




STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

September 18, 2025

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 186 over South Fork Mills River on SR 1340 (Dalton Road)
Division 14, WBS DF18314.2045392.

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-2025-01631 Dated September 18, 2025	March 14, 2026*
NC Division of Water Resources Section 401 Water Quality Certification	Individual Water Quality Certification, ID: 20251112 v1 Dated September 11, 2025	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.

*All 404 Nationwide Permits expire on March 14, 2026. Since new Nationwide Permits are not issued until the previous set expires, a one-year period exists between March 14, 2026, and March 14, 2027 to complete construction, or renew the permit under the new Nationwide Permit.

ECAP will coordinate with Division Environmental Staff to determine project completion timelines and initiate the renewal process, if necessary.

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

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

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610

404 Permit (USACE)



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT
WRDA TRANSPORTATION BRANCH
69 DARLINGTON AVE
WILMINGTON NORTH CAROLINA 28403

September 18, 2025

Regulatory Division
SAW-2025-01631

Sent Via email: maturchy@ncdot.gov

NC Department of Transportation
Natural Environment Section
Mr. Michael Turchy
1598 Mail Service Center
Raleigh, NC 27699-1598

Dear Mr., Turchy:

This letter is in response to the Pre-Construction Notification (PCN) you submitted to the Wilmington District, WRDA/Transportation Branch on August 25, 2025, for a Department of the Army Nationwide Permit (NWP) verification. This project has been assigned the file number SAW-2025-01631 and is known as the DF18314.2045392 / Br 186 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 damaged by the Hurricane Helene storm event and would result in the temporary impact to 151 lf of stream channel. The project/review area is located where Dalton Road crosses the South Fork Mills River, approximately 460 feet southwest of the intersection of Dalton Road with South Mills River Road in Horse Shoe, Henderson County, North Carolina, at Latitude 35.375600 and Longitude -82.614300.

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 14, 2026, 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) and the Appalachian elktoe (*Alasmodonta raveneliana*). 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.

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, Project Manager of the WRDA/Transportation Branch 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, flowing style.

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

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)														
<p>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.</p>														
<p>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.</p> <p>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.</p>														
<p>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.</p> <p>The certification can be submitted by email at <u>Enter Email Name</u> @usace.army.mil or by mail at the below address:</p> <div style="text-align: center; margin-top: 20px;"> U.S. Army Corps of Engineers Wilmington District Office Street Address: 151 Patton Ave Room 208 City: Asheville State: North Carolina Zip Code: 28801 </div>														
COMPLETED BY THE CORPS														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;">Corps Action Number:</td> <td>SAW-2025-01631</td> </tr> <tr> <td>Permit Type: <u>General Permit</u></td> <td></td> </tr> <tr> <td>General Permit Number and Name (if applicable):</td> <td></td> </tr> <tr> <td>Name of Permittee:</td> <td>Michael Turchy</td> </tr> <tr> <td>Project Name:</td> <td>the DF18314.2045392 / Br 186 replacement project</td> </tr> <tr> <td>Project Location (physical address):</td> <td>Dalton Road crosses the South Fork Mills River Horse Shoe, North Carolina</td> </tr> </table>			Corps Action Number:	SAW-2025-01631	Permit Type: <u>General Permit</u>		General Permit Number and Name (if applicable):		Name of Permittee:	Michael Turchy	Project Name:	the DF18314.2045392 / Br 186 replacement project	Project Location (physical address):	Dalton Road crosses the South Fork Mills River Horse Shoe, North Carolina
Corps Action Number:	SAW-2025-01631													
Permit Type: <u>General Permit</u>														
General Permit Number and Name (if applicable):														
Name of Permittee:	Michael Turchy													
Project Name:	the DF18314.2045392 / Br 186 replacement project													
Project Location (physical address):	Dalton Road crosses the South Fork Mills River Horse Shoe, North Carolina													
PERMITTEE'S CERTIFICATION														
<p>Date Work Started: _____</p> <p>Date Work Completed: _____</p> <p>Enclose photographs showing the completed project (if available).</p> <p>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.</p>														
Name	Date	Signature												

401

Certification (NCDWR)

JOSH STEIN
Governor

D. REID WILSON
Secretary

RICHARD E. ROGERS, JR.
Director



September 11, 2025

DWR # 20251112
Henderson County

North Carolina Department of Transportation
Attn: Michael Turchy
1598 Mail Service Center
Raleigh, North Carolina, 27699-1598

Delivered via email to: maturchy@ncdot.gov

Subject: Approval of Individual 401 Water Quality Certification
Replacement of Bridge 186 over South Fork Mills River on SR 1340
(Dalton Road), WBS DF18314.2045392

Location: 35. 3756, -82.6143

Dear Mr. Michael Turchy:

Attached hereto is a copy of Certification No. WQC008191 issued to Michael Turchy and the North Carolina Department of Transportation, dated September 11, 2025. This approval is for the purpose and design described in your application.

This Water Quality Certification does not relieve the Permittee of the responsibility to obtain all other required Federal, State, or Local approvals before proceeding with the project, including those required by, but not limited to, Sediment and Erosion Control, Non-Discharge, Water Supply Watershed, and Trout Buffer regulations.

Upon the presentation of proper credentials, the Division of Water Resources (Division) may inspect the property.

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.

Non-compliance with or violation of the conditions herein set forth may result in revocation of this Water Quality Certification for the project and may also result in criminal and/or civil penalties.



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

This approval and its conditions are final and binding unless contested [G.S. 143-215.5].

This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) **within sixty (60) calendar days**. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <https://www.oah.nc.gov> or by calling the OAH Clerk's Office at (919) 431-3000.

A party filing a Petition must serve a copy of the Petition on:

Dan Hirschman, General Counsel
Department of Environmental Quality
1601 Mail Service Center
Raleigh, NC 27699-1601

If the party filing the Petition is not the Permittee, then the party must also serve the recipient of the Certification in accordance with N.C.G.S. 150B-23(a).

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 Transportation Permitting Branch

Electronic cc: Crystal Amschler, USACE Asheville Regulatory Field Office
Patrick Breedlove, Division 14 PDEA Engineer
Holland Youngman, USFWS
Dave McHenry, NCWRC
DWR 401 & Buffer Permitting Branch Electronic file

Filename: 20251112_Bridge 186, WBS DF18314.2045392_Approval_20250911.docx



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

NORTH CAROLINA 401 WATER QUALITY CERTIFICATION

CERTIFICATION #WQC008191 is issued in conformity with the requirements of Section 401, Public Laws 92-500 and 95-217 of the United States and subject to North Carolina’s Regulations in 15 NCAC 02H .0500 and 15A NCAC 02B .0200, to Mr. Michael Turchy and the North Carolina Department of Transportation, who have authorization for the impacts listed below, as described within your application received by the N.C. Division of Water Resources (Division) on August 25, 2025, with additional information received on September 10, 2025, and by Public Notice issued by the Division on August 25, 2025, and within the *Reasonable Period of Time* pursuant to 40 CFR Part 121.6.

The State of North Carolina certifies that this activity will comply with water quality requirements and the applicable portions of Sections 301, 302, 303, 306, 307 of the Public Laws 92-500 and PL 95-217 if conducted in accordance with the application, the supporting documentation, and conditions hereinafter set forth.

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

Stream Impacts in the French Broad River Basin

Site	Permanent Fill in Perennial Stream (linear feet)	Temporary Fill in Perennial Stream (linear feet)	Total Stream Impact (linear feet)	Stream Impacts Requiring Mitigation (linear feet)
Site 1: Bank stabilization	136 linear feet	-	136 linear feet	0
Site 2: Temporary impervious dike	-	151 linear feet	151 linear feet	0
Totals:	136 linear feet	151 linear feet	287 linear feet	0

*Permanent impact, not permanent loss. Mitigation not required.

Total Stream Impact for Project: 287 linear feet

This approval requires you to follow the conditions listed in the Certification below.

CONDITIONS OF CERTIFICATION [15A NCAC 02H .0507(c)]:

Project Specific Conditions

1. The NCDOT Division Environmental Officer or Environmental Assistant will conduct a pre-construction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand the potential issues with the stream at the permitted site. NCDWR staff shall be invited to the pre-construction meeting. [15A NCAC 02H.0506(b)(2) and (b)(3)]



2. The permittee shall use Design Standards in Sensitive Watersheds in areas draining to Trout waters. [15A NCAC 4B.0124(a)-(e)]
3. NCDOT shall be in compliance with the NCS00250 issued to the NCDOT, including the applicable requirements of the NCG01000. Please note the extra protections for the sensitive watersheds.
4. The permittee will need to adhere to all appropriate in-water work moratoria (including the use of pile driving or vibration techniques) prescribed by the NC Wildlife Resources Commission. No in-water work is permitted between October 2026 and April 2027, without prior approval from the NC Division of Water Resources and the NC Wildlife Resources Commission.
5. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species. [15A NCAC 02H .0506(b)(2)]
6. As a condition of this 401 Water Quality Certification, the bridge demolition and construction must be accomplished in strict compliance with the most recent version of NCDOT's Best Management Practices for Construction and Maintenance Activities. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]
7. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. To meet the requirements of NCDOT's NPDES permit NCS0000250, please refer to the most recent version of the North Carolina Department of Transportation Stormwater Best Management Practices Toolbox manual for approved measures. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]
8. Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods. More specifically, jetting or other methods of pile driving are prohibited without prior written approval from the NCDWR first. [15A NCAC 02H.0506(b)(2)]
9. No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters. This water shall be captured, treated, and disposed of properly. [15A NCAC 02H .0506(b)(3)]
10. All bridge construction shall be performed from the existing bridge, temporary work bridges, temporary causeways, or floating or sunken barges. If work conditions require barges, they shall be floated into position and then sunk. The barges shall not be sunk and then dragged into position. Under no circumstances should barges be dragged along the bottom of the surface water. [15A NCAC 02H .0506(b)(3)]

General Conditions

1. Unless otherwise approved in this certification, placement of culverts and other structures in



open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and downstream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWR for guidance on how to proceed and to determine whether or not a permit modification will be required. [15A NCAC 02H.0506(b)(2)]

2. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
3. For all streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species. [15A NCAC 02H.0506(b)(2)]
4. During the construction of the project, no staging of equipment of any kind is permitted in waters of the state or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
5. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
6. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
7. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507 (c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
8. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A NCAC 02H.0506(b)(3) and (c)(3)]



9. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream. [15A NCAC 02H.0506(b)(3)]
10. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
11. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
12. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
13. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]
14. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
15. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
16. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization, including all non-commercial borrow and waste sites associated with the project, shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
17. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
18. Upon completion of the project (including any impacts at associated borrow or waste sites), the



NCDOT Division Engineer (or whomever is the authorized agent if a non-NCDOT project) shall complete and return the "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0507]

19. Native riparian vegetation (i.e., herbaceous, trees, and shrubs native to your geographic region) must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0506(b)(2)]
20. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities. [15A NCAC 02H.0506(b)(3) and (c)(3)]
21. Erosion control matting that incorporates plastic mesh and/or plastic twine shall not be used along streambanks or within jurisdictional wetlands. [15A NCAC 2H.0506; 15A NCAC 2H.0507]
22. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3)]:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the North Carolina Sediment and Erosion Control Manual. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Surface Mining Manual.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
23. Sediment and erosion control measures shall not be placed in wetlands or surface waters without prior approval from DWR. [15A NCAC 02H.0506(b)(3)]



24. DWR approves the stormwater drainage design as shown in the 401 application, under the assumption that it meets the requirements of the NCDOT NPDES permit #NCS000250. These plans are enforceable by DWR. Changes to the approved plans are prohibited without prior approval from DWR. If sediment or other pollutants are found to be discharged from the stormwater outfalls, DWR may take enforcement action. NCDOT and DWR shall assess the damage to water quality standards and implement an appropriate action plan to address the impacts. The action plan shall provide an appropriate timeline for implementation as agreed upon by both DWR and NCDOT. This may require NCDOT to obtain a modification to its current 401 and 404 permits.

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.

This, the 11th day of September 2025

Signed by:

Faith Hardin

3185423002EA45E...

Faith Hardin, Supervisor

401 & Buffer Transportation Permitting Branch



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: DF18314.2045392 TIP/Proj No: DF18314.2045392 County(ies): Henderson Page 1 of 2

General Project Information

WBS Element:		DF18314.2045392		TIP Number:	DF18314.2045392		Project Type:		Bridge Replacement		Date:	8/18/2025
NCDOT Contact:		Zach Shuler, Division 14 Project Manager				Contractor / Designer:		Jason Patskoski, Three Oaks Hydraulics				
	Address:	253 Webster Road Sylva, NC 28779					Address:	324 Blackwell St Suite #1200 Durham, NC 27701				
	Phone:	828-488-0902					Phone:	919-884-9153				
	Email:	ztshuler@ncdot.gov					Email:	jason.patskoski@threeoaksengineering.com				
City/Town:		Horse Shoe				County(ies):		Henderson				
River Basin(s):		French Broad				CAMA County?		No				
Wetlands within Project Limits?		No										

Project Description

Project Length (lin. miles or feet):	0.11	Surrounding Land Use:	Rural/residential
	Proposed Project		Existing Site
Project Built-Upon Area (ac.)	0.4	ac.	0.4
Typical Cross Section Description:	2 10' lanes with 3 ft paved shoulders		2 10' lanes with 3 ft paved shoulders
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	200	Year: 2040
	Existing:	100	Year: 2018

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

The new roadway typical will still be 10' lanes to stay consistent with what was existing so no major impervious area will be added. The fill slopes and any proposed ditches are outside of any stream crossings, and slopes were designed as steep as feasible to minimize encroachments into water ways. Fill slopes were used on driveways and the main alignment whenever feasible instead of ditches to minimize necessary ROW and construction outside of the roadway. Existing ditch grades were matched when feasible to reduce cut and fill. The stream will be restored to existing conditions, pre-scour from Hurricane Helene. This bridge replacement is needed due to damage from Hurricane Helene. There are no wetland areas within the study area. Impacts to South Fork Mills River are avoided by tying -DR2- to the existing driveway before the existing cross-pipe. Impacts to South Fork Mills River are limited to restoring the channel to the pre-Helene conditions. Top down construction will be used for the construction of the new bridge and demolition of the existing bridge. Proposed ditches maintain non-erosive velocities and tie to the rip-rap for the stream re-establishment.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

WBS Element: DF18314.2045392 TIP/Proj No.: DF18314.2045392 County(ies): Henderson Page 2 of 2

General Project Information

Waterbody Information

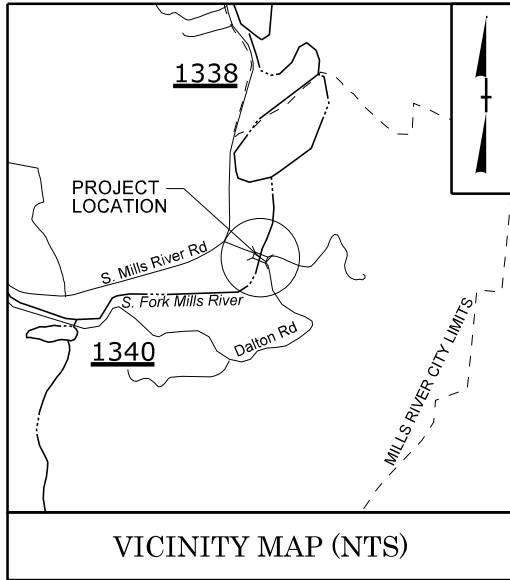
Surface Water Body (1):	South Fork Mills River	NCDWR Stream Index No.:	6-54-3-(17.5)		
NCDWR Surface Water Classification for Water Body	Primary Classification:	Water Supply II (WS-II)			
	Supplemental Classification:	Trout Waters (Tr)	High Quality Waters (HQP)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	Express Design, no NRTR's completed		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):	Unnamed Tributary of South Fork Mills River	NCDWR Stream Index No.:	6-54-3-(17.5)		
NCDWR Surface Water Classification for Water Body	Primary Classification:	Water Supply II (WS-II)			
	Supplemental Classification:	Trout Waters (Tr)	High Quality Waters (HQP)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	Express Design, no NRTR's completed		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?	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)					

CONTRACT: DN01095 TIP PROJECT: DF18314.2045392

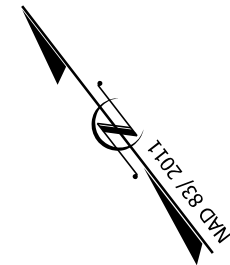
CONTRACT: DN01095 TIP PROJECT: DF18314.2045392

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

RIGHT OF WAY PLANS SUBMITTAL



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

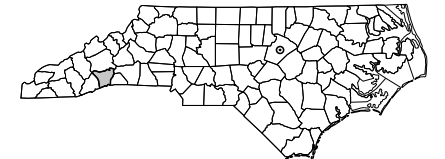
HENDERSON COUNTY

LOCATION: *REPLACEMENT OF BRIDGE NO. 440186 ON SR 1340
(DALTON RD) OVER SOUTH FORK MILLS RIVER*

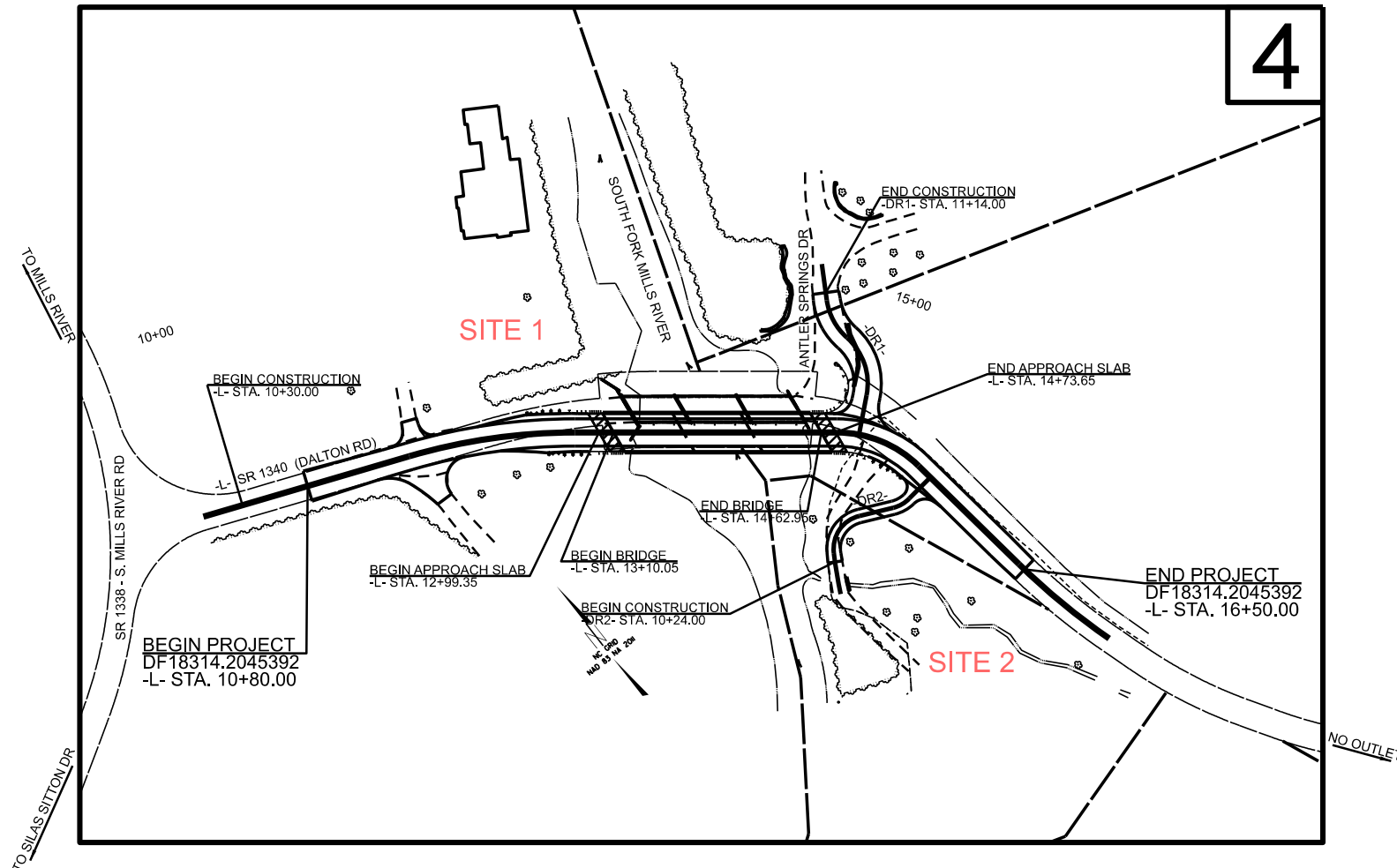
TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18314.2045392	11	
STATE PROJ. NO.		F.A. PROJ. NO.	DESCRIPTION
DF18314.2045392			PE
DF18314.2045392			ROW / UTIL.
DF18314.2045392			CONST.



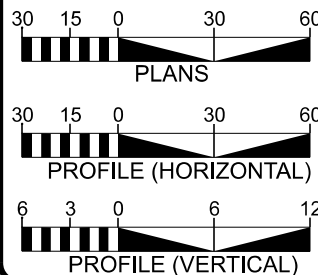
PERMIT DRAWING
SHEET 1 OF 5



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

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

GRAPHIC SCALES



DESIGN DATA

ADT (PER RFP) = 350
V = 25 MPH

FUNC CLASS = LOCAL
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT DF18314.2045392 = 0.079 MILES
LENGTH OF STRUCTURE TIP PROJECT DF18314.2045392 = 0.029 MILES
TOTAL LENGTH OF TIP PROJECT DF18314.2045392 = 0.108 MILES

PLANS PREPARED BY:

VOLKERT
5430 Wade Park Blvd., Suite 410
Raleigh, NC 27609
Tel: 919-854-0264 Fax: 919-854-0385
NC License No. F-0785

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 19, 2025

LETTING DATE:
AUGUST 19, 2025

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

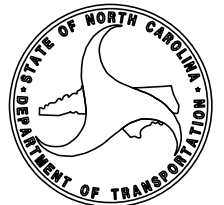
ZACH SHULER, PE
NCDOT CONTACT
DIVISION 14 PROJECT MANAGER

HYDRAULICS ENGINEER

NC Firm License No. F-1334
324 Blackwell Street
Suite 1200
Durham, NC 27701
919-752-1300

SIGNATURE: _____
ROADWAY DESIGN ENGINEER

SIGNATURE: _____
P.E.



DETAIL 1**WEST STREAM REESTABLISHMENT**
(Not to Scale)

Fill to Elev. 2157.5'
Coir fiber matting under fill
1.0'min.
1.5:1
Place Geotextile Under Riprap in Locations Directed by Engineer
Press Riprap into Channel Bottom Until Refusal

RIP RAP CL II = 99 TONS, GEOTEXTILE = 135 SY,
FILL = 412 CY, CUT = 111 CY, COIR FIBER MATTING = 397 SY

FROM -L- STA. 13+12 TO STA. 13+70

DETAIL 4**TAIL DITCH**
(Not to Scale)

Natural Ground
2:1
D
2:1
Natural Ground
DDE = 1 CY
Min. D= 1.0 Ft.
Slope = 0.98%

FROM -L- STA. 13+07 TO STA. 13+15

DETAIL 2**EAST STREAM REESTABLISHMENT**
(Not to Scale)

Fill to Elev. 2159.5'
2' Thickness
1.5:1
1.0'min.
Coir fiber matting under fill
Place Geotextile Under Riprap in Locations Directed by Engineer
Press Riprap into Channel Bottom Until Refusal

RIP RAP CL II = 141 TONS, GEOTEXTILE = 181 SY,
FILL = 413 CY, COIR FIBER MATTING = 258 SY

FROM -L- STA. 14+21 TO STA. 14+62

DETAIL 3**SPECIAL 'V' DITCH**
(Not to Scale)

Natural Ground
2:1
D
2:1 or Flatter
Front Ditch Slope
Min. D= 1 Ft.

FROM -L- STA. 10+80 TO STA. 13+07 RT
FROM -DR1- STA. 10+65 TO STA. 11+12 LT



DF18314.2045392

2RD4 04

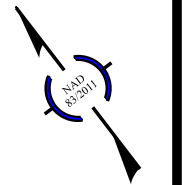
ROADWAY DESIGN
ENGINEER**VOLKERT**

2420 Wade Park Blvd., Suite 410
Raleigh, NC 27605
Tel. 919-854-0344 Fax. 919-854-0355
NC License No. F-0765

HYDRAULIC DESIGN
ENGINEER

NC Firm License No. F-1334
224 Blackwell Street
Suite 1200
Durham, NC 27701
919.732.1300

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED
STATE OF NORTH CAROLINA
HENDERSON COUNTY



PRELIMINARY PLANS

DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS

DO NOT USE FOR R/W ACQUISITION

DETAIL 5
TAIL DITCH
(Not to Scale)

Natural Ground
2:1
D
2:1
Natural Ground
DDE = 116 CY
Min. D= 1.5 Ft.
Slope = 0.96%

FROM -L- STA. 14+16.5 TO STA. 14+70.5

PERMIT DRAWING
SHEET 2 OF 5

SITE 2**DETAIL 6**
TOE PROTECTION
(Not to Scale)

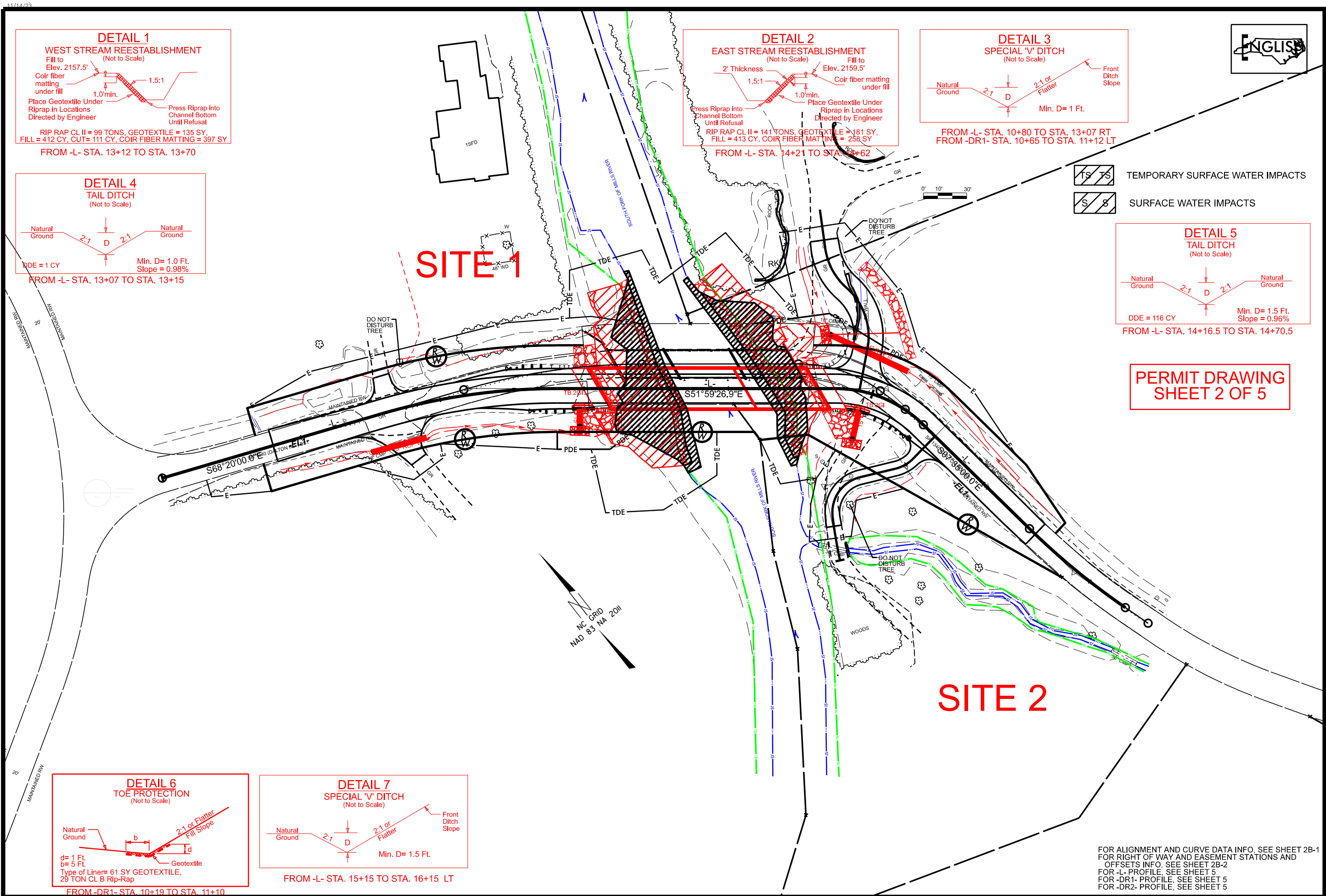
Natural Ground
b
d
2:1 or Flatter
Fill Slope
Geotextile
d= 1 Ft.
b= 5 Ft.
Type of Liner= 61 SY GEOTEXTILE,
29 TON CL B Rip-Rap

FROM -DR1- STA. 10+19 TO STA. 11+10

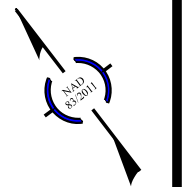
DETAIL 7
SPECIAL 'V' DITCH
(Not to Scale)

Natural Ground
2:1
D
2:1 or Flatter
Front Ditch Slope
Min. D= 1.5 Ft.

FROM -L- STA. 15+15 TO STA. 16+15 LT



FOR ALIGNMENT AND CURVE DATA INFO, SEE SHEET 2B-1
FOR RIGHT OF WAY AND EASEMENT STATIONS AND
OFFSETS INFO, SEE SHEET 2B-2
FOR -L- PROFILE, SEE SHEET 5
FOR -DR1- PROFILE, SEE SHEET 5
FOR -DR2- PROFILE, SEE SHEET 5

**DETAIL 1****WEST STREAM REESTABLISHMENT**
(Not to Scale)

Fill to Elev. 2157.5'
Coir fiber matting under fill
1.0'min.
1.5:1
Place Geotextile Under Riprap in Locations Directed by Engineer
Press Riprap into Channel Bottom Until Refusal

RIP RAP CL II = 99 TONS, GEOTEXTILE = 135 SY,
FILL = 412 CY, CUT = 111 CY, COIR FIBER MATTING = 397 SY

FROM -L- STA. 13+12 TO STA. 13+70

DETAIL 4**TAIL DITCH**
(Not to Scale)

Natural Ground
2:1
D
2:1
Natural Ground
Min. D = 1.0 Ft.
Slope = 0.98%

FROM -L- STA. 13+07 TO STA. 13+15

DETAIL 2**EAST STREAM REESTABLISHMENT**
(Not to Scale)

Fill to Elev. 2159.5'
2' Thickness
1.5:1
1.0'min.
Coir fiber matting under fill
Place Geotextile Under Riprap in Locations Directed by Engineer
Press Riprap into Channel Bottom Until Refusal

RIP RAP CL II = 141 TONS, GEOTEXTILE = 181 SY,
FILL = 413 CY, COIR FIBER MATTING = 258 SY

FROM -L- STA. 14+21 TO STA. 14+62

DETAIL 3**SPECIAL 'V' DITCH**
(Not to Scale)

Natural Ground
2:1
D
2:1 or Flatter
Front Ditch Slope
Min. D = 1 Ft.

FROM -L- STA. 10+80 TO STA. 13+07 RT
FROM -DR1- STA. 10+65 TO STA. 11+12 LT

DETAIL 5**TAIL DITCH**
(Not to Scale)

Natural Ground
2:1
D
2:1
Natural Ground
Min. D = 1.5 Ft.
Slope = 0.96%

FROM -L- STA. 14+16.5 TO STA. 14+70.5

**PERMIT DRAWING
SHEET 3 OF 5**

SITE 1

SITE 2

DETAIL 6**TOE PROTECTION**
(Not to Scale)

Natural Ground
b
d
2:1 or Flatter
Fill Slope
Geotextile
d = 1 Ft.
b = 5 Ft.
Type of Liner = 61 SY GEOTEXTILE,
29 TON CL B Rip-Rap

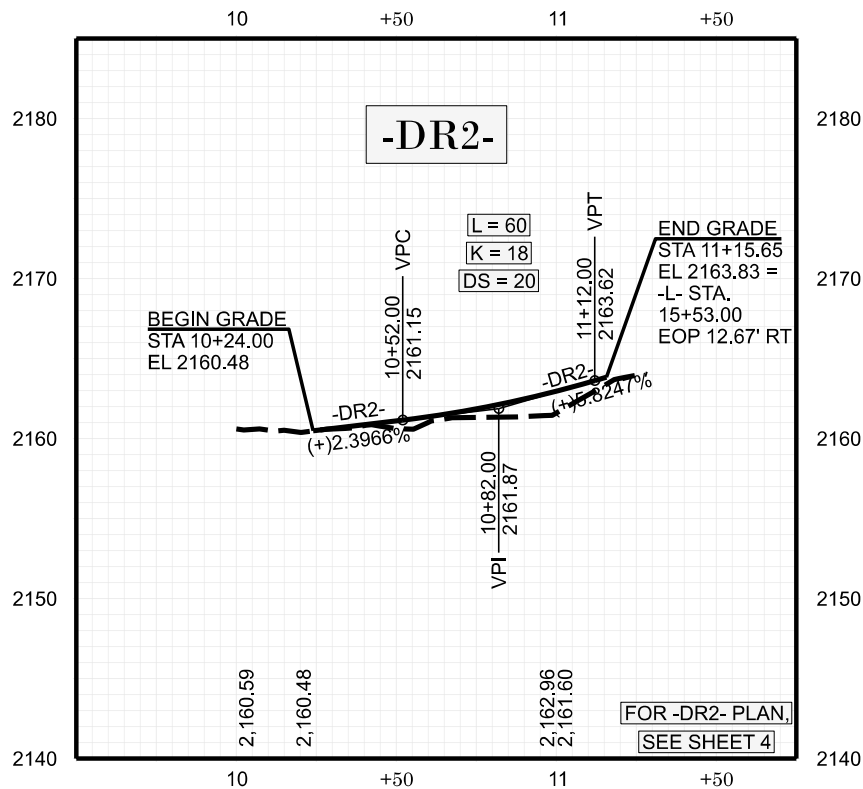
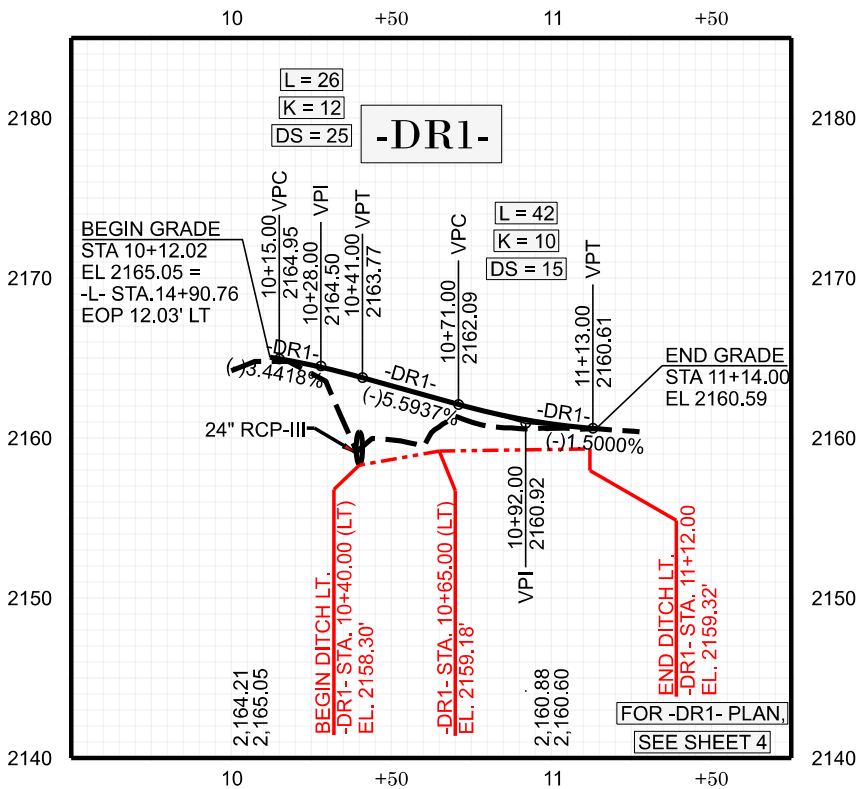
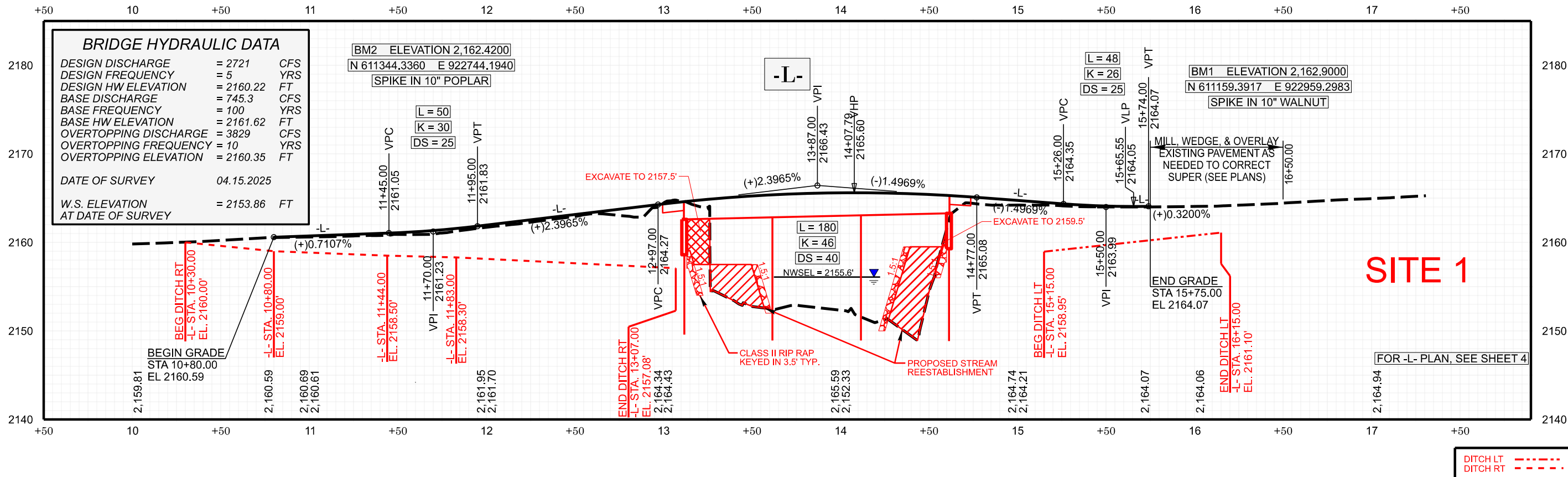
FROM -DR1- STA. 10+19 TO STA. 11+10

DETAIL 7**SPECIAL 'V' DITCH**
(Not to Scale)

Natural Ground
2:1
D
2:1 or Flatter
Front Ditch Slope
Min. D = 1.5 Ft.

FROM -L- STA. 15+15 TO STA. 16+15 LT

FOR ALIGNMENT AND CURVE DATA INFO, SEE SHEET 2B-1
FOR RIGHT OF WAY AND EASEMENT STATIONS AND
OFFSETS INFO, SEE SHEET 2B-2
FOR -L- PROFILE, SEE SHEET 5
FOR -DR1- PROFILE, SEE SHEET 5
FOR -DR2- PROFILE, SEE SHEET 5



PERMIT DRAWING
SHEET 4 OF 5

PIPE HYDRAULIC DATA
24" RCP-III @ -DR1- STA. 10+41.00

DRAINAGE AREA	= 7.7	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 12.4	CFS
DESIGN HW ELEVATION	= 2160.3	FT
100 YEAR DISCHARGE	= 15.5	CFS
100 YEAR HW ELEVATION	= 2160.7	FT
OVERTOPPING DISCHARGE	= 15.0	CFS
OVERTOPPING FREQUENCY	= 25(+)	YRS
OVERTOPPING ELEVATION	= 2160.6	FT

WETLAND AND SURACE 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	13+21 to 14+55 -L-	Stream Re-establishment						0.13	0.03	136	151	
TOTALS*								0.13	0.03	136	151	0

NOTES:
Surface water impacts are from stream re-establishment efforts

SHEET 5 OF 5