



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JOSH STEIN  
GOVERNOR

DANIEL H. JOHNSON  
SECRETARY

March 30, 2026

MEMORANDUM TO: Division Environmental and Construction Units

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

SUBJECT: Environmental Permits for the I-40 and SR 1007 (Lenoir-Rhyne Blvd.)  
Interchange Improvements in Catawba County, Division 12, **TIP: I-5716.**

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	General Certification No. 7679 <i>Written authorization not required</i>	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/](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>



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

March 27, 2026

Regulatory Division  
SAW-2025-02243

Sent Via email: ekcheely@ncdot.gov

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

Dear Ms. Cheely:

This letter is in response to the Pre-Construction Notification (PCN) you submitted to the Wilmington District, WRDA/Transportation Branch on December 2, 2025, for a Department of the Army Nationwide Permit (NWP) verification. This project has been assigned the file number SAW-2025-02243 and is known as the I-40 Lenoir Rhyne Boulevard Intersection Improvement Project (TIP I5716). 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 impacts associated with the improvements of the I-40 intersection with Lenoir Rhyne Boulevard. Specific impacts include the permanent impact to 0.02 acres of wetlands and 249 lf of stream channel and the temporary impact to 12 lf of stream channel. The project is located at the intersection of I-40 with Lenoir Rhyne Boulevard (SR 1007) in Hickory, Catawba County, North Carolina, at Latitude 35.713544 and Longitude – 81.313065.

We have determined that the proposed work is authorized by 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 general permit conditions, any regional conditions, the special conditions listed in this letter, the application materials, and the enclosed plans. If the extent of the project area and/or nature of the authorized impacts to waters are modified, a revised PCN must be submitted to this office for written approval before work is initiated. Any violation of permit conditions or deviation from your submitted plans may subject the permittee to enforcement action.

This verification is valid until May 25, 2030, unless prior to this date the subject GP(s) is suspended, revoked, or is modified such that the activity no longer complies with the terms and conditions of this GP. If you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked,

you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

Project Specific Special Conditions:

1. 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 Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.
2. 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 [date approved by USFWS]. 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." This GP verification does not preclude the necessity to obtain any other Federal, State, or local permits, licenses, and/or certifications, which may be required.

If you have any questions related to this verification or have issues accessing documents referenced in this letter, please contact Crystal Amschler, Project Manager of the WRDA/Transportation Branch at 828-526-6013, by mail at the above address, or by email at [crystal.c.amschler@usace.army.mil](mailto:crystal.c.amschler@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,

A handwritten signature in black ink that reads "M. Scott Jones". The signature is written in a cursive style with a large, prominent "M" and "J". There are small red marks above the "M" and below the "J".

M. Scott Jones, PWS  
WRDA / Transportation Branch Chief

Enclosures

<p>U.S. Army Corps of Engineers (USACE)</p> <p><b>CERTIFICATION OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT</b></p> <p>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.</p>	<p><i>Form Approved -</i></p> <p><i>OMB No. 0710-0003</i></p> <p><i>Expires 2027-10-31</i></p>	
<p><b>The Agency Disclosure Notice (ADN)</b></p>		
<p>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 <a href="mailto:whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil">whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil</a>. 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.</p>		
<p><b>PURPOSE:</b> This form is used by recipients of U.S. Army Corps of Engineer Regulatory permits to certify compliance with the permit terms and conditions.</p> <p>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.</p>		
<p>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.</p> <p>The certification can be submitted by email at <a href="mailto:crystal.c.amschler@usace.army.mil">crystal.c.amschler@usace.army.mil</a> or by mail at the below address:</p>		
<p>U.S. Army Corps of Engineers  Wilmington District Office  Street Address: 151 Patton Ave Rm 208  City: Asheville      State: NC    Zip Code: 28801</p>		
<p><b>COMPLETED BY THE CORPS</b></p>		
Corps Action Number:	SAW-2025-02243	
Permit Type: <u>General Permit</u>		
General Permit Number and Name (if applicable):		
Name of Permittee:	Erin Cheely	
Project Name:	located at the intersection of I 40 with Lenoir Rhyne Boulevard	
Project Location (physical address):	Catawba, North Carolina	
<p><b>PERMITTEE'S CERTIFICATION</b></p>		
Date Work Started:	_____	
Date Work Completed:	_____	
<p>Enclose photographs showing the completed project (if available).</p> <p>I _____ hereby certify that the work authorized by the above referenced permit has been completed in accordance with all of the permit terms and conditions, and that any required compensatory mitigation has been completed in accordance with the permit conditions.</p>		
Name	Date	Signature

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

**Permittee:** NCDOT

**Action ID:** SAW-2025-02243

**Project Name:** intersection of I 40 with Lenoir Rhyne Boulevard (I5716)

**County:** Catawba

**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: 03050102, Catawba River Basin

Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
	249					

\*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: 03050102, Catawba River Basin

Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
	498					

**Mitigation Site Debited:** \_\_\_\_\_  
(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCDMS, list NCDMS. If the NCDMS acceptance letter identifies a specific site, also list the specific site to be debited).

**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:** \_\_\_\_\_

**Name of Sponsor’s Authorized Representative:** \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sponsor’s Authorized Representative**

\_\_\_\_\_  
**Date of Signature**



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

November 15, 2024

**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:**

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](mailto: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: Crystal Amschler  
USACE Field Office: WRDA  
US Army Corps of Engineers  
151 Patton Ave Rm 208  
Asheville  
Email: [crystal.c.amschler@usace.army.mil](mailto:crystal.c.amschler@usace.army.mil)

**Crystal Amschler** Digitally signed by Crystal Amschler  
Date: 2026.03.27 12:36:49 -04'00'  
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>.

# Staff Project Review Form



Please note: fields marked with a red asterisk \* below are required. You will not be able to submit the form until all mandatory questions are answered.

**Staff Report Submitted on:** 1/5/2026  
*This will be filled in automatically.*

## PROJECT INFORMATION

**ID#:** 20251668      **Version:** 1  
**Project Name:** I-5716 - I-40 and Lenoir-Rhyne Blvd Interchange Improvements

### County(ies):

Catawba

### Contact Emails:

ekcheely@ncdot.gov  
jlhemphill@ncdot.gov

## PROJECT FOLDER ACCESS

[Click here to log in to see the project information submitted.](#)

## STAFF REVIEW INFORMATION

**Check all agencies that need to receive notification of your decision.**

DCM       WRC       DMS

**Does this complete the review for this project? \***

Yes - Review Complete       No - Still in Review  
 No - Place on hold

*This updates the progress status for this project in Laserfiche.*

**What types of information are you providing about this project? \***

Decision Letter       Duplicate Information       Placed on Hold  
 More Info Received       More Info Requested       No Written Concurrence Required  
 Staff Notes

## REVIEW COMPLETION DECISION INFORMATION

**Has your decision letter been uploaded into Laserfiche? \***

Yes - Uploaded separately       Yes - Attaching it to this form  
 No - Sent for signature (TPB Unit Only)       N/A



North Carolina Department of Transportation

Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element: 50133.1.FS1      TIP/Proj No: I-5716      County(ies): Catawba      Page 1 of 2

General Project Information

WBS Element:	50133.1.FS1	TIP Number:	I-5716	Project Type:	Roadway Widening	Date:	8/25/2025
NCDOT Contact:	Brook Anderson, PE		Contractor / Designer:		Joshua G. Dalton, PE		
	Address:	NCDOT Hydraulics Unit 1590 Mail Service Raleigh, NC 27699-1590			Address:	Sungate Design Group, P.A. 905 Jones Franklin Road Raleigh, NC 27606	
	Phone:	(919)707-6706			Phone:	(919) 859-2243	
	Email:	beanderson@ncdot.gov			Email:	jdalton@sungatedesign.com	
City/Town:	Hickory			County(ies):	Catawba		
River Basin(s):	Catawba		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.80	Surrounding Land Use:	Commercial, Industrial					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	10.7	ac.	8.5	ac.				
Typical Cross Section Description:	I-40: Existing lanes to be overlaid. Open shoulder section with 10' paved shoulder and 2' grassed shoulder (5' w/ guardrail). Y1 (SR1534): Mill and overlay existing. LPA: 18' lane with 4' paved shoulder and 6' grassed shoulder (9' w/ guardrail). RPA & RPB: 16' lane with 4' paved shoulder on each side with varying grass shoulder. RPC: Variable 0'-12' lane on the left side of the existing ramp with 4' paved shoulder and 6' grassed shoulder (9' w/ guardrail). See project typical for more detailed information.			I-40: Open Shoulder Section, 2 paved lanes (24' total), 3' paved shoulder on each side. Varying fill and cut slopes. Y1 (SR 1534): 2'-6" curb and gutter, 4 paved lanes (total 48') with raised median and varying width. All ramps varying in width (15'-19'). RPC includes open shoulder section on each side with 3' paved shoulders on each side. Varying cut and fill slopes. RPB includes 2'-6" curb and gutter.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	77200	Year:	2040	Existing:	69049	Year:	2020

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

The North Carolina Department of Transportation (NCDOT) has proposed to improve the interchange of I-40 and Lenoir Rhyne Boulevard (SR 1534) in Hickory, NC. There are no proposed structures involved with the improvements to I-40 and Lenoir Rhyne Boulevard. All drainage improvements have been designed to have as little environmental and surface water impacts as possible. Coir fiber, matting, and rip rap were utilized for bank stabilization where necessary in an attempt to reduce sediment transport and streambank erosion. Grassed swales were used when possible. Rip-rap was utilized in ditches to provide stabilization to prevent erosion. Within the project limits there are jurisdictional streams and one wetland. Velocities at jurisdictional features are non-erosive.



North Carolina Department of Transportation

Highway Stormwater Program  
**STORMWATER MANAGEMENT PLAN**  
 FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element: 50133.1.FS1      TIP/Proj No.: I-5716      County(ies): Catawba      Page 2 of 2

**General Project Information**

**Waterbody Information**

Surface Water Body (1):	Clark Creek		NCDWR Stream Index No.:	11-129-5-(0.3)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	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?	N/A
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):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?		Comments:			
NRTR Stream ID:				Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

Surface Water Body (3):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?		Comments:			
NRTR Stream ID:				Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

7/2/99  
09/06/99

See Sheet 1A For Index of Sheets  
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PERMIT DRAWING  
SHEET 1 OF 8**  
DATE: 3/6/2026

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5716	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50133.1.FS1	NHPP-040-2(166)131	PE	
50133.2.1	NHPP-0402(166)	RW & Util.	

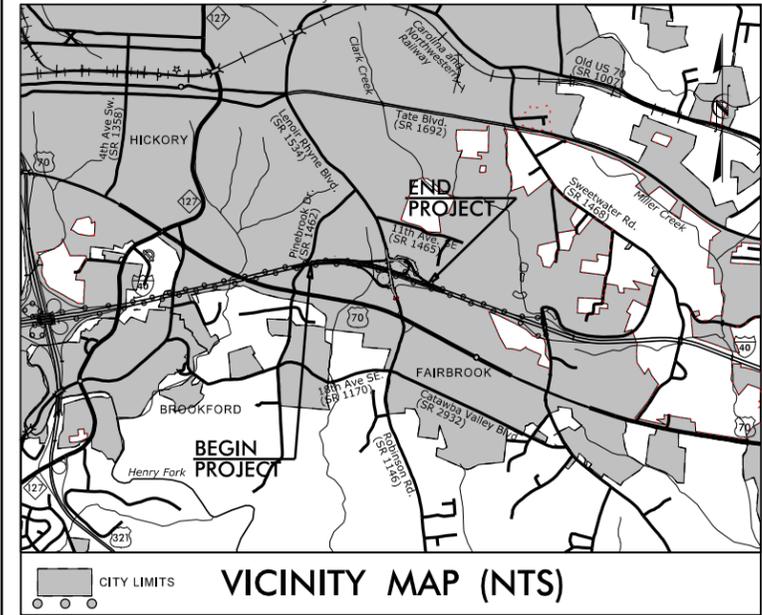
**CATAWBA COUNTY**

LOCATION: I-40 AND SR 1007 (LENOIR RHYNE BOULEVARD) INTERCHANGE  
TYPE OF WORK: DRAINAGE, SIGNALS, PAVEMENT MARKINGS,  
GRADING, & PAVING

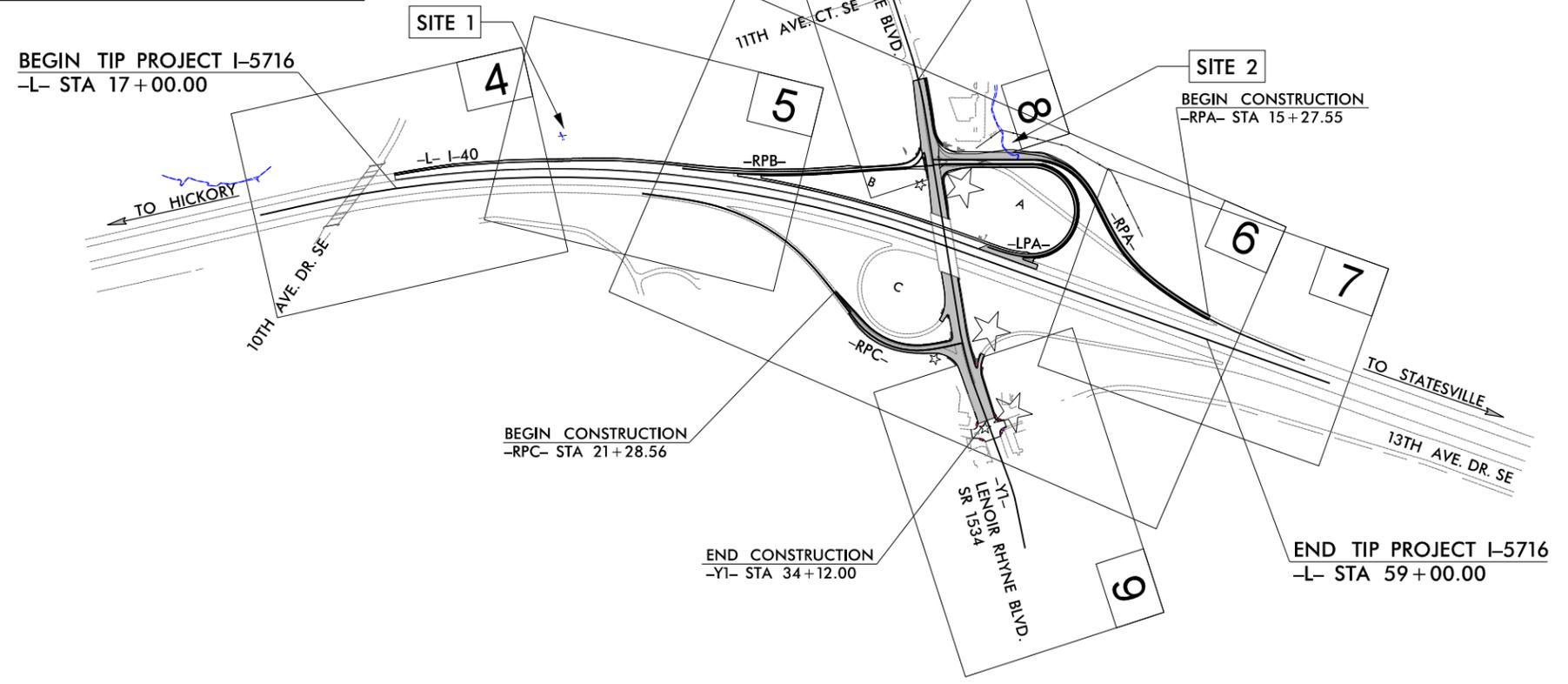
**WETLAND AND SURFACE WATER IMPACTS PERMIT**



**TIP PROJECT: I-5716**



RIGHT OF WAY PLANS



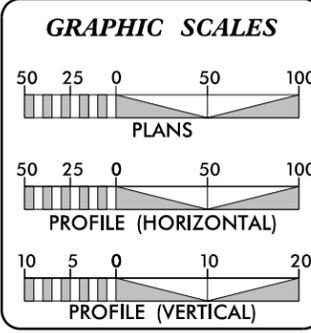
- NOTES:  
1. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.  
2. THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.  
3. THIS PROJECT IS LOCATED WITHIN THE MUNICIPAL BOUNDARY OF THE TOWN OF HICKORY.



**PROGRESS PLANS  
07-08-2025**

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT:**



**DESIGN DATA**

ADT 2020 =	69049
ADT 2040 =	77200
K =	9 %
D =	55 %
T =	10 % *
V =	70 MPH
* TTST =	7% DUAL=3%
TIER =	STATEWIDE
FUNC CLASS =	INTERSTATE

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT I-5716 =	0.795 MI.
LENGTH STRUCTURE TIP PROJECT I-5716 =	0.000 MI.
TOTAL LENGTH TIP PROJECT I-5716 =	0.795 MI.

Prepared for the North Carolina Department of Transportation in the Office of:  
**AMT**  
A. MORTON THOMAS AND ASSOCIATES, INC.  
CONSULTING ENGINEERS  
6011 FALLS OF ASHE ROAD, SUITE 100, RALEIGH, NC 27609  
(919) 855-9889 FAX (919) 855-5047  
EMAIL: AMT@AMTENGINEERING.COM

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
JULY 19, 2019

LETTING DATE:  
JULY 21, 2026

JASON GADDY, PE  
PROJECT ENGINEER

AUSTIN CARPENTER, EIT  
PROJECT DESIGN ENGINEER

JON LOUGHRY  
NCDOT CONTACT

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.



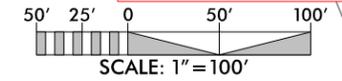
3/6/2026  
15716\_Hyd\_prm\_wet\_psh\_01.dgn  
JS-Fanovich

8/12/2026  
3/6/2026  
13th Ave Dr SE  
J.S. Sarno/ach



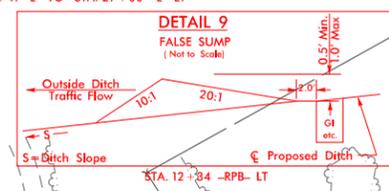
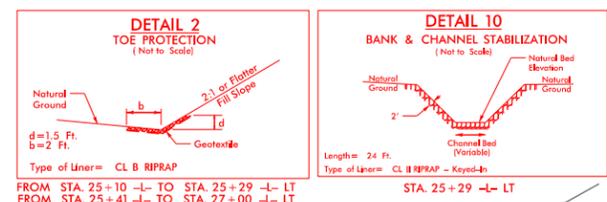
# SURFACE WATER IMPACTS

**PERMIT DRAWING  
SHEET 2 OF 8**  
DATE: 3/6/2026

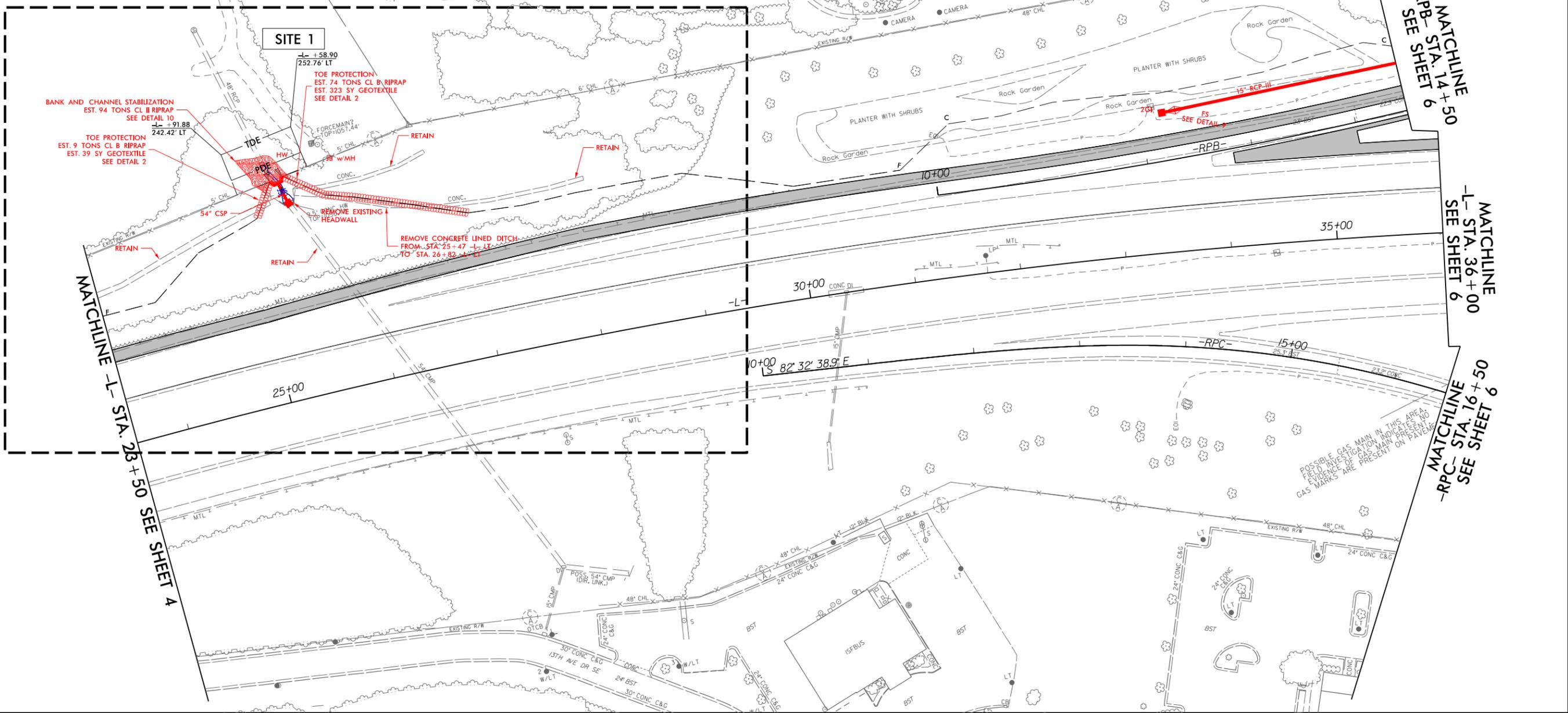


MD 83/2011

PROJECT REFERENCE NO. 1-5716	SHEET NO. 5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</b>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
 <small>A. MORTON THOMAS AND ASSOCIATES, INC. CONSULTING ENGINEERS 4121 FALLS OF NEUSE ROAD, SUITE 100, RALEIGH, NC 27609 PHONE: 919.876.8200 FAX: 919.876.8201 EMAIL: AMT@AMTENGINEERING.COM NCBELS LICENSE # F-1049</small>	
FOR -RPB- PROFILE SEE SHT. 12	



SEE SHEET DRAWING SHEET 4 OF 8 FOR ENLARGEMENT



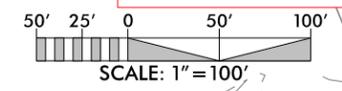
3/6/2026  
13th Ave Dr SE  
J.S. Sarno/ach

3/16/2026 11:16:16 C:\p\m\_wet\_psh\_05-1.dgn J.S. Sarno/ach

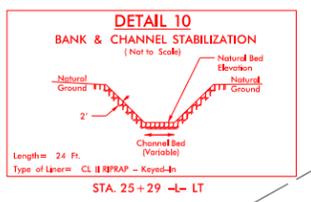
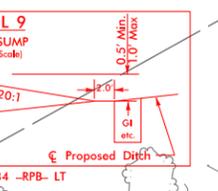
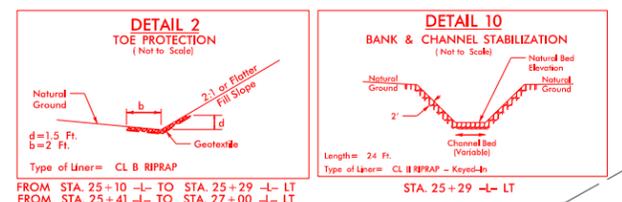
# SURFACE WATER IMPACTS

**PERMIT DRAWING  
SHEET 3 OF 8**  
DATE: 3/6/2026

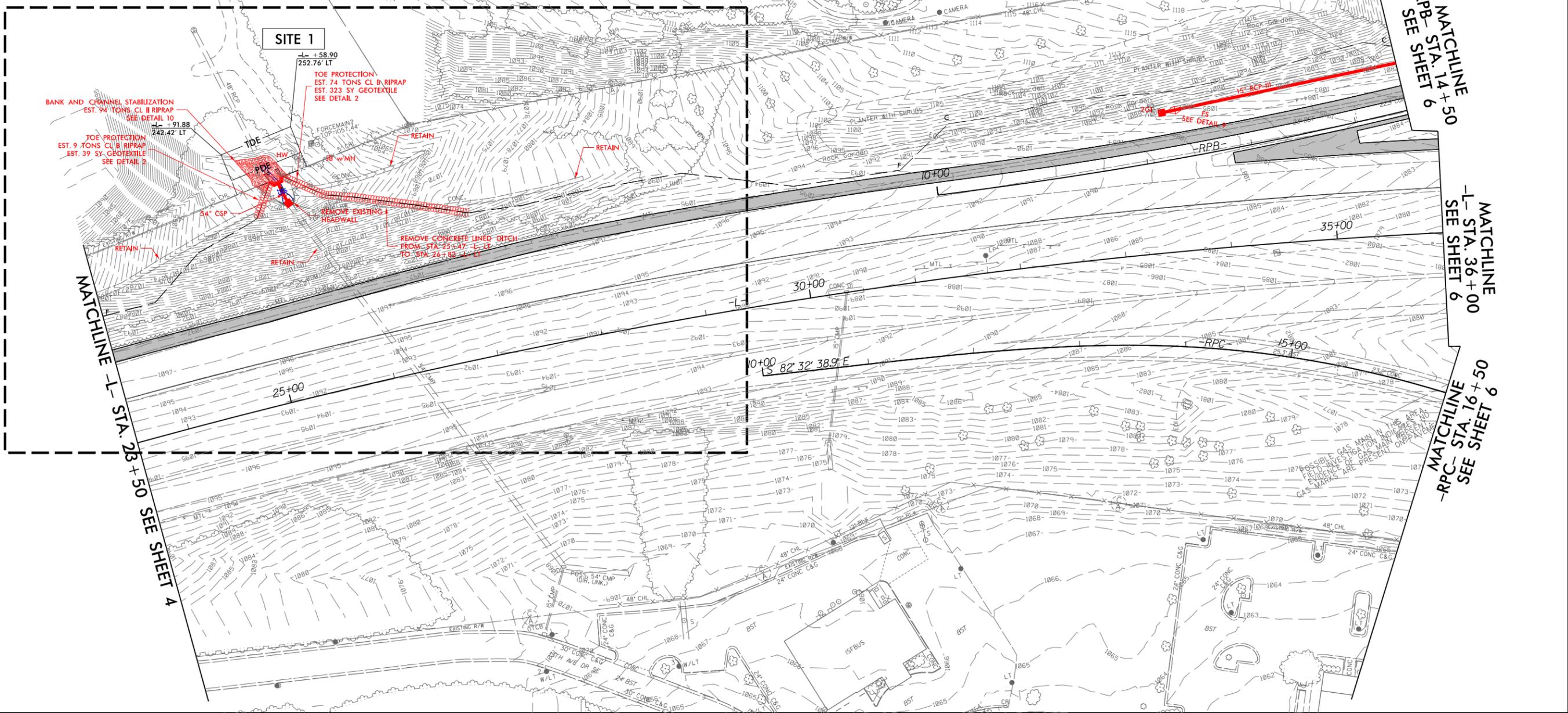
PROJECT REFERENCE NO. 1-5716	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
<b>AMT</b> A. MORTON THOMAS AND ASSOCIATES, INC. CONSULTING ENGINEERS 4613 FALES OF NEUSE ROAD, SUITE 100, RALEIGH, NC 27609 PHONE: 919.876.8300 FAX: 919.876.8301 EMAIL: AMT@AMTENGINEERING.COM NCBELS LICENSE # F-1049	



NAD 83/2011



SEE SHEET DRAWING SHEET 4 OF 8 FOR ENLARGEMENT



MATCHLINE -RPB- STA. 14+50 SEE SHEET 6

MATCHLINE -L- STA. 36+00 SEE SHEET 6

MATCHLINE -RPC- STA. 16+50 SEE SHEET 9

MATCHLINE -L- STA. 23+50 SEE SHEET 4

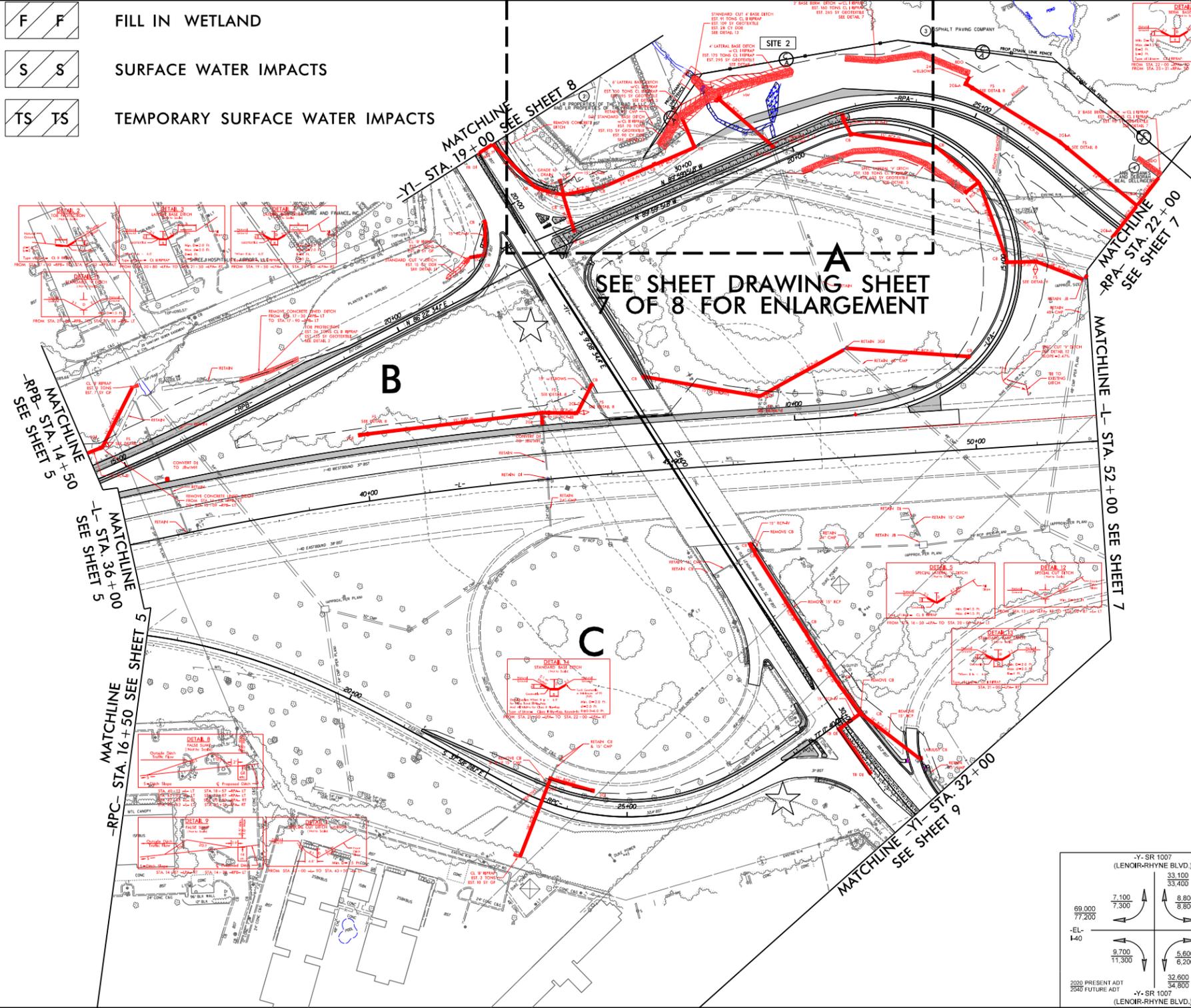


REVISIONS	
F	F
S	S
TS	TS

- F F** FILL IN WETLAND
- S S** SURFACE WATER IMPACTS
- TS TS** TEMPORARY SURFACE WATER IMPACTS

PROJECT REFERENCE NO.	SHEET NO.
1-5716	5
ROADWAY DESIGN ENGINEER	HYDROLOGIC ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
<small>AMT</small> AMT CONSULTANTS, INC. 1000 W. 10TH AVENUE, SUITE 100 DENVER, CO 80202 TEL: 303.733.1000 FAX: 303.733.1001 WWW.AMTCONSULTANTS.COM	
FOR -LPA- PROFILE SEE SHT. 10	FOR -RPA- PROFILE SEE SHT. 11
FOR -RPA- PROFILE SEE SHT. 11	FOR -RPA- PROFILE SEE SHT. 12

**PERMIT DRAWING**  
**SHEET 5 OF 8**  
DATE: 3/6/2026



-Y- SR 1007 (LENOIR-RHYNE BLVD.)	
33.100	33.400
7.100	8.800
7.300	8.800
69.000	66.700
77.200	73.600
-EL- I-40	-EL- I-40
9.700	5.600
11.300	6.200
2020 PRESENT ADT	32.600
2020 FUTURE ADT	34.800
-Y- SR 1007 (LENOIR-RHYNE BLVD.)	

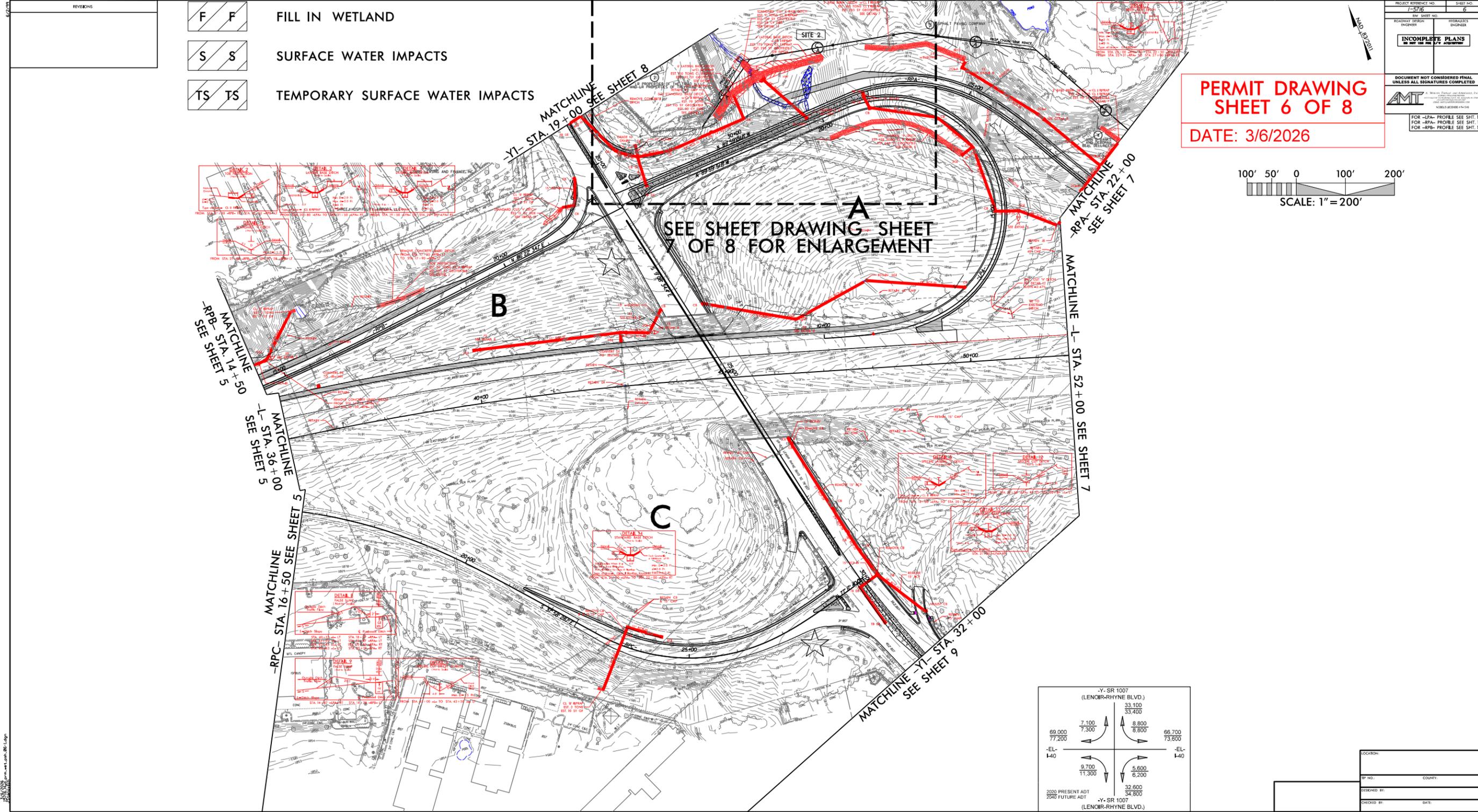
LOCATION:	
TR. NO.:	COUNTY:
DESIGNED BY:	
CHECKED BY:	DATE:

REVISIONS	

- F F FILL IN WETLAND
- S S SURFACE WATER IMPACTS
- TS TS TEMPORARY SURFACE WATER IMPACTS

PROJECT REFERENCE NO. 1-5716	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> <small>DO NOT USE FOR ANY PURPOSE</small>	
<small>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</small>	
<b>AMT</b> <small>A. M. T. ENGINEERING AND ARCHITECTURE, P.C. 1000 W. 10TH AVENUE, SUITE 100 DENVER, CO 80202 TEL: 303.733.1000 FAX: 303.733.1001 WWW.AMT-ENGINEERING.COM</small>	
<small>FOR -LPA- PROFILE SEE SHT. 10 FOR -RPA- PROFILE SEE SHT. 11 FOR -RFB- PROFILE SEE SHT. 12</small>	

**PERMIT DRAWING**  
**SHEET 6 OF 8**  
DATE: 3/6/2026



-Y- SR 1007 (LENOIR-RHYNE BLVD.)	
33.100	33.400
7.100	8.800
7.300	8.800
69.000	66.700
77.200	73.600
-EL- I-40	-EL- I-40
9.700	5.600
11.300	6.200
2020 PRESENT ADT	32.600
2020 FUTURE ADT	34.800
-Y- SR 1007 (LENOIR-RHYNE BLVD.)	

LOCATION:	
TR. NO.:	COUNTY:
DESIGNED BY:	
CHECKED BY:	DATE:



**WETLAND AND SURFACE WATER IMPACTS SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	25+23 to 25+46-L-LT	ROADWAY FILL							0.003		22	
		CHANNEL							0.002		25	
2	28+02 to 29+36-RPA-RT	ROADWAY FILL	0.020						0.017		149	
		CHANNEL							0.006		53	
		DEWATER								0.002		12
<b>TOTALS*:</b>			<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.03</b>	<b>0.00</b>	<b>249</b>	<b>12</b>	<b>0</b>

\*Rounded totals are sum of actual impacts

NOTES:

Site 2: Wetlands are Total Take

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 08/25/2025  
 CATAWBA COUNTY  
 I-5716  
 50133.1.FS1