

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOSH STEIN

GOVERNOR

DANIEL H. JOHNSON

SECRETARY

November 25, 2025

MEMORANDUM TO: Division Environmental and Construction Units

FROM: Michael A. Turchy, ECAP Group Leader

Environmental Analysis Unit

SUBJECT: Environmental Permits for the Improvements to the I-77 and NC 73

Interchange in Mecklenburg County, Division 10, TIP: I-5715.

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, 2030		
NC Division of Water Resources Section 401 Water Quality Certification	Individual Certification No. 008289	May 25, 2030		

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

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

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

Telephone: (919) 707-6000

Customer Service: 1-877-368-4968

Website: www.ncdot.gov



DEPARTMENT OF THE ARMY

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

November 18, 2025

Regulatory Program/Division SAW-2016-00458

Sent Via Email: wabarrett@ncdot.gov)

William Barrett, ECAP Environmental Coordinator NC Dept of Transportation, Environmental Analysis Unit North Carolina Department of Transportation 1598 Mail Service Center Raleigh, NC 27699-1598

Dear Mr. Barrett:

This letter is in response to the application you submitted to the Wilmington District, WRDA/Transportation Branch on September 17, 2025, for a Department of the Army general permit verification. This project has been assigned the file number SAW-2016-00458 and is known as I5715 Division 10 DOT reconfiguration of I77 and NC 73 Sam Furr Road. This file number should be referenced in all correspondence concerning this project.

A review of the information provided indicates that the proposed work would include the extension of an existing twin cell 10' x 8' RCBC under I-77/ramps by placing a 59 linear foot (If) long, twin cell 10" x8' RCBC extension at the inlet end, conducting 35 If of cut/fill with channel modifications, and utilizing 10 lf of temporary dewatering in Caldwell Station Creek. Also, extending the outlet of the existing twin cell 10' x 8' RCBC under I-77/ramps by placing a 49 linear foot (If) long, twin cell 12" x 8' RCBC extension at the outlet end, conducting 35 If of cut/fill with channel modifications, and utilizing 15 If of temporary dewatering in Caldwell Station Creek. This project will also include the permanent placement of 318 If of fill and 32 If of rock armor in a tributary to Caldwell Station Creek associated with ramp improvements. The project area for this determination includes approximately 27 acres area which is illustrated on the enclosed site plans/maps. The project/review area is located in/across Caldwell Station Creek and its tributaries; at the existing Interstate 77 (I-77) and NC 73 (Sam Furr Road) Interchange (I-77 Exit 25), includes existing ramps and includes a revised connection to Northcross drive and US 21 (Statesville Road), at Latitude 35. 442547 and Longitude -80. 869063; in Huntersville, Mecklenburg County, North Carolina.

We have determined that the proposed work is authorized by Regional General Permit 50 (RGP-50) 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 enclosed general permit conditions, any regional conditions, the special conditions listed in this letter, the application materials, and the enclosed plans plan Sheets 1-7 of 7, entitled, "TIP PROJECT: I-5715, I-77 FROM SOUTH OF SR 2140 (STUMPTOWN RD) TO NORTH OF NC 73 (SAM FURR RD)& SR 2145/NC 73 (SAM FURR RD) BETWEEN NORTHCROSS DR & US 21 (STATESVILLE RD), MECKLENBURG COUNTY . If the extent of the project area and/or nature of the authorized impacts to waters are modified, a revised application must be submitted to this office for written approval before work is initiated. Any deviation from the terms and conditions of the permit, or your submitted plans, may subject the permittee to enforcement action.

This verification is valid until May 25, 2030, unless the subject general permit(s) is suspended, revoked, or is modified prior to that date such that the activity no longer complies with the terms and conditions of the general permit.

Project Specific Special Conditions:

- 1. All work must be performed in strict compliance with (a) the description of work in the PCN and (b) the Wetlands and Surface Water Impact Permit Drawing(s) (Permit Plans) in the application dated September 17, 2025. 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 U.S. Fish and Wildlife Service's (USFWS's) Programmatic Biological (PBO) and Conference Opinion (PCO) and Programmatic Conference Report titled "Five Imperiled Bat Species in Western North Carolina" dated April 1, 2025, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are specified in the PBO/PCO. The USFWS adopted the PBO/PCO as the Programmatic Biological Opinion (PBO) for the effects of this action on August 26, 2025. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the PBO, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the PBO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PBO, and with the ESA.

- 4. The permittee will include submerged rock rip rap rock protection below the box culvert extensions/culvert wingwall & apron associated with the southbound I-77 off ramp culvert extension outlet (Site #2), unless exposed bedrock is present in the stream channel at/directly below the outlet location and is not required to attenuate scour and/or provide an armored transition from the culvert structure to native stream channel in Caldwell Station Creek.
- 5. In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Forms. The requirements of these forms, including any special conditions listed on these forms, are hereby incorporated as special conditions of this permit authorization.

This 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 Stephen Brumagin, WRDA/Transportation Branch Project Manager of the Charlotte Field Office at 704-798-6471, by mail at the above address, or by email at stephen.a.brumagin@usace.army.mil. Please take a moment to complete our customer satisfaction survey located at https://regulatory.ops.usace.army.mil/customer-service-survey/.

Sincerely,

M. Scott Jones, PWS

WRDA/Transportation Branch Chief

Enclosures

Project plans 401 WQC RGP 50 WNC bat PBO

cc (w/enclosures):

Erin Cheely NCDOT, ECAP (via ekcheely@ncdot.gov)
Joel Howard, NCDOT, Div 10 (via jmhoward@ncdot.gov)

U.S. Army Corps of Engineers (USACE)

CERTIFICATION OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT

For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act; the proponent agency is CECW-COR.

Form Approved OMB No. 0710-0003
Expires 2027-10-31

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0003, is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PURPOSE: This form is used by recipients of U.S. Army Corps of Engineer Regulatory permits to certify compliance with the permit terms and conditions.

Your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the U.S. Army Corps of Engineers, Wilmington District, Regulatory Office.

The certification can be submitted by email at Enter Email Name_@usace.army.mil or by mail at the below address:

U.S. Army Corps of Engineers

Wilmington District Office

Street Address: 69 Darlington Avenue

City: Wilmington State: North Carolina Zip Code: 28403

	COMPLETED BY T	HE CORPS	
Corps Action Number: SAV	V-2016-00458		
Permit Type: General Permit			
General Permit Number and Name (if applicable): RGP	-50		
Name of Permittee: Willi	am Barrett		
Project Name: I57	d NC 73 Sam Furr Road		
Project Location (physical address): Into) Interchange (I-77 Exit 25)		
Hur	ntersville, North Car	olina	
	PERMITTEE'S CER	TIFICATION	
Date Work Started:			
Date Work Completed:			
Enclose photographs showing the completed project (if available)	lable).		
I hereby certify that th with all of the permit terms and conditions, and that any req conditions.	•	•	permit has been completed in accordance in accordance with the permit
Name	Date	Signature	

<u>US Army Corps of Engineers – Wilmington District</u> Compensatory Mitigation Responsibility Transfer Form

Permittee: William Barrett
Action ID: SAW-2016-00458
Project Name: I5715 Division 10 DOT reconfiguration of I77 and NC 73 Sam Furr Road County: Mecklenburg

Instructions to Permittee: The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Division of Mitigation Services (NCDMS), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that Wilmington District Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one Mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate Mitigation Sponsors.

Instructions to Sponsor: The Sponsor verifies that the mitigation requirements (credits) shown below have been released and are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether they have received payment from the Permittee. Once the form is signed, the Sponsor must update the bank ledger and provide a copy of the signed form and the updated ledger to the Permittee, the Project Manager who issued the permit, the Bank Project Manager, and the District Mitigation Office (see contact information on page 2). The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

Permitted Impacts and Compensatory Mitigation Requirements

Permitted Impacts Requiring Mitigation*: 8-digit HUC and Basin: 03050101, Catawba River Basin

Stream	m Impacts (linea	r feet)	Wetland Impacts (acres)					
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal		
528								

^{*}If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements: 8-digit HUC and Basin: 03050101, Catawba River Basin

Stream	n Mitigation (credi	ts)	Wetland Mitigation (credits)					
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal		
1056								

Mitigation Site Debited: NCDMS.

Section to be completed by the Mitigation Sponsor

Statement of Mitigation Liability Acceptance: I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCDMS), as approved by the Wilmington District, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements.

Mitigation Sponsor Name: NCDMS	
Name of Sponsor's Authorized Representative: Beth Harmon	
Clizabeth Harmon	11/18/2025
Signature of Sponsor's Authorized Representative	Date of Signature

USACE Wilmington District – MRTF Page 2

Conditions for Transfer of Compensatory Mitigation Credit:

- Once this document has been signed by the Mitigation Sponsor and the District is in receipt of the signed form, the
 Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains
 responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only after the District is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein. When NCDMS provides mitigation for authorized impacts conducted by the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon permit issuance; however, a copy of this form signed by NCDMS must be provided to the District within 30 days of permit issuance. NCDOT remains fully responsible for the mitigation until the District has received this form, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure that the District Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the District, the Sponsor must obtain case-by-case approval from the District Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the District administrative records for both the permit and the Bank/ILF Instrument.

Comments/Additional Conditions: NCDMS provided a letter dated June 18, 2025, indicating provision of stream mitigation for a total of 528 linear feet of stream impacts from NCDOT I-5715 project in Mecklenburg Co., N.C.

This form is not valid unless signed below by the District Project Manager and by the Mitigation Sponsor on Page 1. *Once signed, the Sponsor should provide copies of this form along with an updated bank ledger to: 1) the Permittee, 2) the District Project Manager at the address below, 3) the Bank Manager listed in RIBITS, and 4) the Wilmington District Mitigation Office, 3331 Heritage Trade Drive, Suite 105, Wake Forest, NC 27587 (or by email to SAWMIT@usace.army.mil). Questions regarding this form or any of the permit conditions may be directed to the District Mitigation Office.*

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

US Army Corps of Engineers 8430 University Executive Park Drive

Charlotte

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

Stephen A. Brumagin

November 18, 2025

Wilmington District Project Manager Signature

Date of Signature

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at http://ribits.usace.army.mil.

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



October 29, 2025 Mecklenburg County NCDWR Project No. 20251234 I-77 and NC 73 Interchange Improvements WBS Element #50128.1.FS1 TIP #I-5715

APPROVAL of 401 WATER QUALITY CERTIFICATION with ADDITIONAL CONDITIONS

Ms. Erin Cheely NCDOT 1598 Mail Service Center Raleigh, NC 27699-1598 EKCheely@NCDOT.gov

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

ADDITIONAL CONDITIONS for Proposed Improvements to I-77 and NC 73 Interchange in Mecklenburg County, NCDWR Project No. 20251234, WBS Element #50128.1.FS1, TIP #I-5715.

Dear Ms. Cheely

Attached hereto is a copy of Certification No. WQC008289 issued to The NCDOT dated October 29, 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.

This letter completes the review of the Division under section 401 of the Clean Water Act and 15A NCAC 02H .0500. Please contact Mary Plummer at 704-235-2193 or Mary.Plummer@deq.nc.gov if you have any questions or concerns.

Sincerely,

-Signed by:

Faith Hardin

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

Electronic copy only distribution:

William Barrett, NCDOT Joel Howard, NCDOT Steve Brumagin, US Army Corps of Engineers, Charlotte Field Office Holland Youngman, US Fish and Wildlife Service David McHenry, NC Wildlife Resources Commission Tony Spacek, Kimley Horn



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 553 Linear Feet of jurisdictional streams in Mecklenburg County. The project shall be constructed pursuant to the application dated and received September 17, 2025. The authorized impacts are as described below:

Stream Impacts (Linear Feet) in the Catawba River Basin.

Site	RCBC Ext/ culvert	1 1			Total Stream Impacts	Stream Impacts Requiring Mitigation	
1./1A	59 -		-	-	59	59	
2./1B	-	35	1-1	-	35	35	
3./1C	-	-	-	10	10	-	
4./2A	49	-	-	-	49	49	
5./2B	-	- 35 -		-	35	35	
6./2C	-			15 15		-	
7./3A	-1	-	318	-	318	318	
8./3B	_	32	_	-	32	32	
Totals	108	108 102 318					
		528	-	25	553	528	
		553	-	-			

Total Stream Impacts for Project: 553 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 and received September 17, 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 one acre or 300 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7).

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

This Water Quality Certification neither grants nor affirms any property right, license, or privilege in any lands or waters, or any right of use in any waters. This Water Quality Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and does not create any prescriptive right or any right of priority regarding any usage of water. This Water Quality Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this Water Quality Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which the withdrawal was initiated or expanded. Upon the presentation of proper credentials, the Division may inspect the property.



Condition(s) of Certification:

Project Specific Conditions

- 1. All work in or adjacent to stream waters shall be conducted per approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual. [15A NCAC 02H.0506(b)(3) and (c)(3)]
- 2. Design and placement of the culverts and other structures shall be installed in such a manner that the original stream profiles are not altered (i.e., the depth of the channel must not be reduced by a widening of the streambed). Existing stream dimensions (including pattern and profile) are to be maintained above and below locations of each culvert. The structures shall be designed and installed to allow for fish and other wildlife movement as well as prevent headcutting of the stream. The applicant may be required to provide evidence that the equilibrium has been maintained if requested in writing by the NCDWR. [15A NCAC 02H.0506(b)(2)]
- 3. 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 down stream 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)]
- 4. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage. [15A NCAC 02H.0506(b)(2)]
- 5. Riprap shall not be placed in the active thalweg channel. If placement in the streambed is approved per plans and permit, the riprap must be keyed-into the streambed in a manner that shall not preclude aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed. [15A NCAC 02H.0506(b)(2)]
- 6. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species. [15A NCAC 02H.0506(b)(2)].
- 7. Turbidity curtains shall be used to isolate all work areas from the stream, including pile or casement installation, placement of riprap, excavation or filling. Strict adherence to the Construction and Maintenance Best Management Practices will be required.
- 8. Compensatory mitigation for impacts to 528 linear feet of impact to perennial streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Division of Mitigation Services (DMS), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated June 18, 2025, that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed July 28, 2010
- 9. NCDOT will include submerged rock rip rap rock protection below the box culvert extensions/culvert wingwall & apron unless exposed bedrock is present in the stream channel at the outlet location and is not required to attenuate scour and/or provide an armored transition from the culvert structure to native stream channel in Caldwell Station Creek.



General Conditions

- 1. 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]
- 2. 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)]
- 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 any 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)]
- 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)]
- 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 Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
- 15. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization, including all non-commercial borrow and waste sites associated with the project, shall be clearly



- marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
- 16. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
- 17. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
- 18. Upon completion of the project (including any impacts at associated borrow or waste sites), the authorized agent shall complete and return the "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0507]
- 19. Native riparian vegetation must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0506(b)(2)]
- 20. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities. [15A NCAC 02H.0506(b)(3) and (c)(3)]
- 21. Erosion control matting that incorporates plastic mesh and/or plastic twine shall not be used along streambanks or within jurisdictional wetlands. [15A NCAC 2H.0506; 15A NCAC 2H.0507]
- 22. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3) and (c)(3)]:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act
- 23. Sediment and erosion control measures shall not be 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)]
- 24. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H .0506{b)(3) and (c)(3) and 15A NCAC 02B .0200]
- 25. Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*.



- 26. All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.
- 27. For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.

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

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

This the 29th day of October 2025

DIVISION OF WATER RESOURCES

Signed by:

Faith Hardin

Richard E. Rogers, Jr., Director

WQC No. WQC008289



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



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





North Carolina Department of Transportation



Stormwa	SIGHT Highway Stormwater Program										
			STOR		IAGEMENT PLAN						OF HAMPI
(Version 3.02; Released a	April 23, 2024) 50128.1.FS1	TIP/Proj No: I-5715		FOR NCDOT P					Dago 1	ı	of 3
WBS Element:	50126.1.F51	TIP/Proj No: I-5715	_	County(ies):					Page 1	l	of 3
		-		eneral Project I	nformation	1				_	
WBS Element:		50128.1.FS1	TIP Number:	I-5715		Project		Roadway Widening	Date:	3/	/11/2025
NCDOT Contact:		Lindsay H. Crocker			Contractor / Desig			rn & Associates			
	Address:	Project Management Unit				Address:		Tryon, Suite 200			
		1000 Birch Ridge Drive					Charlotte,	North Carolina, 28202			
		Raleigh, NC 27610									
		919-707-6056					704-319-7				
ļ	Email:	lhcrocker@ncdot.gov						ek@kimley-horn.com			
City/Town:		Huntersville, Cornelius			County(ies):	Meckle					
River Basin(s):		Catawba No			CAMA County?	N	0				
Wetlands within Pro	oject Limits?	No									
			1 -	Project Desc							
Project Length (lin.	miles or feet):	2.539 Miles	Surrounding		Urban						
			Proposed Project					Existing Sit	te		
Project Built-Upon		27.1		ac.			16.6	ac.			
Typical Cross Secti		I-77 (-L-) 8 lane grassed median d									
		2 lane undivided with curb and gut grassed shoulders/curb and gutter						ne with grassed shoulder curb and gutter. I-77 Nor			
		gutter. I-77 Northbound on-ramp (-						noulders. I-77 Southboun			
		Southbound off-ramp (-Y2RPB-) 2						I-77 Northbound collecte			
		collecter (-Y2RPD-) 2 lane divided with grassed shoulders. Caldwell			Creek Drive (-Y4-) 2-						
		4 lane undivided with curb and gutter. Caldwell Creek Drive (-Y5-) 3 la									
		gutter. Existing Northcross Drive (-Y8-) 2 lane with curb and gutter. G			lenhurst Lane (-Y9-)	curb and gutter. Glenhurs	st Lane (-Y9-) 2	lane und	livided with		
		2 lane undivided with curb and gut	ter.			curb and gutt					
Annual Avg Daily Traffic (veh/hr/day):		5			5					Year:	2025
	ect Narrative:	Interchange improvements at the i									
' '		77 Southern Crossing (-Y1-) to ena						mprovements added to t	the intersection	of I-// (-	L-) and Sam
Quanty	mpacts)	Furr Road (-Y2). Minimization measures have been utilized throughout the project corridor, including the following:									
		- To the maximum extent practical	existing natural an	d structural drai	nage nathways have	heen preserv	ed to help n	naintain nrre-develonme	nt runoff charac	teristics :	and to retain
		- To the maximum extent practical, existing natural and structural drainage pathways have been preserved to help maintain prre-development runoff characteristics and to retain natural pollutant removal and volume reduction benefits.									
		- To the maximum extent practical, vegetated swales have been used for stormwater conveyance to reduce flow velocity and promote sedimentation, filtration, and infiltration.									infiltration.
		- To the maximum extent practicable, vegetated shoulder sections have been utilized, and widened throughout the length of the project to promote diffuse flow and pollutant									oollutant
		removal over the vegetated strip.									
		Dry detention basin utilized as BMP measure within the project limits.									
1											
1											
l											



North Carolina Department of Transportation



Highway Stormwater Program STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS Version 3.02; Released April 23, 2024) WBS Element: 50128.1.FS1 TIP/Proj No.: 1-5715 County(ies): Mecklenburg Page **General Project Information** Waterbody Information 11-115-2-(1) Surface Water Body (1): UT to Caldwell Station Creek NCDWR Stream Index No.: Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: None Other Stream Classification: None Impairments: None Aquatic T&E Species? No Comments: NRTR Stream ID: Buffer Rules in Effect: N/A Project Includes Bridge Spanning Water Body? No Deck Drains Discharge Over Buffer? N/A Dissipator Pads Provided in Buffer? No Deck Drains Discharge Over Water Body? N/A (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): Caldwell Station Creek NCDWR Stream Index No.: 11-115-2-(1), 11-115-2-(2) Primary Classification: Class C Water Supply IV (WS-IV) NCDWR Surface Water Classification for Water Body Supplemental Classification: Other Stream Classification: None Impairments: None Aquatic T&E Species? Comments: NRTR Stream ID: Buffer Rules in Effect: Caldwell Station Creek N/A Dissipator Pads Provided in Buffer? Project Includes Bridge Spanning Water Body? No Deck Drains Discharge Over Buffer? N/A (If yes, provide justification in the General Project Narrative) Deck Drains Discharge Over Water Body? (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): NCDWR Stream Index No.: **Primary Classification:** NCDWR Surface Water Classification for Water Body 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? (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative)



(Version 3.02; Released April 23, 2024)

North Carolina Department of Transportation

Highway Stormwater Program STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS

WBS Element: 50128.1.FS1

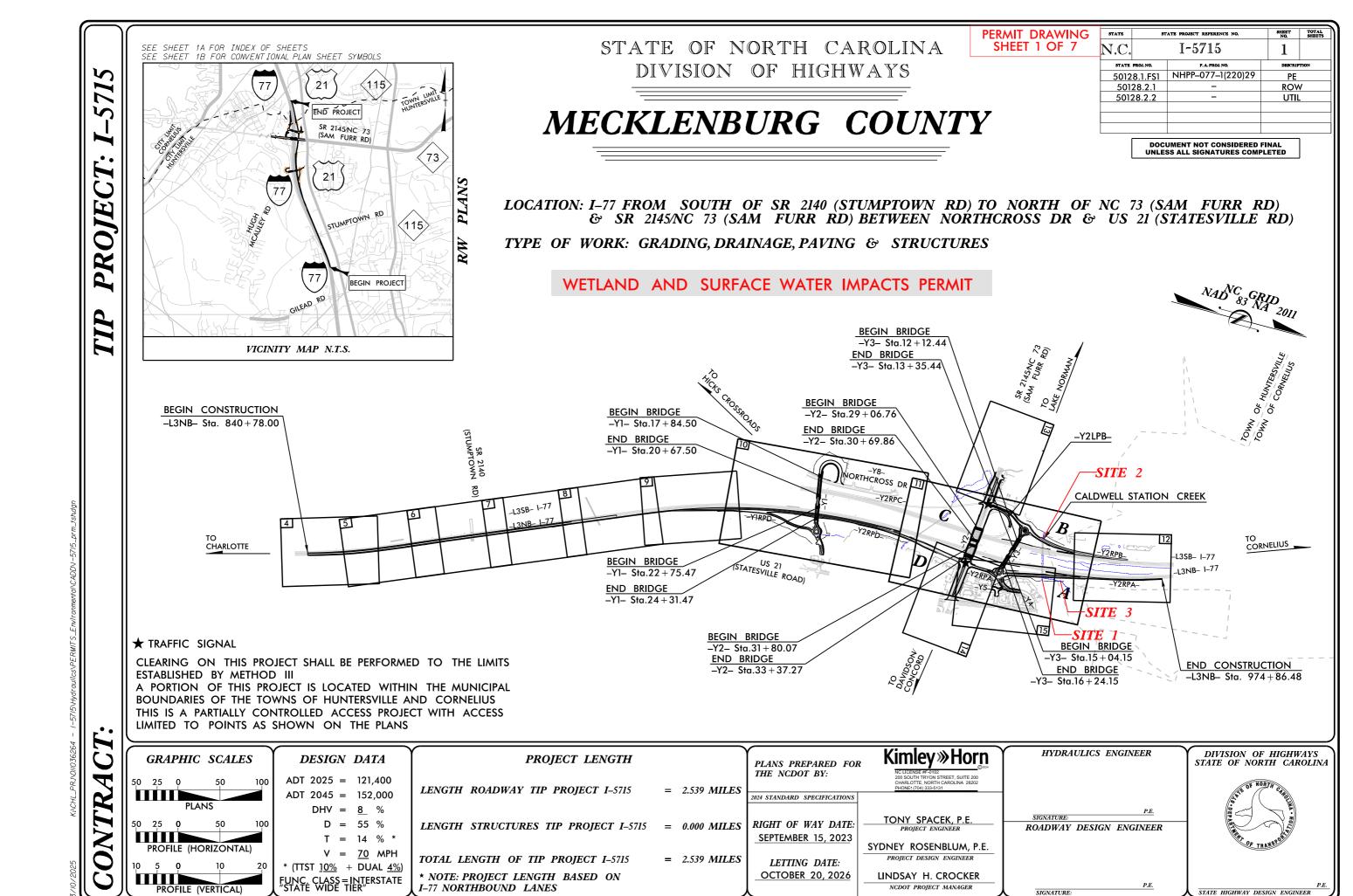
TIP/Proj No.: I-5715

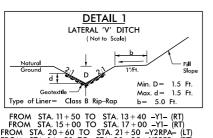
County(ies): Mecklenburg

3 of 3

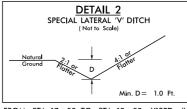
Page **Other Toolbox Best Management Practices** New Built-Upon Precipitation Depth **Volume Treated** Sheet Location Drainage Area Area Treated over NBUA BMP Associated w/ Buffer Rules? No. Line Station (LT,RT,CL) Latitude Longitude Surface Water Body BMP Type (ac) (ac) (ac-ft) (in) 8.13 Dry Detention Basin -L3SB-955+00 35.444954 -80.869801 (2)Caldwell Station Creek 13.3 0.7 0.454 No

Additional Comments

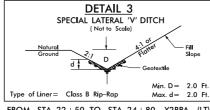




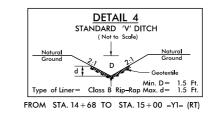
FROM STA. 11+50 TO STA. 13+40 -Y1- (RT) FROM STA. 15+00 TO STA. 17+00 -Y1- (RT) FROM STA. 20+60 TO STA. 21+50 -Y2RPA- (LT) FROM STA. 20+60 TO STA. 20+50 -Y2RPB- (RT) FROM STA. 38+00 TO STA. 24+00 -Y2RPB- (RT) FROM STA. 38+00 TO STA. 43+50 -Y2RPD- (RT) FROM STA. 18+50 TO STA. 20+08 -Y2RPD- (RT) FROM STA. 49+00 TO STA. 51+00 -Y2RPD- (RT) FROM STA. 49+00 TO STA. 51+00 -Y2RPD- (RT)



FROM STA. 17+50 TO STA. 19+50 -Y1RPD- (LT)
FROM STA. 54+50 TO STA. 55+00 -Y2RPD- (RT)
FROM STA. 38+00 TO STA. 40+00 -Y2- (LT)
FROM STA. 28+45 TO STA. 26+00 -Y2- (LT)
FROM STA. 28+75 TO STA. 31+00 -Y2RPA- (LT)
FROM STA. 28+50 TO STA. 31+50 -Y2RPA- (RT)
FROM STA. 14+00 TO STA. 15+50 -Y2LPB- (RT)
FROM STA. 16+50 TO STA. 18+30 -Y2LPB- (LT)
FROM STA. 16+50 TO STA. 13+20 -Y4- (RT)
FROM STA. 10+50 TO STA. 13+20 -Y4- (RT)
FROM STA. 10+50 TO STA. 10+75 -Y5- (LT)
FROM STA. 10+50 TO STA. 10+75 -Y5- (LT)

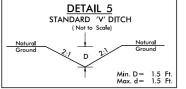


FROM STA. 22+50 TO STA. 24+80 -Y2RPA- (LT) FROM STA. 12+00 TO STA. 14+50 -Y2RPB- (RT)

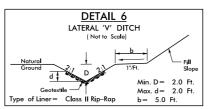


PROJECT REFERENCE NO. SHEET NO. **Kimley** »Horn 2D-I R/W SHEET NO HYDRAULICS ROADWAY 200 S. TRYON ST. • CHARLOTTE, NC 28202 ENGINEER ENGINEER DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

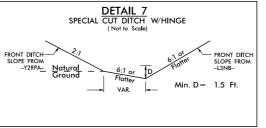
SHEET 2 OF 7



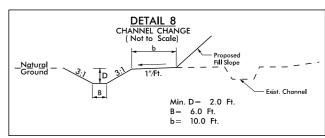
STA. 944+33 –L3SB– (RT) FROM STA. 13+55 –Y4– (LT) TO STA. 25+17.50 –Y2RPA– (LT) FROM STA. 11+45 –Y3– (RT) TO STA. 12+93 –Y2LPB– (RT)



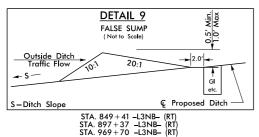
FROM STA. 26+84 TO STA. 30+00 -Y1- (RT) FROM STA. 18+00 TO STA. 20+47 -Y1RPD- (RT)



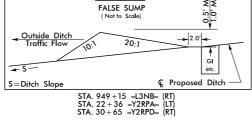
FROM STA. 22+00 TO 23+00 -Y2RPA- (RT) FROM STA. 23+15 TO 25+00 -Y2RPA- (RT)

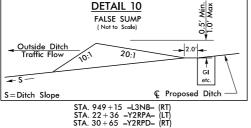


FROM STA. 17+35 TO STA. 20+45 -Y2RPA- (LT)

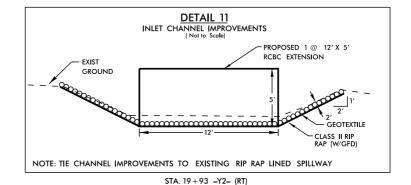


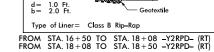
STA. 849+41 -L3NB- (RT) STA. 897+37 -L3NB- (RT) STA. 969+70 -L3NB- (RT) STA. 974+65 -L3NB- (RT) STA. 23+15 -Y2RPA- (RT) STA. 25+15 -Y2RPA- (RT) STA. 25+15 -Y2RPD- (RT)



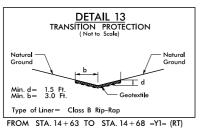


Min. D = 1.5 Ft.



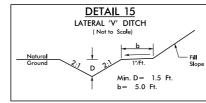


DETAIL 12
TOE PROTECTION

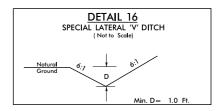


FROM STA. 10+00 TO STA. 14+50 -YIRPD- (RT) FROM STA. 14+50 TO STA. 18+00 -YIRPD- (RT) FROM STA. 16+50 TO STA. 17+50 -YIRPD- (LT) FROM STA. 26+00 TO STA. 30+50 -YZRPD- (RT) FROM STA. 51+00 TO STA. 52+00 -YZRPD- (RT)

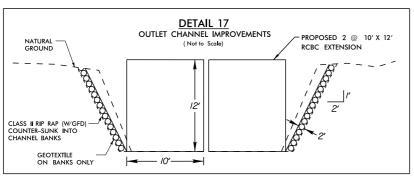
DETAIL 14
SPECIAL CUT DITCH WHINGE

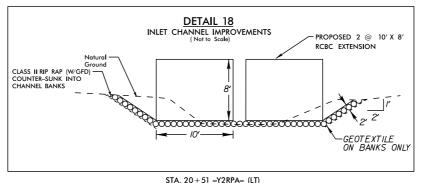


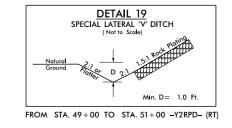
FROM STA. 10+88 TO STA. 13+50 -Y1- (LT) FROM STA. 20+45 TO STA. 24+00 -Y2RPB- (RT) FROM STA. 10+15 TO STA. 11+45 -Y3- (RT)



FROM STA. 32+50 TO STA. 35+50 -Y2RPD- (RT)



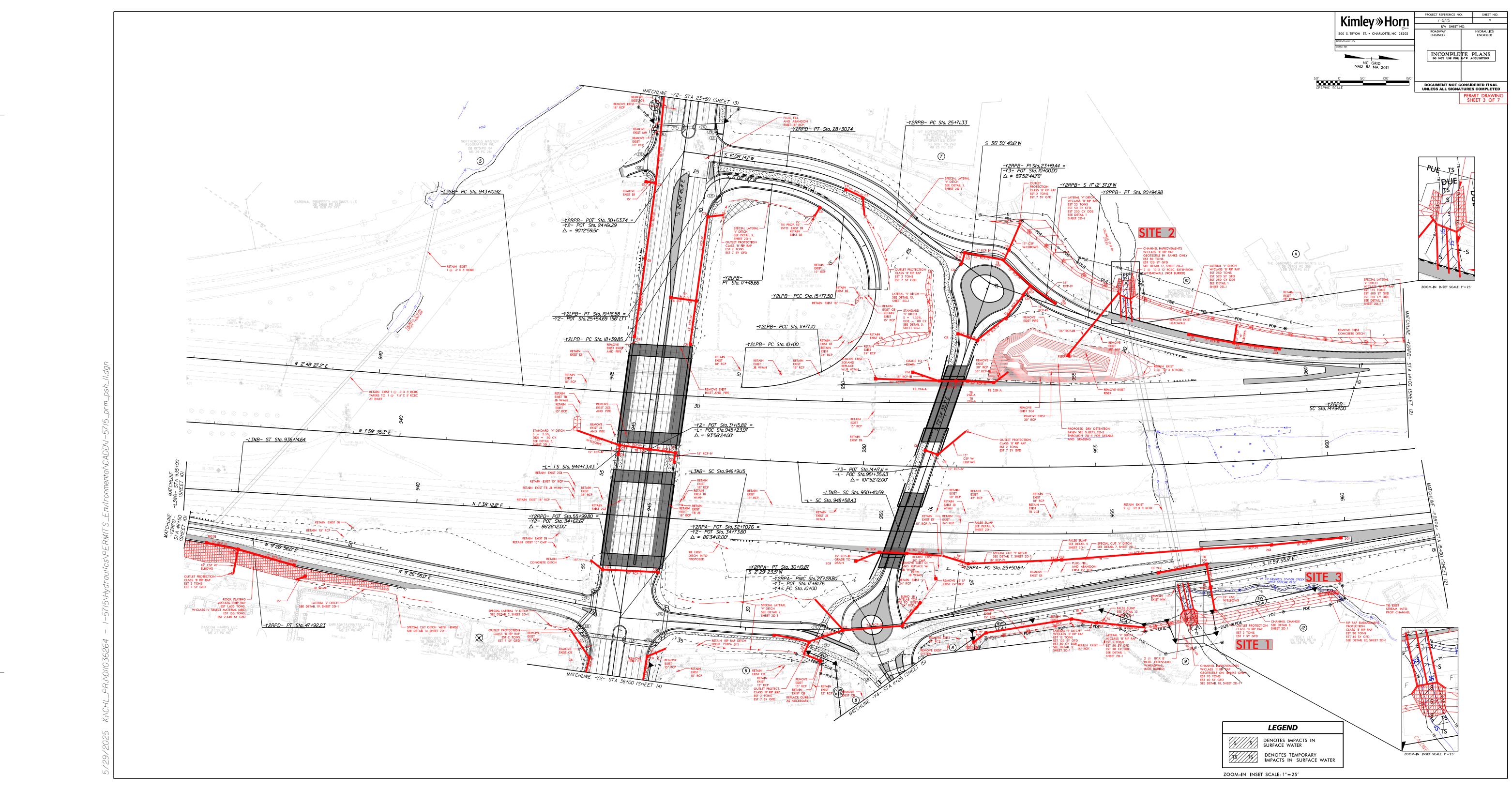




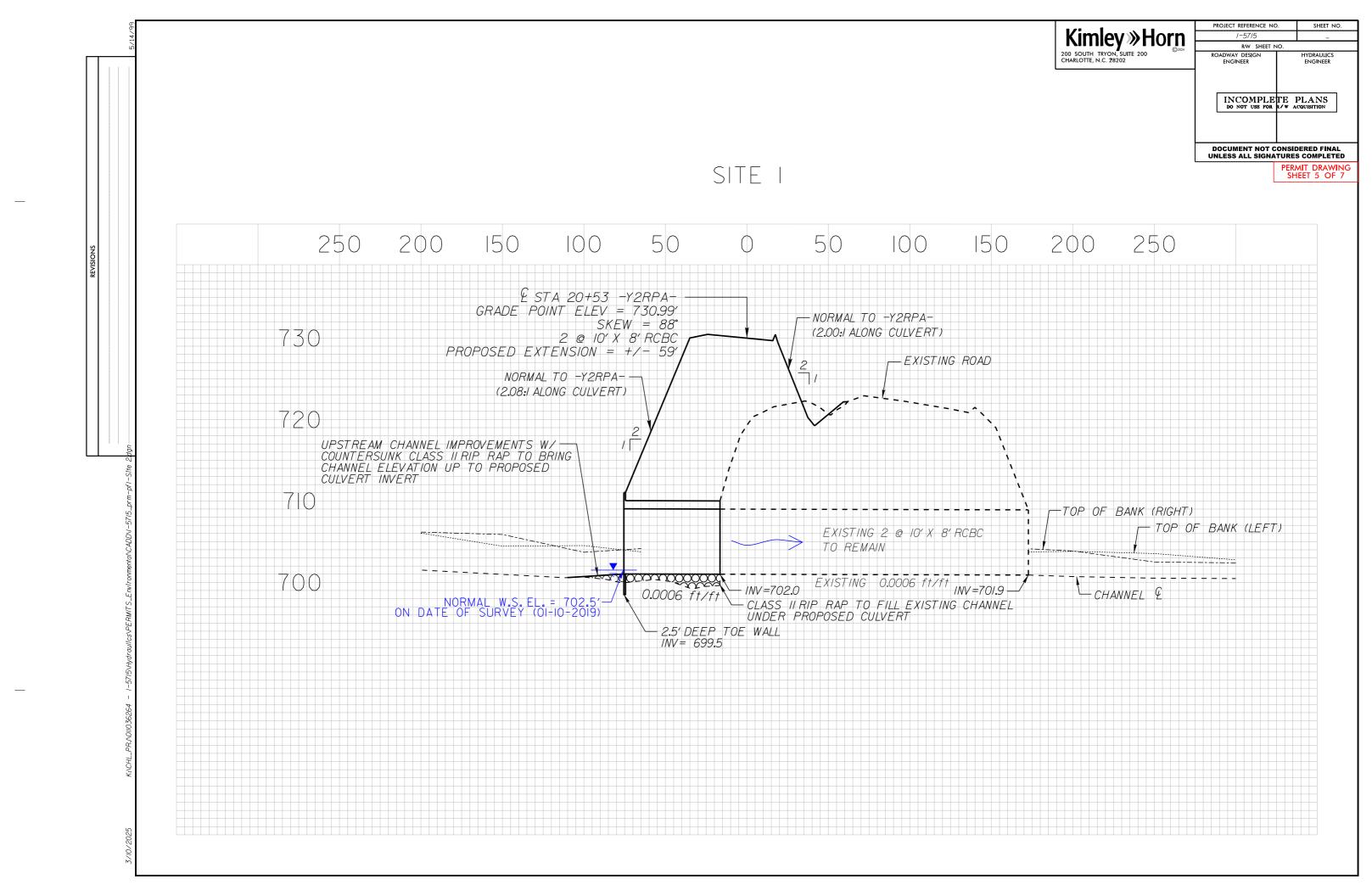


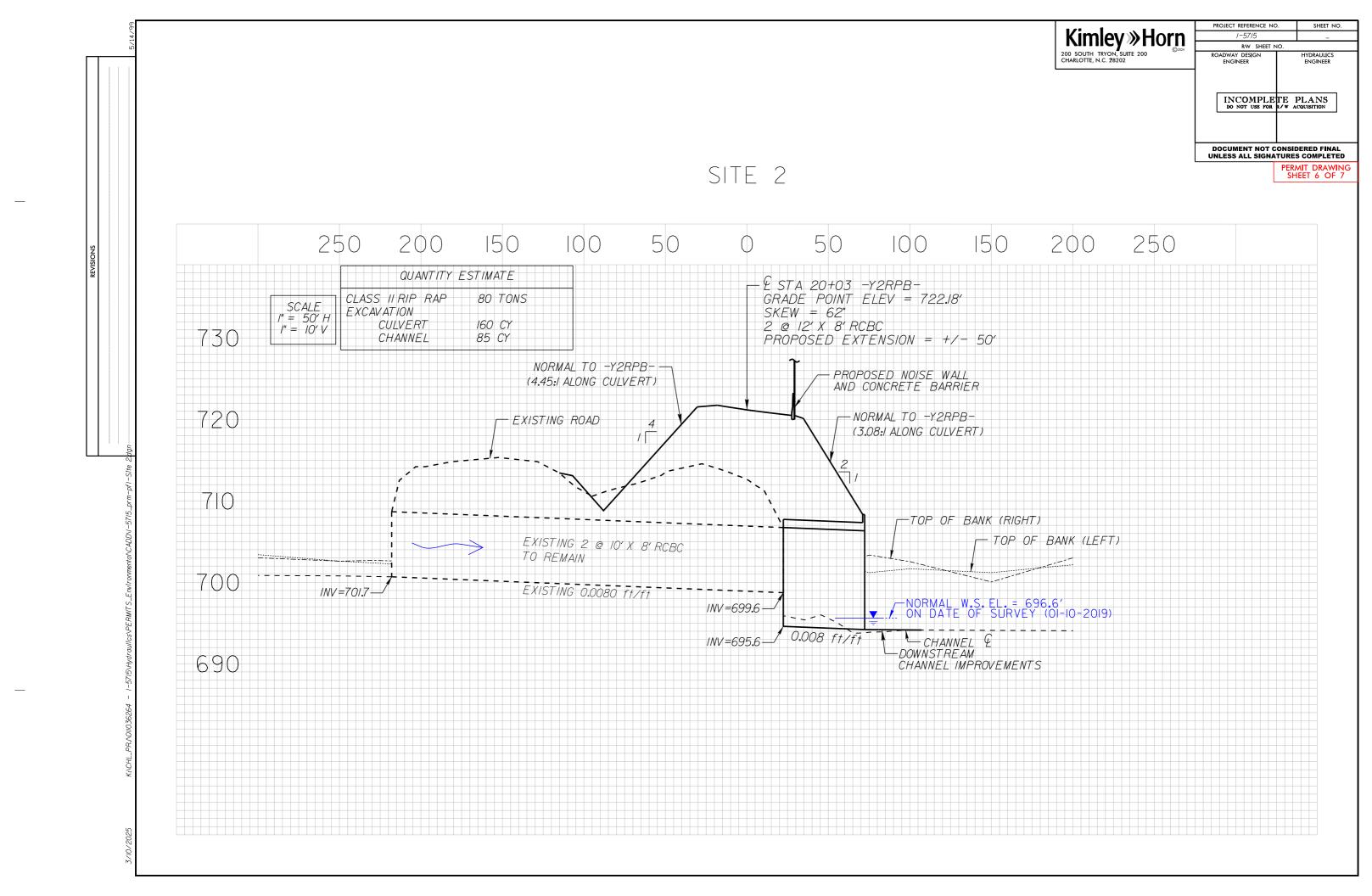
FROM STA. 17+28 TO STA. 17+70 -Y2RPA- (RT) FROM STA. 46+14 TO STA. 46+32 -Y2RPD- (RT)

STA. 20 + 27 - Y2RPB- (RT)









	WETLAND AND SURACE WATER IMPACTS SUMMARY											
				WE	TLAND IMP	ACTS		5	SURFACE	WATER IM	PACTS	
			Permanent	Temp.		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		Design
<u> </u>	\(\(\text{ODD}\) \(\text{ODD}\) \(\t	0.0.401.7.01.0000	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	-Y2RPA- 20+37/20+66 (LT)	2 @ 10' X 8' RCBC						0.02		59	40	
1	-Y2RPA- 20+34/20+54 (LT)							0.01	< 0.01	35	10	
2	-Y2RPB- 19+99/20+32 (RT)	2 @ 12' X 8' RCBC						0.02		49		
2	-Y2RPB- 20+36/20+51 (RT)	CHANNEL IMPROVEMENTS						< 0.01	< 0.01	35	15	
3	-Y2RPA 17+38/20+44 (LT)	ROADWAY FILL						0.02		318		
3	-Y2RPA 17+19/17+38 (LT)	CHANNEL IMPROVEMENTS						< 0.01		32		
TOTAL	.S*:							0.08	< 0.01	528	25	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
05/16/2025
Mecklenburg
I-5715

50128.1 7 OF

SHEET

OF

7

Revised 2018 Feb