Cheely, Erin K

From: Cheely, Erin K

Sent: Thursday, October 5, 2023 4:27 PM **To:** Moneyham, Nathaniel S; Allen, Yates

Cc: Davenport, Ronald E; Al-Dhalimy, Nadia; Gracey, John S.; Schoonmaker, Carla M; Kennedy, Durwood

R; Al-Ghandour, Majed N; Staley, Mark K; White, Tatia L; Stutts, David S; Lee, Claudia W; Clough,

Karina A; Griffin, Randy W; Anderson, Brook E; Sealy, Stephen G; Cheely, Erin K;

NCDOT_Service_Account_ECAP

Subject: BR-0100 | Rutherford | Permit Package Distribution

All environmental permits have been received for BR-0100, the Replacement of Bridge 40 on NC 226 over North Fork First Broad Creek in Rutherford County.

The permit package has been posted on the NCDOT website at: https://xfer.services.ncdot.gov/pdea/PermIssued/ or Direct Link.

Thank you, erin

Erin Cheely

Western Team Lead Environmental Coordination & Permitting Environmental Analysis Unit N.C. Department of Transportation

919 707 6108 office 919 323 5192 mobile ekcheely@ncdot.gov

1598 Mail Service Center Raleigh, NC 27699-1598



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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

October 5, 2023

MEMORANDUM TO: Division Environmental and Construction Units

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

SUBJECT: Environmental Permits for the Replacement of Bridge 40 on NC 226 over

North Fork First Broad Creek in Rutherford County, Division 13, TIP:

BR-0100.

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	Regional General Permit 50	May 25, 2025		
NC Division of Water Resources Section 401 Water Quality Certification	General Certification No. 4135 [RGP50]	May 25, 2025		

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.

Telephone: (919) 707-6000

Customer Service: 1-877-368-4968

Website: www.ncdot.gov

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

T.I.P Project No. BR-0100 Replacement of Bridge No. 40 on NC 226 over North Fork First Broad Creek Rutherford County WBS Element 67100.1.1

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

NCDOT Division 13

Prior to construction, Division 13 will determine whether a pre-demolition survey is needed for protected bat species and determine appropriate mitigation measures for the Northern Long-eared bat and Indiana bat, including a potential tree clearing moratorium between April 1 and October 15.

Conservation measures for bridge inspection and tree clearing included in special conditions for permitting as a result of informal concurrence from USFWS.

Division 13 will coordinate with the Cherry Mountain Volunteer Fire Department – Golden Valley Station to communicate the construction schedule and potential disruptions to access.

COMMITMENTS FROM PERMITTING

NCDOT Division 13 Construction

<u>404 Special Condition #2</u>: NCDOT shall adhere to the following ESA/Section 7 commitments/conservation measures:

- a. Tree clearing will not occur from April 1st October 15th.
- b. NCDOT will inspect the existing bridge for bats or signs of bat use within 14 days of demolition. If bats or signs of bats are observed, NCDOT will immediately notify the USACE and the U.S. Fish and Wildlife Service (Service).
- c. If night work occurs, all construction-related lighting will be limited to whatever is necessary to maintain safety in active work areas closest to the water. Lighting will only be used in areas where active construction is occurring and will not be projected into adjacent wooded areas or over the water surface.
- d. No additional permanent lighting will be added to the roadway.
- e. No blasting will occur.

401 Special Condition #2: Provide advanced notice of construction to Dave McHenry with the North Carolina Wildlife Resources Commission so that he may advise the site contractor about ways to minimize potential impacts to the Broad River spiny crayfish (NC Threatened). [15A NCAC 02H. .0506(b)(1) and (2)]

NCDOT Division 13 Construction, Roadside Environmental Unit

<u>401 Special Condition #4:</u> The permittee shall use Design Standards in Sensitive Watersheds (15A NCAC 4B.0124[a]-[e]) in areas draining to Outstanding Resource Waters. However, due to the size of the project, the NCDOT shall not be required to meet 15A NCAC 4B .0124(a) regarding the maximum amount of uncovered acres.

U.S. ARMY CORPS OF ENGINEERS

WILMINGTON DISTRICT

Action ID.: SAW-2023- 01104 BR-0100 County: Rutherford

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Property Owner / Authorized Agent:

North Carolina Department of Transportation

Attn: Mr. Michael A. Turchy

Environmental Coordination and Permitting Group Leader

Address: 1598 Mail Service Center

Raleigh, North Carolina 27699-1598

919-707-6157

Size and location of property (water body, road name/number, town, etc.): <u>The project is located at Bridge No. 40 on NC 226 over the North Fork First Broad River in Rutherford County, North Carolina.</u>

Description of project area and activity: <u>In order to replace the bridge, the permittee is authorized to impact waters of the U.S. as follows:</u>

Summary of Authorized Impacts and Required Mitigation

Summary of Authorized impacts and Required wittigation											
Impact ID #	NWP /	Open W	ater (ac)	Wetlar	nd (ac)	Stream (lf)					
'	GP#	Temporary	Permanent	Temporary	Permanent	Temporary	Permanent				
Site 1 (North Fork First Broad River)	RGP 50					17' (bank stabilization)	51' (bank stabilization)				
Site 2 (North Fork First Broad River)	RGP 50					10' (bank stabilization)	14' (bank stabilization)				
Site 3 (North Fork First Broad River)	RGP 50					10' (bank stabilization)	19' (bank stabilization)				
Site 5 (North Fork First Broad River)	RGP 50					10' (bank stabilization)	12' (bank stabilization)				
Site 6 (North Fork First Broad River)	RGP 50					33' (bank stabilization)					
Site 7 (North Fork First Broad River)	RGP 50					21' (bank stabilization)					
Impact Totals 0			0	0	0	101'	96'				
Total Loss of waters of the U.S. (wetlands and/or open waters in ac)			0	Total Loss of waters of the U.S. (streams in If)			0				
Required We	etland Mitig	gation (ac)	0	Require	0						

Applicable Law:	Section 404 (Clean Water Act, 33 USC 1344)
	Section 10 (Rivers and Harbors Act, 33 USC 403)
Authorization:	Regional General Permit Number: RGP 50
	Nationwide Permit Number:

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions, your submitted application, and the following special conditions:

Special Conditions

- 1. All work must be performed in strict compliance with (a) the description of work in the PCN and (b) the Wetland and Surface Water Impact(s) Permit Drawing(s) (Permit Plans) in the application dated May 26, 2023. Any modification to the description of work and/or the permit plans must be approved by the USACE prior to implementation.
- 2. NCDOT shall adhere to the following ESA/Section 7 commitments/conservation measures:
 - a. Tree clearing will not occur from April 1st October 15th.
 - b. NCDOT will inspect the existing bridge for bats or signs of bat use within 14 days of demolition. If bats or signs of bats are observed, NCDOT will immediately notify the USACE and the U.S. Fish and Wildlife Service (Service).
 - c. If night work occurs, all construction-related lighting will be limited to whatever is necessary to maintain safety in active work areas closest to the water. Lighting will only be used in areas where active construction is occurring and will not be projected into adjacent wooded areas or over the water surface.
 - d. No additional permanent lighting will be added to the roadway.
 - e. No blasting will occur.
- 3. 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.

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 and/or regional general 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 and/or regional general 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 828-296-4500) to determine Section 401 requirements.

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 U.S. Army Corps of Engineers regulatory program, please contact Lori Beckwith at loretta.a.beckwith@usace.army.mil or 828-230-0483.

USACE Regulatory Official: Monte Matthews

Morte 14:26:50 -04'00'

Date: **September 28, 2023**

Expiration Date of Verification: May 25, 2025

Copy furnished:

NCDOT, Ms. Erin Cheely

Action ID Number: <u>SAW-2023-01104</u> <u>BR-0100</u>

County: Rutherford

Permittee: NCDOT, Mr. Michael A. Turchy

Environmental Coordination and Permitting Group Leader

Project Name: NCDOT / Bridge No. 40 / BR-0100 / NC 226 / Div 13

Regional General Permit: RGP 50

Date Verification Issued: <u>September 28, 2023</u>

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

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 U.S. Army Corps of Engineers 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	

ROY COOPER Governor ELIZABETH S. BISER Secretary RICHARD E. ROGERS, JR. Director



June 8, 2023

DWR # 20230750 Rutherford County

Ms. Erin Cheely NC Department of Transportation 1598 Mail Service Center Raleigh, NC 27699-1598

Subject: APPROVAL OF 401 WATER QUALITY CERTIFICATION WITH ADDITIONAL

CONDITIONS

Replace Bridge 40 on NC 226 (BR-0100)

North Fork First Broad Creek [Broad River Basin, 03050105, C;Tr,ORW]

Dear Ms. Cheely:

You have our approval for the impacts listed below for the purpose described in your application dated May 26, 2023, and received by the Division of Water Resources (Division) on May 26, 2023. These impacts are covered by the attached Water Quality General Certification Number 4135 and the conditions listed below. This certification is associated with the use of General Permit Number 201902350 once it is issued to you by the U.S. Army Corps of Engineers. Please note that you should get any other federal, state, or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

The Division has determined that the proposed project will comply with water quality requirements provided that you adhere to the conditions listed in the enclosed certification and to the additional conditions itemized below.

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

Stream Impacts in the Broad River Basin

Site	Permanent Fill in Intermittent Stream (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)
S1			51	17	68	
S2			14	10	24	
S3			19	10	29	
S4			12	10	22	
S5			0	33	33	
S6			0	21	21	
TOTAL			96	101	197	0

Total Stream Impact for Project: 96 linear feet of permanent and 101 linear feet of temporary.



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 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)].

If you are unable to comply with any of the conditions of the attached Water Quality General Certification or with the additional conditions itemized below, you must notify the Asheville Regional Office within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

The permittee shall report to the Asheville Regional Office any noncompliance with, and/or any violation of, stream or wetland standards [15A NCAC 02B .0200] including but not limited to sediment impacts to streams or wetlands. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the permittee became aware of the non-compliance circumstances.

Condition(s) of Certification:

Project Specific Conditions

- 1. The NCDOT Division Environmental Officer or Environmental Assistant will conduct a preconstruction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand potential issues at the permitted site. NCDWR staff shall be invited to the pre-construction meeting. [15A NCAC 02H.0506(b)(2) and (b)(3)]
- 2. Provide advanced notice of construction to Dave McHenry with the North Carolina Wildlife Resources Commission so that he may advise the site contractor about ways to minimize possible impacts to the Broad River spiny crayfish (NC Threatened). [15A NCAC 02H .0506(b)(1) and (2)]
- 3. For projects impacting waters classified by the NC Environmental Management Commission as Trout (Tr), High Quality Waters (HQW), or Water Supply I or II (WSI, WSII) stormwater shall be directed to vegetated buffer areas, grass-lined ditches or other means appropriate to the site for the purpose of pretreating storm water runoff prior to discharging directly into streams. Mowing of existing vegetated buffers is strongly discouraged.
- 4. The permittee shall use Design Standards in Sensitive Watersheds (15A NCAC 4B.0124[a]-[e]) in areas draining to Outstanding Resource Waters. However, due to the size of the project, the NCDOT shall not be required to meet 15A NCAC 4B .0124(a) regarding the maximum amount of uncovered acres.
- 5. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species. [15A NCAC 02H .0506(b)(2)]
- 6. As a condition of this 401 Water Quality Certification, the bridge demolition and construction must be accomplished in strict compliance with the most recent version of NCDOT's Best Management Practices for Construction and Maintenance Activities. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)]

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 hydro seeders 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 must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0506(b)(2)]
- 20. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities. [15A NCAC 02H.0506(b)(3) and (c)(3)]
- 21. Erosion 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)]

This approval and its conditions are final and binding unless contested. [G.S. 143-215.5] This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) within sixty (60) calendar days. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at http://www.ncoah.com/ or by calling the OAH Clerk's Office at (919) 431-3000.



One (1) copy of the Petition must also be served to the North Carolina Department of Environmental Quality:

William F. Lane, General Counsel Department of Environmental Quality 1601 Mail Service Center Raleigh, NC 27699-1601

This letter completes the review of the Division under section 401 of the Clean Water Act and 15A NCAC 02H .0500. Please contact Kevin Mitchell at 828-296-4650 or kevin.mitchell@deq.nc.gov if you have any questions or concerns.

Sincerely,

DocuSigned by:

Imy Chapman
Richard E. Rogers, offer Director
Division of Water Resources

ec: Lori Beckwith, US Army Corps of Engineers Asheville Regulatory Field Office (via email)
Michael Turchy, NC Department of Transportation (via email)
Dave McHenry, NC Wildlife Resources Commission (via email)
Holland Youngman, US Fish and Wildlife Service (via email)

File Copy



North Carolina Department of Transportation

Highway Stormwater Program STORMWATER MANAGEMENT PLAN



(Version 2.08; Released April 2018)

FOR NCDOT PROJECTS

(Version 2.08; Released A					OT PROJECTS						
WBS Element:	67100.1.1	TIP No.:	BR-0100		s): Rutherford				Page	1	of 1
				General Proje	ect Information						
WBS Element:		67100.1.1		TIP Number: BR-0100		Project	Туре:	Bridge Replacement		Date:	7/5/2022
NCDOT Contact:		David Stutts			Contractor / Design			/ Vidya Mohandas			
	Address:	1000 Birch Ridge	Drive			Address:	434 Fayett	eville Rd			
		Raleigh, NC 2761	10				Suite 1500				
							Raleigh, NC 27601				
	Phone:	919-707-6442				Phone:	984-269-46	668			
		dstutts@ncdot.go)V					andas@wsp.com			
City/Town:				stic	County(ies):	Ruthe					
River Basin(s):		Bro			CAMA County?	No					
Wetlands within Pro	iect Limits?	No						1			
	,000 <u> </u>			Project [escription						
Project Length (lin. r	miles or feet):	0.21	mi	Surrounding Land Use:	Residential, Agricu	ltural					
Project Length (iii. i	illies of feet).	0.21	11111	Proposed Project	recordential, righted	1		Existing S	2ito		
Project Puilt Une:- A	\roa (aa)		5.1	<u> </u>			1.5		one.		
Project Built-Upon A Typical Cross Section		-l - includes 2-12		ac. n 8' grass shoulders and 11' gra	ss shoulders where	-l - includes 2		ac. lanes with grass should	ders Along	the length	of the project all
ypical Gross occile	on Description.			gth of the project all ditch front				es varies from 2:1 to 4			
				paved shoulders with 4' grass							,
		shoulders where	guardrail is prese	ent.	•						
Annual Avg Daily Tra	affic (veh/hr/day):	Design/Future		2100 Y	ear: 2040	Existing:		2.100		Year	2017
General Project Nari				e replacement of Bridge No. 80				1	onsists of 3		
(Description of Minir		' '		. It is to be replaced by propose				0 0			
Quality Impacts)				ge will be skewed at a 110 deg							
, , , , , , ,		consists of 3 spar	ns, 1 @ 46'-3", 1	@ 50', 1 @ 46'-3" on a tempora	ary modular structure wi	th steel H-pile	piers.	3 ,	Ü		· ·
		The proposed bri	dge does not cor	ntain deck drains, storm water for	om the bridge is capture	ed in a closed	drainage sy	stem at 17+20 LT and	16+98 RT	along shoul	lder berm and
				p rap pad prior to entering Nort							
				+48 RT. From the beginning of							
				ring the stream. From the end of							
				s. Bank stabilization with class onger be utilized since the base			osea briagi	e due to existing piers	being remo	vea from tr	ie top of the bank
				Irains due to spread encroachin			ry base ditcl	hes on the left side will	l also he ins	stalled to co	nvev existing
				occurs. Where these base ditch							
				mplemented on on the project s							
		sediment traps, a	round existing in	let structures.	<u> </u>						•
	400			,	Information						
Surface Water Body	(1):		North Fork Fil	st Broad River	NCDWR Stream Ir				9-37		
NCDWR Surface Wa	ter Classification fo	r Water Body		Primary Classification:	Class						
		-		Supplemental Classification	: (ORW)	Trout	Waters (Tr)			
Other Stream Classi	fication:	No									
Impairments:		No									
Aquatic T&E Species	s?	No	Comments								
NRTR Stream ID:		N/A					Buffer Rul	les in Effect:			N/A
Project Includes Brid			Yes	Deck Drains Discharge Over		No	Dissipator Pads Provided in Buffer?				N/A
Deck Drains Dischar	rge Over Water Bod	y?	Yes	(If yes, provide justification	n in the General Project	Narrative)	(If yes, o	describe in the Genera			o, justify in the
	de justification in the		arrative)					General P	Project Narra	ative)	
				•							

PROJECT LOCATION

65% PLAN SUBMITTAL

CLEARING ON THIS PROJECT SHALL BE PERFORMED

TO THE LIMITS ESTABLISHED BY METHOD III .

VICINITY MAP

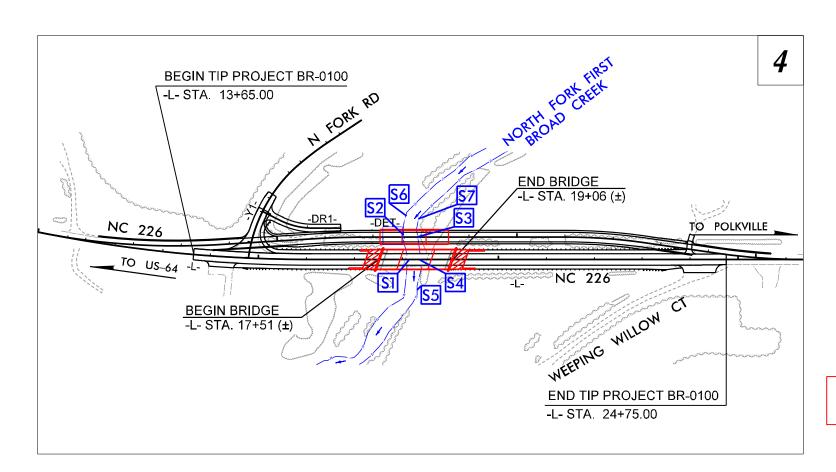
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

RUTHERFORD COUNTY

LOCATION: BRIDGE No. 40 ON NC 226 OVER NORTH FORK FIRST BROAD CREEK

TYPE OF WORK: GRADING, DRAINAGE, SIGNING, TRAFFIC CONTROL AND STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT 7-28-2022



STATE N.C. BR-0100 1 DESCRIPTION 67100.1.1 PE



PERMIT DRAWING SHEET 1 OF 8

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

GRAPHIC SCALES PROFILE (HORIZONTAL) PROFILE (VERTICAL)

DESIGN DATA ADT 2017 = 2,100 ADT 2040 = 2,100T = 12 % *

V = 60 MPH(TTST = 7% + DUAL = 5%)FUNC CLASS = RURAL, MAJOR COLLECTOR **REGIONAL TIER GUIDELINES**

PROJECT LENGTH

LENGTH ROADWAY PROJECT BR-0100 = 0.181 MILENGTH STRUCTURE PROJECT BR-0100 = 0.029 MITOTAL LENGTH PROJECT BR-0100 = 0.210 MI

RIGHT OF WAY DATE: **DECEMBER 20, 2022** LETTING DATE:

2018 STANDARD SPECIFICATIONS

DECEMBER 19, 2023 DAVID STUTTS, PE NCDOT CONTACT:

PREPARED IN THE OFFICE OF:

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

HOLLY CHRISTENBURY, PE

PROJECT ENGINEER

DYLAN O'NEAL

HYDRAULICS ENGINEER

SIGNATURE:

ROADWAY DESIGN **ENGINEER**

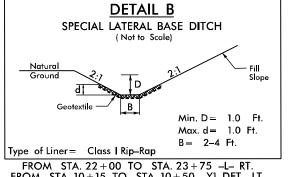
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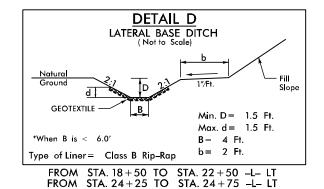


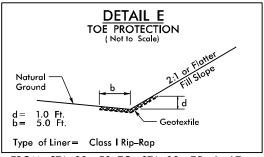
FROM STA. 13+75 TO STA. 14+40 -L- LT FROM STA. 12+75 TO STA. 14+25 -DET- LT

Min. D = 1.0 Ft.

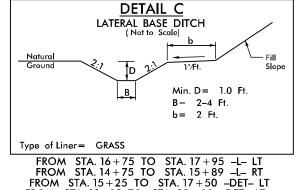


FROM STA. 22+00 TO STA. 23+75 –L– RT. FROM STA. 10+15 TO STA. 10+50 –Y1 DET– LT. FROM STA. 23+85 TO STA. 25+25 –DET– LT.

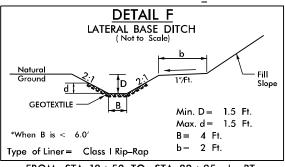




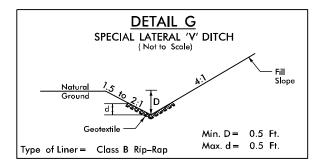
FROM STA. 22+50 TO STA. 23+75 -L- LT FROM STA. 15+89 TO STA. 16+55 -L- RT



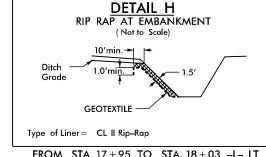
FROM STA. 14+75 TO STA. 15+89 –L– RT FROM STA. 15+25 TO STA. 17+50 –DET– LT FROM STA. 18+15 TO STA. 22+00 –DET– LT FROM STA. 15+60 TO STA. 17+75 –L PHASING– LT FROM STA. 18+89 TO STA. 22+44 –L_PHASING– LT



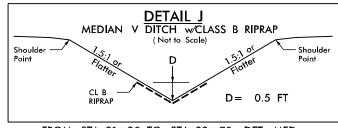
FROM STA. 18+50 TO STA. 22+95 _L_ RT FROM STA. 22+00 TO STA. 22+50 _DET_ LT FROM STA. 22+44 TO STA. 22+95 _L_PHASING_ LT



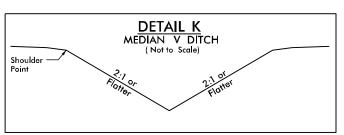
FROM STA. 10 + 25 TO STA. 11 + 25 -Y1- LT



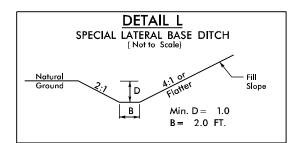
FROM STA. 17+95 TO STA. 18+03 -L- LT FROM STA. 18+32 TO STA. 18+45 -L- LT FROM STA. 18+30 TO STA. 18+50 -L- RT FROM STA. 17+56 TO STA. 17+64 -DET- LT FROM STA. 17+93 TO STA. 18+00 -DET- LT



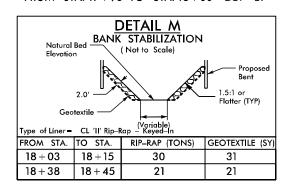
FROM STA. 21+25 TO STA. 22+75 -DET- MED FROM STA. 21+50 TO STA. 23+00 -L_PHASING- MED

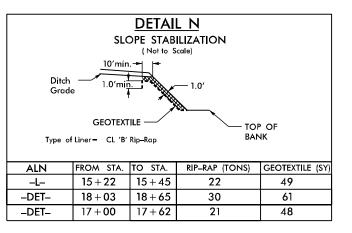


FROM STA. 15+25 TO STA. 17+00 -DET- MED FROM STA. 18+75 TO STA. 21+25 -DET- MED FROM STA. 15+50 TO STA. 17+50 -L_PHASING- MED FROM STA. 19+25 TO STA. 21+50 -L PHASING- MED



FROM STA. 15+50 TO STA. 16+75 -L- LT.





BR-0100 2D-1

ROADWAY DESIGN HYDRAULICS ENGINEER

INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION

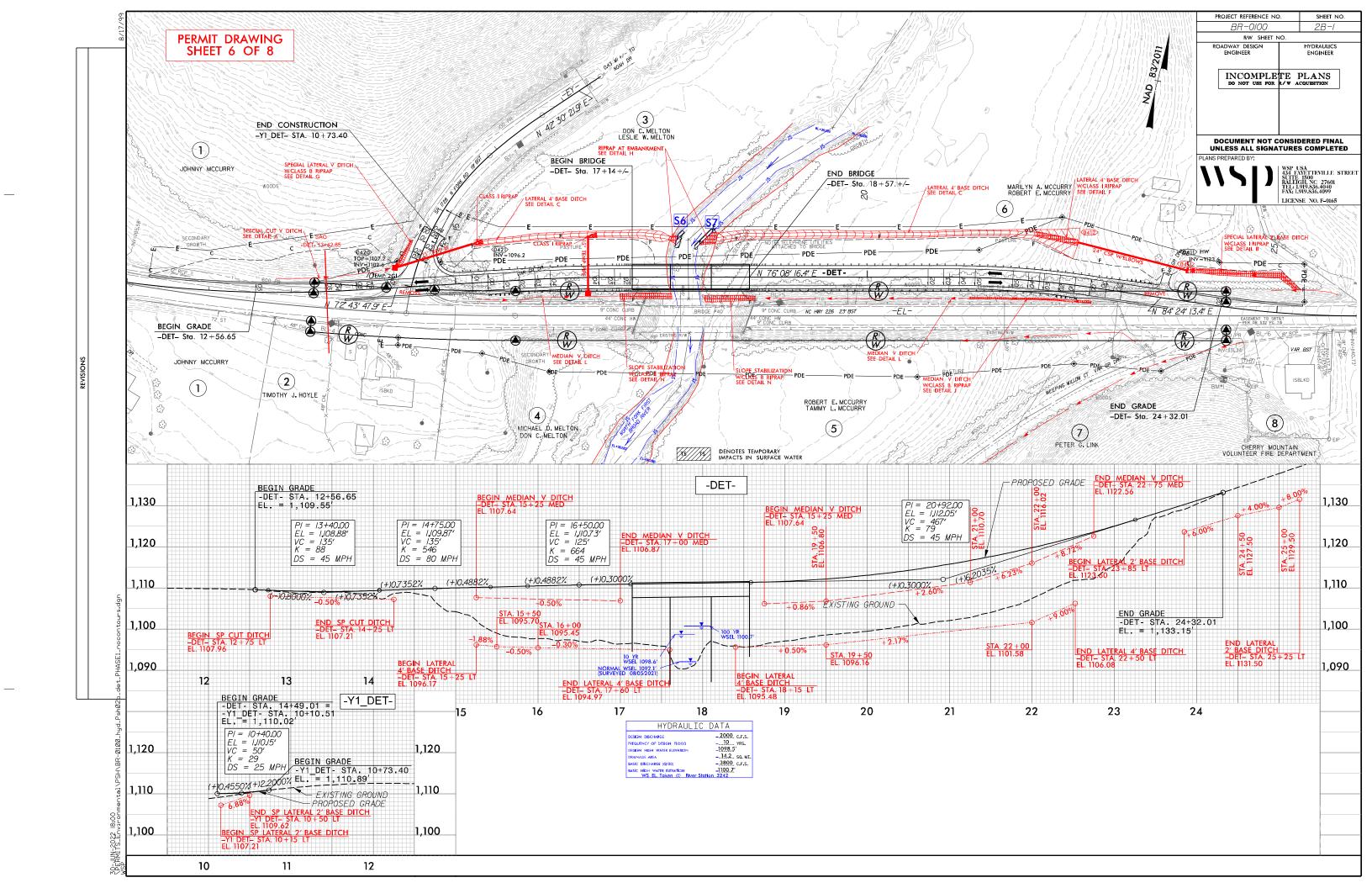
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

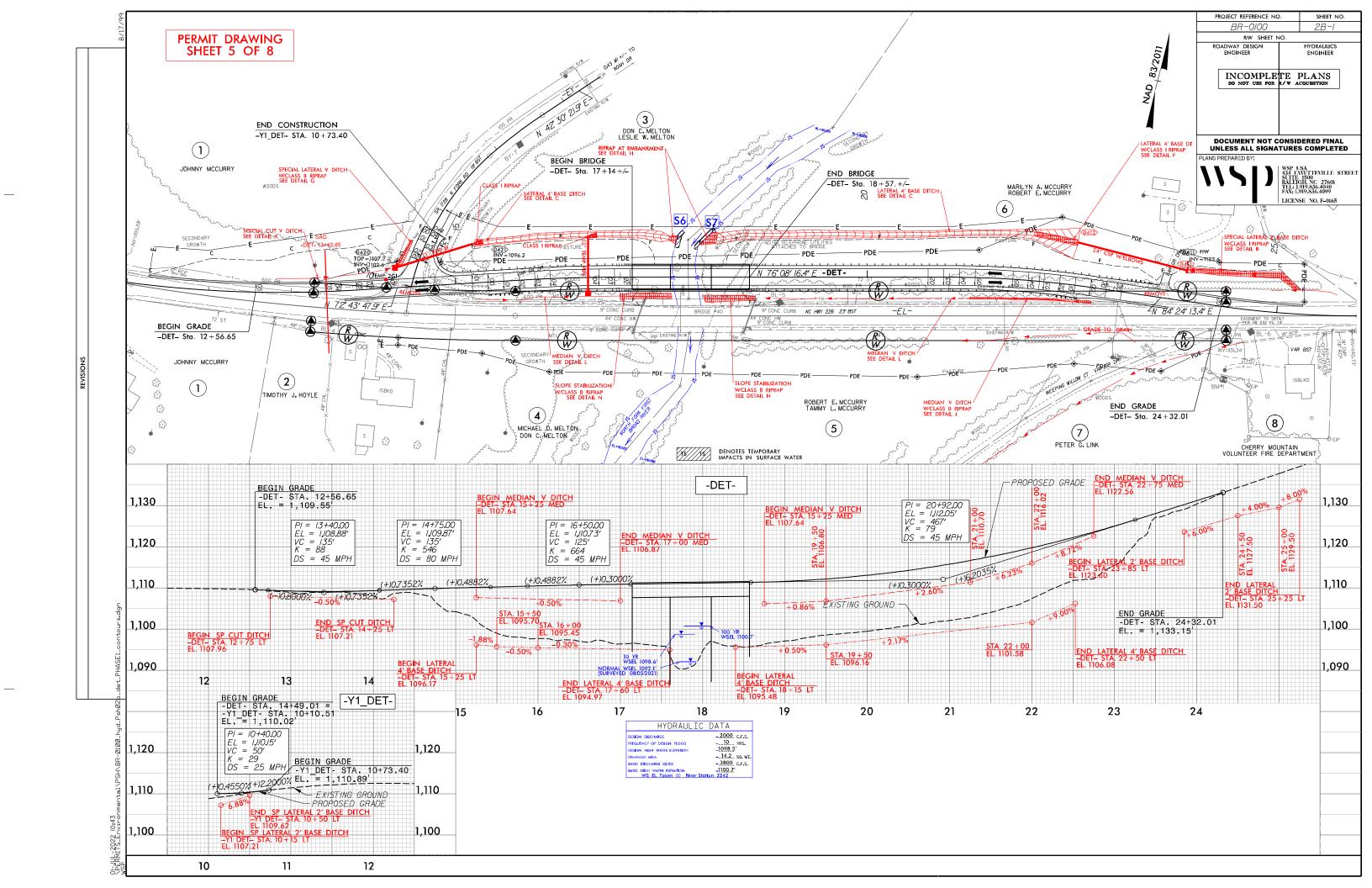
SHEET NO.

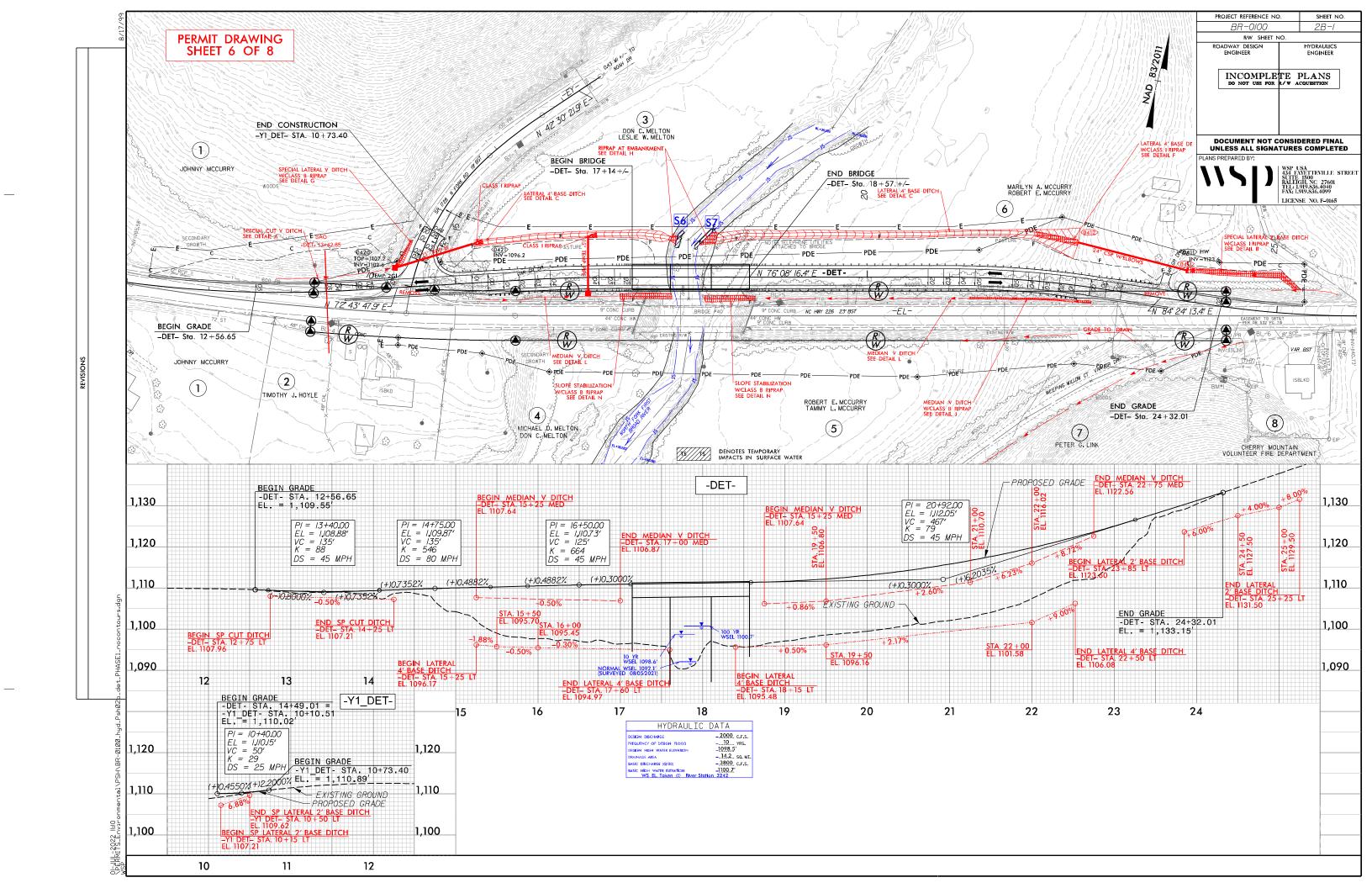
PROJECT REFERENCE NO.

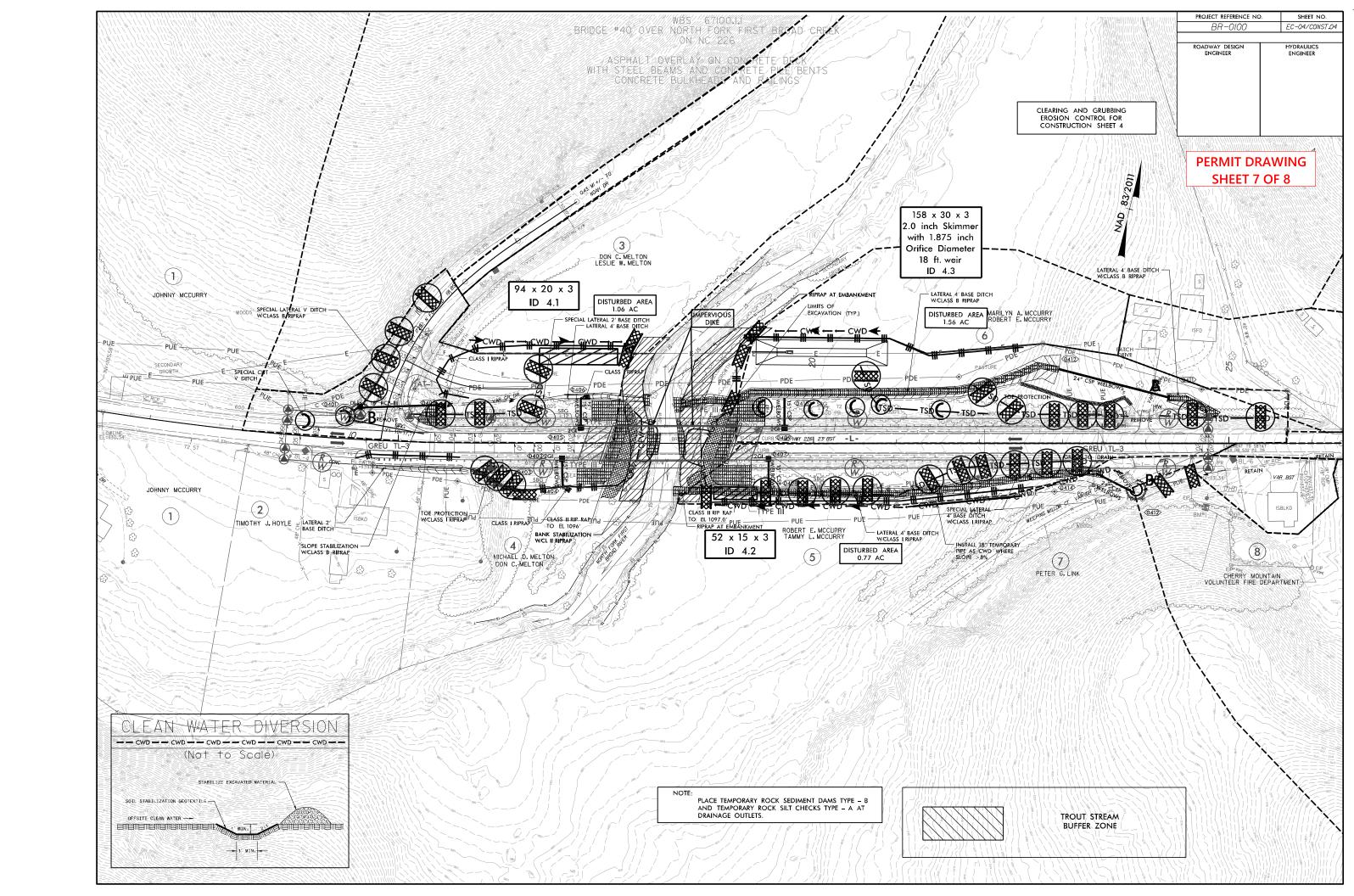
PERMIT DRAWING

SHEET 2 OF 8









			WETLAND IMPACTS SURFACE WATER IMP									
			Permanent	Temp.	Excavation	Mechanized	Hand Clearing	Permanent	Temp.	Existing Channel	Existing Channel	Natural
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent	Temp.	Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
S1	L 18+03 to 18+15	Bank Stabilization						< 0.01	< 0.01	51	17	
S2	L 17+95 to 18+03 LT	Riprap at Embankment						< 0.01	< 0.01	14	10	
S3	L 18+32 to 18+45 LT	Riprap at Embankment						< 0.01	< 0.01	19	10	
S4	L 18+38 to 18+45	Bank Stabilization						< 0.01	< 0.01	Note a	Note b	
S5	L 18+30 to 18+50 RT	Riprap at Embankment						< 0.01	< 0.01	12	10	
S6	DET 17+56 to 17+64 LT	Riprap at Embankment							< 0.01		33	
S7	DET 17+93 to 18+00 LT	Riprap at Embankment							< 0.01		21	
												<u> </u>
TOTAL	S*:							0.02	0.01	96	101	t

*Rounded totals are sum of actual impacts

NOTES:

a. Permanent impacts (LF) are accounted for in Site 1 impacts

b. Temporary impacts (LF) are accounted for in Site 1 impacts

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

July 5, 2022 Rutherford BR-0100

67100.1.1

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SHEET

OF

8

Revised 2018 Feb