

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

February 21, 2025

MEMORANDUM TO: Division Environmental and Construction Units

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

Environmental Analysis On

SUBJECT: Environmental Permits for the Replacement of Bridges 67 & 68 on US

29/US 70 over SR 1192 in Davidson County, Division 9, TIP: BR-0015.

Please find enclosed the following permits for this project:

Agency	Permit Type	Permit Expiration		
US Army Corps of Engineers Section 404 Clean Water Act Permit	Nationwide Permit 14	March 14, 2026		
NC Division of Water Resources Section 401 Water Quality Certification	Individual Certification No. 007437	March 14, 2026		

Work is authorized by the above referenced permit provided it is accomplished in strict accordance with the permitted plans. The Environmental Coordination and Permitting Group or the Division Environmental Office must be consulted if any deviation from the permit(s) is required.

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

The Project Commitments "Greensheet" is located on the Preconstruction SharePoint Dashboard at: https://connect.ncdot.gov/site/preconstruction

Telephone: (919) 707-6000

Customer Service: 1-877-368-4968

Website: www.ncdot.gov



DEPARTMENT OF THE ARMY

U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT
WILMINGTON REGULATORY OFFICE
69 DARLINGTON AVENUE
WILMINGTON NORTH CAROLINA 28403

February 20, 2025

Regulatory Division SAW-2016-01267

Sent Via email: ekcheely@ncdot.gov

Erin Cheely, Western Team Lead Environmental Coordination & Permitting NCDOT Environmental Analysis Unit 1598 Mail Service Center Raleigh, NC 27699

Dear Ms. Cheely:

This letter is in response to the Pre-Construction Notification (PCN) you submitted to the Wilmington District, WRDA / Transportation Branch on December 16, 2024, for a Department of the Army Nationwide permit (NWP) verification. This project has been assigned the file number SAW-2016-01267 and is known as NCDOT BR-0015, Bridge # 67 & # 68 Replacements on US 29/US 70 over SR 1192. 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 the existing US 29/US 70 Bridges (#67 & # 68) and to construct a single bridge carrying both northbound and south bound lanes on US 29/US 70 across SR 1192 (West 5th Avenue). This project will include permanent placement of 15 linear feet (If) of fill, placement of a total of 123 If of permanent bank stabilization and temporary placement of dewatering structures in 33 If of a tributary of Michaels Branch. In addition, this project will include the placement of 47 If of permanent bank stabilization and 35 If of temporary dewatering structures in Michaels Branch. The project area for this determination includes approximately 29 acres area which is illustrated on the enclosed site plans/maps. The project/review area is located in Michaels Branch and a tributary to Michaels Branch; at a location adjacent to the intersection/interchange of US 29/US 70 and SR 1192 (West 5th Avenue), at Latitude 35.825760 and Longitude -80.275690; in Lexington, Davidson County, North Carolina.

We have determined that the proposed work is authorized by Nationwide Permit 14 (NWP-14) 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. All work must be performed in strict compliance with (a) the description of work in the PCN and (b) the Wetlands and Surface Water Impact Permit Drawing(s) (Permit Plans) in the application dated December 16, 2024. Any modification to the description of work and/or the permit plans must be approved by the USACE prior to implementation.
- 2. The permittee shall require its contractors and/or agents to comply with the terms and conditions of this authorization letter in the construction and maintenance of this project and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this authorization letter, all conditions, and any authorized modifications. A copy of this authorization letter, all conditions, and any authorized modifications, shall be available at the project site during construction and maintenance of this project.
- 3. Since suitable habitat for tricolored bat (Perimyotis subflavus) may be present in the BR-0015 project area, the permittee agrees to implement the follow conservation measures for the NCDOT BR-0015, Bridge # 67 & # 68 Replacements on US 29/US 70 over SR 1192 :
 - a. Tree clearing will occur outside of the tricolored bat summer activity season (April 1 July 15) for the year-round active Zone 1.
 - b. Permanent lighting will be replaced in the action area and will reduce backlight and glare from previous conditions.
 - c. Any lighting needed for night work will be directed toward the active work area and will be turned off when not in use.
- 4. 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 Forms. The requirements of these forms, including any special conditions listed on these forms, 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 Stephen Brumagin, WRDA Project Manager of the Charlotte Field Office at (704) 798-6471, by mail at the above address, or by email at stephen.a.brumagin@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,

M. Scott Jones, PWS

WRDA / Transportation Branch Chief

USACE - Wilmington District

Enclosures

Project Plans 401 WQC NWP-14

cc (w/enclosures)

William Barrett, NCDOT Raleigh (via wabarrett@ncdot.gov) Amy Euliss, NC DOT Div 9 (via aeuliss@ncdot.gov)

Compliance Certification Form

File Number: SAW-2016-01267	County: Davidson
Permittee: NCDOT Environmental Analysis Unit, Erin Ch	eely
Project Name: NCDOT BR-0015, Bridge # 67 & # 68 Replaced over SR 1192	acements on US 29/US 70
Date Verification Issued: 2/20/2025	
Project Manager: Stephen Brumagin	
Upon completion of the activity authorized by this permit and the permit, sign this certification and return it to the following	, , ,
US ARMY CORPS OF ENGINEERS Wilmington District Attn: Stephen Brumagin Charlotte Field Office 8430 University Executive Park Drive Su Charlotte, NC 28262 or	
stephen.a.brumagin@usace.army.n	nil
Please note that your permitted activity is subject to a complication of Engineers representative. Failure to comply of this authorization may result in the Corps suspending, more authorization and/or issuing a Class I administrative penalty, appropriate legal action.	with any terms or conditions difying or revoking the
I hereby certify that the work, and mitigation (if applicable), a referenced permit has been completed in accordance with the said permit including any general or specific conditions.	
Date Authorized Work Started: Comp	leted:
Describe any deviations from permit (attach drawing(s) depic	eting the deviations):
*Note: The description of any deviations on this form does not cons	titute approval by the Corps.

Date

Signature of Permittee

US Army Corps of Engineers - Wilmington District Compensatory Mitigation Responsibility Transfer Form

Permittee: Erin Cheely Action ID: SAW-2016-01267
Project Name: NCDOT BR-0015, Bridge# 67 & # 68 Replacements on US 29/US 70 over SR 1192 County: Davidson

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: 03040103, Yadkin River Basin

Stream Impact	s (linear feet)		Wetland Impacts (a	acres)		
Warm	Cool Cold		Riparian Riverine	Riparian Non-Riverine	Non-Riparian	I Coastal
15						

^{*}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: 03040103, Yadkin River Basin

I Stream Mitigation (credits)				I Wetland Mitigation (credits)							
	Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal				
ĺ	30										

Mitigation Site Debited: NCDMS in-lieu fee program.

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: NCDMS	
Name of Sponsor's Authorized Representative: Beth Harmon	
Clizabeth Harmon	02/21/2025
Signature of Sponsor's Authorized Representative	Date of Signature

USACE Wilmington District - MRTF 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 ofTransportation (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: NCDMS provided a letter dated December 12, 2024, indicating approval to provide inlieu stream mitigation for a proposed 15 If from NCDOT Project BR-0015 in Davidson Co.

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 RIB/TS, and 4} the Wilmington District Mitigation Office, 3331 Heritage Trade Drive, Suite 105, Wake Forest, NC 27587 (or by email o SAWWIT@usace:army.mil).

Questions regarding this form or any of the permit conditions may be directed to the District Mitigation Office,

USACE Project Manager: Stephen Brumagin
USACE Field Office: Charlotte Field Office

US Army Corps of Engineers 8430 University Executive Park Drive

Charlotte

Email: stephen.a.brumagin@usace.army.mil

Digitally signed by BRUMAGIN.STEPHEN.A.12 83520737

Date: 2025.02.20 08:35:05

-05'00'

February 20, 2025

Date of Signature

Wilmington District Project Manager 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.

From: Youngman, Holland J
To: Barrett, William A

Cc: <u>Euliss, Amy; Boules, George M; Stanton, Tyler P; NCDOT Service Account ECAP</u>

Subject: Re: [EXTERNAL] RE: BR-0015 Concurrence Request

Date: Thursday, February 13, 2025 5:12:15 PM

Attachments: <u>image001.pnq</u>

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Hi Bill,

Apologies for the delay. A response is provided below. Note that I've included standard notification language regarding the federal proposal status of monarch butterfly. At this time, we do not recommend voluntary conference on the species as we have not yet received internal conferencing guidance. If the project timeline is prolonged and NCDOT becomes concerned about a potential monarch listing overlapping with project work, we will work with NCDOT if/when that time comes on conferencing procedures for the species. Please let me know if anything additional is needed for this project.

......

<u>Informal Conference for Tricolored Bat (Perimyotis subflavus)</u> Relating to the Subject Project - **FWS**<u>Log # 18-429</u>

We have reviewed the information you submitted, along with a prior scoping letter issued from this office on February 9, 2023, and the following is provided in accordance with the provisions of the National Environmental Policy Act (42 U.S.C.§ 4321 et seq.); the Fish and Wildlife Coordination Act, as amended (16 U.S.C. 661 - 667e); and section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 - 1543) (ESA).

NCDOT proposes to replace Bridge No. 67 (NB) and Bridge No. 68 (SB) on US 29/US 70/I-85 Business over SR 1192 (W. Fifth Avenue), Davidson County. Work will involve percussive actions such as jack hammering and pile-driving, tree clearing, and some night work. The bridge and adjacent culvert structures were inspected for bats and signs of bats on July 29, 2024 and results were negative. NCDOT has committed to implementing the following conservation measures:

- 1. Tree clearing will occur outside of the tricolored bat summer activity season (April 1 July 15) for the year-round active Zone 1.
- 2. Permanent lighting will be replaced in the action area and will reduce backlight and glare from previous conditions.
- 3. Any lighting needed for night work will be directed toward the active work area and will be turned off when not in use.

The information provided indicates that a "No Effect" (NE) determination has been made for Schweinitz's sunflower (*Helianthus schweinitzii*). In instances of suitable habitat being absent from the action area, we would agree that NE determinations are appropriate. In instances where suitable habitat is present and botanical surveys conducted during the optimal survey window and within the past 1 or 2 years (depending on the species) have negative results, we would concur with a biological

determination of "may affect, not likely to adversely affect" (NLAA). This information is provided for the sake of the administrative record.

On September 14, 2022, the U.S. Fish and Wildlife Service published a proposal in the Federal Register to list the tricolored bat as endangered under the ESA. As a result, NCDOT has requested a conference for the tricolored bat as the project may be on-going after the effective date of any final listing rule, if one is published. Based on the information provided, the analysis above, and the commitments to minimize project impacts, we have determined that the proposed project will not jeopardize the continued existence of the tricolored bat. Additionally, we would concur with the NCDOT's determination that the project is NLAA the tricolored bat should it become listed.

On December 12, 2024, monarch butterfly (*Danaus plexippus*) was proposed for listing as threatened under the ESA. Species proposed for listing are not afforded protection under the ESA; however, as soon as a listing becomes effective, the prohibitions against jeopardizing its continued existence and "take" will apply. Therefore, if the project may affect monarch butterflies after the potential new listing goes into effect, we recommend analyzing possible effects of the project on the species and their habitat to determine whether consultation under section 7 of the ESA is necessary on behalf of monarch butterfly.

<u>Conservation Recommendations</u>: 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>Seasonal Tree Clearing</u>: Avoid clearing trees during the winter torpor period of December 15 February 15. These dates are for the year-round active zone 1, as explained in Appendix L of the Service's Range-wide Indiana Bat and Northern Long-eared Bat Survey Guidelines: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines. This guidance includes tricolored bat.
- -Noise Considerations for Bats: If suitable roost trees are present near high-decibel activity (81 162 dBA) and would experience noise above background levels (41 70 dBA), avoid conducting those high-decibel activities during the bat summer occupancy season (April 1 September 30). Alternatively, activity could avoid the pup season (May 15 July 31). To minimize noise levels, incorporate sound-dampening devices such as noise shrouds for pile driving.
- -<u>Pre-construction Surveys for Bats:</u> While the July 29, 2024 structure surveys did not reveal presence or signs of roosting bats, conducting pre-construction surveys within 30 days or, ideally, 14 days of work would increase the assurance that no bats are present.
- -Riparian Replanting: Because the removal of forested riparian habitat can affect the quality and suitability of foraging and commuting habitat for bats, we recommend replanting the riparian zone with native, fast-growing trees and shrubs that would serve to block light pollution and improve the quality of the terrestrial and aquatic habitat.

We believe the requirements under section 7 of the ESA are fulfilled for the federally listed species discussed above. However, obligations under section 7 must be reconsidered if: (1) new information

reveals impacts of this proposed action may affect listed species or critical habitat in a manner not previously considered, (2) this proposed action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed, or critical habitat is determined that may be affected by the proposed action.

We appreciate the opportunity to provide these comments. In any future correspondence on this project, please reference **FWS Log # 18-429**.

Sincerely,

Holland Youngman (she/her) Wildlife Biologist U.S. Fish and Wildlife Service Asheville Ecological Services Field Office 160 Zillicoa Street, Asheville, North Carolina, 28801 Cell: 828-575-3920

From: Barrett, William A <wabarrett@ncdot.gov>

Sent: Thursday, February 13, 2025 8:36 AM

To: Youngman, Holland J < holland_youngman@fws.gov>

Cc: Euliss, Amy <aeuliss@ncdot.gov>; Boules, George M <gmboules@ncdot.gov>; Stanton, Tyler P

<tpstanton@ncdot.gov>; NCDOT Service Account ECAP <ECAP@ncdot.gov>

Subject: [EXTERNAL] RE: BR-0015 Concurrence Request

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning Holland,

We are coming up on the Let Review date of February 25th for BR-0015, so I want to check the status of the Concurrence Request (see email below, dated Nov. 25, 2024). The 404 is ready to be issued but USACE is awaiting receipt of the Concurrence Letter before issuance.

Thanks, Bill

William A. Barrett
ECAP Environmental Coordinator
Environmental Analysis Unit
North Carolina Department of Transportation

919 707 6103 office

919 302 1908 mobile wabarrett@ncdot.gov

1598 Mail Service Center (Mail) Raleigh, NC 27699-1598

1000 Birch Ridge Drive (Delivery) Raleigh, NC 27610



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From: Barrett, William A

Sent: Monday, November 25, 2024 3:57 PM

To: holland_youngman@fws.gov

Cc: Euliss, Amy <aeuliss@ncdot.gov>; Boules, George M <gmboules@ncdot.gov>; Stanton, Tyler P

<tpstanton@ncdot.gov>; NCDOT_Service_Account_ECAP <ECAP@ncdot.gov>

Subject: BR-0015 Concurrence Request

Hi Holland,

Attached please find the Informal Concurrence Request for BR-0015. Please let me know if there is anything else needed.

Thanks, Bill

William A. Barrett
ECAP Environmental Coordinator
Environmental Analysis Unit
North Carolina Department of Transportation

919 707 6103 office 919 302 1908 mobile wabarrett@ncdot.gov

1598 Mail Service Center (Mail) Raleigh, NC 27699-1598

1000 Birch Ridge Drive (Delivery) Raleigh, NC 27610



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JOSH STEIN
Governor
D. REID WILSON
Secretary
RICHARD E. ROGERS, JR.
Director



January 22, 2025

Mr. William A. Barrett ECAP Environmental Coordinator Environmental Analysis Unit North Carolina Department of Transportation 1598 Mail Service Center Raleigh, North Carolina 27699

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with

ADDITIONAL CONDITIONS for the Proposed Replacement of Bridge No. 67 (NB) and Bridge No. 68 (SB) on US 29/US 70/I-85 Business over SR 1192 (W. Fifth Ave.) in Davidson County; TIP BR-0015;

NCDWR Project No. 20241681.

Dear Mr. Barrett:

Attached hereto is a copy of Certification No. 007437 (this is the Individual Certification No.) issued to The North Carolina Department of Transportation (NCDOT) dated January 22, 2025.

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Water Quality Certification. If you change your project, you must notify the Division and you may be required to submit a new application package with the appropriate fee. If the property is sold, the new owner must be given a copy of this Certification and is responsible for complying with all conditions. [15A NCAC 02H .0507(d)(2)]. This 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.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

-Signed by:

Susan locklear

Richard E. Rogers, Jr., Director Division of Water Resources

Attachments

ec: Steve Brumagin, USACE Charlotte Regulatory Field Office Holland Youngman, US Fish and Wildlife Service

Dave McHenry, NC Wildlife Resources Commission Erin Cheely, North Carolina Department of Transportation

File Copy



401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500 and 15A NCAC 2B. This certification authorizes the NCDOT to impact 253 linear feet of jurisdictional streams in Davidson County. The project shall be constructed pursuant to the application dated and received December 16, 2024. The authorized impacts are as described below:

Stream Impacts in the Yadkin-Pee Dee River Basin

Site	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
S1	-	33	33	-
S2	6	-	6	-
S3	15	-	15	-
S4	117	-	117	-
S5	47	-	47	-
S6	-	35	35	-
Totals	185	68	253	-

Total Stream Impact for Project: 253 linear feet

The application provides adequate assurance that the discharge of fill material into the waters of the Yadkin-Pee Dee River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated and received December 16, 2024. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed 0.10 acre or 300 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7).

For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

This Water Quality Certification neither grants nor affirms any property right, license, or privilege in any lands or waters, or any right of use in any waters. This Water Quality Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and does not create any prescriptive right or any right of priority regarding any usage of water. This Water Quality Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water



use. No consumptive user is deemed by virtue of this Water Quality Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which the withdrawal was initiated or expanded. Upon the presentation of proper credentials, the Division may inspect the property.

Condition(s) of Certification:

- 1. NCDWQ will not require the burial of the culverts in the streambed at Impact S3. However, design and placement of the culvert and other structures shall be installed in such a manner that the original stream profiles are not altered (i.e., the depth of the channel must not be reduced by a widening of the streambed). Existing stream dimensions (including pattern and profile) are to be maintained above and below locations of each culvert. The structure shall be designed and installed to allow for fish and other wildlife movement as well as prevent headcutting of the stream. The applicant may be required to provide evidence that the equilibrium has been maintained if requested in writing by the NCDWR. [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 U.S. 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 riprap above the Normal High Water Mark shall be minimized. Any riprap 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. 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)]
- 15. 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]
- 16. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
- 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 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) and (c)(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 installed in wetlands or waters except within the footprint of temporary or permanent impacts authorized by this Certification. If placed within authorized impact areas, then placement of such measures shall not be conducted in a manner that results in disequilibrium of any wetlands, streambeds, or streambanks. Any silt fence installed within wetlands shall be removed from wetlands and the natural grade restored and revegetated within two months of project completion. [15A NCAC 2H.0506(b); 15 A NCAC 2H.0507(c)]
- 24. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H .0506{b)(3) and (c)(3) and 15A NCAC 02B .0200]
- 25. Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the North Carolina Sediment and Erosion Control Manual, or for linear transportation projects, the NCDOT Sediment and Erosion Control Manual.
- 26. All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.
- 27. For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Surface Mining Manual. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.
- 28. 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 Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

This approval and its conditions are final and binding unless contested [G.S. 143-215.5]. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will



result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

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 http://www.ncoah.com/ 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:

William F. Lane, 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 the 22nd day of January 2025

DIVISION OF WATER RESOURCES

Signed by:

Susan Lockhar

375CAE2BB9F540C...

Richard E. Rogers, Jr., Director

WQC No. 007437



JOSH STEIN
Governor
D. REID WILSON
Secretary
RICHARD E. ROGERS, JR.
Director



NCDWR Project No.:	County:
Applicant:	
Project Name:	
Date of Issuance of 401 Water Quality	Certification:
any subsequent modifications, the applic Unit, North Carolina Division of Water	within the 401 Water Quality Certification or applicable Buffer Rules, and cant is required to return this certificate to the 401 Transportation Permitting Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This formicant, the applicant's authorized agent, or the project engineer. It is not 'these.
I,was used in the observation of the construction compliance and intent of the 401 Water specifications, and other supporting materials.	, hereby state that, to the best of my abilities, due care and diligence ruction such that the construction was observed to be built within substantia Quality Certification and Buffer Rules, the approved plans and erials.
Signature:	Date:
Agent's Certification	
was used in the observation of the constr	, hereby state that, to the best of my abilities, due care and diligence ruction such that the construction was observed to be built within substantia Quality Certification and Buffer Rules, the approved plans and erials.
Signature:	Date:
Engineer's Certification	
Partial Final	
Permittee hereby state that, to the best of construction such that the construction v	, as a duly registered Professional Engineer in the State of North erve (periodically, weekly, full time) the construction of the project for the f my abilities, due care and diligence was used in the observation of the was observed to be built within substantial compliance and intent of the 401 Rules, the approved plans and specifications, and other supporting materials
Signature	Registration No
Date	
Completed hard copies can be emailed to NCDEQ Transportation Permitting 1617 Mail Service Center Raleigh NC 27699-1617	o <u>kristilynn.carpenter@ncdenr.gov</u> or mailed to:





North Carolina Department of Transportation



Stormwa					оппа дорани.	nent of Transportat	IOII				· /*	→
PROG	TET					water Program AGEMENT PLAN					/8	E TONING OF THE AMERICA
(Version 3.00; Released	August 2021)			5.5 1.	FOR NCDOT P							_
•	BR-0015	TIP/Proj No: B	R-0015		County(ies):	Davidson				Page 1		of 11
				Ge	eneral Project I							
WBS Element:		BR-0015		TIP Number:	BR-0015	inormation	Project 1	Typo:	Roadway Widening	Date:	5/21/	2024
NCDOT Contact:		Jennifer Hernandez,	DE	TIP Nulliber.	BK-0015	Contractor / Desig		Nelson Kir		Date.	3/2 1/	2024
NCDOT Contact:	Addross	1582 Mail Service Ce				Contractor / Desig						
	Address							301 Fayett				
		Raleigh, 27699-1582						Suite 1500				
								Raleigh, N				
		(919) 707-6048						(919) 882-				
	Email	jdhernandez@ncdot.g	<u>vov</u>				_	nking@kca	aeng.com			
City/Town:			Lexir	ngton		County(ies):	Davids	son				
River Basin(s):		Yadkin-Pee	Dee			CAMA County?	No					
Wetlands within Pro	oject Limits?	No										
					Project Desc	ription						
Project Length (lin.	miles or feet):	0.71 mile	s	Surrounding L	and Use:			Lo	ow-Density Residential			
, ,	,			<u> </u>					Existing S	Site		
Project Built-Upon A	Δrea (ac)		29.2		ac.			24.8	ac.			
Typical Cross Section		The proposed typical se		ill be divided (4) 12' la		crown and a median	Existing roadw		sts of four 12' lanes divid	led with 2' paved	shoulders	Existing side
Typical Groce Gooth		that transitions to super					slopes range f	•		iod marz paro	· onoundon	. Lationing order
		sections for ramps and										
		see Roadway plans. T										
		6' paved shoulder and 2 109'-3". All side slopes			rier rails for a tota	I out-to-out width of						
		109-3. All side slopes	will vary betwe	seli 0.1 aliu 2.1.								
Annual Avg Daily Tr	raffic (veh/hr/day):	Design/Future:	1	17800	Year:	2044	Existing:		14500		/ear:	2022
	ect Narrative:							80068 on I	JS 29/ US 70/ I-85 Bus.			
Quality l	Impacts)	exceptions of behind maximum extent prac system. The existing	guardrail, and ticable with p 54" pipe will b	d will be grassy to e proposed stormwate be with lined with a	encourage a diffu er systems conv CIPP liner to re	eying water to existir pair interior damage	passive stormy ng outlets where to the pipe, wit	vater treat e they will h a propos	ment. Existing drainage be discharged to overlar sed downstream extension	outlets are bein nd flow or tie into on approximately	g maintain existing d v 10 feet, a	ed to the rainage nd have a
Quality ∣	Impacts)	exceptions of behind maximum extent practices system. The existing headwall and endwal erosion identified duribanks of the unname allow for stormwater to tilities Note: Within currently shown on the	guardrail, and ticable with p 54" pipe will b constructed. Ing a field revel tributary (appresent before the project lime e permit draw	d will be grassy to e proposed stormwater be with lined with a The existing pipe carriew justifies the corror water makes its nits, the Lexington Civings are due to the	encourage a diffurer systems convection of the convection of down and in the convection of the convect	use flow pattern and eying water to existing pair interior damage ned tributary under the vinstream bank stabil up with Micheal Brandictional streams. do not impact the jure capital improvements	passive stormy ng outlets where to the pipe, with he project corri- ization. The lim anch. Skimmer	vater treative they will haproposed or that ultits of this basins will self.	ment. Existing drainage be discharged to overlar	outlets are bein nd flow or tie into on approximately onfluence of Micl proposed on bo RT, 21+58 -L-R ⁻¹ Michael's Branc	g maintain o existing do 10 feet, a nael Branc th the left of and 10+1	ed to the rainage and have a n. Existing and right 71 -LPB-RT to only impacts
Quality	Impacts)	exceptions of behind maximum extent prac system. The existing headwall and endwal erosion identified duri banks of the unname allow for stormwater to Utilities Note: Within	guardrail, and ticable with p 54" pipe will b constructed. Ing a field revel tributary (appresent before the project lime e permit draw	d will be grassy to e proposed stormwater be with lined with a The existing pipe carriew justifies the corror water makes its nits, the Lexington Civings are due to the	encourage a diffurer systems convection of the convection of down and in the convection of the convect	use flow pattern and eying water to existing pair interior damage ned tributary under the vinstream bank stabil up with Micheal Brandictional streams. do not impact the jure capital improvements	passive stormy ng outlets where to the pipe, with he project corri- ization. The lim anch. Skimmer	vater treative they will haproposed or that ultits of this basins will self.	ment. Existing drainage be discharged to overlar sed downstream extension timately ends with the cobank stabilization will be be utilized at 16+85 -L-f	outlets are bein nd flow or tie into on approximately onfluence of Micl proposed on bo RT, 21+58 -L-R ⁻¹ Michael's Branc	g maintain o existing do 10 feet, a nael Branc th the left of and 10+1	ed to the rainage and have a h. Existing and right 71 -LPB-RT to conly impacts



Deck Drains Discharge Over Water Body?

(If yes, provide justification in the General Project Narrative)

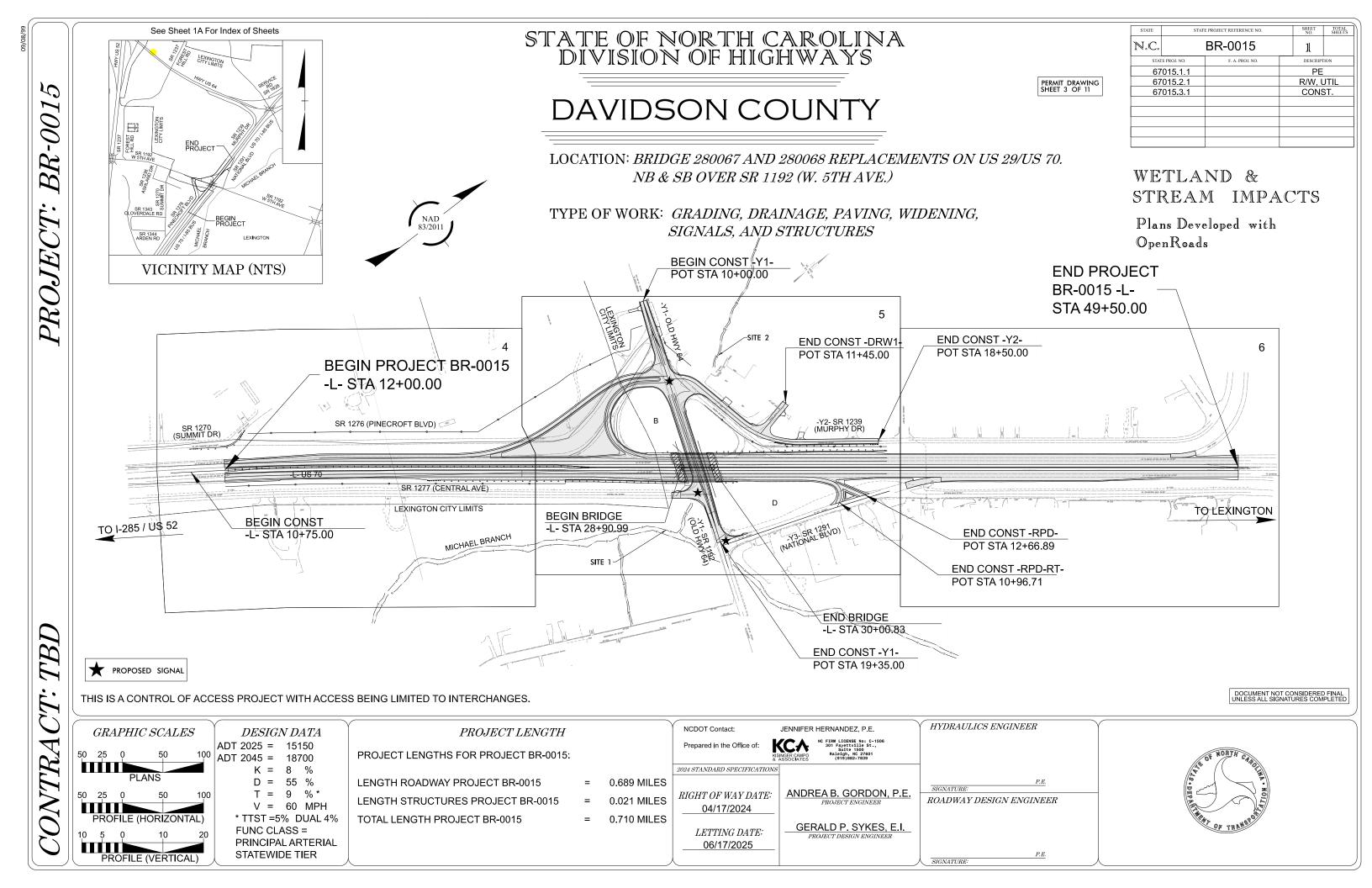
North Carolina Department of Transportation



Project Narrative)

Highway Stormwater Program

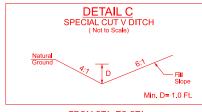
STORMWATER MANAGEMENT PLAN **FOR NCDOT PROJECTS** Version 3.00; Released August 2021) WBS Element: BR-0015 TIP/Proj No.: BR-0015 County(ies): Davidson Page **General Project Information Waterbody Information** 5/21/2024 NCDWR Stream Index No.: Surface Water Body (1): Michael Branch 12-113-3 Primary Classification: Class C **NCDWR Surface Water Classification for Water Body Supplemental Classification:** None Other Stream Classification: None Impairments: None No Aquatic T&E Species? Comments: **NRTR Stream ID:** Buffer Rules in Effect: N/A **Project Includes Bridge Spanning Water Body?** No No Deck Drains Discharge Over Buffer? No **Dissipator Pads Provided in Buffer?** (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the General No **Deck Drains Discharge Over Water Body?** Project Narrative) (If yes, provide justification in the General Project Narrative) NCDWR Stream Index No.: Surface Water Body (2): Primary Classification: None **NCDWR Surface Water Classification for Water Body** Supplemental Classification: None Other Stream Classification: None of replacing the structurally mpairments: Aquatic T&E Species? Comments: **NRTR Stream ID:** Buffer Rules in Effect: N/A **Project Includes Bridge Spanning Water Body?** Deck Drains Discharge Over Buffer? No **Dissipator Pads Provided in Buffer?** No (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the General **Deck Drains Discharge Over Water Body?** Project Narrative) (If yes, provide justification in the General Project Narrative) Surface Water Body (3): NCDWR Stream Index No.: **Primary Classification: NCDWR Surface Water Classification for Water Body** Supplemental Classification: Other Stream Classification: mpairments: Aquatic T&E Species? Comments: Buffer Rules in Effect: NRTR Stream ID: **Project Includes Bridge Spanning Water Body?** Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? (If yes, describe in the General Project Narrative; if no, justify in the General (If yes, provide justification in the General Project Narrative)



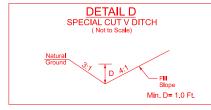
FROM STA. TO STA. -L- 12+00 TO 19+87 LT. -RPB- 10+00 TO 18+58 LT.



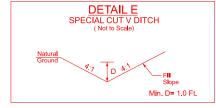
FROM STA. TO STA. -L- 31+00 TO 32+49 LT.



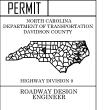
FROM STA. TO STA. -RPB- 13+50 TO 16+45 RT. -LPB- 12+07 TO 13+35 LT.



FROM STA. TO STA. -Y1- 10+00 TO 11+00 RT. -Y1- 17+71 TO 18+75 RT.



FROM STA. TO STA. -Y1- 11+00 TO 12+20 RT. -Y2- 13+05 TO 13+80 LT.



PERMIT DRAWING SHEET 4 OF 11

HYDRAULICS ENGINEER







DETAIL F
SPECIAL LATERAL OR CUT BASE DITCH
(Not to Scale) Type of Liner = CL B Rip-Rap 12" THICK EST. 104 TONS EST. 266 SY GEOTEXTILE B = 4.0 Ft. DDE = 164 CY

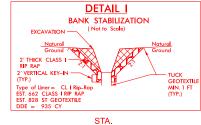
FROM STA. TO STA. -Y1- 13+75 TO 15+11 RT.



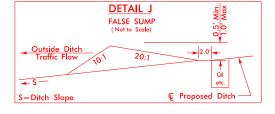
FROM STA. TO STA. -Y1- 17+69 TO 19+00 LT.



FROM STA. TO STA. -Y3- 10+47 TO 10+91 LT.

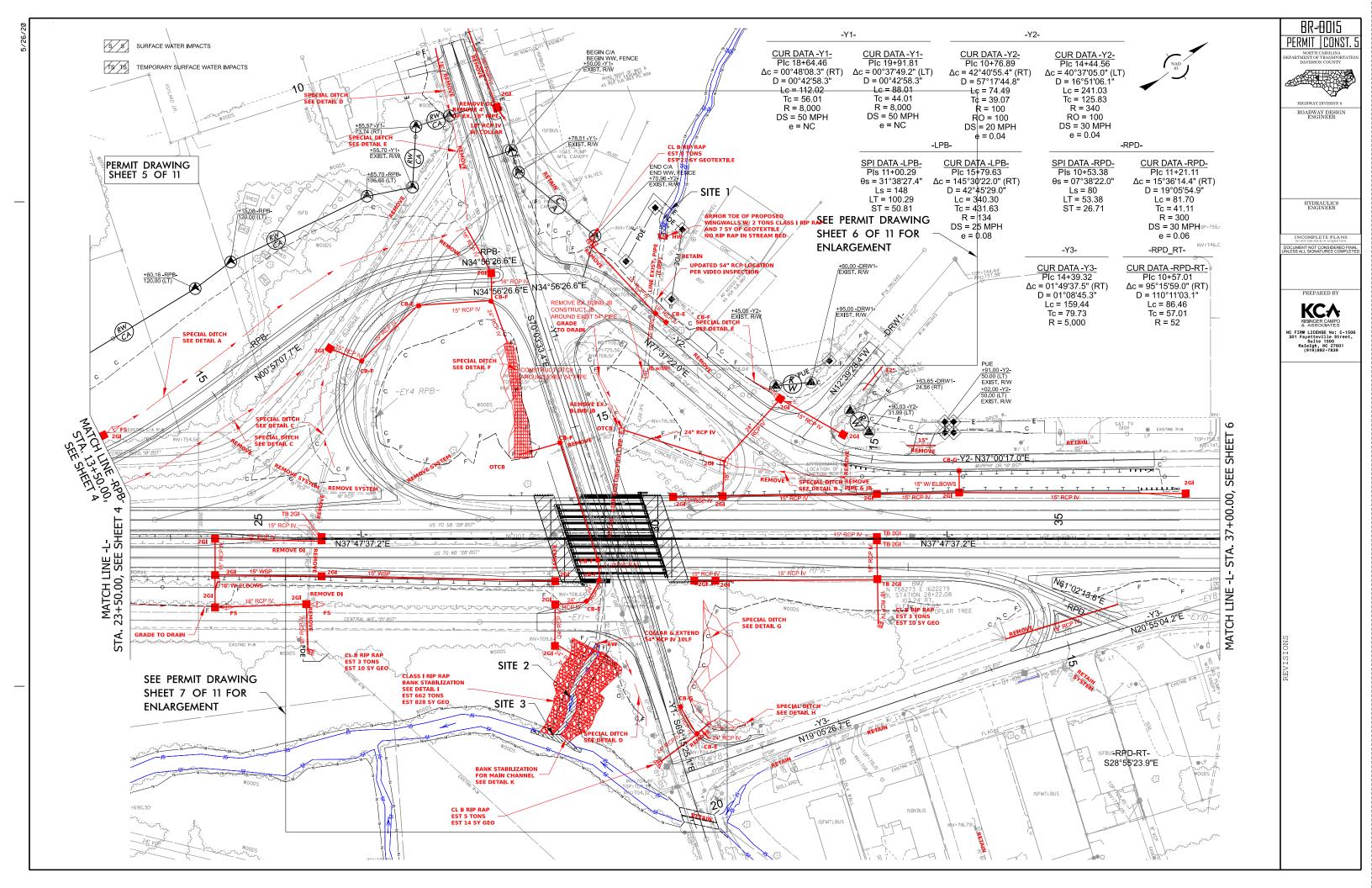


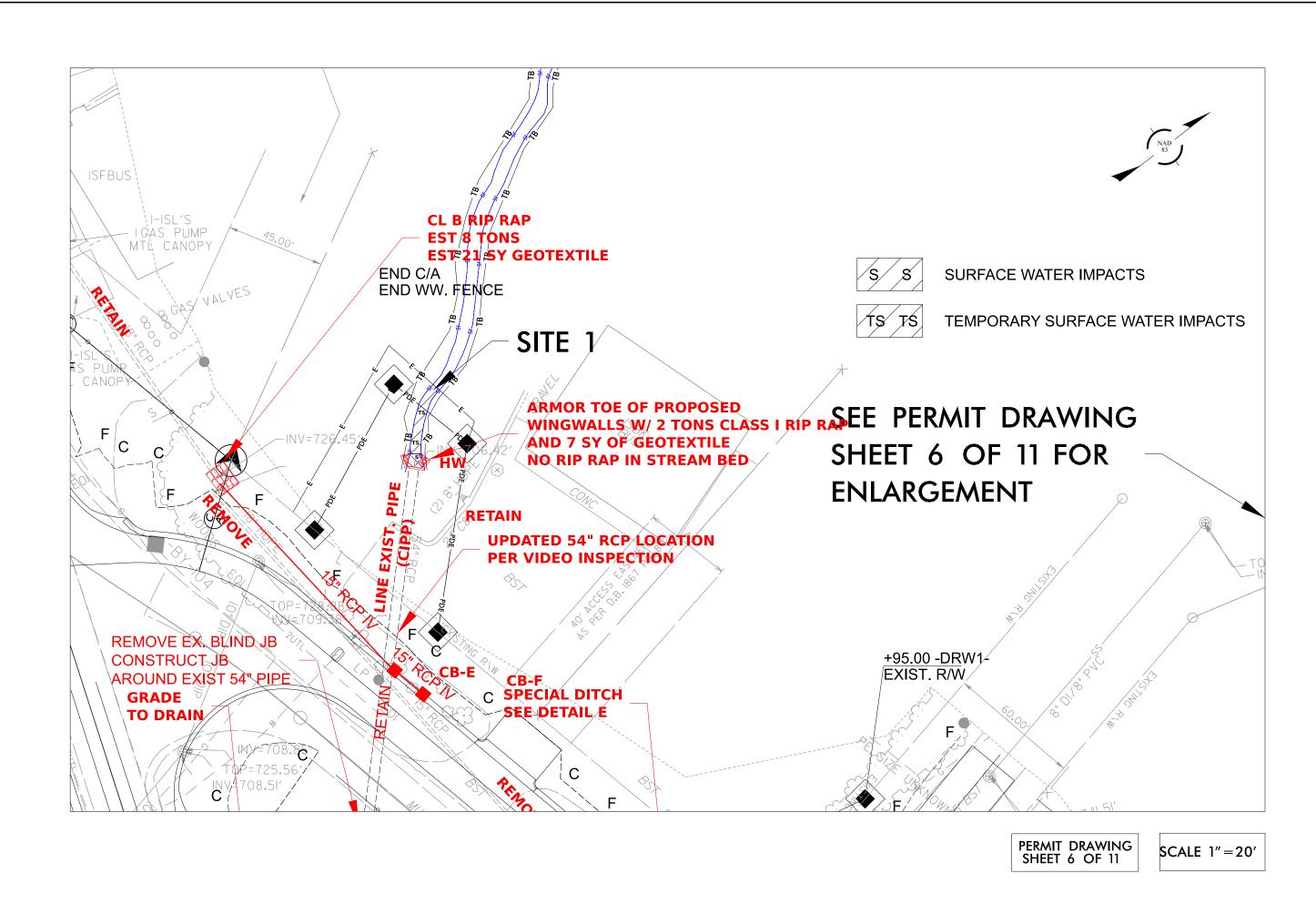
STA. -Y1- 17+47 TO 18+65 RT.



DETAIL K
BANK STABILIZATION
(Not to Scale)

STA. -Y1- 17+47 TO 18+65 RT.





BR-DOIS
PERMIT CONST. 5

PERMIT CONST. 5

DEPARTMENT OF INANSORIATION
DAY IDSON COUNTY

HIGHWAY DIVISION 9

ROADWAY DESIGN
ENGINEER

HYDRAULICS ENGINEER

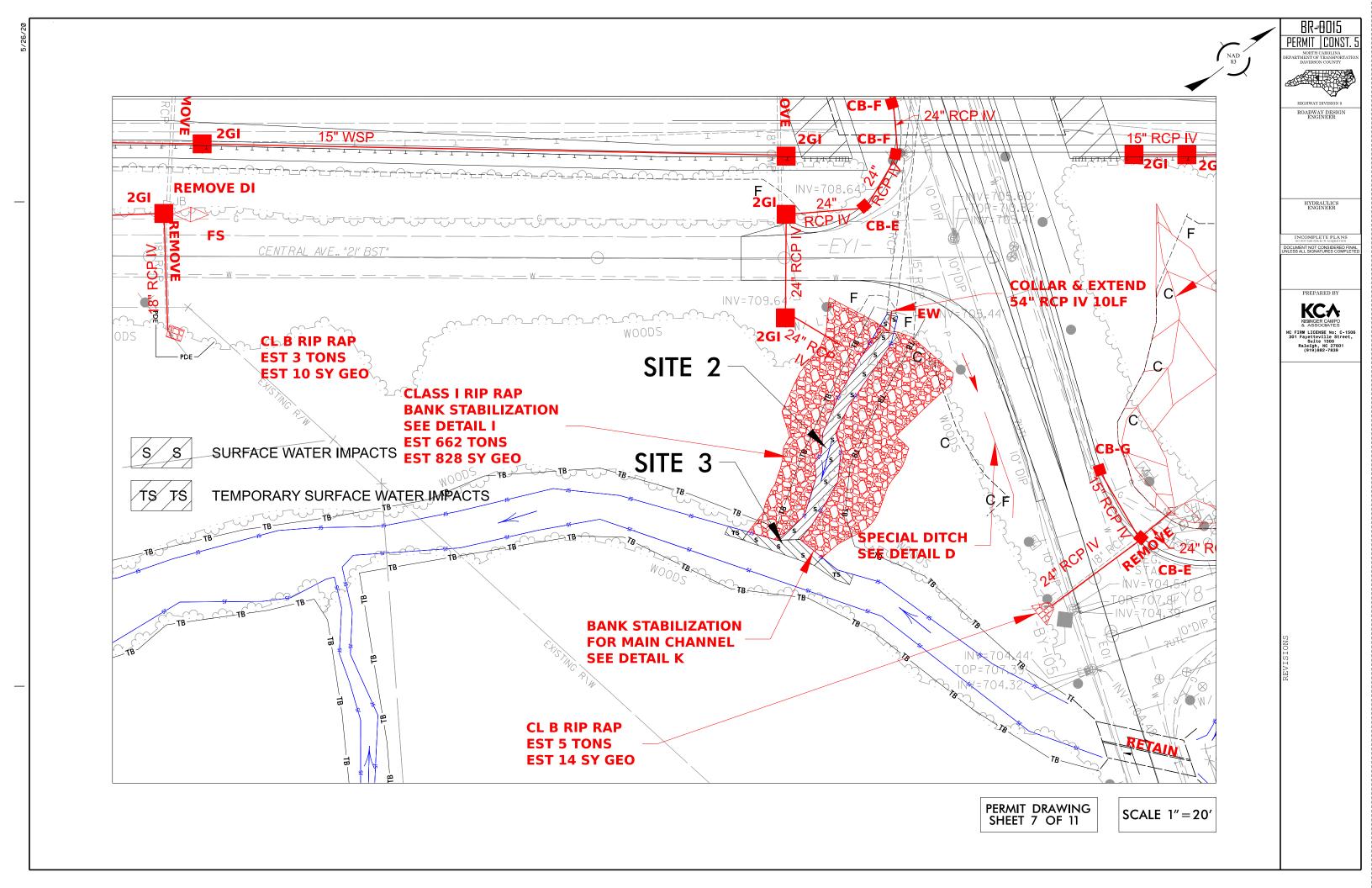
INCOMPLETE PLANS
DO NOT USE FOR EVEN ACQUISITION
OCUMENT NOT CONSIDERED FINAL
ILESS ALL SIGNATURES COMPLETED

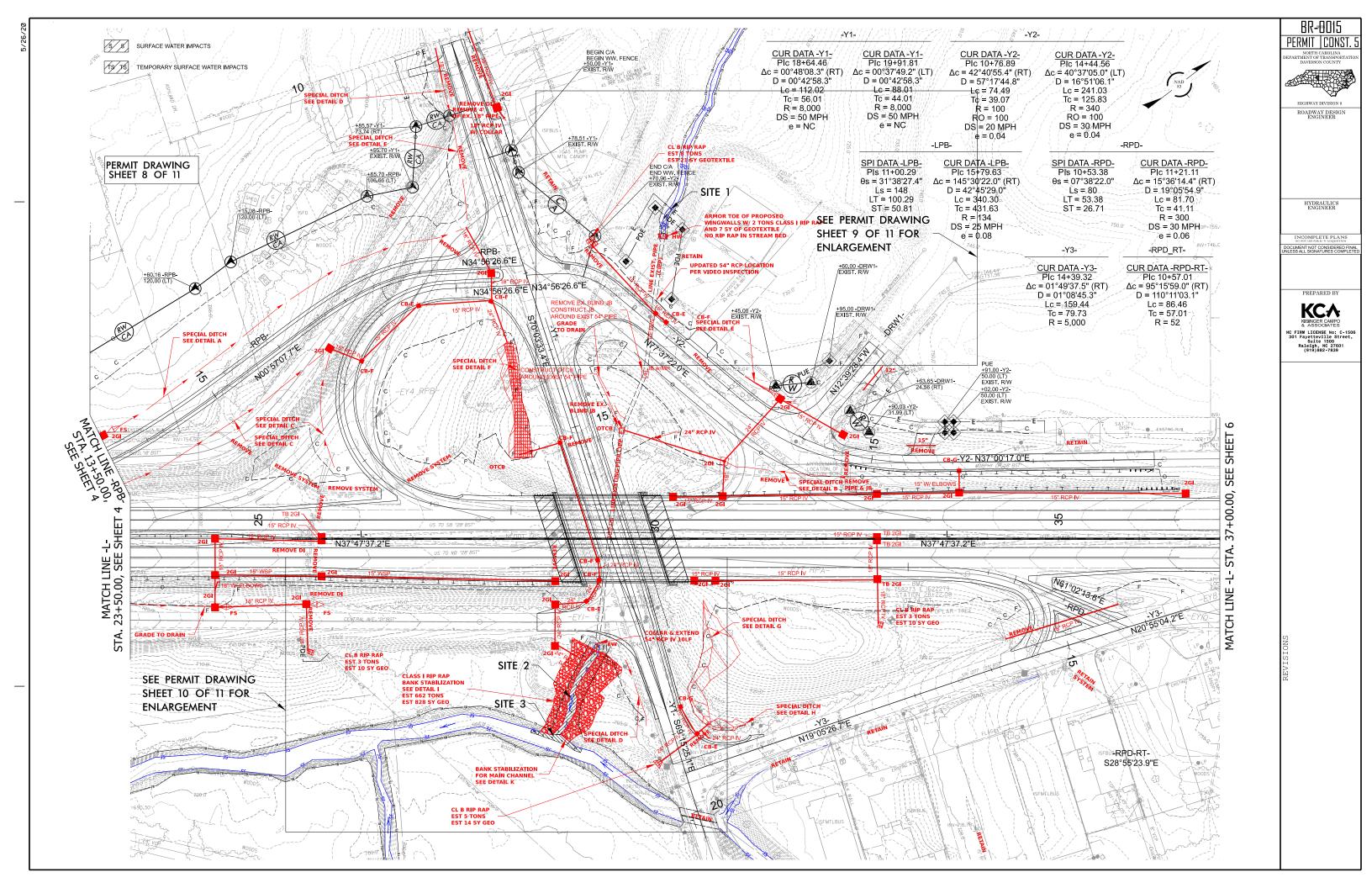
PREPARED BY

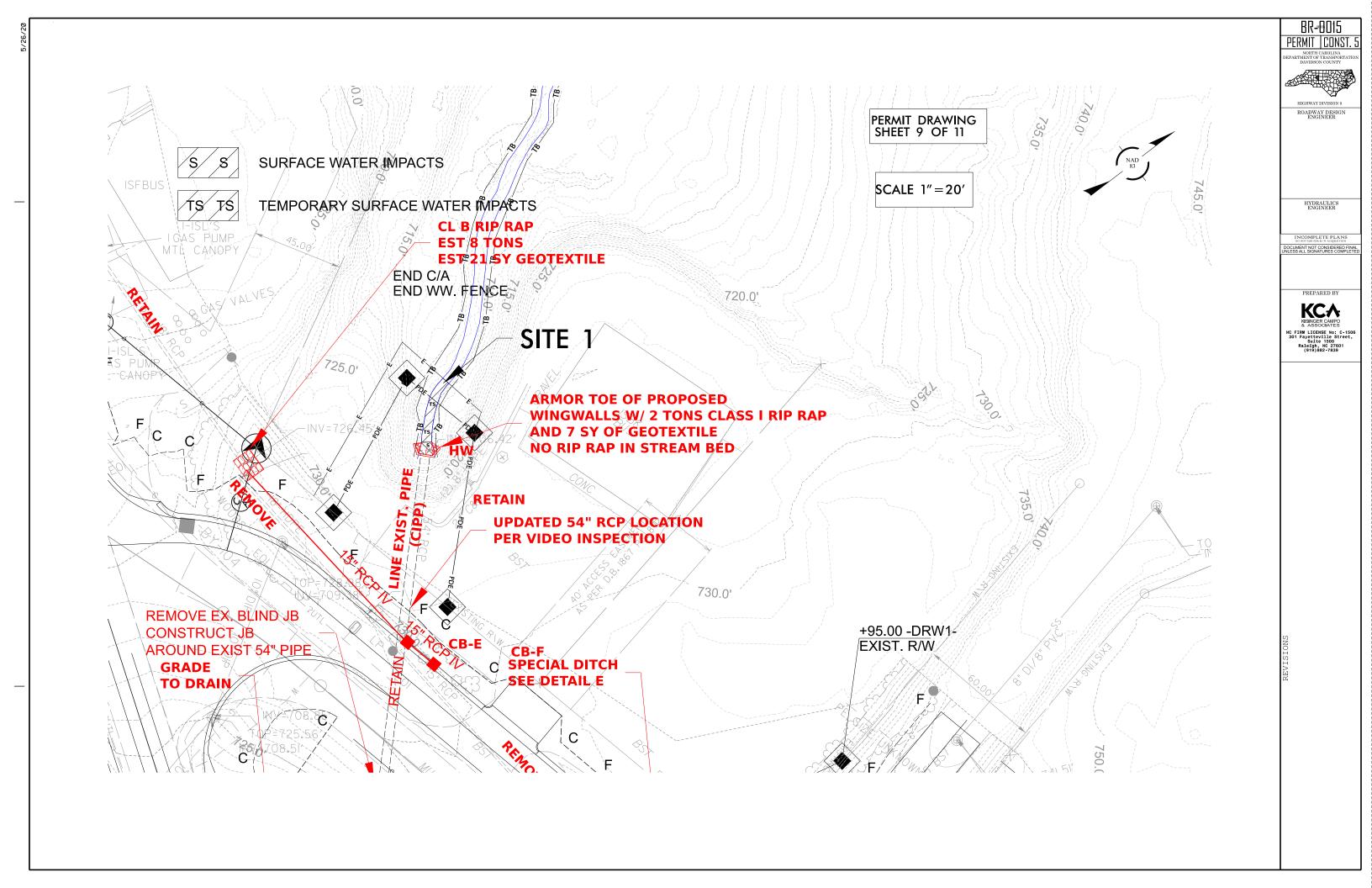
REPARED BY

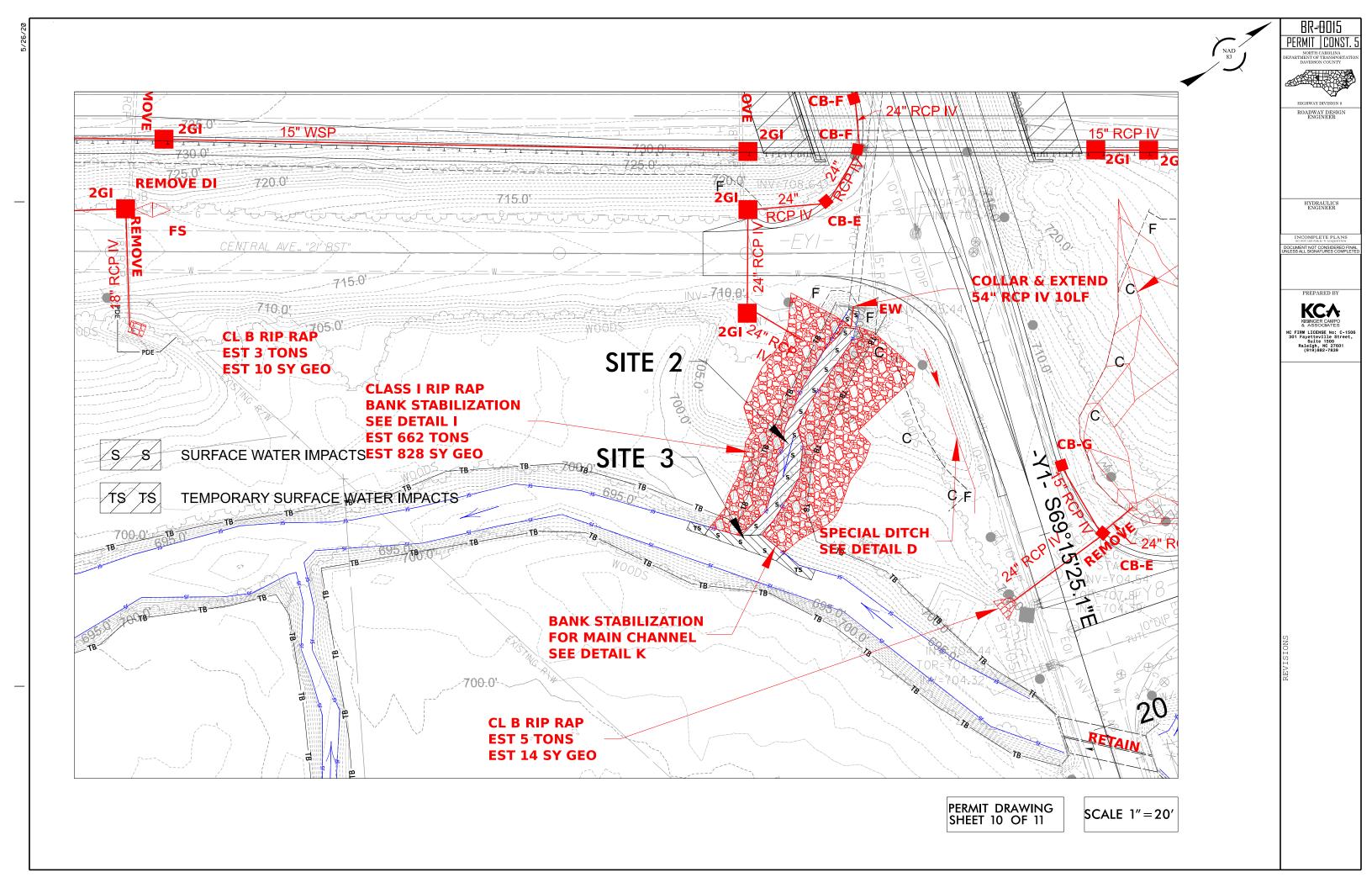
KISINGER CAMPO
& ASSOCIATES

10 FIRM LICENSE No: C-1506
301 Fayetteville Street,
Suite 1500
Raledgn, NC 27601









			WE	TLAND A	ND SURA	CE WATER	IMPACT:	S SUMMAF	RY			
				WE.	TLAND IMP	ACTS			SURFACE	WATER IM	PACTS	
							Hand			Existing	Existing	
			Permanent	Temp.	Excavation	Mechanized	Clearing	Permanent	Temp.	Channel	Channel	Natural
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent	Temp.	Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	-Y2-11+14 / 11+21 LT	CIPP Liner Installation (Dewatering)							< 0.01		33	
1	-Y2-11+14 / 11+21 LT	Bank Stabilization						< 0.01		6		
2	-Y1- 17+64 / 17+80 RT	Ex. Pipe Extension / Endwall Construction						< 0.01		15	0	
2	-Y1- 17+72 / 18+58 RT	Bank Stabilization						0.02		117		
3	-Y1- 18+58 / 18+71 RT	Bank Stabilization						< 0.01	< 0.01	47	35	
TOTAL	S*:	1						0.03	< 0.01	185	68	0

^{*}Rounded totals are sum of actual impacts

NOTES:

Site 1 Permanent Surface Water Impacts:39.2 sq. ft.Site 1 Temporary Surface Water Impacts148.1 sq. ft.Site 2 Permanent Surface Water Impacts:1036.7 sq. ft.Site 3 Permanent Surface Water Impacts:252.6 sq. ft.Site 3 Temporary Surface Water Impacts139.4 sq. ft.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
12/12/2024
DAVIDSON
BR-0015

11

SHEET 11 OF