



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

March 16, 2023

MEMORANDUM TO: Division Environmental and Construction Units

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

SUBJECT: Environmental Permits for the Replacement of Bridge 70 on US 52 over Rocky River in Anson and Stanly County, Division 10, **TIP: B-4407**.

Please find enclosed the following permits for this project:

Agency	Permit Type	Date	Permit Expiration
US Army Corps of Engineers Section 404 Clean Water Act Permit	Regional General Permit (RGP) 50	March 3, 2023	March 25, 2025
	Nationwide 13 and 33	Non-notifying	March 18, 2022
NC Division of Water Resources Section 401 Water Quality Certification	General Certification 4135 (RGP 50)	February 9, 2023	March 25, 2025
	General Certifications 4034 and 4141	March 31, 2021	March 18, 2022

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/

PROJECT COMMITMENTS

TIP No. B-4407
Replacement of Bridge 70 over Rocky River on US 52
Anson and Stanly Counties
Federal Aid Project No. BRNHS-52(22)
WBS Element 38356.3.2

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

NCDOT Division 10

This project involves construction activities on or adjacent to a FEMA-regulated stream(s). Therefore, the Division will submit sealed as-built construction plans to the NCDOT Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain, were built as shown in the construction plans, both horizontally and vertically.

NCDOT Hydraulic Design Unit

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP) to determine the status of the project with regard to applicability of NCDOT's Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

Coordination resulted in approval on October 16, 2019 for the FEMA NFIP (National Flood Insurance Program) under NCDOT's MOA with the FMP. This commitment is still valid.

NCDOT Project Management Unit, Roadway Design, Division 10 Construction

NCDOT PMU and Roadway Design Unit will continue to coordinate with the Carolina Thread Trail, to accommodate the proposed trail, blue-way, and parking area, during the final design phase.

Since the completion of the NEPA Document, a parking area has been established with river access via wooden stairs leading down to the Rocky River. This project will avoid impacts to this facility.

Division 10 Construction

A historical marker is located in the northeast quadrant of the existing bridge. Coordination with the North Carolina Department of Cultural Resources (NCDRCR) will need to take place, to ensure proper handling and replacement of the historical marker.

Sheet 6 of the Roadway Plans indicate: "Relocate historical marker 1' outside of left proposed paved shoulder."

NCDOT Environmental Analysis Unit, NCDOT Div. 10 Construction

During the course of the archaeological survey, one previously recorded archaeological site was identified (31AN12/134). The core area of site 31AN12/134, described as the “midden” within the upper terrace, is eligible for listing in the National Register of Historic Places (NRHP) under Criterion D, for its information potential. It was recommended that this portion of site 31AN12/134 be avoided. However, if ground disturbing activities are scheduled to take place in this area, then archaeological data recovery investigations will be necessary to mitigate the adverse impacts. In addition, archaeological monitoring of any ground disturbing activities that may impact portions of site 31AN12/134 that lie outside of the NRHP recommended portion of the site was recommended.

The following specifications will be included in the construction plans, and NCDOT will be responsible for ensuring that the contractor adheres to these commitments during the construction phase of the project:

- The contractor will contact Matt Wilkerson at (919) 707-6089 or mtwilkerson@ncdot.gov, when ground-disturbing activities are anticipated on the south side of the Rocky River, in locations designated from "Station 14+20 to Station 34+30" on the contract plans.
- The contractor will provide 72 hours-notice to Mr. Wilkerson, prior to ground-disturbing activities that take place on the south side of the Rocky River, in the locations designated from "Station 14+20 to Station 34+30" on the contract plans. The 72-hour period will begin upon acknowledgment by Mr. Wilkerson that they have received the contact from the contractor.
- Mr. Wilkerson or his designate, will be on-site during the ground disturbing activities that take place on the south side of the Rocky River, to monitor the activities within the locations designated from "Station 14+20 to Station 34+30". Monitoring activities may include: Cleaning and photographing areas exposed during construction, mapping both plan and profile views of open trenches, as well as collecting materials or artifacts exposed during construction. Mr. Wilkerson or his designate, will have the authority to halt all construction work in the monitored location(s) to assess the need for further archaeological excavations.

NCDOT Division 10, Roadside Environmental Unit

NCDOT will adhere to Design Standards in Sensitive Watersheds (DSSW), as the Rocky River is listed in the 2018 Final 303(d) list of impaired waters due to turbidity

COMMITMENTS FROM PERMITTING

404 Renewal Condition #3: The following condition(s) received from the U.S. Fish and Wildlife Service by letter dated February 16, 2023 are hereby incorporated as special conditions of this permit:

- a. Per NCDOT’s January 24, 2022 email to USFWS, the Permittee shall complete a follow-up mussel survey in late-winter/spring of 2023 in the Rocky River.
- b. The Permittee shall continue the implementation of best management practices for adequate erosion and sedimentation controls during project activities.

SAW 2021-00300 NCDOT B-4407 Bridge #70 on U.S. 52 across Rocky River, Anson and Stanly Counties

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action Id. SAW 2021-00300 NCDOT B-4407 Bridge #70 on U.S. 52 across Rocky River County: Anson/Stanly U.S.G.S. Quad:
NC-Mount Gilead West

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee: North Carolina Department of Transportation
Ms. Erin Cheely
Address: 1598 Mail Service Road
Raleigh, NC 27699-1598
Telephone Number: (919) 707-6008
E-mail: ekcheely@ncdot.gov

Size (acres)	<u>N/A</u>	Nearest Town	<u>Norwood</u>
Nearest Waterway	<u>Rocky River</u>	River Basin	<u>Upper Pee Dee</u>
USGS HUC	<u>03040105</u>	Coordinates	Latitude: <u>35.194103</u> Longitude: <u>-80.113281</u>

Location description: The project is located at Bridge No. 70 on US 52 across Rocky River approximately 500 feet south of the intersection of US 52 and Riverview Road (NC 1934) in Stanly Counties, North Carolina. Rocky River will be impacted by the construction of a new bridge directly downstream of the existing bridge and the removal of the former bridge.

Description of projects area and activity: This verification authorizes NCDOT project B-4407, which will include the replacement of the existing Bridge# 70 on US 52 over Rocky River with the placement of a new bridge on new alignment across Rocky River directly downstream of the existing US 52 roadway bridge. This project will include impact to a total of 154 linear feet of Rocky River from the permanent placement of 10 linear feet of stream bank stabilization and temporary placement of 60 linear feet of causeways and 84 linear feet of culverts for the demolition of the existing US 52 bridge.

Applicable Law(s): Section 404 (Clean Water Act, 33 USC 1344)
 Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: **Regional General Permit (RGP) 50**

SEE ATTACHED NWP GENERAL, REGIONAL, AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached Conditions, your application signed and dated 1/24/2023, and the enclosed plans Permit Drawings 1-6 of 6 dated 1/29/2021. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management **Morehead City, NC, at (252) 808-2808.**

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits. If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Stephen A. Brumagin** at (704) 510-0162 or stephen.a.brumagin@usace.army.mil.

Corps Regulatory Official: Monte Matthew 2023.03.03
13:55:47 -05'00' Date: 3/3/2023

Expiration Date of Verification: 5/25/2025

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 January 29, 2021. 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. The following condition(s) received from the U.S. Fish and Wildlife Service by letter dated February 16, 2023 (see attached) are hereby incorporated as special conditions of this permit:
 - a. Per NCDOT's January 24, 2022 email to USFWS, the Permittee shall complete a follow-up mussel survey in late-winter/spring of 2023 in the Rocky River.
 - b. The Permittee shall continue the implementation of best management practices for adequate erosion and sedimentation controls during project activities.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Asheville Field Office
160 Zillicoa Street Suite B
Asheville, North Carolina 28801

February 16, 2023

Stephen Brumagin
Regulatory Program Manager
U.S. Army Corps of Engineers, Wilmington District
8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262

Subject: Informal Consultation for Bridge 70 Replacement on US 52 over the Rocky River in Anson and Stanly Counties (SAW 2021-00300, TIP No. B-4407, Service Log #23-213)

Dear Stephen Brumagin:

On January 27, 2023, we received (via e-mail) your request for informal consultation and section 7 concurrence for effects the subject project may have on federally listed species. We have reviewed the information you submitted along with information from NCDOT received on January 20 and 24, 2023, subsequent conversations with our freshwater mussel recovery biologists, and a meeting with NCDOT on January 23, 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) (Act).

Project Description

According to the information provided, the North Carolina Department of Transportation (NCDOT) has already started work on a project to replace Bridge 70 on US 52 over the Rocky River on the Anson and Stanly County line within the Yadkin-Pee Dee River Basin. The U.S. Army Corps of Engineers (ACOE) formally authorized the project under its non-reporting Nationwide Clean Water Act Permit 13 and 33 and corresponding Water Quality Certification. The ACOE is the lead federal action agency for this project for section 7 purposes. A section 7 review by the ACOE concluded no effect to federally listed species and our office agreed on March 23, 2021. The ACOE authorizations for the project are set to expire on March 18, 2023 and construction will not be complete in jurisdictional resources by that time necessitating, a permit renewal.

NCDOT requested the renewal under the ACOE's Regional General Permit 50. The renewal requires a new section 7 compliance review by the ACOE. Since the original permit, the U.S. Fish and Wildlife Service (Service) has updated the consultation range and consultation guidance for several federally listed species, including the Carolina heelsplitter (*Lasmigona decorata*).

The new bridge has already been built; however, the existing bridge still requires demolition. All tree clearing for the project has been completed. Bridge demolition will be completed by around September 2023. The only remaining work will be done in-water or from the banks where areas have already been cleared of vegetation.

NCDOT has agreed to implement the following conservation measures for the project.

1. Per NCDOT's January 24, 2022 email, they will complete a follow-up mussel survey in late-winter/spring of 2023 in the Rocky River.
2. NCDOT will continue implementing best management practices for adequate erosion and sedimentation controls during project activities.

Federally Listed Species

Your letter provides a recent and complete list of species that may occur within the project area per our Information for Planning and Consultation website and an effect determination for each species. Based upon a review of our records and a lack of vegetation where remaining work will occur, we agree with your "no effect" determinations for Schweinitz's sunflower (*Helianthus schweinitzii*). Red-cockaded woodpecker (*Picoides borealis*) does not require consultation at this time as its presence in Anson County is considered historic.

The project is within the current range and area of influence for Atlantic pigtoe (*Fusconaia masoni*) and Carolina heelsplitter (*Lasmigona decorate*). Our Asheville Ecological Services Field Office updated the consultation range for Carolina heelsplitter on May 31, 2022 and consultation guidance on July 8, 2022, after the original coordination for this project. Information provided in the mussel survey report indicate that suitable habitat is present as are co-occurring species (for instance, *Elliptio* sp. and *Villosa* sp.). Atlantic pigtoe and Carolina heelsplitter were not observed during in-water surveys on June 19, 2018 by 10(1)1(A) permitted individuals. Based on negative results of visual surveys and the conservation measures listed above, we concur with the ACOE's determination that the project may affect but is not likely to adversely affect the Atlantic pigtoe and Carolina heelsplitter.

The northern long-eared bat (*Myotis septentrionalis*) was considered during the original section 7 review for this project. However, the species no longer requires section 7 consultation for this project as the project falls outside of the new national consultation range for the species published on November 28, 2022.

On September 14, 2022, the Service published a proposal in the Federal Register to list the tricolored bat (*Perimyotis subflavus*) as endangered under the Act. The Service has up to 12-months from the date the proposal published to make a final determination, either to list the tricolored bat under the Act or to withdraw the proposal. Species proposed for listing are not afforded protection under the Act; however, as soon as a listing becomes effective (typically 30 days after publication of the final rule in the Federal Register), the prohibitions against jeopardizing its continued existence and "take" will apply. As NCDOT believes bridge demolition will be complete prior to any proposed final listing, this consultation does not include tricolored bat. If project activities get delayed, this project may require reinitiation of consultation to provide uninterrupted authorization for covered activities. Suitable commuting, foraging and bridge-roosting habitat for the tricolored bat are present within the action area.

Reinitiation Notice

We believe the requirements under section 7 of the Act are fulfilled for the Schweinitz's sunflower, red-cockaded woodpecker, Atlantic pigtoe, and Carolina heelsplitter. 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. Please contact Ms. Lauren B. Wilson of our staff at lauren_wilson@fws.gov if you have any questions. In any future correspondence concerning this project, please reference our Service Log #23-213.

Sincerely,

-- original signed --

Janet Mizzi
Field Supervisor

SAW 2021-00300 NCDOT B-4407 Bridge #70 on U.S. 52 across Rocky River, Anson and Stanly Counties

Action ID Number: SAW 2021-00300 NCDOT B-4407 Bridge #70 on U.S. 52 across Rocky River
County: Anson/Stanly

Permittee: North Carolina Department of Transportation, Ms. Erin Cheely

Project Name: NCDOT B-4407 Bridge #70 on US 52 across Rocky River

Date Verification Issued: 3/3/2023

Project Manager: Stephen A. Brumagin

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Stephen A. Brumagin
Charlotte Regulatory Office
U.S Army Corps of Engineers
8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262
or
stephen.a.brumagin@usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: **North Carolina Department of
Transportation, Ms. Erin Cheely**

File Number: **SAW-2021-00300
NCDOT B-4407 Bridge70 Rocky River**

Date: **3/3/2023**

Attached is:	See Section below
<input checked="" type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/> PERMIT DENIAL	C
<input type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION	D
<input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at or <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx> or the Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

**District Engineer, Wilmington Regulatory Division
Attn: Stephen A. Brumagin
Charlotte Regulatory Office
U.S Army Corps of Engineers
8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262**

If you only have questions regarding the appeal process you may also contact:

**MR. PHILIP A. SHANNIN
ADMINISTRATIVE APPEAL REVIEW OFFICER
CESAD-PDS-O
60 FORSYTH STREET SOUTHWEST, FLOOR M9
ATLANTA, GEORGIA 30303-8803**

PHONE: (404) 562-5136; FAX (404) 562-5138
EMAIL: PHILIP.A.SHANNIN@USACE.ARMY.MIL

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.

_____	Date:	Telephone number:
Signature of appellant or agent.		

For appeals on Initial Proffered Permits send this form to:

District Engineer, Wilmington Regulatory Division, Attn: Stephen A. Brumagin, 69 Darlington Avenue, Wilmington, North Carolina 28403

For Permit denials, Proffered Permits and Approved Jurisdictional Determinations send this form to:

**Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Philip Shannin,
Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801
Phone: (404) 562-5137**



NORTH CAROLINA
Environmental Quality

February 9, 2023

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

RICHARD E. ROGERS, JR.
Director

DWR # 2020-1506v2
Anson and Stanly Counties

Ms. Erin Cheely
Environmental Coordinator
NCDOT
MSC 1598
Raleigh, NC 27699-1598

Subject: APPROVAL OF 401 WATER QUALITY CERTIFICATION -REISSUANCE Proposed B-4407,
Bridge 70 on US 52 over Rocky River (Yadkin River Basin, 13-17; C)

Dear Ms. Cheely:

You have our approval, in accordance with the conditions listed below, for the following impacts for the purpose of the proposed B-4407, Replacement of Bridge 70 on US 52 over Rocky River in Anson and Stanly Counties:

Stream Impacts in the Catawba River Basin

Site	Amount Approved (LF)
S1 (causeway in Anson Co)	30
S2 (causeway in Stanly Co)	30
S3 (pipe Stanly Co)	44
S4 (causeway in Stanly Co)	30
S5 (causeway in Anson Co)	30
S6 (Anson Co SW Outlet)	10
S7 (pipe Anson Co.)	40
S8 (Anson and Stanly Co)	60
Total	274

The project shall be constructed in accordance with your application dated received January 25, 2023. After reviewing your application, we have decided that these impacts are covered by General Water Quality Certification Number 4135. This certification corresponds to the Regional General Permit 50 issued by the Corps of Engineers. In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations. This approval will expire with the accompanying 404 permit.

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must 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 total wetland fills for this project (now or in the future) exceed one acre, or of total impacts to perennial streams (now or in the future) exceed 300 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the attached certification(s) and any additional conditions listed below.



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

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Bill F. Lane, General Counsel
Department of Environmental Quality
1601 Mail Service Center

This letter completes the review of the Division of Water Resources under Section 401 of the Clean Water Act. If you have any questions, please contact Amy Chapman at (919) 707-3871 or amy.chapman@ncdenr.gov.

Sincerely,

DocuSigned by:

Amy Chapman

9C9886312DCD474...

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

Electronic copy only distribution:

Steve Brumagin, US Army Corps of Engineers, Charlotte Field Office, Stephen.A.Brumagin@usace.army.mil
Michael Turchy; via email
Kristi Lynn Carpenter, DWR



ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

RICHARD E. ROGERS, JR.
Director



NORTH CAROLINA
Environmental Quality

NCDWR Project No.: _____ County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Engineer's Certification

_____ Partial _____ Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____
Date _____



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

ROY COOPER

Governor

DIONNE DELLI-GATTI

Secretary

S. DANIEL SMITH

Director

NORTH CAROLINA
Environmental Quality

March 31, 2021
 Stanly & Anson Counties
 NCDWR Project No. 20201506v.1
 Replace Bridge 70 on US 52
 State Project No. B-4407

APPROVAL of 401 WATER QUALITY CERTIFICATION with ADDITIONAL CONDITIONS

Mr. Philip S. Harris, III, P.E., CPM
 Environmental Analysis Unit Head
 1598 Mail Service Center
 Raleigh, NC 27699-1598

Dear Mr. Harris:

You have our approval, in accordance with the conditions listed below, for the following impacts for the purpose of replacing bridge 70 on US 52 (B-4407) in Stanly and Anson Counties:

Stream Impacts in the Yadkin-PeeDee River Basin

Site	Bank Stabilization (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	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)
1 causeway (Anson Co)				30	30	0
2 causeway (Stanly Co)				30	30	0
3 pipe (Stanly Co)				44	44	0
4 causeway (Stanly Co)				30	30	0
5 causeway (Anson Co)				30	30	0
6 (Anson Co) SW outlet	10				10	0
7 pipe (Anson Co)		40			40	0
8 (Anson & Stanly Co)	60				60	0
TOTAL	70	40	0	164	274	0

Total Temporary Stream Impact for Project: 144 linear feet. (several impacts overlap)

Total Permanent Stream Impacts: 70 linear feet

The project shall be constructed in accordance with your application dated received February 12, 2021 and the email received from NC DOT ECAP on March 31, 2021. After reviewing your application, we have decided that these impacts are covered by General Water Quality Certification Number 4134 and 4141. This certification corresponds to the Nationwide Permit 13 and Nationwide Permit 33 issued by the Corps of Engineers. In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations. This approval will expire with the accompanying 404 permit.

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must 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 total wetland fills for this project (now or in the future) exceed one acre, or of total



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

impacts to perennial streams (now or in the future) exceed 300 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the attached certification(s) and any additional conditions listed below.

Condition(s) of Certification:

Project Specific Conditions

1. 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)]
2. 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)]
3. 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 NCS000250 [delete if non-DOT project], 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)]
4. 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)]
5. 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)]
6. A turbidity curtain will be installed in the stream if driving or drilling activities occur within the stream channel, on the stream bank, or within 5 feet of the top of bank, or during the removal of bents from an old bridge. This condition can be waived with prior approval from the NCDWR. [15A NCAC 02H .0506(b)(3)]
7. 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)]
- 8.

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. 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)]
4. 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)]
5. 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)]
6. 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)]
7. 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)]
8. 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)]
9. 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)]
10. 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)]
11. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
12. 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]
13. 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)]
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 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 enclosed "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(f)]
19. Native riparian vegetation (ex. *Salix nigra*, *Juncus* (spp), *Carex* (spp), et al.) 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.0231(b)(6)]
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 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.
22. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. [15A NCAC 02H.0506(b)(3) and (c)(3)]

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Bill F. Lane, General Counsel
Department of Environmental Quality
1601 Mail Service Center

This letter completes the review of the Division of Water Resources under Section 401 of the Clean Water Act. If you have any questions, please contact Donna Hood at (704) 235-2193 or donna.hood@ncdenr.gov.

Sincerely,

DocuSigned by:

Amy Chapman

9C9886312DCD474...

S. Daniel Smith, Director
Division of Water Resources

Electronic copy only distribution:

Eric Alsmeyer, US Army Corps of Engineers, Raleigh Field Office
Joel Howard, Division 10 Environmental Officer
Michael Turchy, NC Department of Transportation
Holland Youngman, US Fish and Wildlife Service
Lauren Wilson, US Fish and Wildlife Service
Marla Chambers, NC Wildlife Resources Commission
Donna Hood, NC Division of Water Resources Mooresville Regional Office
File Copy

ROY COOPER
Governor

DIONNE DELLI-GATTI
Secretary

S. DANIEL SMITH
Director



NCDWR Project No.: _____ County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant’s authorized agent, **or** the project engineer. It is not necessary to send certificates from all of these.

Applicant’s Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent’s Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Engineer’s Certification

_____ Partial _____ Final

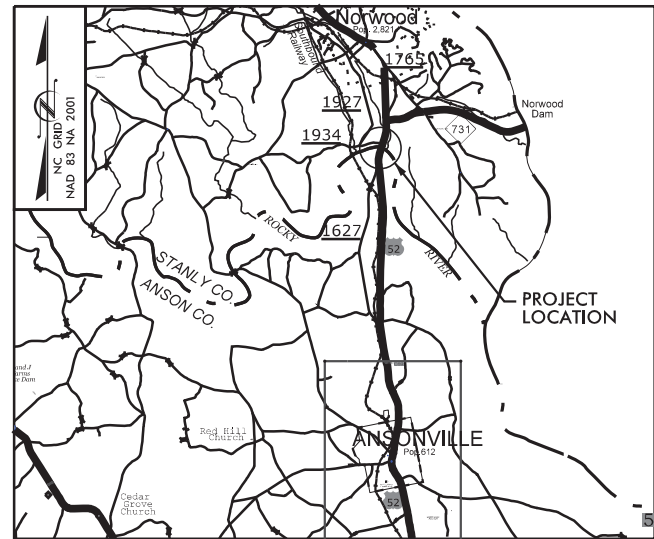
I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____
Date _____



TIP PROJECT: B-4407

See Sheet 1A For Index of Sheets



VICINITY MAP (N.T.S.)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ANSON /STANLY COUNTIES

LOCATION: REPLACE BRIDGE NO. 030070 OVER
ROCKY RIVER ON US-52

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4407	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38356.1.2	NA	PE	
38356.1.2	NA	RW & UTILITIES	
38356.1.2	NA	CONST.	



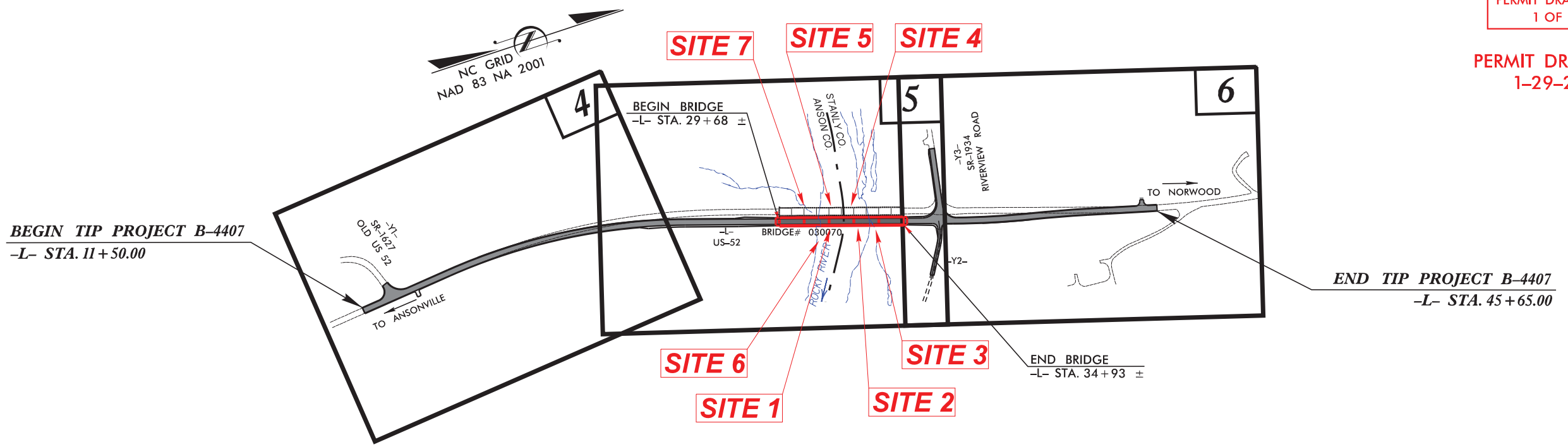
V&M
Vaughn & Melton
Consulting Engineers

Charlotte, North Carolina 704-557-0488
Tri-Cities, Tennessee 423-467-8400
Knoxville, Tennessee 865-546-8800
Middlesboro, Kentucky 606-248-8400
Spartanburg, South Carolina 864-574-4775

Asheville, North Carolina 828-253-2796

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WETLAND AND SURFACE WATER IMPACTS PERMIT



PERMIT DRAWINGS
1 OF 6

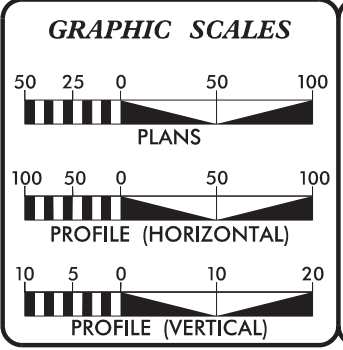
PERMIT DRAWINGS
1-29-2021

DESIGN EXCEPTION REQUIRED FOR MAXIMUM VERTICAL GRADE -L- STA. 34+35.00 TO 43+75.00

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2015 = 3900
ADT 2040 = 4900
D = 60%
K = 9%
T = 22%
*TTST = 8% DUAL = 14%
FUNCT. CLASS =
PRINCIPAL ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4407 = 0.548 MI
LENGTH STRUCTURE TIP PROJECT B-4407 = 0.099 MI
TOTAL LENGTH OF TIP PROJECT B-4407 = 0.647 MI

Prepared in the Office of:
VAUGHN & MELTON
1318-F PATTON AVE.
ASHEVILLE NC, 28806
FOR THE NORTH CAROLINA DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MAY 20, 2019

LETTING DATE:
MAY 19, 2020

REECE SCHULER, PE, PLS
PROJECT ENGINEER

JOHN LANSFORD, PE
PROJECT DESIGN ENGINEER

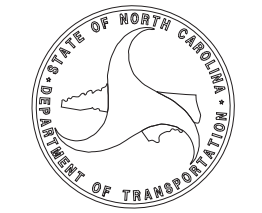
DAVID STUTTS, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DDN\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$

8/17/99

WETLAND & STREAM IMPACTS

PERMIT DRAWING
SHEET 2 OF 6

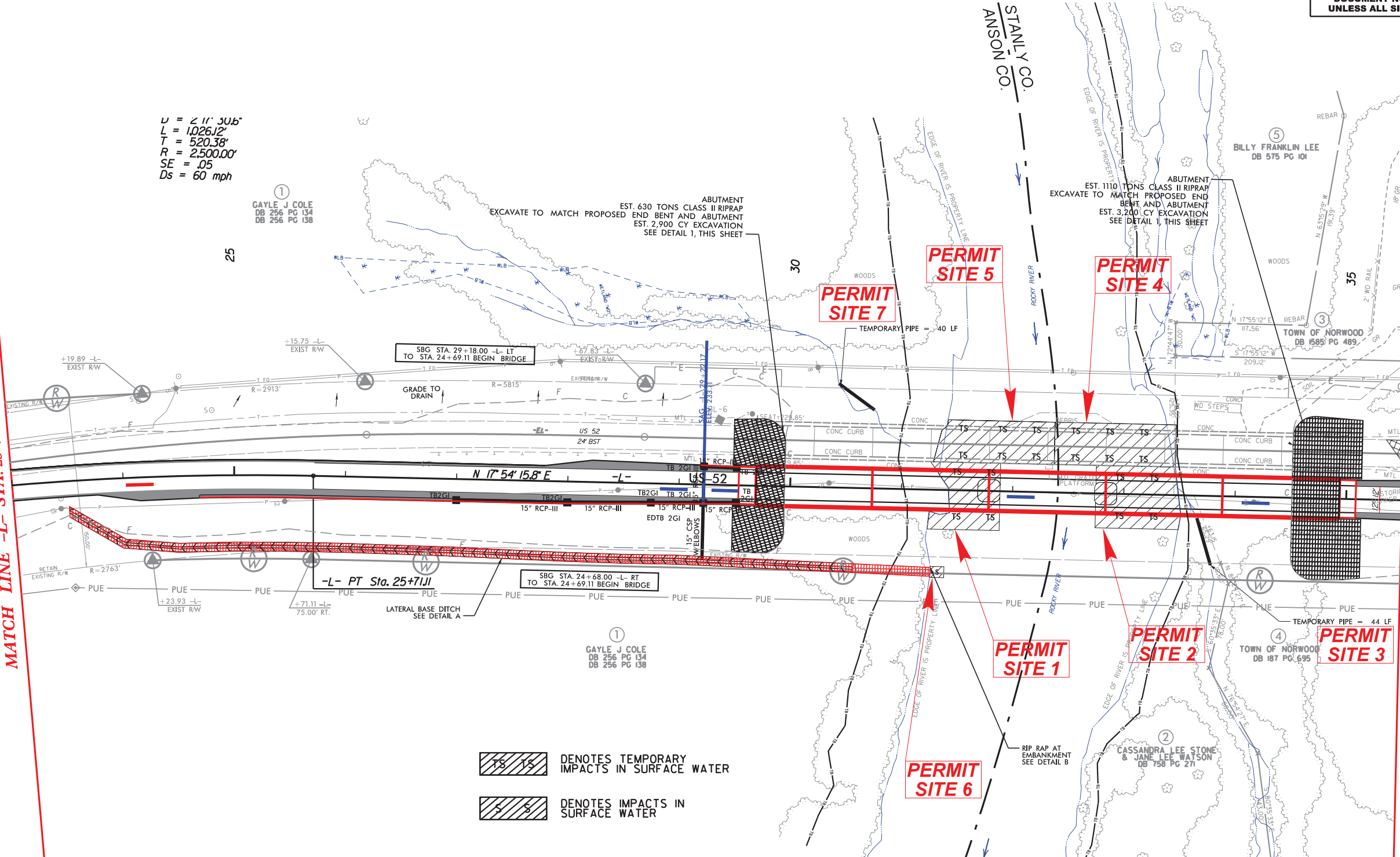
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



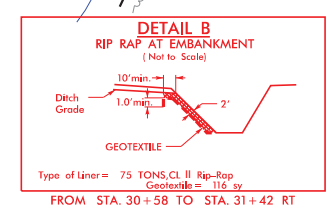
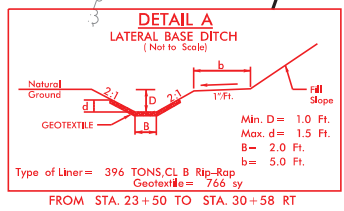
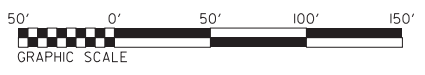
MATCH LINE -L- STA. 23+00.00 SEE SHEET 4

MATCH LINE -L- STA. 35+50.00 SEE SHEET 6

$V = 211.306'$
 $L = 1,026.12'$
 $T = 520.38'$
 $R = 2,500.00'$
 $SE = .05$
 $Ds = 60 \text{ mph}$



DENOTES TEMPORARY IMPACTS IN SURFACE WATER
 DENOTES IMPACTS IN SURFACE WATER



CUSTOMER: STANLEY CO. ANSON CO. PROJECT: US 52 BRIDGE OVER ROCKY RIVER

8/17/99

WETLAND & STREAM IMPACTS

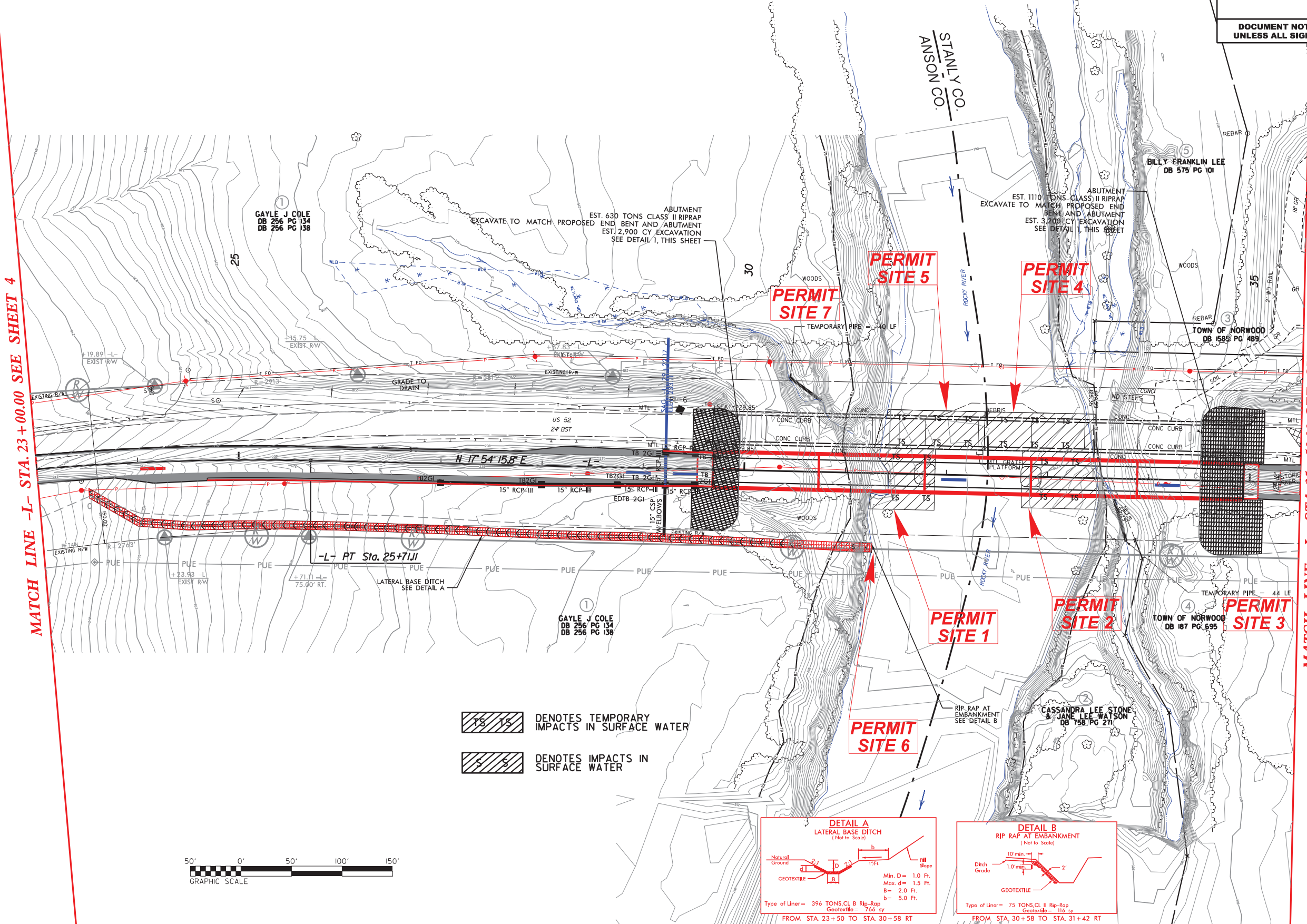
PERMIT DRAWING
SHEET 3 OF 6


PROJECT REFERENCE NO. B-4407	SHEET NO. 2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




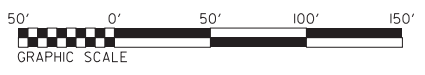
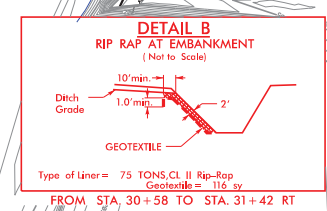
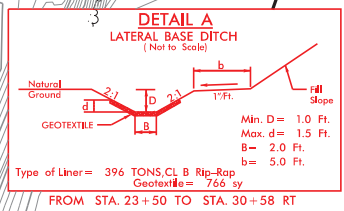
MATCH LINE -L- STA. 23+00.00 SEE SHEET 4

MATCH LINE -L- STA. 35+50.00 SEE SHEET 6



 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

 DENOTES IMPACTS IN SURFACE WATER



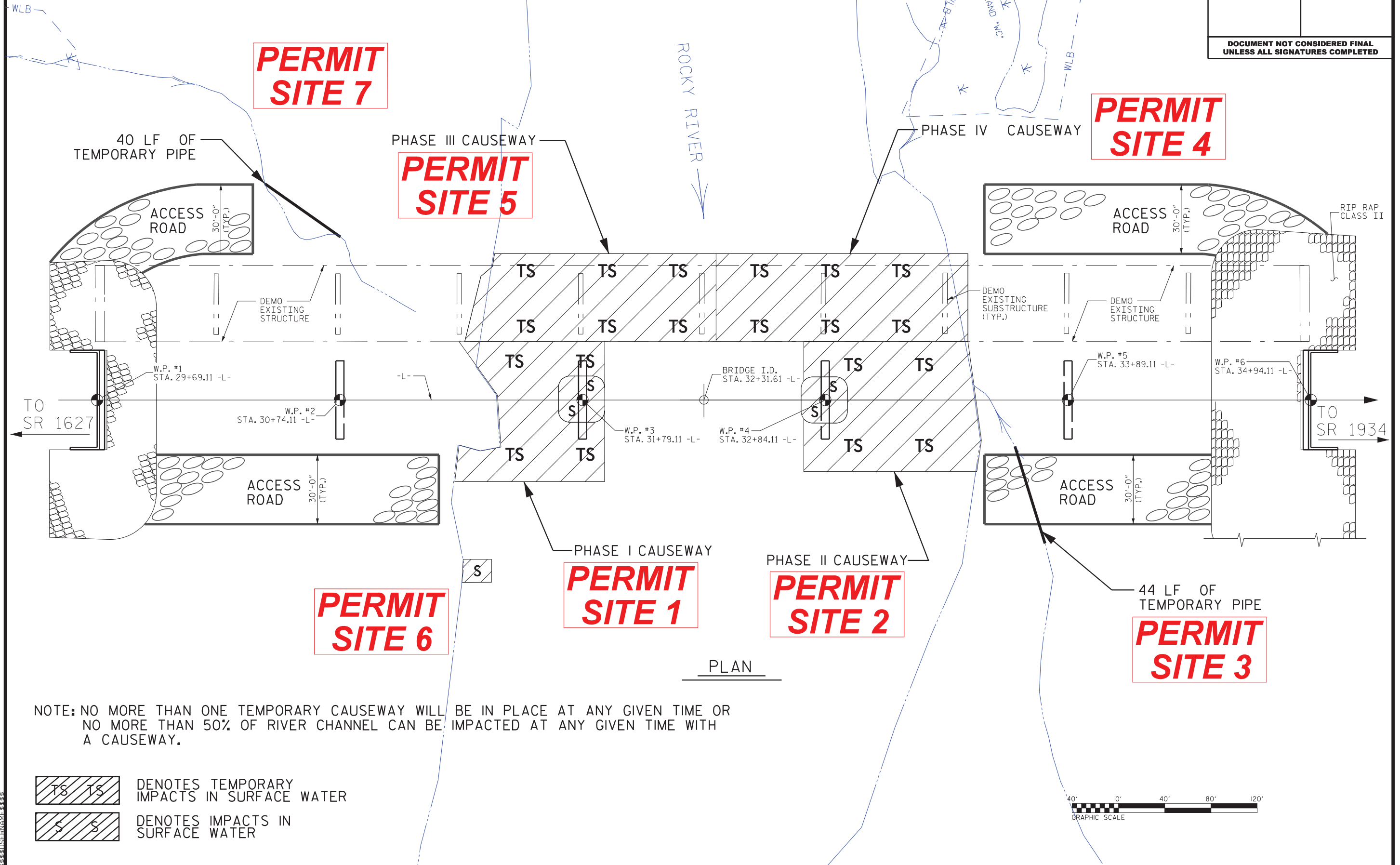
8/17/99

8/17/99

WETLAND & STREAM IMPACTS CAUSEWAY PHASING

**PERMIT DRAWING
SHEET 4 OF 6**

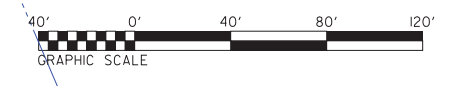
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PLAN

NOTE: NO MORE THAN ONE TEMPORARY CAUSEWAY WILL BE IN PLACE AT ANY GIVEN TIME OR NO MORE THAN 50% OF RIVER CHANNEL CAN BE IMPACTED AT ANY GIVEN TIME WITH A CAUSEWAY.

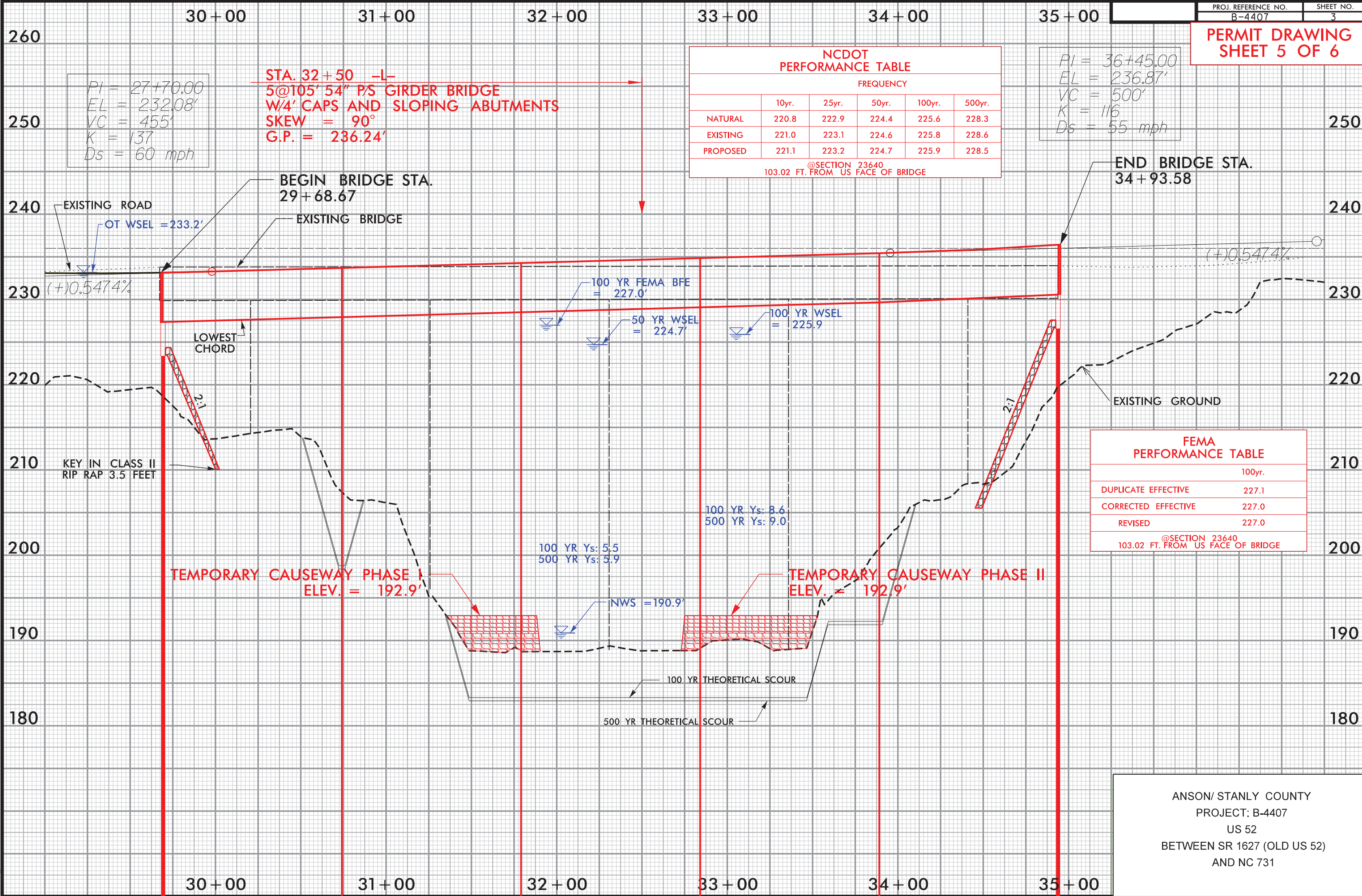
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER



CUSTOMER'S PROPERTY

6/23/16

PERMIT DRAWING SHEET 5 OF 6



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User: jldaves

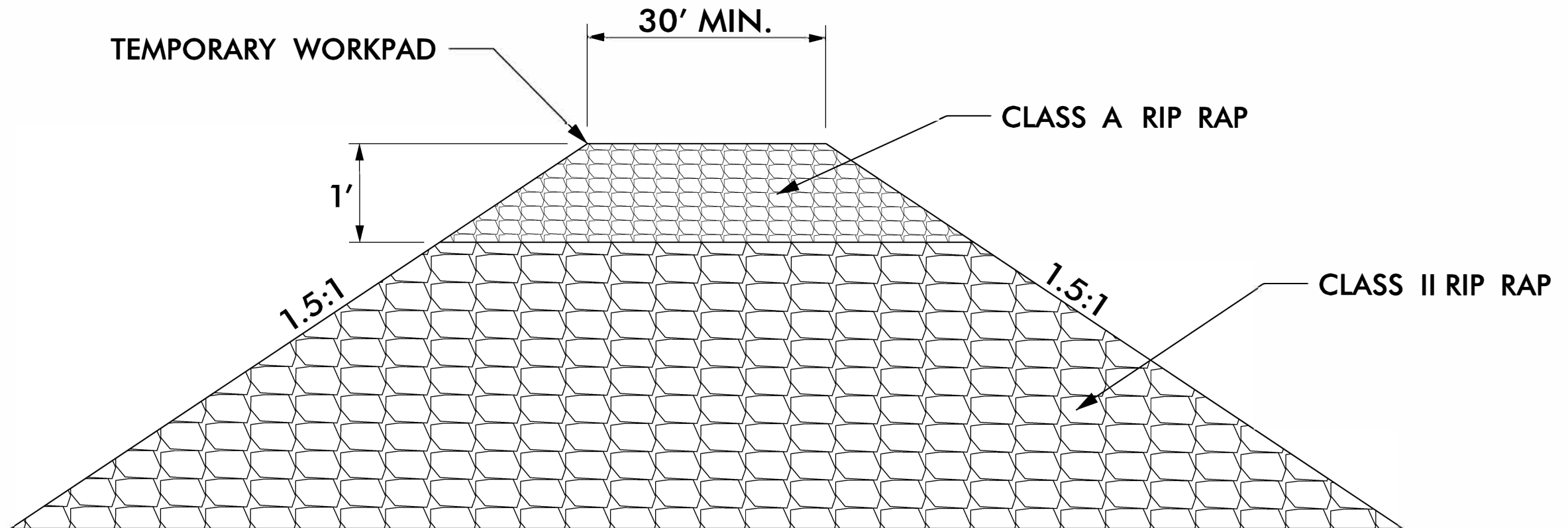
ANSON/STANLY COUNTY
PROJECT: B-4407
US 52
BETWEEN SR 1627 (OLD US 52)
AND NC 731

8/17/99

TEMPORARY WORKPAD DETAIL

PERMIT DRAWING
SHEET 5A OF 6

PROJECT REFERENCE NO. B-4407	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION

NOT TO SCALE

CONDITIONS AS SHOWN ON SHEET 5A OF 6

WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			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	-L- 31+24 / 31+89 RT	Causeway						0.07			30	
2	-L- 32+75 / 33+50 RT	Causeway						0.09			*	
3	-L- 33+66 / 33+79 RT	Temporary Pipe						< 0.01			44	
4	-L- 32+37 / 33+46 LT	Causeway						0.10			30	
5	-L- 31+28 / 32+37 LT	Causeway						0.09			*	
6	-L- 30+89 / 31+28 RT	Ditch Outlet - Bank Stabilization						< 0.01		10		
7	-L- 30+42 / 30+74 RT	Temporary Pipe						< 0.01			40	
TOTALS*:								< 0.01	0.34	10	144	0

*Rounded totals are sum of actual impacts

NOTES:
 * The 30 LF of impacts from these causeways overlap with sites 1 and 4 respectively.
 Bent 2<.01 Ac of impact
 Bent 3<.01 Ac of impact

** UPON REMOVAL OF THE CAUSEWAY, THE CLASS II RIP RAP USED IN THE CAUSEWAY WILL BE PLACED AS RIP RAP SLOPE PROTECTION & BANK STABILIZATION

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 1/29/2021
 STANLY/ANSON
 B-4407
 38356.1.2
 SHEET 6 OF 6