



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

May 28, 2025

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 58 0111** over North Fork Catawba River on SR 1573 (Pitts Station Road) in McDowell County, Division 13, WBS DF18313.2059011.PR

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 Permits 3 and 33	March 14, 2026
NC Division of Water Resources Section 401 Water Quality Certification	Individual Water Quality Certification	March 14, 2026

Work is authorized by the above referenced documents 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) or accompanying drawings 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/](https://xfer.services.ncdot.gov/pdea/PermIssued/_General_Conditions_and_Certifications/)

# 404 Permit (USACE)



DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT  
151 Patton Avenue, Room 208  
Asheville, NC 28801-5006

May 28, 2025

Regulatory Division  
SAW-2025-01051

North Carolina Department of Transportation  
Attn: Mr. Michael A. Turchy  
Environmental Coordination and Permitting Group Leader  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598  
Sent Via Email: [maturchy@ncdot.gov](mailto:maturchy@ncdot.gov)

Dear Mr. Turchy,

This letter is in response to the application you submitted to the U.S. Army Corps of Engineers (USACE), Wilmington District, WRDA/Transportation Branch on May 21, 2025, for Department of the Army general permit verification for a structure that was damaged during **Hurricane Helene**. This project will replace **Bridge No. 111** over the North Fork Catawba River on SR 1573 (Pitts Station Road) in McDowell County, North Carolina (35.8345, -82.0022). This project has been assigned file number SAW-2025-01051. In order to conduct this work, NCDOT proposes to conduct the following activities in waters of the U.S.:

**Summary of Proposed Impacts**

Impact ID #	NWP / GP #	Open Water (ac)		Wetland (ac)		Stream (lf)	
		Temporary	Permanent	Temporary	Permanent	Temporary	Permanent
Site 1 (North Fork Catawba River)	NWPs 3 and 33					62' / 0.14 ac. (work pads/ causeways)	51' (bank stabilization)
						0.02 ac (bridge bent) ATF	
Impact Totals		0	0	0	0	0.16 ac.	51'
Total Loss of waters of the U.S. (wetlands and/or open waters)			0	Total Loss of waters of the U.S.			0

\*48' of bank stabilization was also placed on the riverbanks under the maintenance exemption.

We have reviewed the proposed activities in waters of the U.S. and have determined that the activities are authorized by Nationwide Permits (NWP) 3 and 33 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 following:

- enclosed general conditions for NWP 3 and 33
- enclosed NWP regional conditions for NWP 3 and 33
- special conditions of the verification letter for this project (see below)
- information in the PCN and attachments
- enclosed project plans titled

If the extent of the project area and/or nature of the authorized impacts to waters are modified, a request detailing the proposed changes must be submitted to this office for written approval before work is initiated. Any deviation from the terms and conditions of the permit, the special conditions of this letter, the information contained in the PCN, or your submitted plans, may subject the permittee to enforcement action.

This verification is valid until March 14, 2026, unless one or both of the subject NWP is/are suspended, revoked, or modified prior to that date such that the activity no longer complies with the terms and conditions of one or both of the NWPs.

**Project Specific Special Conditions:**

1. The U.S. Fish and Wildlife Service (USFWS) issued a document titled, "Biological and Conference Opinions and Informal Consultations – Batch Format, Replace Multiple Crossing Structures Destroyed by Tropical Storm Helene in Buncombe, McDowell, Yancey Counties, North Carolina, Service Log #25-110 through 25-117" on February 11, 2025. This document (Opinion) contains mandatory Reasonable and Prudent Measures and Terms and Conditions that are associated with "incidental take" for this project. Your authorization under NWP 3 and 33 and this verification letter is conditional upon your compliance with the mandatory reasonable and prudent measures and terms and conditions associated with incidental take for the species associated with this project, as detailed in this Opinion. These terms and conditions of the Opinion are incorporated by reference in this verification letter. Failure to comply with these reasonable and prudent measures and terms and conditions, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your authorization for this project. The USFWS is the appropriate authority to determine compliance with the reasonable and prudent measures and terms and conditions of its Opinion, and with the ESA.

2. The permittee shall ensure that the causeways constrict no more than 50% of river flow at any one time.



3. The permittee shall implement all reasonable and practicable measures to ensure that equipment, structures, causeways, fill pads, work, and operations associated with this project do not adversely affect upstream and/or downstream reaches. Adverse effects include, but are not limited to, channel instability, flooding, and/or stream bank erosion. The permittee shall routinely monitor for these effects, cease all work when detected, take initial corrective measures to correct actively eroding areas, and notify this office immediately. Permanent corrective measures may require additional authorization by the USACE.
4. The permittee shall ensure that any equipment that is placed on the causeways is removed when either of the following situations is forecasted or anticipated: (1) the water level will rise to a point where the equipment could be flooded (even during work days), and/or (2) the water level is expected to rise overnight, or over a non-work period of time, to a point where the equipment could be flooded.
5. Upon completion of work that requires the causeways to be in the river, the permittee shall remove all readily detectible causeway material, to the extent practicable, while removing as little of the original riverbed as possible.
6. NCDOT 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.

This general permit verification and any associated authorizations 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 Lori Beckwith, Regulatory Project Manager of the WRDA/Transportation Branch at 828-230-0483 or by email at [loretta.a.beckwith@usace.army.mil](mailto:loretta.a.beckwith@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

**Conditioned elements excerpted from the referenced Biological Opinion:**

**Corps Condition #1:**

Your authorization under NWP 3 and 33 and this verification letter is conditional upon your compliance with the mandatory **reasonable and prudent measures** and **terms and conditions** associated with incidental take for the species associated with this project, as detailed in this Opinion.

The **terms and conditions** of the Opinion are incorporated by reference in this verification letter.

**7.3 Reasonable and Prudent Measures**

1. NCDOT shall ensure that the contractor(s) understands and follows the measures listed in the “Conservation Measures”, “Reasonable and Prudent Measures,” and “Terms and Conditions” sections of this Opinion.
2. NCDOT shall minimize the area of disturbance within the action areas to only the area necessary for the safe and successful implementation of the proposed actions.
3. NCDOT shall monitor and document any take numbers and the surrogate measures of take and report those to the Service in a batched format.

**7.4 Terms and Conditions**

1. NCDOT shall adhere to all measures as listed in the Avoidance and Minimization and Conservation Measures section as summarized in this Opinion.
2. The NCDOT will immediately inform the Service if the amount or extent of incidental take in the incidental take statement is exceeded.
3. When incidental take is anticipated, the Terms and Conditions must include provisions for monitoring project activities to determine the actual project effects on listed fish or wildlife species (50 CFR §402.14(i)(3)). In order to monitor the impact of incidental take, the NCDOT must report the action impacts on the species to the Service according to the following:
  - a. The NCDOT will submit a report each year not later than September 30 identifying, per individual project (via Service Log # and NCDOT identifiers), the following for the preceding calendar year ending December 31:
    - i. Acreage of in-water impacts, if LAA for Appalachian elktoe.
    - ii. Acreage and dates of tree removal (if any), if LAA for bats (excepting gray bat).
    - iii. Dates of structure removal (if any), if LAA for bats.

## **Compliance Certification Form**

**File Number: SAW-2025-01051**

**County: McDowell**

**Permittee: NCDOT, Mr. Michael Turchy**

**Project Name: NCDOT / Bridge No. 111 / McDowell County / Div 13**

**Date Verification Issued: May 28, 2025**

**Project Manager: Lori Beckwith**

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: Lori Beckwith**

**151 Patton Avenue, Room 208**

**Asheville, NC 28801-5006**

**or**

**loretta.a.beckwith@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 USACE 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, and mitigation (if applicable), has been completed in accordance with the terms and conditions of the said permit and verification letter, including all applicable conditions.

**Date Authorized Work Started:** \_\_\_\_\_ **Completed:** \_\_\_\_\_

Describe any deviations from permit (attach drawing(s) depicting the deviations):

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**\*Note: The description of any deviations on this form does not constitute approval by the USACE.**

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**Signature of Permittee**

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**Date**

401

# Certification (NCDWR)

**JOSH STEIN**  
Governor

**D. REID WILSON**  
Secretary

**RICHARD E. ROGERS, JR.**  
Director



May 27, 2025

Mr. Jamie J. Lancaster, PE  
Environmental Analysis Unit  
North Carolina Department of Transportation  
1598 Mail Service Center  
Raleigh, North Carolina, 27699-1598  
jjlanaster@ncdot.gov

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with  
ADDITIONAL CONDITIONS for Proposed Replacement of Bridge 111 on SR 1573 in McDowell  
County, State Project No. DF18313.2059011.PR  
NCDWR Project No. 20250669

Dear Mr. Lancaster

Attached hereto is a copy of Certification No. 7914 issued to The North Carolina Department of Transportation (NCDOT) dated May 27, 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*  
375CAE2BB9F540C...

Richard E. Rogers Jr, Director  
Division of Water Resources

Attachments

Cc:

Lori Beckwith, US Army Corps of Engineers Asheville Office (Loretta.A.Beckwith@usace.army.mil)  
Michael Turchy, NCDOT Environmental Analysis Unit (maturchy@ncdot.gov)  
Mike Sanderson, NCDOT Division 13 Environmental Officer (jmsanderson@ncdot.gov)  
Dave McHenry, NC Wildlife Resources Commission Western Coordinator (david.mchenry@ncwildlife.org)  
Amy Anino, NC DWR Asheville Regional Office (amy.annino@deq.nc.gov)  
File Copy



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1650 Mail Service Center | Raleigh, North Carolina 27699-1650  
919.707.9000



## 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. This certification authorizes the NCDOT to impact 150 linear feet of jurisdictional streams in McDowell County. The project shall be constructed pursuant to the application dated received May 21, 2025. The authorized impacts are as described below:

### Stream Impacts in the Catawba River Basin

Site	Streambank Stabilization to Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)
<b>Total</b>	<b>51</b>	<b>99</b>	<b>150</b>

**Total Stream Impact for Project: 150 linear feet**

The application provides adequate assurance that the discharge of fill material into the waters of the Catawba 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 received May 21, 2025. 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 0.1 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.

### Conditions of Certification:

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 NCS0000250, please refer to the most recent version of the *North Carolina Department of Transportation Stormwater Best Management Practices Toolbox* manual for approved measures. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]
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)] [if applicable]
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. For projects impacting waters classified by the NC Environmental Management Commission as Trout (Tr), stormwater shall be directed to vegetated buffer areas, grass-lined ditches or other means appropriate to the site for the purpose of pre-treating storm water runoff prior to discharging directly into streams. Mowing of existing vegetated buffers is strongly discouraged. [15A NCAC 02B.0224 and 0225]
8. The permittee shall use ***Design Standards in Sensitive Watersheds*** (15A NCAC 4B.0124[a]-[e]) in areas draining to Trout waters.
9. NCDOT shall be in compliance with the NCS00250 issued to the NCDOT, including the applicable requirements of the NCG01000. Please note the extra protections for the sensitive watersheds. [15A NCAC 02B.0224 & 0225]
10. This project has the potential to impact trout waters or other aquatic species of concern. No construction activities shall begin until the NCWRC makes a determination regarding moratoria. Should the NCWRC determine that a moratorium is applicable then the requirements of any moratorium(s) shall be a condition of this 401 Certification. If the NCDOT does not wish to honor the moratorium, then a written modification shall be submitted. [15A NCAC 02H .0506(b)(2) and 15A NCAC 04B.0125]
11. Tall fescue shall not be used in the establishment of temporary or permanent groundcover within riparian areas draining to Trout waters. For the establishment of permanent herbaceous cover, erosion control matting shall be used in conjunction with an appropriate native seed mix on disturbed soils within the riparian area and on disturbed steep slopes with the following exception. Erosion control matting is not necessary if the area is contained by perimeter erosion control devices such as silt fence, temporary sediment ditches, basins, etc. Matting should be secured in place with staples, stakes, or wherever possible, live stakes of native trees. Erosion control matting placed in riparian areas shall not contain a nylon mesh grid, which can impinge and entrap small animals. For the establishment of temporary groundcover within riparian areas, hydroseeding along with wood or cellulose based hydro mulch applied from a fertilizer- and limestone-free tank is allowable at the appropriate rate in conjunction with the erosion control measures. Discharging hydroseed mixtures and wood or cellulose mulch into surface waters is prohibited. Riparian areas are defined as a distance 25 feet landward from top of stream bank. [15A NCAC 02B.0224 & 0225]
12. 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.





13. 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]
14. 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)]
15. 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)]
16. 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)]
17. 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)]
18. 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)]
19. 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)]
20. 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)]
21. 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)]
22. 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)]
23. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
24. 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]
25. 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)]
26. 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]
27. 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.





28. 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)]

29. 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]

30. 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)]

31. 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)]

32. 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]

33. 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.

34. Sediment and erosion control measures shall not be placed in wetlands or surface waters, or within 5 feet of the top of bank, without prior approval from DWR. [15A NCAC 02H.0506(b)(3) and (c)(3)]

35. 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]

36. 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*. 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. 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. If the project occurs in waters or watersheds classified as Trout (Tr) then the sedimentation and erosion control designs shall comply with the requirements set forth in 15A NCAC 04B .0124, *Design Standards in Sensitive Watersheds*. [15A NCAC 02H.0506(b)(3) and (c)(3)]

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 27th day of May 2025

DIVISION OF WATER RESOURCES

Signed by:  
  
375CAE2BB9F540C...

Richard E. Rogers, Jr, Director

WQC No. 7914i



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1650 Mail Service Center | Raleigh, North Carolina 27699-1650  
919.707.9000

# Permitted Drawings



North Carolina Department of Transportation  
Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN



(Version 3.02; Released April 23, 2024)

WBS Element: N/A      TIP/Proj No: DF1831.2059011.PR      County(ies): McDowell      Page 1 of 2

General Project Information

WBS Element:	N/A	TIP Number:	DF1831.2059011.PR	Project Type:	Bridge Replacement	Date:	3/19/2025
NCDOT Contact:	Yates Allen (Division Environmental Officer)			Contractor / Designer:	TGS Engineers (David B. Petty, PE)		
	Address:	NCDOT Highway Division 13 55 Orange Street Asheville NC, 28801			Address:	706 Hillsborough Street Suite 200 Raleigh NC, 27603	
	Phone:	828-250-3002			Phone:	919-773-8887 ext. 104	
	Email:	yallen@ncdot.gov			Email:	dpetty@tgsengineers.com	
City/Town:	Marion			County(ies):	McDowell		
River Basin(s):	Catawba			CAMA County?	No		
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	0.09 miles	Surrounding Land Use:	Rural: wooded, low-density residential, manufacturing plant					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	0.8	ac.	0.7	ac.				
Typical Cross Section Description:	Three 12' paved lanes with 3'-7' paved shoulders.			Three 12' paved lane w/ 0-3' shoulders.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	390	Year:	2050	Existing:	300	Year:	2024

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

NCDOT Project DF18313.2059011.PR involves the emergency replacement of Structure #580111 over North Fork Catawba River on SR-1573 (Pitts Station Rd) in McDowell County, NC north of Marion. The bridge was heavily damaged (westbound lane collapsed) during Hurricane Helene in September 2024. Proposed 2-span (1@70', 1@65'), OAL=135 ft, 51 ft wide, 24" Cored Slab bridge to replace pre-existing 121 ft long by 40 ft wide (prestressed concrete cored slab units) 3-span bridge.

The proposed grade will be from 0.5'-1' above existing grade within the vicinity of the bridge and roughly match existing grade approximately 50 ft west and 300 ft east of the bridge.

The existing bridge has openings in the bridge rail/wheel guard that allow for runoff to discharge directly into North Fork Catawba River. The proposed bridge will have no direct discharge into the river. Stormwater runoff from the bridge will flow to rip rap pads directly outside of the shoulders in the northeast and southeast quadrants, where flow will be diffused. All proposed stormwater runoff is discharged as far away from the stream and at the lowest velocities practicable.

A temporary workpad (causeway) will be used to remove an existing interior bent as well as construct the proposed bent. The causeway will have 1.5:1 side slopes to minimize its size and will only extend approximately two feet above the normal water surface elevation to further minimize the effect on river hydraulics.

The existing temporary bridge upstream of the proposed bridge is to be removed and returned to natural conditions.

All impacts to the project have been minimized to the maximum extent practicable.

<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Highway Stormwater</div><div>PROGRAM</div></div></div><div><div>North Carolina Department of Transportation</div><div>Highway Stormwater Program</div><div>STORMWATER MANAGEMENT PLAN</div><div>FOR NCDOT PROJECTS</div></div><div><div>STATE OF NORTH CAROLINA</div><div>DEPARTMENT OF TRANSPORTATION</div></div></div>									
(Version 3.02; Released April 23, 2024)									
WBS Element: N/A		TIP/Proj No.: DF1831.2059011.PR		County(ies): Mcdowell		Page 2 of 2			
General Project Information									
Waterbody Information									
Surface Water Body (1):		North Fork Catawba River		NCDWR Stream Index No.:		11-24-(2.5)			
NCDWR Surface Water Classification for Water Body		Primary Classification:		Class B					
		Supplemental Classification:		Trout Waters (Tr)					
Other Stream Classification:		None							
Impairments:		None							
Aquatic T&E Species?		No		Comments:					
NRTR Stream ID:		North Fork Catawba River				Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		Yes		Deck Drains Discharge Over Buffer?		N/A		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
(If yes, provide justification in the General Project Narrative)									
Surface Water Body (2):									
Surface Water Body (2):				NCDWR Stream Index No.:					
NCDWR Surface Water Classification for Water Body		Primary Classification:							
		Supplemental Classification:							
Other Stream Classification:									
Impairments:									
Aquatic T&E Species?				Comments:					
NRTR Stream ID:						Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?				Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
(If yes, provide justification in the General Project Narrative)									
Surface Water Body (3):									
Surface Water Body (3):				NCDWR Stream Index No.:					
NCDWR Surface Water Classification for Water Body		Primary Classification:							
		Supplemental Classification:							
Other Stream Classification:									
Impairments:									
Aquatic T&E Species?				Comments:					
NRTR Stream ID:						Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?				Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
(If yes, provide justification in the General Project Narrative)									

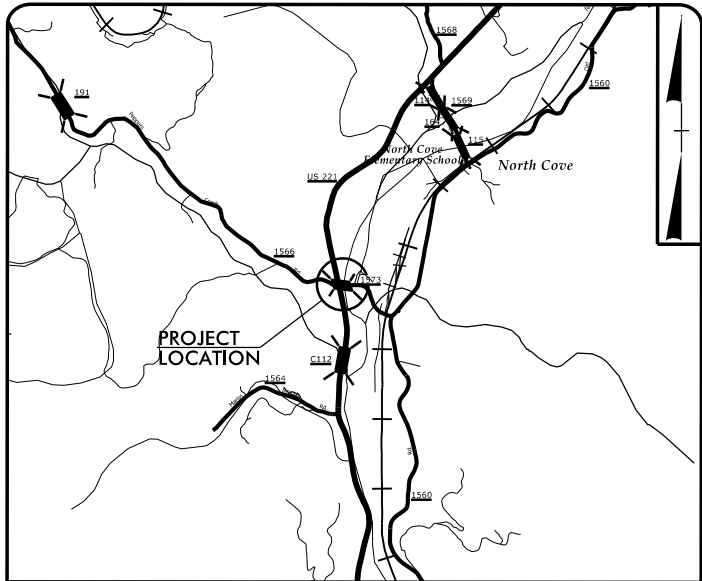


3/19/2025  
X:\NCDOT\EDB\_Div 13 Group\1580\Hydraulics\PERMITS\_Environmental\Drawings\580\11\_Rdy\_tsh.dgn  
User:zrichard

PROJECT: DF18313.2059011.PR

CONTRACT: C205019

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

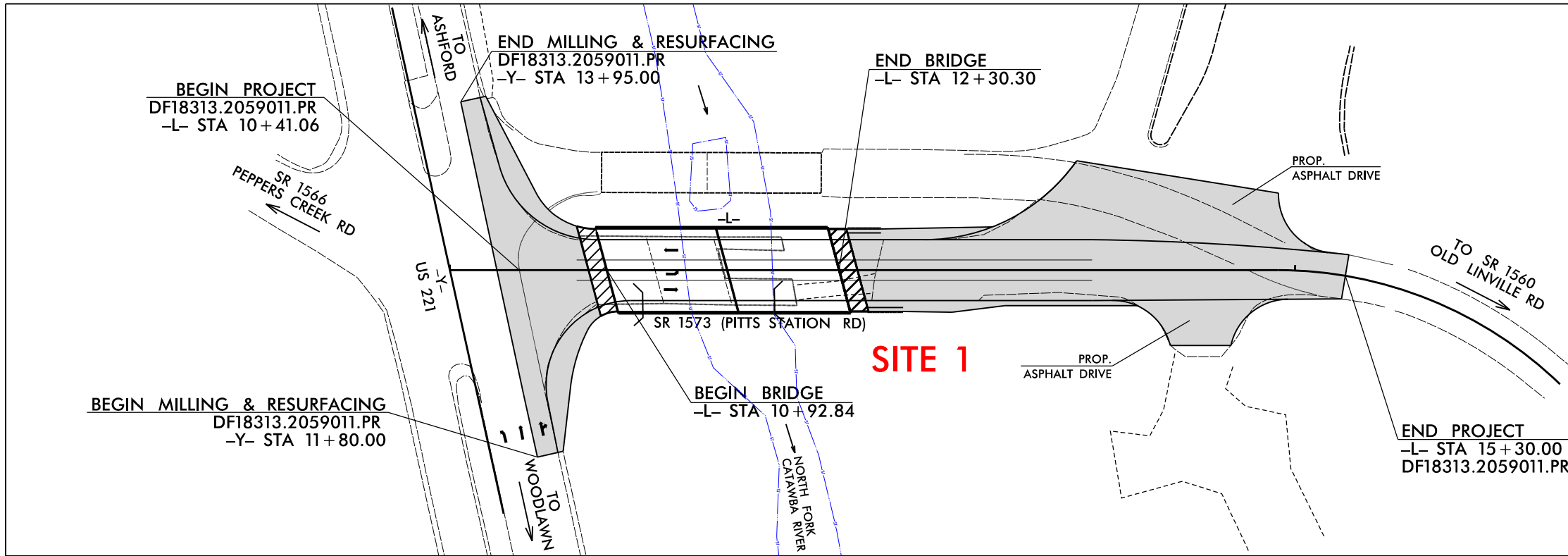
MCDOWELL COUNTY

LOCATION: REPLACEMENT OF STRUCTURE #580111  
ON SR 1573 (PITTS STATION RD) OVER  
NORTH FORK CATAWBA RIVER

TYPE OF WORK: GRADING, DRAINAGE  
PAVING, & STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT

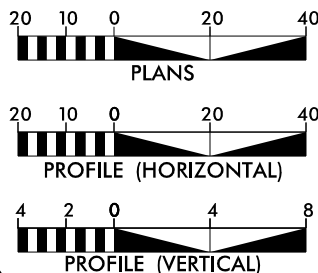
PERMIT DRAWING  
SHEET 1 OF 5



THIS IS NOT A CONTROLLED ACCESS PROJECT.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY MODIFIED METHOD II.  
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

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

GRAPHIC SCALES



DESIGN DATA

ADT 2024 = 300  
ADT 2050 = 390  
V = 40 MPH  
TTST = 3% DUAL = 3%  
FUNC CLASS = LOCAL  
SUBREGIONAL TIER

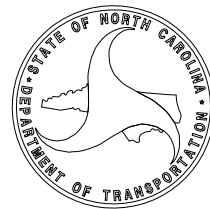
PROJECT LENGTH

LENGTH OF ROADWAY PROJECT DF18313.2059011.PR = 0.067 MILES  
LENGTH OF STRUCTURE PROJECT DF18313.2059011.PR = 0.026 MILES  
TOTAL LENGTH OF PROJECT DF18313.2059011.PR = 0.093 MILES

PLANS PREPARED BY:  
TGS ENGINEERS  
201 W. MARION ST  
SHELBY, NC 28150  
PH (704) 476-0003  
CORP. LICENSE NO. C-0275  
BURNS  
R.E. BURNS & SONS CO  
P.O. BOX 1168  
STATESVILLE, NC 28687  
PH (704) 924-8668  
2024 STANDARD SPECIFICATIONS  
RIGHT OF WAY DATE:  
DEC. 17, 2024  
LETTING DATE:  
DEC. 17, 2024

PLANS PREPARED FOR:  
NCDOT  
ALTERNATIVE DELIVERY UNIT  
1000 Birch Ridge Dr.  
Raleigh, NC 27610  
JIMMY L. TERRY, PE  
PROJECT ENGINEER  
AUSTIN R. TURNER, PE  
PROJECT DESIGN ENGINEER  
BYRON T. KYLE  
NCDOT CONTACT

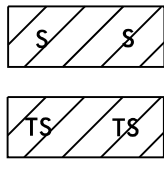
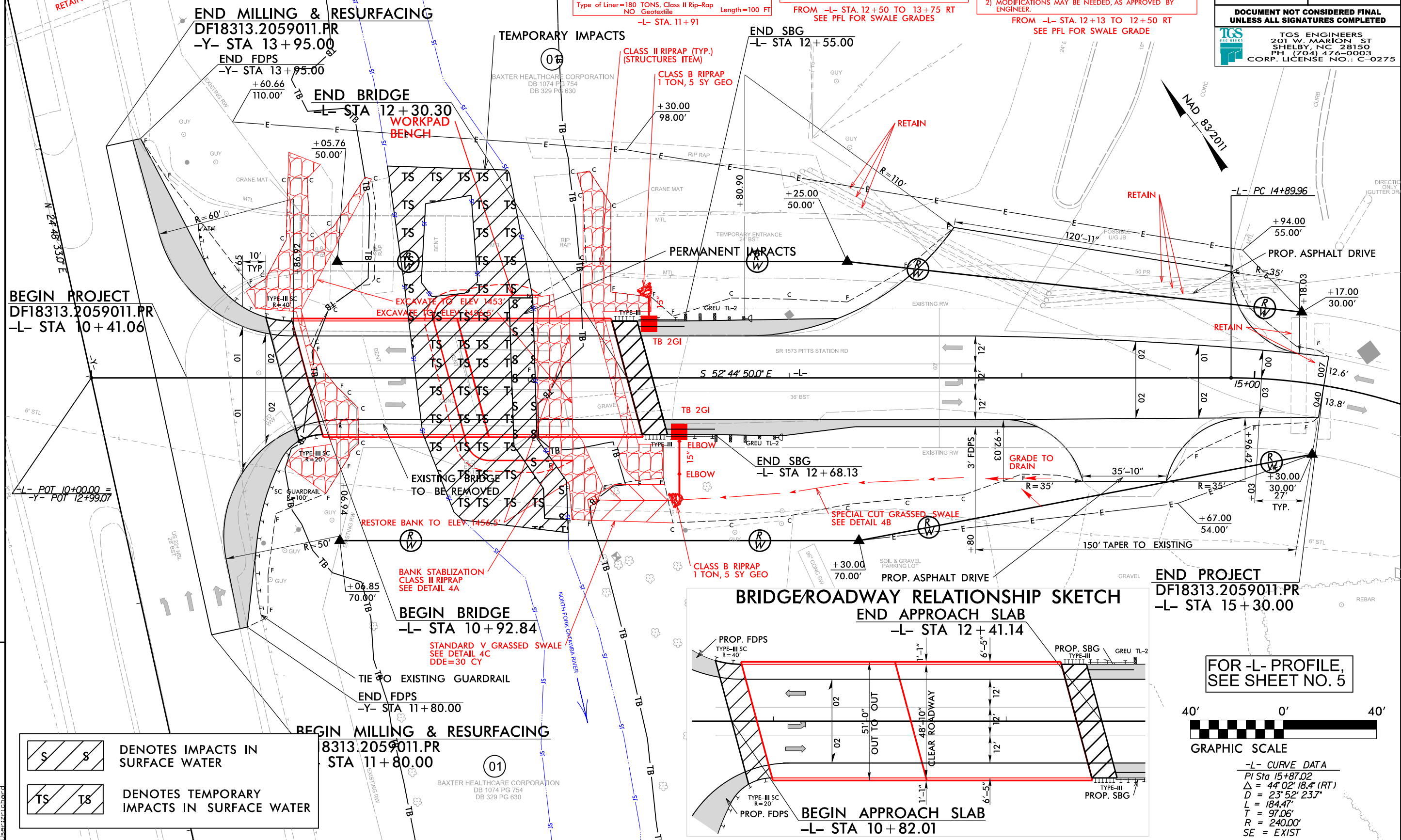
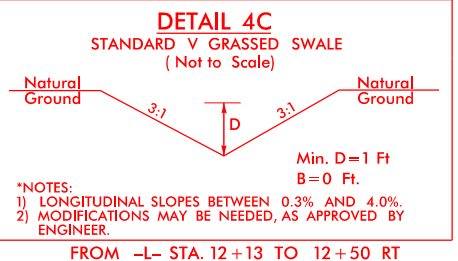
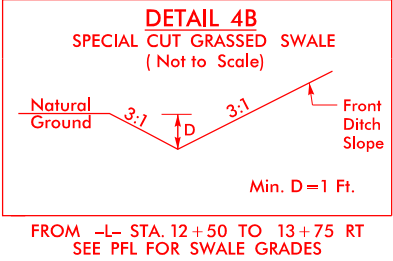
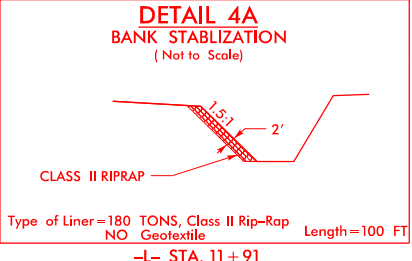
HYDRAULICS ENGINEER  
SIGNATURE: \_\_\_\_\_ P.E.  
ROADWAY DESIGN  
ENGINEER  
SIGNATURE: \_\_\_\_\_ P.E.



PERMIT DRAWING  
SHEET 2 OF 5

MCDOWELL COUNTY  
BRIDGE #580111

PROJECT REFERENCE NO. DF18313.2059011.PR	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



**S** DENOTES IMPACTS IN  
SURFACE WATER

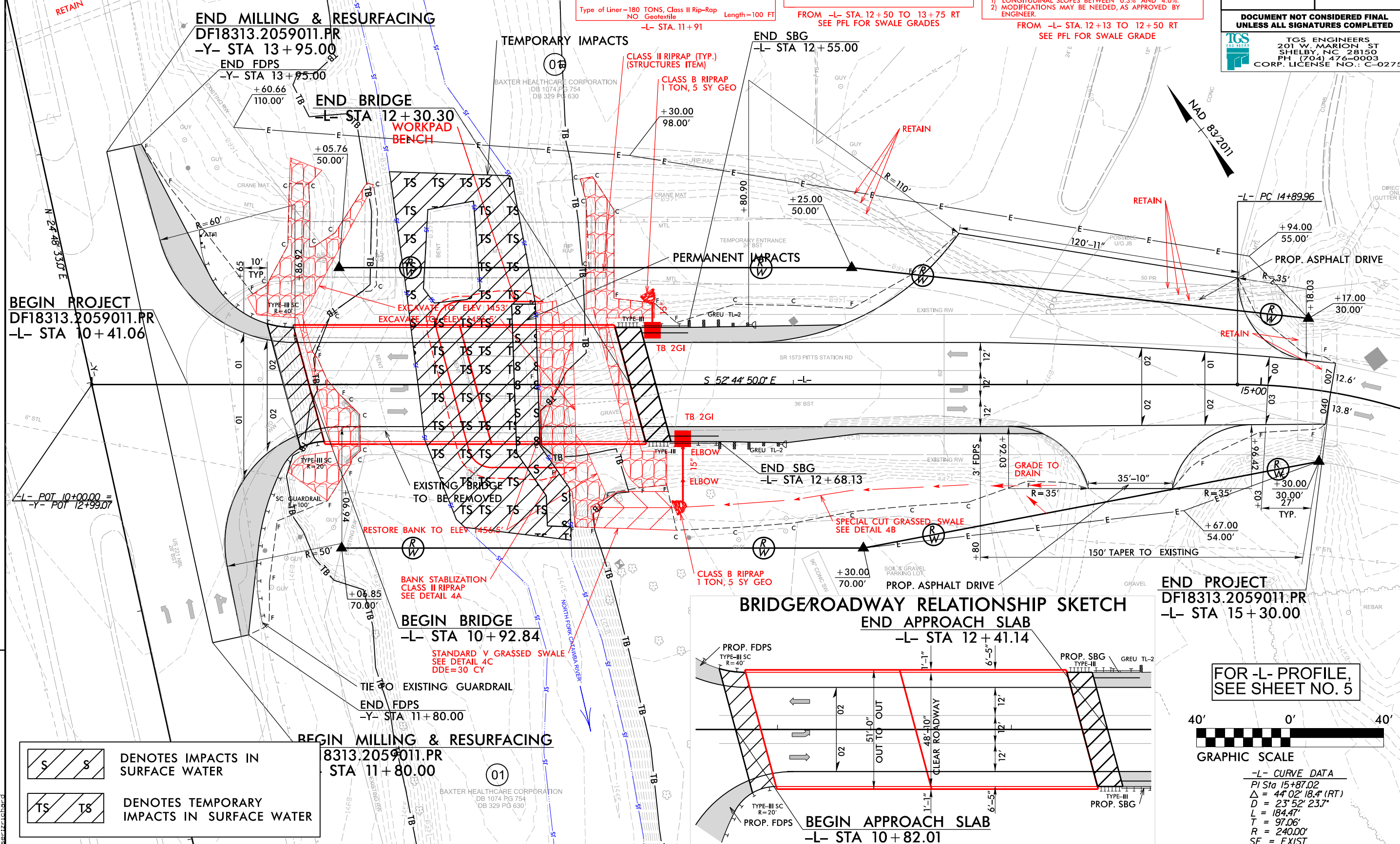
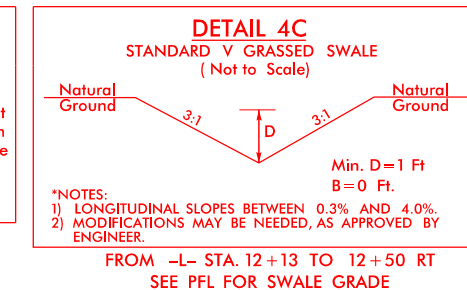
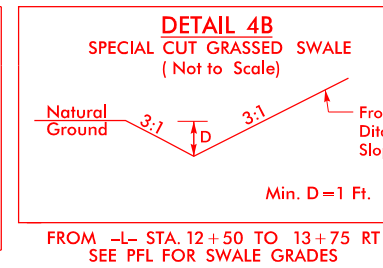
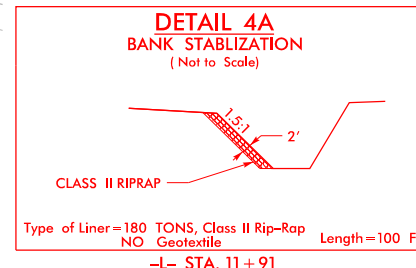
**TS** DENOTES TEMPORARY  
IMPACTS IN SURFACE WATER



PERMIT DRAWING  
SHEET 3 OF 5

MCDOWELL COUNTY  
BRIDGE #580111

PROJECT REFERENCE NO. DF18313.2059011.PR	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER



5/14/99

PERMIT DRAWING  
SHEET 4 OF 5

BRIDGE HYDRAULIC DATA  
BRIDGE #580III

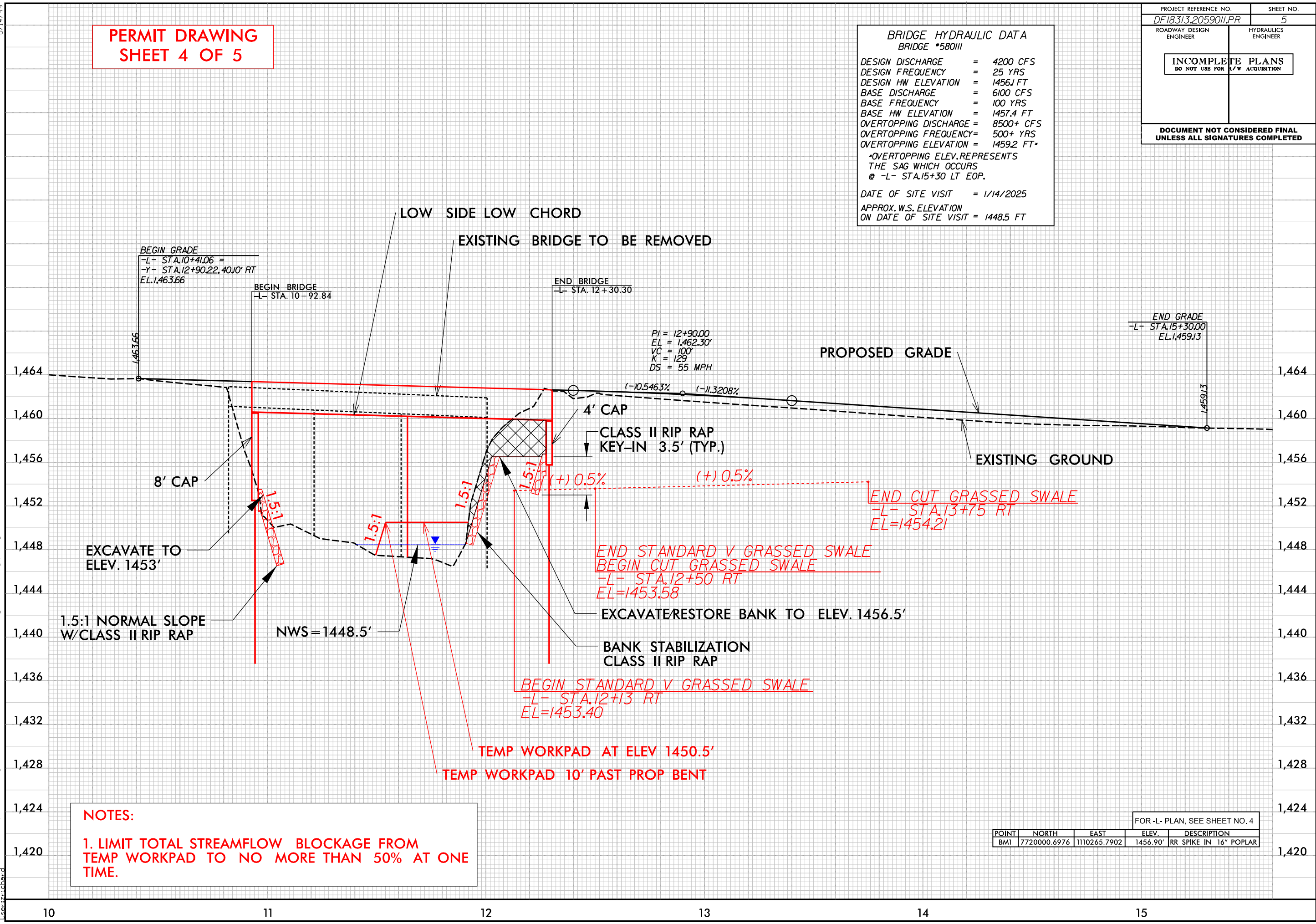
DESIGN DISCHARGE = 4200 CFS  
DESIGN FREQUENCY = 25 YRS  
DESIGN HW ELEVATION = 1456J FT  
BASE DISCHARGE = 6100 CFS  
BASE FREQUENCY = 100 YRS  
BASE HW ELEVATION = 1457.4 FT  
OVERTOPPING DISCHARGE = 8500+ CFS  
OVERTOPPING FREQUENCY = 500+ YRS  
OVERTOPPING ELEVATION = 1459.2 FT\*

\*OVERTOPPING ELEV. REPRESENTS  
THE SAG WHICH OCCURS  
@ -L- STA.15+30 LT EOP.

DATE OF SITE VISIT = 1/14/2025  
APPROX. W.S. ELEVATION  
ON DATE OF SITE VISIT = 1448.5 FT

PROJECT REFERENCE NO.	SHEET NO.
DF18313.20590II.PR	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

3/19/2025  
X:\N\2025\EDB Div 13 Group 1\580III\Hydraulics\PERMITS\Environmental\Drawings\580III\_Rdy.pfl.dgn  
User: jchad



NOTES:  
1. LIMIT TOTAL STREAMFLOW BLOCKAGE FROM  
TEMP WORKPAD TO NO MORE THAN 50% AT ONE  
TIME.

FOR -L- PLAN, SEE SHEET NO. 4				
POINT	NORTH	EAST	ELEV.	DESCRIPTION
BM1	7720000.6976	1110265.7902	1456.90'	RR SPIKE IN 16" POPLAR

WETLAND AND SURACE WATER IMPACTS SUMMARY													
Site No.	Station (From/To)	Structure Size / Type	Stream Name	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- 11+27 to 12+05 LT & RT	Bank Stabilization/Temp Workpads/Temp Dewatering	North Fork Catawba River						0.023	0.140	99	62	
TOTALS*:				0.000	0.000	0.000	0.000	0.000	0.023	0.140	99	62	0

NOTES:

1. No wetlands were identified within the study area.
2. Estimate two trees greater than 3" DBH to be cleared.

1. No wetlands were identified within the study area.
2. Estimate two trees greater than 3" DBH to be cleared.

SHEET 5 OF 5