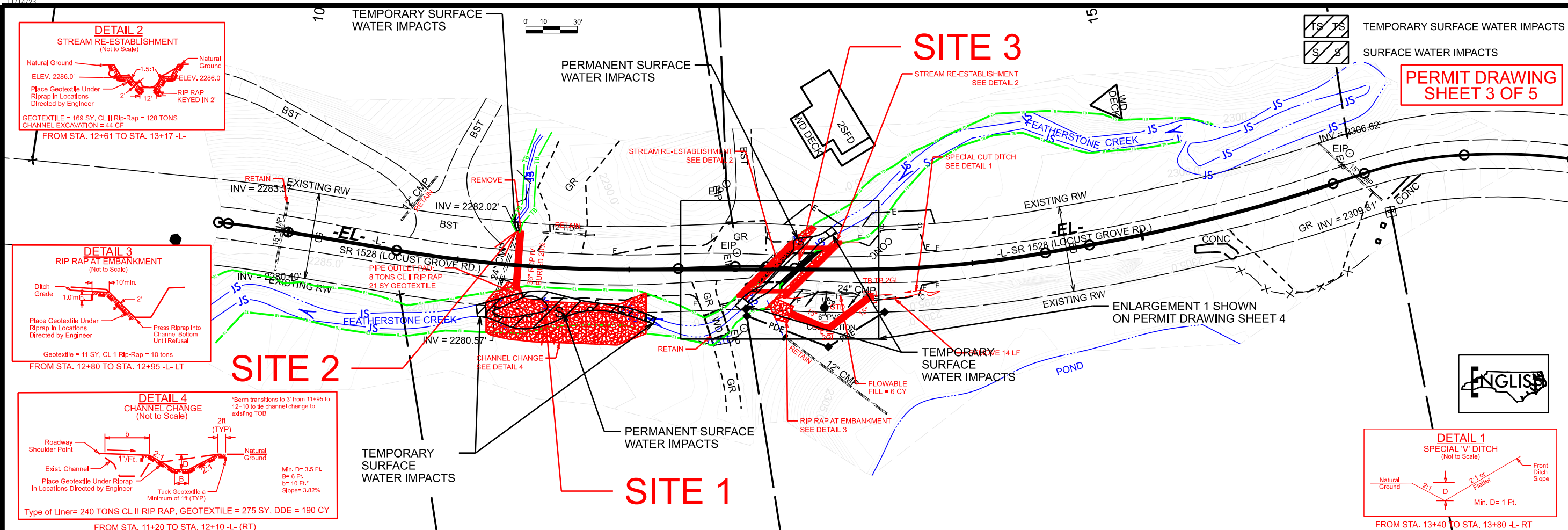
324 Blackwell St., Suite 1200
Durham, NC 27701
919-732-1300
NC Firm License No. F-1334

SIGNATURE: _____
ROADWAY DESIGN ENGINEER

SIGNATURE: _____
P.E.







DF18314.2045335

2RD4 04
ROADWAY DESIGN
ENGINEER

VOLKERT

5430 Wade Park Blvd., Suite 410
Raleigh, NC 27605 Tel. 919-854-0344
NC Firm License No. F-0765HYDRAULIC DESIGN
ENGINEERDOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETEDSTATE OF NORTH CAROLINA
HENDERSON COUNTY

DO NOT USE FOR CONSTRUCTION

PRELIMINARY PLANS

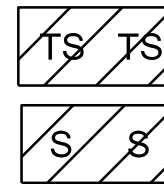
INCOMPLETE PLANS

DO NOT USE FOR B.V. ACQUISITION

PERMIT DRAWING
SHEET 4 OF 5

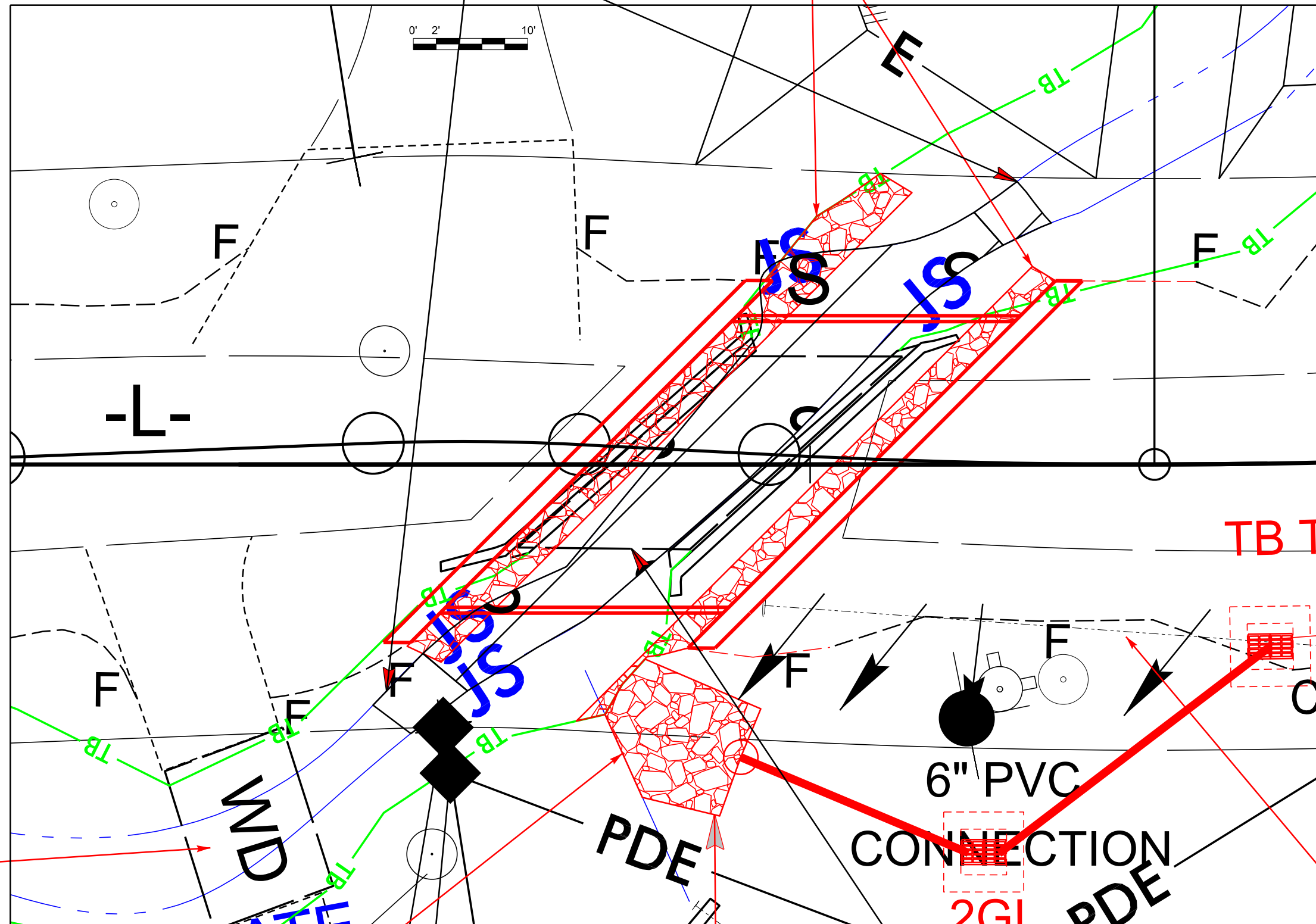
TEMPORARY SURFACE WATER IMPACTS

STREAM RE-ESTABLISHMENT
SEE DETAIL 2



TEMPORARY SURFACE WATER IMPACTS

SURFACE WATER IMPACTS



RETAIN

RIP RAP AT EMBANKMENT
SEE DETAIL 3

SITE 3

PERMANENT SURFACE
WATER IMPACTS

FLOWABLE
FILL = 6 CY



DF18314.2045335

ROADWAY DESIGN
ENGINEER

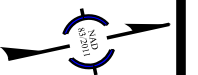
VOLKERT

5430 Wade Park Blvd., Suite 410
Raleigh, NC 27605 Tel. 919-854-0344
NC Firm License No. F-0765

HYDRAULIC DESIGN
ENGINEER

324 Blackwell St.
Suite 1200
Durham, NC 27701
919-732-1300
NC Firm License
No. F-4334

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STATE OF NORTH CAROLINA
HENDERSON COUNTY



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR B.V. ACQUISITION

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	11+14 to 12+16 -L-	Channel Change						0.02	< 0.01	98	10	
2	11+31 to 11+34 -L-	Pipe installation							< 0.01		5	
3	12+62 to 13+21 -L-	Stream Re-establishment						< 0.01	< 0.01	62	10	
TOTALS*:								0.03	< 0.01	160	25	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

06/30/2026

Henderson County

DF18314.2045335

DF18314.2045335