

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

February 1, 2024

MEMORANDUM TO: Division Environmental and Construction Units

FROM: Michael A. Turchy, ECAP Group Leader

Environmental Analysis Unit

SUBJECT: Environmental Permits for the Widening of East John Street – Old Monroe

Road in Mecklenburg and Union County, Division 10, TIP: U-4714.

Please find enclosed the following permits for this project:

Agency	Permit Type	Permit Expiration
US Army Corps of Engineers Section 404 Clean Water Act Permit	Regional General Permit 50	May 25, 2025
NC Division of Water Resources Section 401 Water Quality Certification	General Certification No. 4135 [RGP50]	May 25, 2025

Work is authorized by the above referenced permit provided it is accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group or the Division Environmental Office must be consulted if any deviation from the permit(s) or accompanying drawings is required.

Telephone: (919) 707-6000

Customer Service: 1-877-368-4968

Website: www.ncdot.gov

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

PROJECT COMMITMENTS

T.I.P Project No. U-4714

East John Street – Old Monroe Road (SR 1009) Widening
from Trade Street (SR-3448/SR-3474) to east of SR 1377 (Wesley Chapel-Stouts Road)

Mecklenburg and Union County

WBS Element 39078.1.2 & 39078.1.6

U-4714 - COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

Traffic and Transportation – Division 10, Roadway Design

NCDOT's Division 10 Traffic Engineer will coordinate with the communities during final project design to determine posted speed limits and will continue to look for ways to reduce impacts where feasible through final design.

Bicycle/Pedestrian - Division 10, PMU, Roadway Design, Bike and Ped

NCDOT Division 10/Project Management Unit (PMU)/Roadway Design Unit/Division of Bicycle and Pedestrian Transportation will ensure that landscaping and pedestrian and bicycle accommodations will be further coordinated with the communities during final design. The Towns of Matthews, Stallings, and Indian Trail will participate in the cost of new sidewalks and multi-use paths where they do not currently exist. Municipal Agreements will be prepared prior to project construction to formalize their financial obligations in regard to sidewalk and multi-use path construction. NCDOT Division 10/Project Management Unit/Roadway Design Unit/ Division of Bicycle and Pedestrian Transportation will coordinate with the Towns of Matthews, Stallings, and Indian Trail regarding the type and location of pedestrian/bicycle crossings at major intersections.

Community Resources - Division 10, PMU, Roadway Design

NCDOT Division 10/Project Management Unit/Roadway Design Unit will continue to minimize impacts to the extent feasible during final design. NCDOT's Project Management Unit and Division 10 will coordinate with schools and fire/EMS on any detours during construction. Specifically, appropriate detour routes will be identified for Sun Valley school buses, Stallings Volunteer Fire Station 20 (4616 Old Monroe Road), and Union County MED 51 Base (100 Williams Rescue Road) prior to construction.

Relocations and Property Acquisitions - Division 10, PMU, Roadway Design, ROW

NCDOT Division 10/Project Management Unit/Roadway Design Unit will continue to minimize impacts to the extent feasible during final design. NCDOT's Right of Way (ROW) Unit will use three programs to minimize the inconvenience of relocation: Relocation Assistance, Relocation Moving Payments, and Relocation Replacement Housing Payments or Rent Supplement. These programs are in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970. Comparable replacement housing and business space is available in the Project area for displaced homeowners, tenants, and businesses.

Noise – Division 10

Division 10 and the contractor will be responsible for ensuring that low cost and easily implemented construction noise control measures will be incorporated during construction to the extent practicable.

Utilities

NCDOT's Utilities Unit will coordinate with all utility providers during final design and construction to prevent damage to utility systems and to minimize disruption and degradation of utility service to local customers.

Hazardous Materials - Geoenvironmental

NCDOT's Geoenvironmental Unit will complete further assessments on properties as necessary prior to right of way acquisition.

Floodplains and Floodways and Hydrology - Hydraulics

NCDOT's Hydraulics Unit will coordinate with FEMA and local authorities to ensure compliance with applicable floodplain management ordinances. Since this project involves construction on or adjacent to FEMA regulated streams, NCDOT Division 10 shall submit sealed as-built construction plans to NCDOT's Hydraulics Unit upon completion of project construction, certifying that the drainage structures and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

<u>Cultural Resources – PMU, EAU</u>

NCDOT's Project Management Unit and NCDOT's Environmental Analysis Unit (EAU) will review final plans to ensure the following applicable conditions are met to maintain the No Adverse Effect determinations:

Reid House

- No construction in right-of-way
- No drainage easements
- No permanent utility easements
- Only replace curb and gutter
- Keep existing sidewalk
- No tree removal

Banks H Funderburk Store (a.k.a. Rock Store Bar-B-Q)

- No right-of-way
- No permanent drainage easements

Banks and Carolyn Funderburk House

- No right-of-way
- No easements
- Minimize tree removal
- No permanent utility easements
- No permanent drainage easements

Section 4(f) - Division 10, PMU, Roadway Design

NCDOT Division 10/Project Management Unit/Roadway Design Unit will ensure that final design and construction within Section A shall avoid any impacts to the Four Mile Creek Greenway entrance on East John Street west of the I-485 interchange.

U-4714 - COMMITMENTS FROM PERMITTING

<u>404 Special Condition #3</u>: The permittee agrees to implement the follow conservation measures for the NCDOT U-4714, East John Street-Old Monroe Road (SR 1009) widening project in Mecklenburg and Union Counties:

- a. Tree clearing will take place from October 16 to March 31.
- b. Culvert structures > 3 feet in manufactured diameter within the action area will be surveyed for bats and signs of bat use within 2 weeks of project construction.
- c. Blasting and other percussive activities will occur after tree clearing has occurred.
- d. Temporary lighting associated with night work will be downcast, will be aimed at the active work area to maintain safe working conditions, and will be turned off when not needed for construction activities.
- e. No additional permanent lighting will be added to the roadway.

404 Special Condition #5: This permit only authorizes work on Sections AC and B of TIP U-4714. Construction on Sections AA of TIP U-4714 shall not commence until all the following occur: (a) final design has been completed for this section and submitted to the U.S. Army Corps of Engineers (Corps); (b) the Permittee has minimized impacts to waters and wetlands to the maximum extent practicable and the Corps concurs with this assessment; (c) any modification to the plans have been approved by the Corps in writing; and (d) a final compensatory mitigation plan has been submitted by the Permittee and approved by the Corps.

U.S. ARMY CORPS OF ENGINEERS

WILMINGTON DISTRICT

Action Id. <u>SAW-2013-01090</u> County: <u>Mecklenburg & Union</u> U.S.G.S. Quad: <u>NC-Matthews</u>

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee: North Carolina Department of Transportation

attn: Ms. Erin Cheely

Address: 1598 Mail Service Road

Raleigh, North Carolina 27699-1598

Telephone Number: (919) 707-6008
E-mail: ekcheely@ncdot.gov

Size (acres) approximately 235 acres Nearest Town Nearest Waterway Price Mill Creek River Basin Santee

USGS HUC <u>03050103</u> Coordinates Latitude: <u>35.059718</u>

Longitude: <u>-80.662431</u>

Location description: The NCDOT U-4714 project is located along an approximately 6.5-mile-long segment of the existing East John Street-Old Monroe Road (SR 1009) corridor from its intersection with Trade Street (SR 3448/3474) in Matthews, Mecklenburg County to its intersection with Wesley Chapel-Stouts Road (SR 1337) in Indian Trail, Union County, North Carolina.

Description of projects area and activity: This verification authorizes the widening the existing two lane East John Street-Old Monroe Road (SR 1009) along U-4714 AC which includes widening of East John Street-Old Monroe Road (SR 1009) from East I-485 to a location west of Morningside Meadow Lane and U-4714 B which includes widening of East John Street-Old Monroe Road (SR 1009) from a location west of Morningside Meadow Lane to a location east of Wesley Chapel-Stouts Road (SR 1337).

Within the U-4714 project is Section U-4714AA which is a future (currently unfunded) section that includes widening East John Street-Old Monroe Road (SR 1009) from Trade Street (SR 3448/3474) to I-485. This authorization includes plans and preliminary impacts for U-4714 AA. However, impacts within Section U-4714 AA are not authorized by this RGP-50 and if NCDOT receives funding for this section and develops final designs for this section, NCDOT will apply for authorization for U-4714 AA section and will provide mitigation for permanent impacts that result in loss of waters within this section. This U-4714 project will include the following impacts (broken out by separate sections):

Section U-4714-AC

Site ID #	Wetland Impact Temp.	Wetland Impact Perm.	Stream Impact Temp.	Stream Impact Perm.
	<u>(ac)</u>	<u>(ac)</u>	<u>(lf)</u>	<u>(lf)</u>
Site #1, twin cell 5 x 6			<u>37</u>	<u>96</u>
RCBC extension				
Site #1b & #1c Inlet &				<u>81</u>
outlet channel				
protection (total)				
Site #2a, Roadway fill			<u>8</u>	<u>395</u>
Site #2b RCP outlet and	1.07 ac Open Water	0.01 ac Open Water		
dewatering (Open	dewatering			
<u>Water</u>)				
Site #3a, 60" diameter				<u>138</u>
<u>pipe</u>				
Site #3b & #3c Inlet &			<u>25</u>	<u>79</u>
outlet protection (total)				
Site #4a, 42" dimeter			14	<u>27</u>
pipe			_	_
Site #4b Outlet				<u>31</u>
<u>protection</u>				

Site ID#	Wetland Impact	Wetland Impact	Stream Impact Temp.	Stream Impact Perm.	
	Temp. (ac)	Perm. (ac)	<u>(lf)</u>	<u>(lf)</u>	
Site #5, Roadway fill		<u>0.03</u>			
Site #6a, Roadway fill				<u>28</u>	
Site #6b cut/fill			<u>9</u>	<u>42</u>	
Site #7, Roadway fill		<u>0.28 fill & <0.01</u>			
		mechanical clearing			
<u>Site #8</u>	0.03 hand clearing	<0.01 mechanical			
		<u>clearing</u>			
Site #9		<u>0.02 fill & <0.01</u>			
		mechanical clearing			
TOTAL IMPACTS	1.07 Open water	0.01 Open Water	<u>93</u>	<u>917 total</u>	
	<u>0.03 wetlands</u>	0.34 wetlands			
Total loss of waters of	<u>0.</u> .	34	Total loss of waters of	<u>881</u>	
the U.S. (wetlands)			the U.S. (stream)	_	
Required Wetland	<u>0.</u> .	<u>34</u>	Required Stream	<u>881</u>	
Mitigation (ac)			Mitigation (lf)		

Section U-4714 B (including utilities)

Site ID #	Wetland Impact Temp.	Wetland Impact Perm.	Stream Impact Temp.	Stream Impact Perm.
	(ac)	<u>(ac)</u>	<u>(lf)</u>	<u>(lf)</u>
Utility site #1, water	0.002			
line relocation				
Utility site #2, water	<u>0.001</u>			
line relocation				
Utility site #3, water	<u>0.002</u>			
line relocation				
<u>Utility site #4, water</u>	<u>0.001</u>			
<u>line relocation</u>				
Site #1, 72" diameter			<u>88</u>	<u>235</u>
<u>pipe</u>				
Site #2, 24" diameter			<u>23</u>	<u>73</u>
pipe				
Site #3a & #3b, 6' x 6'			<u>112</u>	<u>172</u>
<u>RCBC</u>				
Site #3c, Outlet	0.063 hand clearing	<0.01 fill		
protection				
Site #4, 36" diameter		<u>0.036 total</u>	<u>18</u>	
RCP				
Site #5 armoring				<u>28</u>
TOTAL IMPACTS	<u>0.069</u>	<u>0.04</u>	<u>241</u>	<u>508</u>
Total loss of waters of	0.	<u>04</u>	Total loss of waters of	<u>508</u>
the U.S. (wetlands)			the U.S. (stream)	
Required Wetland	0.	04	Required Stream	<u>508</u>
Mitigation (ac)			Mitigation (lf)	

Section Future U-4714 AA (preliminary impacts)

Site ID #	Wetland Impact Temp.	Wetland Impact Perm.	Stream Impact Temp.	Stream Impact Perm.	
	<u>(ac)</u> <u>(ac)</u>		<u>(lf)</u>	<u>(lf)</u>	
<u>U-4714 AA</u>			<u>61</u>	<u>223</u>	
TOTAL IMPACTS	<u>0</u>	<u>0</u>	<u>61</u>	<u>223</u>	
Total loss of waters of	0		Total loss of waters of	223	
the U.S. (wetlands)	_	-			
Required Wetland			Required Stream		
Mitigation (ac)			Mitigation (lf)		

This project U-4714 (all sections) will include a total of 2,043 linear feet (lf) both permanent and temporary impacts to streams. This includes permanent placement of fill/structures in 1,648 lf of streams and temporary impacts to 395 of streams from dewatering activities. In addition, this project will include the placement of fill/cut/mechanical clearing of 0.38 ac of wetland, temporary impacts from hand clearing/utility placement of 0.099 acres of wetland, dewatering of 1.07 acre of an impoundment and placement of fill in 0.03 acre of an impoundment.

This authorization specifically includes the construction of U-4714 AC and U-4714B only. These sections will include the authorization of the impacts for Sections U-4714 AC and U-4714B, the permanent loss of waters (streams and wetlands), and the requirement of compensatory stream and wetland mitigation for these sections.

Applicable Law(s): Section 404 (Clean Water Act, 33 USC 1344)

Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit (RGP)-50

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

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached Conditions, your application signed and dated 1/16/2023, and the enclosed Plan/Sheets 1-29 of 29 entitled, "NCDOT TIP Project U-4714B dated September 12, 2023, Plan Sheets 1-16 of 16 entitled, "NCDOT TIP Project U-4714B" dated September 12, 2023, Plan Sheets 1-3 of 3 entitled, "NCDOT TIP Project U-4714B, water line relocation" dated June 8, 2023, and Plan Sheets 1-15 of 15 entitled, "NCDOT TIP Project U-4714AA" dated August 3, 2023. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

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

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

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

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State, or local approvals/permits. If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **Stephen A. Brumagin at (704) 798 6471or stephen.a.brumagin@usace.army.mil**.

Monte 2024.01.19 Matthews 14:31:13-05'00'

Corps Regulatory Official: _________Date: <u>1/19/2024</u>

Expiration Date of Verification: 5/25/2025

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0

Attachments

Plans Exhibit A, Concurrence Form for Assessment of Affect 401 WQC GC# 4135 RGP-50

Copy furnished:

North Carolina Department of Transportation, Division 10 Mr. Joel Howard, PDEA imhoward@ncdot.gov

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 November 16, 2023. 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 permittee agrees to implement the follow conservation measures for the NCDOT U-4714, East John Street-Old Monroe Road (SR 1009) widening projec in Mecklenburg and Union Counties:
 - a. Tree clearing will take place from October 16 to March 31.
 - b. Culvert structures > 3 feet in manufactured diameter within the action area will be surveyed for bats and signs of bat use within 2 weeks of project construction.
 - c. Blasting and other percussive activities will occur after tree clearing has occurred.
 - d. Temporary lighting associated with night work will be downcast, will be aimed at the active work area to maintain safe working conditions, and will be turned off when not needed for construction activities.
 - e. No additional permanent lighting will be added to the roadway.
- 4. 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.
- 5. This permit only authorizes work on Sections AC and B of TIP U-4714. Construction on Sections AA of TIP U-4714 shall not commence until all the following occur: (a) final design has been completed for this section and submitted to the U.S. Army Corps of Engineers (Corps); (b) the Permittee has minimized impacts to waters and wetlands to the maximum extent practicable and the Corps concurs with this assessment; (c) any modification to the plans have been approved by the Corps in writing; and (d) a final compensatory mitigation plan has been submitted by the Permittee and approved by the Corps.
- 6. NCDOT shall abide by all stipulations identified in the Concurrence Form for Assessment Affects between the NCDOT, FHWA and the North Carolina State Historic Preservation Officer, executed on October 20, 2015, copy attached and identified as Exhibit A.

Action ID Number: <u>SAW-2013-01090</u>	County: Mecklenburg & Union
Permittee: North Carolina Department of Transpor	tation, attn: Ms. Erin Cheely
Project Name: <u>NCDOT U-4714 AC & U-4714 B, Ea</u> widening project in Mecklenburg and Union Co	
Date Verification Issued: 1/19/2024	
Project Manager: <u>Stephen A. Brumagin</u>	
Upon completion of the activity authorized by this posign this certification, and return it to the following a	
US ARMY CORP	S OF ENGINEERS
WILMINGTO	ON DISTRICT
Attn: Stepher	n A. Brumagin
Charlotte Reg	gulatory Office
U.S Army Cor	ps of Engineers
8430 University Executi	ive Park Drive, Suite 615
Charlotte, North	h Carolina 28262
	or
stephen.a.brumag	in@usace.army.mil
Please note that your permitted activity is subject to Engineers representative. Failure to comply with an result in the Corps suspending, modifying, or revoki administrative penalty, or initiating other appropria	y terms or conditions of this authorization may ng the authorization and/or issuing a Class I
I hereby certify that the work authorized by the aboraccordance with the terms and condition of the said accordance with the permit conditions.	
Signature of Permittee	Date

SAW-2013-01090 NCDOT U-4714 EXHIBIT A Page 1 of 2

Federal Aid #: STPDA-1009(16) TIP#: U-4714 County: Mecklenburg & Union

CONCURRENCE FORM FOR ASSESSMENT OF EFFECTS

Project Description: Improve SR 1009 (John St/Old Monroe Rd) from SR 3448/SR 3474 (Trade St) to SR 1377 (Wesley Chapel/Stout Rd) in Matthews, Stallings, and Indian Trail.

•		
On Oct	ober 20, 2015, representatives of the	
\boxtimes	North Carolina Department of Transportation (NCDOT) Federal Highway Administration (FHWA) North Carolina State Historic Preservation Office (HPO) Other United States Army Corps of Engineers (USACE)	
	yed the subject project and agreed on the effects findings listed wire of this signature page.	thin the table on the
Signed	:	
Repres	helby Reap entative, NCDOT	Oct 20, 2 015
EUWA	for the Division Administrator, or other Federal Agency	10-20-15 Date
Pen	ee Bledhill-Eales	10.20.15
Repres	entative, HPO	Date
State H	listoric Preservation Officer	Date

Federal Aid #: STPDA-1009(16)

TIP#: U-4714

County: Mecklenburg & Union

Property and Status	Alternative	Effect Finding	Reasons
Matthews National Register Commercial Historic District (MK1417) NR		no effect	to changes to Thader St.
Reid House (MK1191) DE		no arerx effect	no pues; and replace who & gutter; keep exsting sidewalle. No tree removal.
Rowland-Clay House (MK2301) DE		no offert	out side construction were
Banks H. Funderburk Store (UN0125) DE, LL		no adverse effect with conditions	may reget remove planting stripfrom plans, no Dermanent draining exsenents
Banks and Carolyn Funderburk House (UN1200) DE		no adverse effect Woonditions	no policy no easements, minimite the removal No PVES, NO PDES.

FHWA intends to use SHPO's concurrence as a basis of a "de minimis" finding for the following properties, pursuant to Section 4(f):

HPO

FHFF

NCDOT SLA

Initialed:

U.S. ARMY CORPS OF ENGINEERS

Wilmington District

Compensatory Mitigation Responsibility Transfer Form

Permittee: North Carolina Department of Transportation, Ms. Erin Cheely
Project Name: NCDOT U-4714AC
County: Mecklenburg & Union

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: 03050103, Catawba River Basin

Strea	m Impacts (linea	r feet)		Wetland Impacts (ad	res)	
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
811			0.03			

^{*}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: 03050103, Catawba River Basin

Stream	Mitigation (credi	ts)	Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
1,622			0.06			

Mitigation Site Debited: NCDMS

(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: NCDEQ - [DMS	
Name of Sponsor's Authorized Representative:	Beth Harmon	
Clizabeth Harmon		01/23/2024
Signature of Sponsor's Authorized Representative		Date of Signature

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 approved impacts for NCDOT U-4714AC in Catawba River Basin on November 9, 2023.

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 A. Brumagin

USACE Field Office: Charlotte Regulatory Office

US Army Corps of Engineers

8430 University Executive Park Drive, Suite 615

Charlotte, North Carolina 28262

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

Digitally signed by

BRUMAGIN.STEPHEN.A.1283520

Date: 2024.02.05 11:34:52 -05'00'

USACE Project Manager Signature

2/5/2024 **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.

U.S. ARMY CORPS OF ENGINEERS

Wilmington District

Compensatory Mitigation Responsibility Transfer Form

Permittee: North Carolina Department of Transportation, Ms. Erin Cheely
Project Name: NCDOT U-4714AC
Action ID: SAW-2013-01090
County: Mecklenburg & Union

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: 03040105, Yadkin River Basin

Strear	m Impacts (linea	r feet)		Wetland Impacts (ad	cres)	
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
70			0.31			

^{*}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: 03040105, Yadkin River Basin

Stream Mitigation (credits)				Wetland Mitigation (d	credits)	
Warm	Warm Cool Cold		Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
140			0.62			

Mitigation Site Debited: NCDMS

(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: NCDEQ - DMS	3
Name of Sponsor's Authorized Representative:	Beth Harmon
Clizabeth Harmon	01/23/2024
Signature of Sponsor's Authorized Representative	Date of Signature

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 approved impacts for NCDOT U-4714AC in Yadkin River Basin on November 9, 2023.

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 A. Brumagin

USACE Field Office: Charlotte Regulatory Office

US Army Corps of Engineers

8430 University Executive Park Drive, Suite 615

Charlotte, North Carolina 28262

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

Digitally signed by

BRUMAGIN.STEPHEN.A.12835

20737

Date: 2024.02.05 11:32:02

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2/5/2024

USACE 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.

U.S. ARMY CORPS OF ENGINEERS

Wilmington District

Compensatory Mitigation Responsibility Transfer Form

Permittee: North Carolina Department of Transportation, Ms. Erin Cheely
Project Name: NCDOT U-4714B
County: Mecklenburg & Union

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.

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Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation* 8-digit HUC and Basin: 03050103, Catawba River Basin

Strea	m Impacts (linea	r feet)		Wetland Impacts (ad		
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
480						

^{*}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

8-digit HUC and Basin: 03050103, Catawba	River Basin
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Stream Mitigation (credits)				Wetland Mitigation (d	credits)	
Warm Cool Cold		Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal	
960						

Mitigation Site Debited: NCDMS

(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

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Mitigation Sponsor Name: NCDEQ -	DMS
Name of Sponsor's Authorized Representative:	Beth Harmon
Clizabeth Harmon	01/23/2024
Signature of Sponsor's Authorized Representative	Date of Signature

Conditions for Transfer of Compensatory Mitigation Credit:

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Comments/Additional Conditions: NCDMS approved impacts for NCDOT U-4714B in Catawba River Basin on November 9, 2023.

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 A. Brumagin

Style a B.

USACE Field Office: Charlotte Regulatory Office

US Army Corps of Engineers

8430 University Executive Park Drive, Suite 615

Charlotte, North Carolina 28262

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

Digitally signed by

BRUMAGIN.STEPHEN.A.128 3520737

Date: 2024.02.05 11:29:15

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USACE Project Manager Signature

2/5/2024

Date of Signature

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U.S. ARMY CORPS OF ENGINEERS

Wilmington District

Compensatory Mitigation Responsibility Transfer Form

Permittee: North Carolina Department of Transportation, Ms. Erin Cheely
Project Name: NCDOT U-4714B
County: Mecklenburg & Union

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.

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Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation*
8-digit HUC and Basin: 03040105, Yadkin River Basin

Strear	m Impacts (linea	r feet)		Wetland Impacts (ad	cres)	
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
28			0.04			

^{*}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:	03040105.	Yadkin	River Basin
o algit i localia		000.0100)	· aan	Tittel Basili

Stream	Stream Mitigation (credits)			Wetland Mitigation (d	credits)	
Warm Cool Cold		Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal	
56			0.08			

Mitigation Site Debited: NCDMS

(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).

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Mitigation Sponsor Name: NCDEQ -	DMS
Name of Sponsor's Authorized Representative:	Beth Harmon
Elizabeth Harmon	01/23/2024
Signature of Sponsor's Authorized Representative	Date of Signature

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Comments/Additional Conditions: NCDMS approved impacts for NCDOT U-4714B in Yadkin River Basin on November 9, 2023.

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 A. Brumagin

USACE Field Office: Charlotte Regulatory Office
US Army Corps of Engineers

8430 University Executive Park Drive, Suite 615

Charlotte, North Carolina 28262

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

Digitally signed by

BRUMAGIN.STEPHEN.A.128

Date: 2024.02.05 11:26:18

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USACE Project Manager Signature

2/5/2024

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.

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



January 29, 2024 Mecklenburg & Union County NCDWR Project No. 20231566 TIP-#U-4714 Widen/Improve SR 1168 WBS Element No. 39078.1.1

APPROVAL of 401 WATER QUALITY CERTIFICATION with ADDITIONAL CONDITIONS

Ms. Erin K. Cheely, Environmental Coordinator NCDOT Western Region 1598 Mail Service Center Raleigh, NC 27699-1598 EKCheely@NCDOT.gov

Dear Ms. Cheely:

You have our approval, in accordance with your application dated November 16, 2023, and with the conditions listed below, to impact Fourmile Creek, Davis Mine Creek, South Fork of Crooked Creek, and Price Mill Creek as part of a road widening/improvement project on Johns Street/Old Monroe Road (SR 1009). This approval replaces the approval issued to you on January 11, 2024.



Stream Impacts (linear feet of fill) in the Catawba River Basin.

Site		Perm. Fill in Perennial Stream (linear ft)		Perm. Fill in Intermittent Stream (linear ft)		Post/		Temp. Fill in Perennial Stream (linear ft)		in Perennial Stream (linear ft)		Temp. Fill in Intermittent Stream (linear ft)		Stream Impacts Requiring Mitigation (linear ft)
		Cul vert	Fill	Cul vert	Excavate	Fill	Bank/ Stab.	Cul vert	Fill	Cul vert	Bank / Stab.	Dewater		
1	AC 1A	96	-	2	-	_	_	37	2	_	2	12	96	
2	AC 1B	-	43	-	-	-	-	8	8	-	-	-	43	
3	AC 1C	2	38	-	F_00	120	=	2	=	-	-	Œ	38	
4	AC 2A	-	395	-	1=0	540	-	-	8	-	_	1-2	395	
5	AC 3A	-	-	138	:=0:	(=)	-	-	-	-	_	1-	138	
6	AC 3B	-	-	-	43	-	-	-	-	12	-	-	43	
7	AC 3C	-		-	-	(8=)	36	-	-	1-01	13	-	-	
8	AC 4A		-	27	: = s)		-	-	5	14	-	y-	27	
9	AC 4B		-	15.	-	31	-	-	-	-	-	11-7	31	
10	В1	-	-	-	-	235	-	-	•	2	-	88	235	
11	В2	2	-	73	(= 1)	fr a	_	-	_	_	-	23	73	
12	B 3A	-	-	10	-	-	-	-	-	-	-	112	10	
13	B 3B	*	-	162	-	-	-	-	-	-	-	18	162	
To	otal	96	476	410	43	266	36	37	8	26	13	241	1201	
1,	652	5	572		755			4	5	280			1291	

Total Stream Impacts for Catawba River Basin: 1,652 linear feet.



Stream Impacts (linear feet of fill) in the Yadkin Pee Dee River Basin.

Site		Perm. Fill in Perennial Stream (linear ft)	Perm. Fill in Intermittent Stream (linear ft)	Temp. Fill in Intermittent Stream (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
		Bank/ Stab.	Fill	Excavate	7.0
14	AC 6A	-	28		28
15	AC 6B	-	42	9	42
16	В5	28	-	-	28
Totals		28	70	9	O.S.
		28	70	y	98

Total Stream Impacts for Yadkin Pee Dee River Basin: 107 linear feet.

Total Stream Impacts for Project: 1,759 linear feet.



Wetland Impacts in the Catawba River Basin

Site		Permanent Fill (ac)			Tempora	Wetland Impacts	
		Culvert/Pipe Mech. Clearing		Hand Clearing	Hand Clearing	Line Relocate	Requiring Mitigation
1	B S3C	.001	2	_	.063		.001
2	B US 1	-	2	=	-	.002	3 2 3
3	B US 2	2	2	1 =	-	.001	140
4	B US 3	-	9	=	-	.002	
5	B US 4	H I	5	-	-	.001	-
6	AC S8		.001		.026	-	.001
7	AC S9	an .	.003	.021		-	.024
Totals		.001	.004	.021	.089	.006	
.121			.026		.0	95	.026

Total Wetland Impacts for Catawba River Basin: .121

Wetland Impacts in the Yadkin Pee Dee River Basin

Site			Wetland Impacts Requiring			
		Culvert/Pipe	Roadway Fill	Mech Clearing	Mitigation	
8	B S4	.036	-	(5)	.036	
9	AC S5	-	.031	-	.031	
10	AC S7		.277	.009	.286	
1	otals	.036	.308	.009	F .5	
	51		.353		.353	

Total Wetland Impacts for Yadkin Pee Dee River Basin: .353

Total Wetland Impact for Project: .474 acres.



Open Water Impacts in the Catawba River Basin

Site		Permanent Fill in Open Waters (ac)	Temporary Fill in Open Waters (ac)	Total Fill in Open Waters (ac)	
1	AC 2B	.01	-	.01	
2	AC 2B	(=)	1.07	1.07	
Total		.01	1.07	1.08	

Total Open Water Impact for Project: 1.08 acres.

After reviewing your application, we have decided that the proposed impacts are covered by General Water Quality Certification (GC) Number 4135. This GC corresponds to US Army Corps of Engineers Regional General Permit 201902350. In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations. This approval will expire with the corresponding 404 permit.

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter and is thereby responsible for complying with all the conditions. If total wetland fills for this project (now or in the future) exceed one tenth acre, or of total impacts to streams (now or in the future) exceed 300 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the attached certification(s) and any additional conditions listed below.

If you are unable to comply with any of the conditions of the Water Quality General Certification or with the additional conditions, you must notify the DWR Transportation Permitting Branch within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

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

Condition(s) of Certification:

Project Specific Conditions

- 1. 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)]
- The post-construction removal of any temporary bridge structures/causeways must return the project site to its
 preconstruction contours and elevations. The impacted areas shall be revegetated (where practicable) with
 appropriate native species. [15A NCAC 02H .0506(b)(2)
- Stormwater shall be directed to vegetated buffer areas, grass-lined ditches or other means appropriate within the
 project area for the purpose of pre-treating storm water runoff prior to discharging directly into streams. (15A
 NCAC 02B.0224 and .0225)



- 4. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(5)].
- No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters.
 This water shall be captured, treated, and disposed of properly. [15A NCAC 02H .0506(b)(3)

6. Off-Site Stream Mitigation

Compensatory mitigation for 1,389 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Division of Mitigation Service (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. The DMS has indicated in a letter dated November 9, 2023, that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the DMS Mitigation Banking Instrument signed July 28, 2010.

7. Off-Site Wetland Mitigation

Compensatory mitigation for impacts to .379 riverine wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Division of Mitigation Services (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated November 9, 2023 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.

General Conditions

- 1. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and 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)]
- If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
- 3. 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)]
- 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)]
- The dimension, pattern and profile of the stream above and below the crossing shall not be modified.
 Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
- 6. 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)]



- 7. 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)]
- 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)]
- All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from
 the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock
 berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A
 NCAC 02H.0506(b)(3) and (c)(3)]
- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
- 14. 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]
- 15. 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)]
- 16. A copy of this Water Quality Certification shall always be maintained on the construction site. In addition, the Water Quality Certification, and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
- 17. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
- 18. 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.
- 19. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer (or appointee) shall complete and return the enclosed "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(f)]
- 20. 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 02H.0506(b)(3) and (c)(3)]



- 21. 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)]
- 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 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. Where placement of sediment and erosion control devices in wetlands and/or waters is unavoidable, they shall be removed, and the natural grade restored upon completion of the project. [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, or for linear transportation projects, the NCDOT Sediment and Erosion Control Manual. All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times. For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Surface Mining Manual. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971. If the project occurs in waters or watersheds classified as Primary Nursery Areas (PNAs), SA, Trout, WS-1, WS-11, High Quality Waters (HQW), Outstanding Resource Waters (ORW), or 303(d) Impaired Waters, then the sedimentation and erosion control designs shall comply with the requirements set forth in 15A NCAC 04B .0124, Design Standards in Sensitive Watershed. [15A NCAC 02H.0506(b)(3) and (c)(3); GC 4135]
- 26. DWR approves the stormwater drainage design as shown in the 401 application, under the assumption that it meets the requirements of the NCDOT NPDES permit #NCS000250. These plans are enforceable by DWR. Changes to the approved plans are prohibited without prior approval from DWR. If sediment or other pollutants are found to be discharged from the stormwater outfalls, DWR may take enforcement action. NCDOT and DWR shall assess the damage to water quality standards and implement an appropriate action plan to address the impacts. The action plan shall provide an appropriate timeline for implementation as agreed upon by both DWR and NCDOT. This may require NCDOT to obtain a modification to its current 401 and 404 permits.



This approval and its conditions are final and binding unless contested [G.S. 143-215.5]. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

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

A party filing a Petition must serve a copy of the Petition on:

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

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

This 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.

lmy Chapman

4F4DD2F21EA846E...
Richard E. Rogers Jr., Director
Division of Water Resources

Electronic copy only distribution:

Erin Cheely, NCDOT Michael Turchy, NCDOT Steve Brumagin, US Army Corps of Engineers, Charlotte Field Office Rebekah Reid, US Fish and Wildlife Service David McHenry, NC Wildlife Resources Commission File Copy



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



NCDWR Project No.:	County:
Project Name:	
Date of Issuance of 401 Water Quality Ce	ertification:
any subsequent modifications, the applicant Unit, North Carolina Division of Water Reso	in the 401 Water Quality Certification or applicable Buffer Rules, and is required to return this certificate to the 401 Transportation Permitting ources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form it, the applicant's authorized agent, or the project engineer. It is not see.
I, was used in the observation of the construction compliance and intent of the 401 Water Quaspecifications, and other supporting material	, hereby state that, to the best of my abilities, due care and diligence ion such that the construction was observed to be built within substantial ality Certification and Buffer Rules, the approved plans and ls.
Signature:	Date:
Agent's Certification	
	, hereby state that, to the best of my abilities, due care and diligence ion such that the construction was observed to be built within substantial ality Certification and Buffer Rules, the approved plans and ls.
Signature:	Date:
Engineer's Certification	
Partial Final	
Carolina, having been authorized to observe Permittee hereby state that, to the best of my construction such that the construction was	, as a duly registered Professional Engineer in the State of North (periodically, weekly, full time) the construction of the project for the vabilities, due care and diligence was used in the observation of the observed to be built within substantial compliance and intent of the 401 s, the approved plans and specifications, and other supporting materials.
Signature	Registration No
Date	
Completed hard copies can be emailed to kr NCDEQ Transportation Permitting 1617 Mail Service Center	istilynn.carpenter@deq.nc.gov or mailed to:



Raleigh NC 27699-1617



North Carolina Department of Transportation

Highway Stormwater Program STORMWATER MANAGEMENT PLAN



FOR NCDOT PROJECTS

(Version 2.08; Released A				FOR NCDOT							
WBS Element:	39078.1.2	TIP No.:	U-4714A	County(ies):	Mecklenburg			P	age 1	of	1
				General Project	Information						
WBS Element:		39078.1.2		TIP Number: U-4714A		Project	Туре:	Roadway Widening	Date:	6/14/2	2021
NCDOT Contact:		David Webb, PE			Contractor / Desig			Dalton, PE			
	Address:	NCDOT Hydrauli	cs Unit			Address:	Sungate D	esign Group, P.A.			
		1590 Mail Service	е				905 Jones	Franklin Road			
		Raleigh, NC 276	99-1590				Raleigh, N	C 27606			
	Phone:	(919) 707-6731				Phone:	(919) 859-2	2243			
	Email:	dswebb1@ncdot	.gov			Email:	jdalton@su	ungatedesign.com			
City/Town:			Matt	hews	County(ies):	Meckle	Mecklenburg				
River Basin(s):				CAMA County?	No	0					
Wetlands within Pro	ject Limits?	Yes									
				Project Des							
Project Length (lin. r	niles or feet):	3.	37	Surrounding Land Use:	Commercial, Indust	trial, Medium D	ensity Resi	idential, Forest			
				Proposed Project				Existing Site			
Project Built-Upon A			35.9	ac.			21.9	ac.			
Typical Cross Section	n Description:			l lanes (total 44') with 2'-6" curb a): Open shoulder section, 2			
		median with monolithic island and turn lane (total 0'-42') Varying 10' with guardrail) shoulder with varying 5' -10' width pedestiran sidewa			`			/arying fill and cut slopes. Cu ith 10' concrete sidewalk. Va			
		with guardiall) Si	odider with varyin	ig 0 -10 widin pedesinan sidewa	IIX.	paved lattes ((total 50) WI	iti 10 concrete sidewalk. Va	i ying ilii ariu t	at siopes.	
Annual Ave Dally To	offic (wob/b=/d=:/\			4.500				45.000			001=
Annual Avg Daily Tra General Project Narr	, ,,	Design/Future		54,500 Year: t of Transportation (NCDOT) has proposed to widen and im		Existing:		45,000 (SP 1000) in Matthows NC			2017 major
(Description of Minir				vements to East John Street, which							
Quality Impacts)				oncrete Box Culvert extension with		0		,	, ,		
, p ,				alignment to smoothly tie the exis							
		surface water impacts as possible. Velocities at jurisdictional features and wetlands are non-erosive.				_					
				Waterbody Ir	formation						
Surface Water Body	(1):		UT to Four	mile Creek	NCDWR Stream In	ndex No.:		11-137-	9-4		
-		14/ (D I		Primary Classification:	Class						
NCDWR Surface Wa	ter Classification fo	r water Body		Supplemental Classification:							
Other Stream Classification: None											
Impairments: None											
Aquatic T&E Species	s?	No	Comments:		1			, , , , , , , , , , , , , , , , , , ,			
NRTR Stream ID:							Buffer Rul	les in Effect:		N/A	
Project Includes Brid	dge Spanning Water	Body?	No	Deck Drains Discharge Over B					N/A		
Deck Drains Dischar	<u> </u>		N/A	(If yes, provide justification in				describe in the General Proje			y in the
	le justification in the 0			1	,	,	` , , ,	General Project			-
(iii yoo, provide jabandador iii aho Goriotar Fejoor Namaaro)											

PROJEC

SEE SHEET 1B FOR CONVENTIONAL SYMBOLS

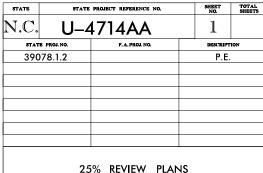
MATTHEWS POP. 25.442

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

MECKLENBURG & UNION COUNTIES

LOCATION: SR 1009 (JOHN STREET\OLD MONROE ROAD) FROM SR 3448\SR 3474 (TRADE STREET) TO WEST OF MORNINGSIDE MEADOW LANE (EXCLUDING I-485 INTERCHANGE)

TYPE OF WORK: GRADING, PAVING, AND DRAINAGE

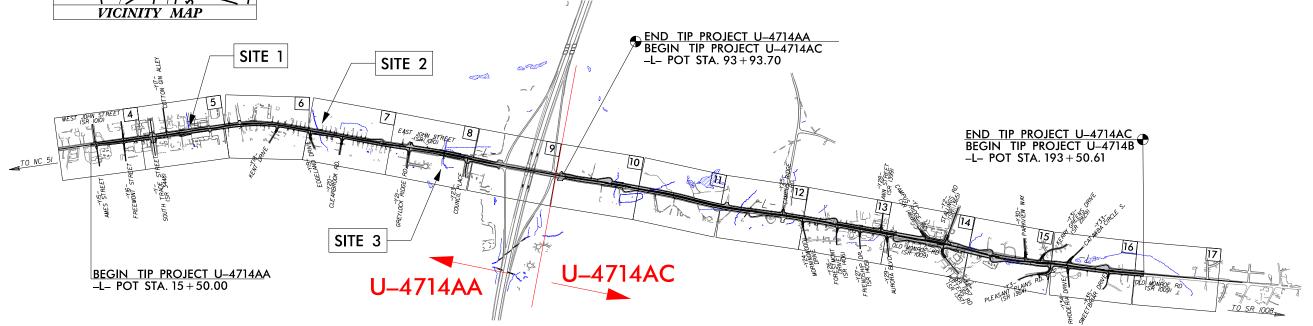


PERMIT DRAWING SHEET 1 OF 15

DATE: 8/3/2023

PRELIMINARY

WETLAND AND SURFACE WATER IMPACTS PERMIT



NOTE:

- 1. THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF MATTHEWS.
- 2. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD . .

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



GRAPHIC	SCAL	ES \			
50 25 0 PLAN	50 NS	100			
50 25 0	50	100			
PROFILE (HORIZONTAL)					
10 5 0	10	20			
PROFILE (VERTICAL)					

L	DESIG	N	DA	TA	
ADT	2017	=	45,	000	
ADT	2037	=	54,	500	
	Κ	=	6	%	
	D	=	55	%	
	Т	-	4	%	*
	V	=	40	MP	Ή
,	* TTST	-1	1% D	UAL	_ 39
1	FUNC	CL	ASS	=	
,	MINOR	A	RTERI	AL	

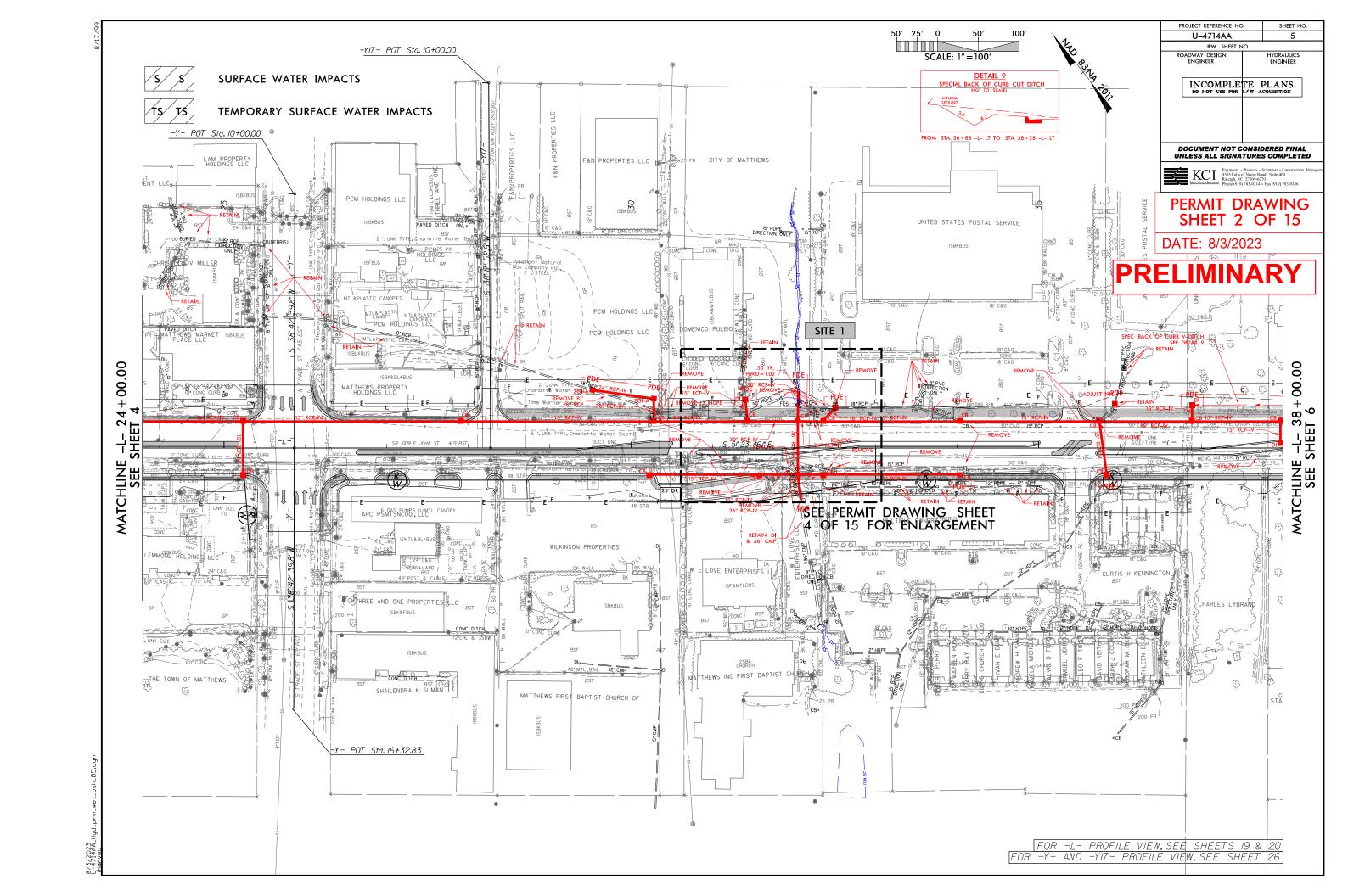
PROJECT LENGTH

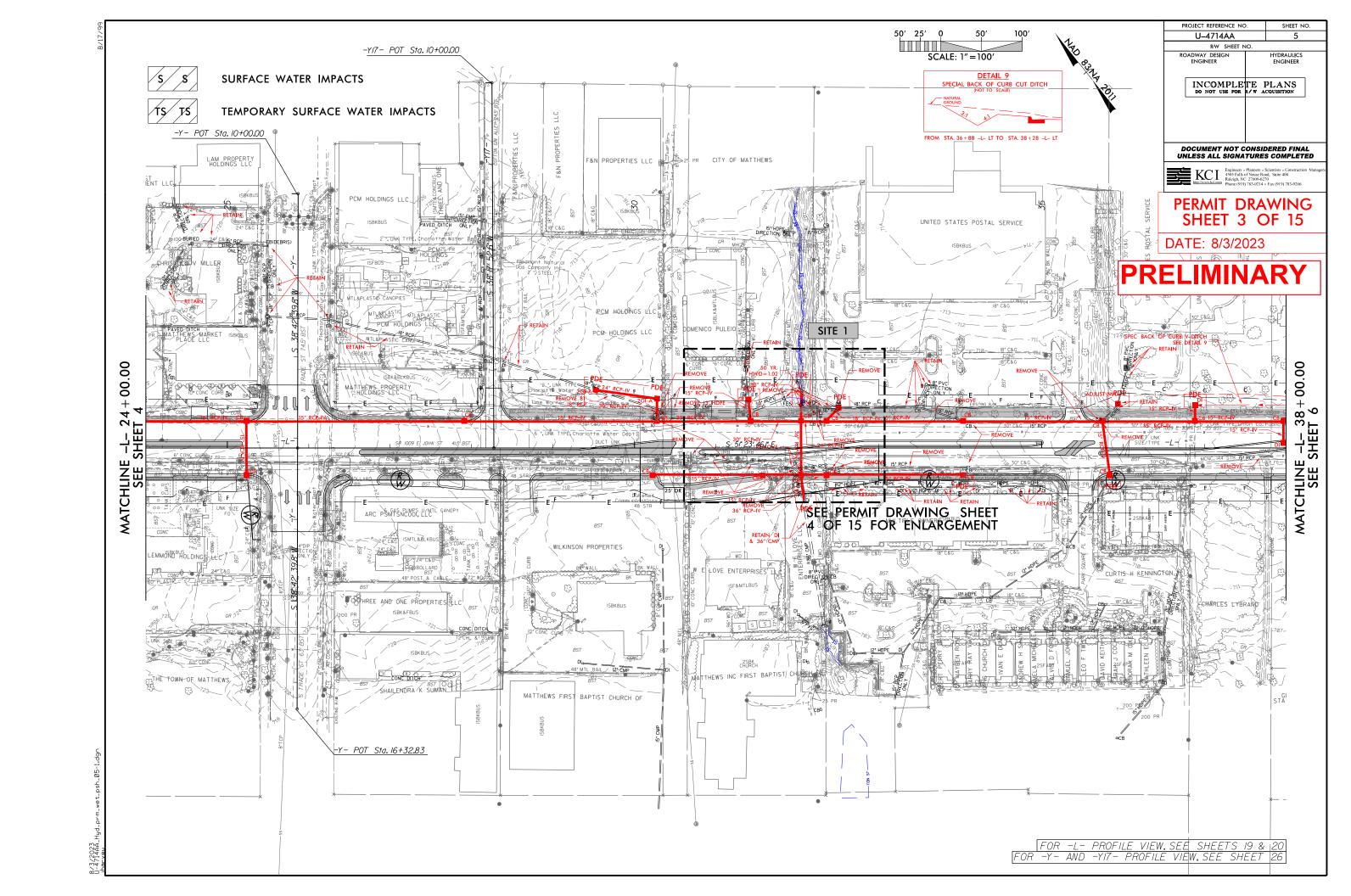
TOTAL LENGTH OF TIP PROJECT U-4714A = 3.371 MILES

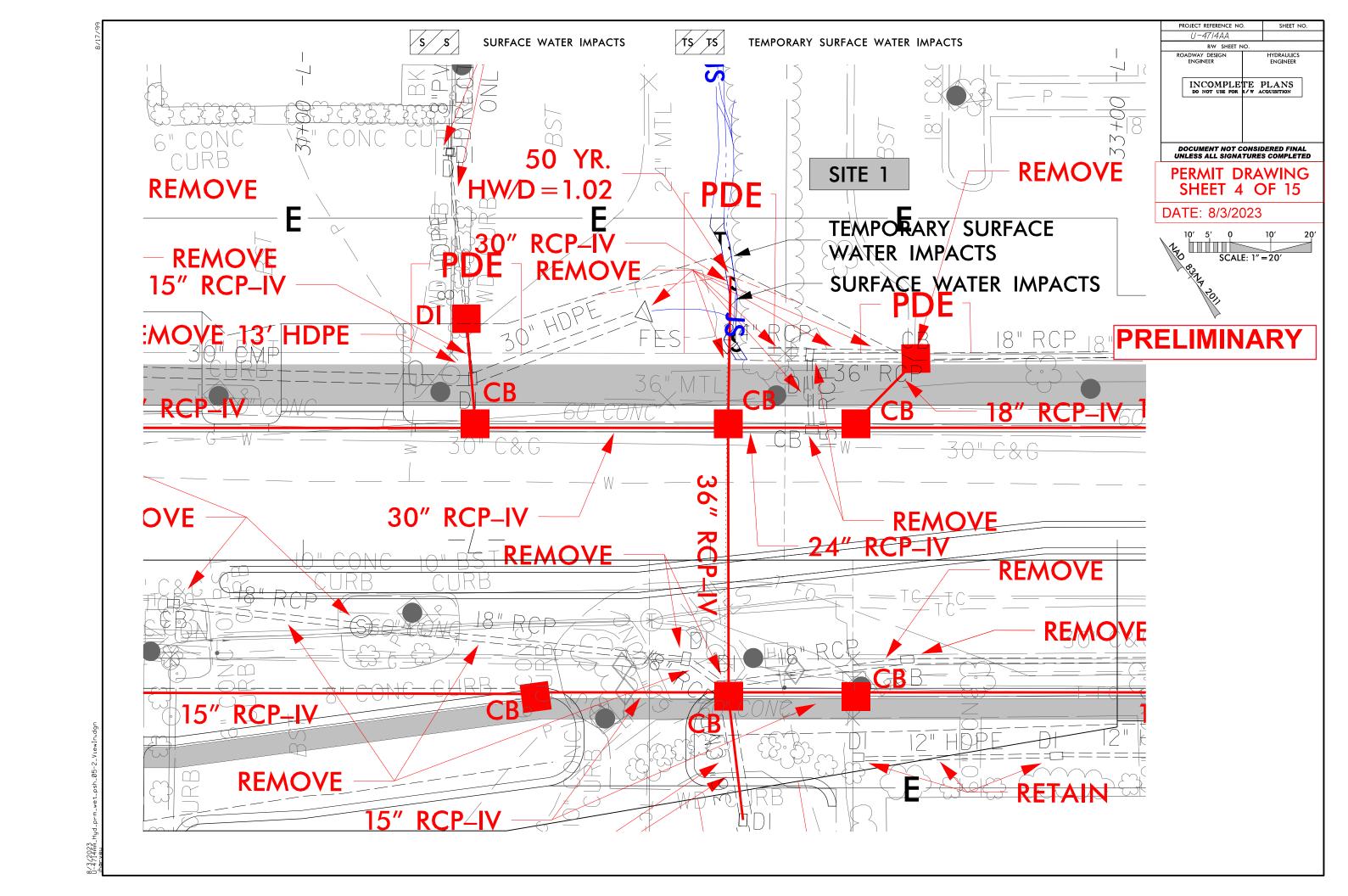
Prepared in the Uttice of:	Plans Preparea For:
KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 Fax (919) 783-9266	DIVISION OF HIGHWAYS
2018 STANDARD SPECIFICATIONS	DEWILLIAM T 0111110 DE
RIGHT OF WAY DATE:	PROJECT ENGINEER
LETTING DATE:	BRYAN E. HOUGH, PE PROJECT DESIGN ENGINEER
NCDOT CONTACT:	BRYAN KEY, PE

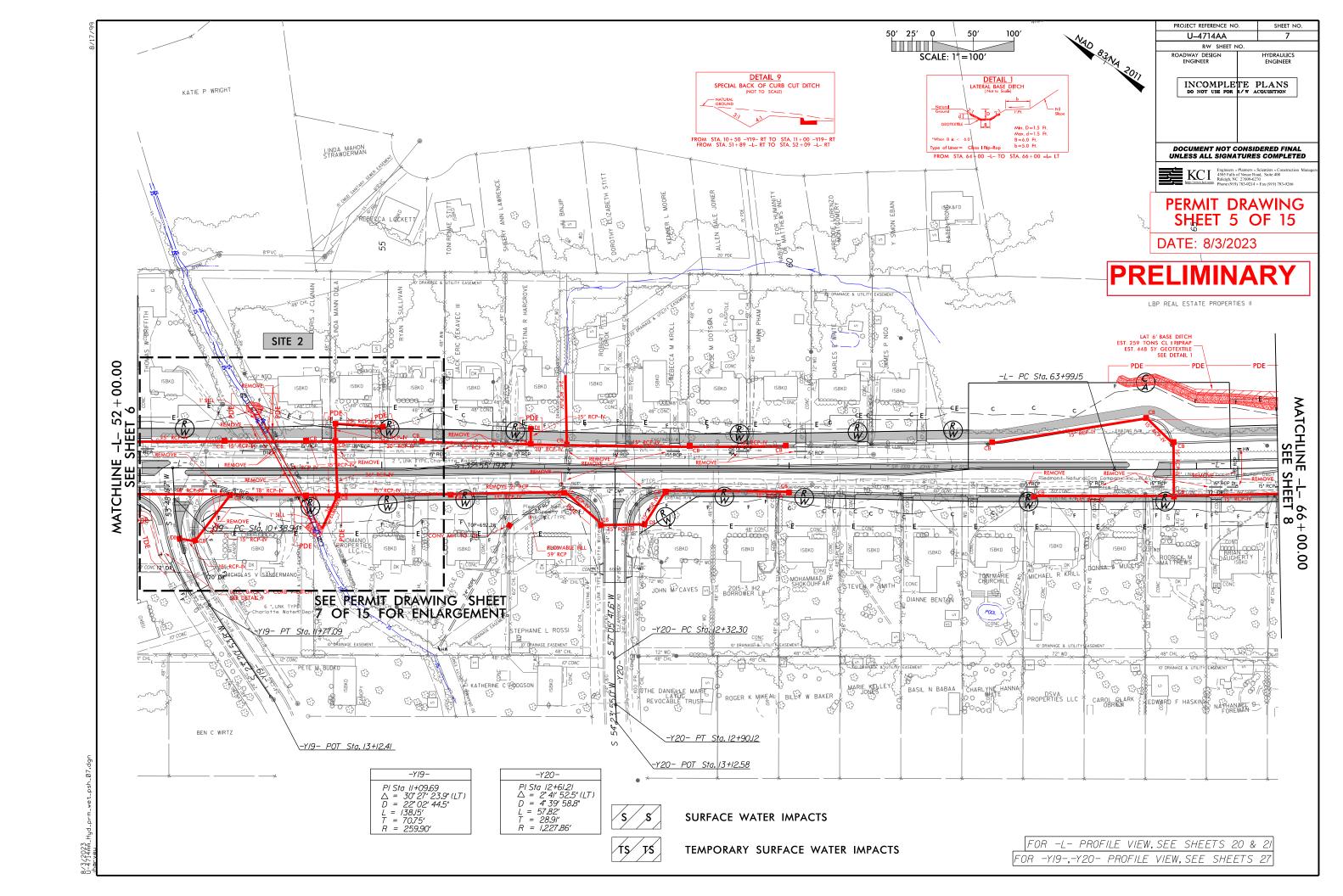
HYDRAULICS EN	GINEER
SIGNATURE:	P.E.
SIGNATURE:	
ROADWAY DES	
ENGINEER	

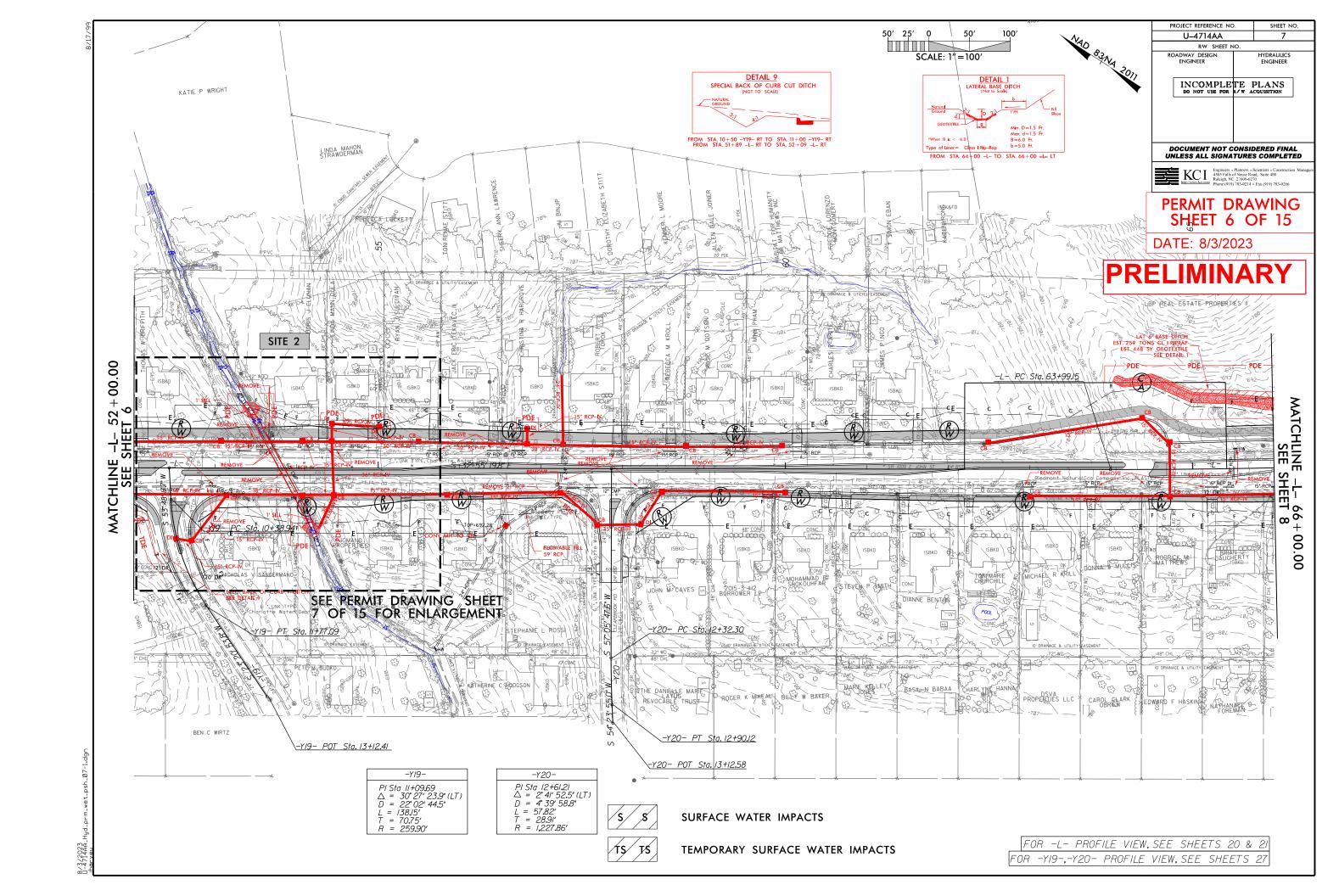










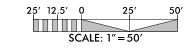


S/

SURFACE WATER IMPACTS

TS/ TS

TEMPORARY SURFACE WATER IMPACTS



W-47/4AA

RW SHEET NO.

ROADWAY DESIGN HYDRAULICS ENGINEER

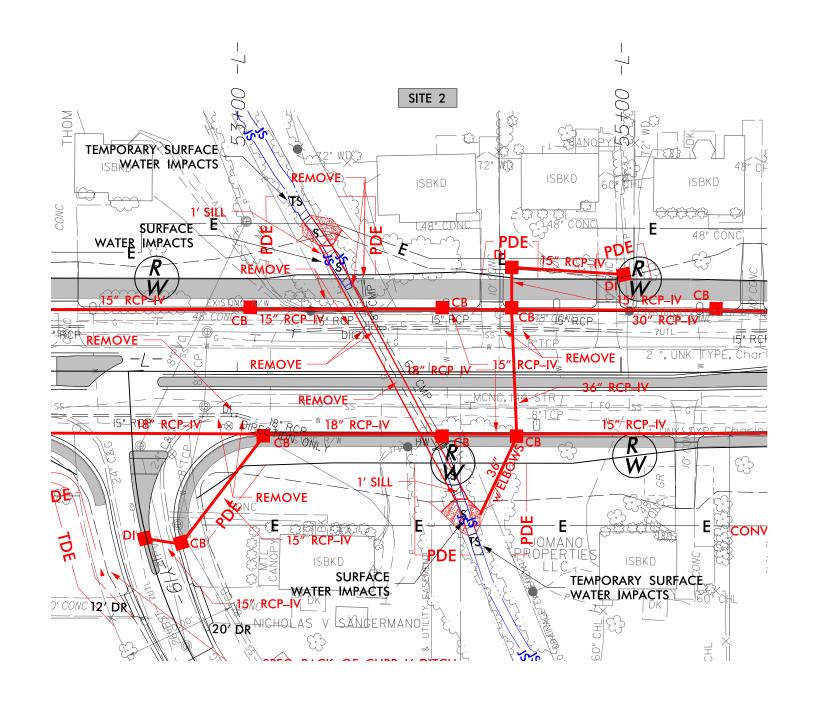
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION

PROJECT REFERENCE NO.

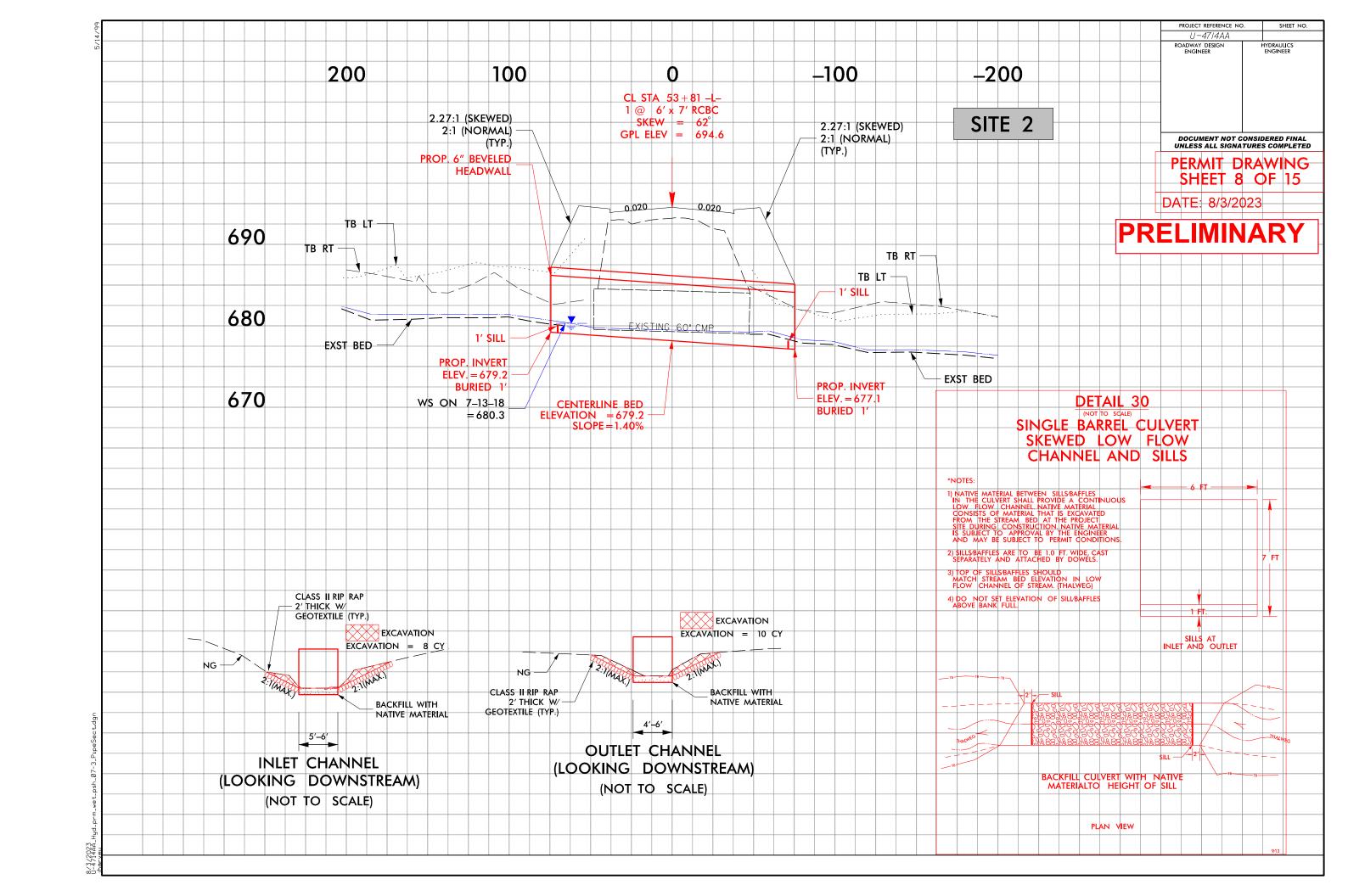
PERMIT DRAWING
SHEET 7 OF 15

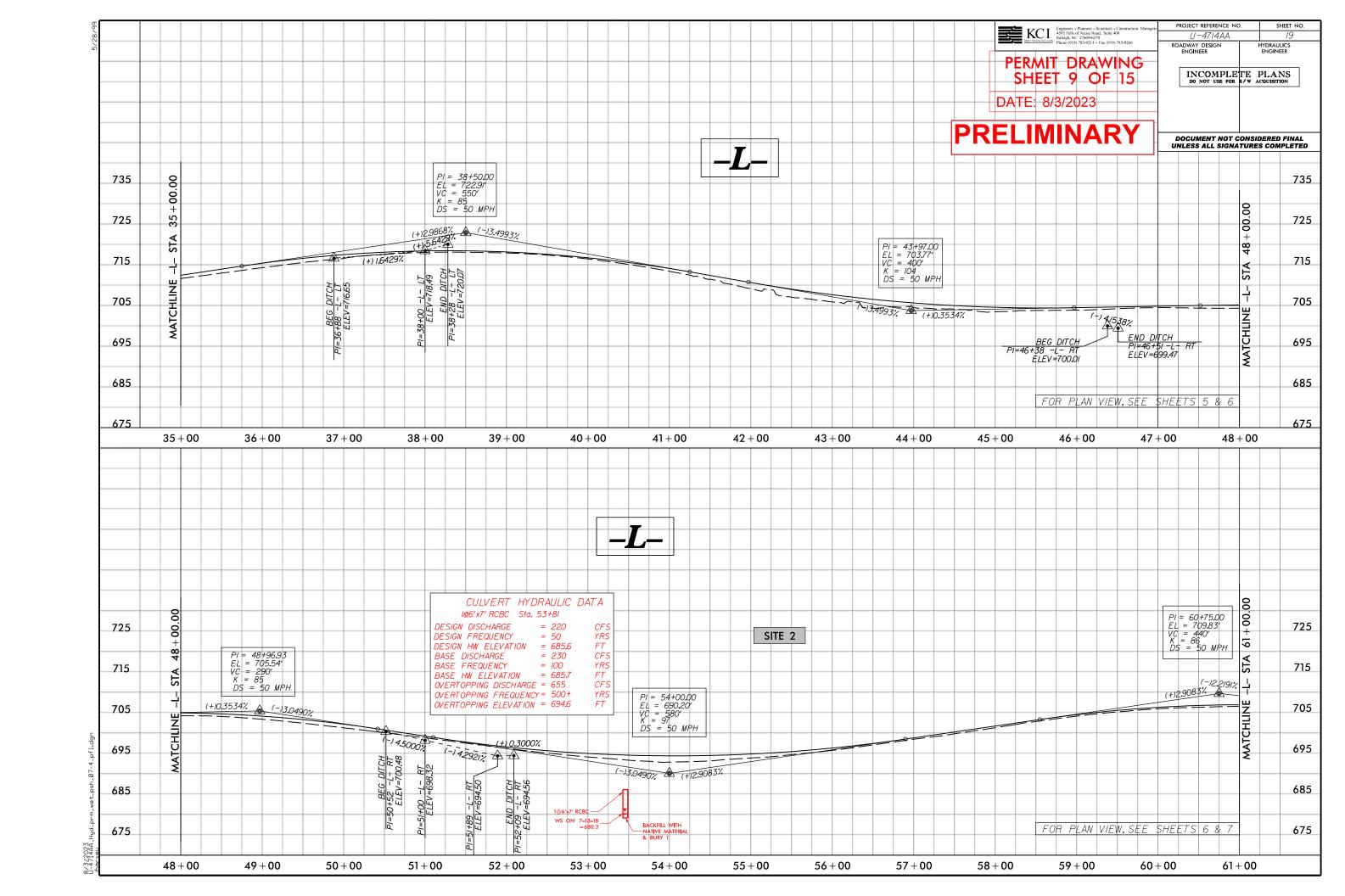
DATE: 8/3/2023

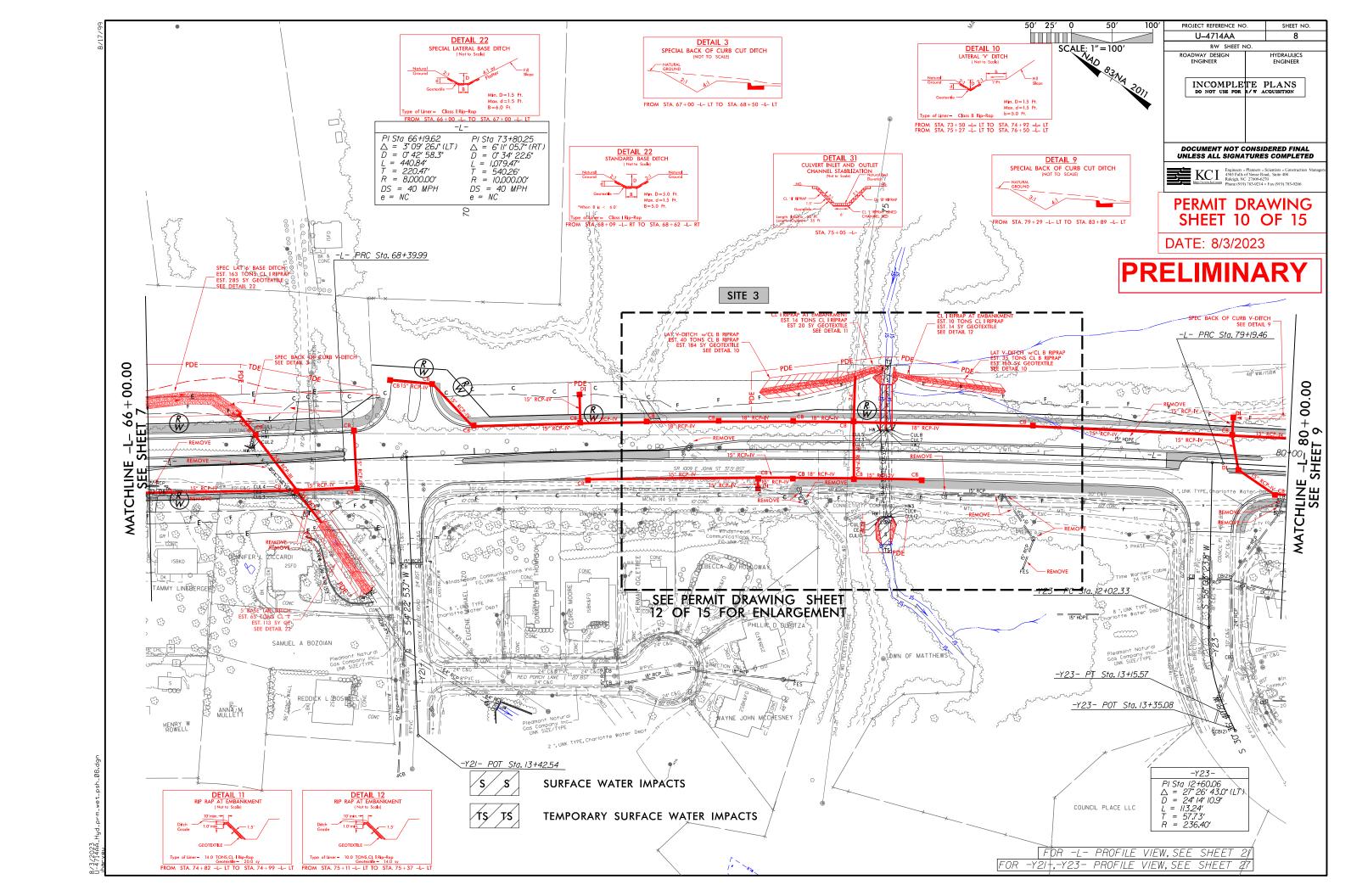
PRELIMINARY

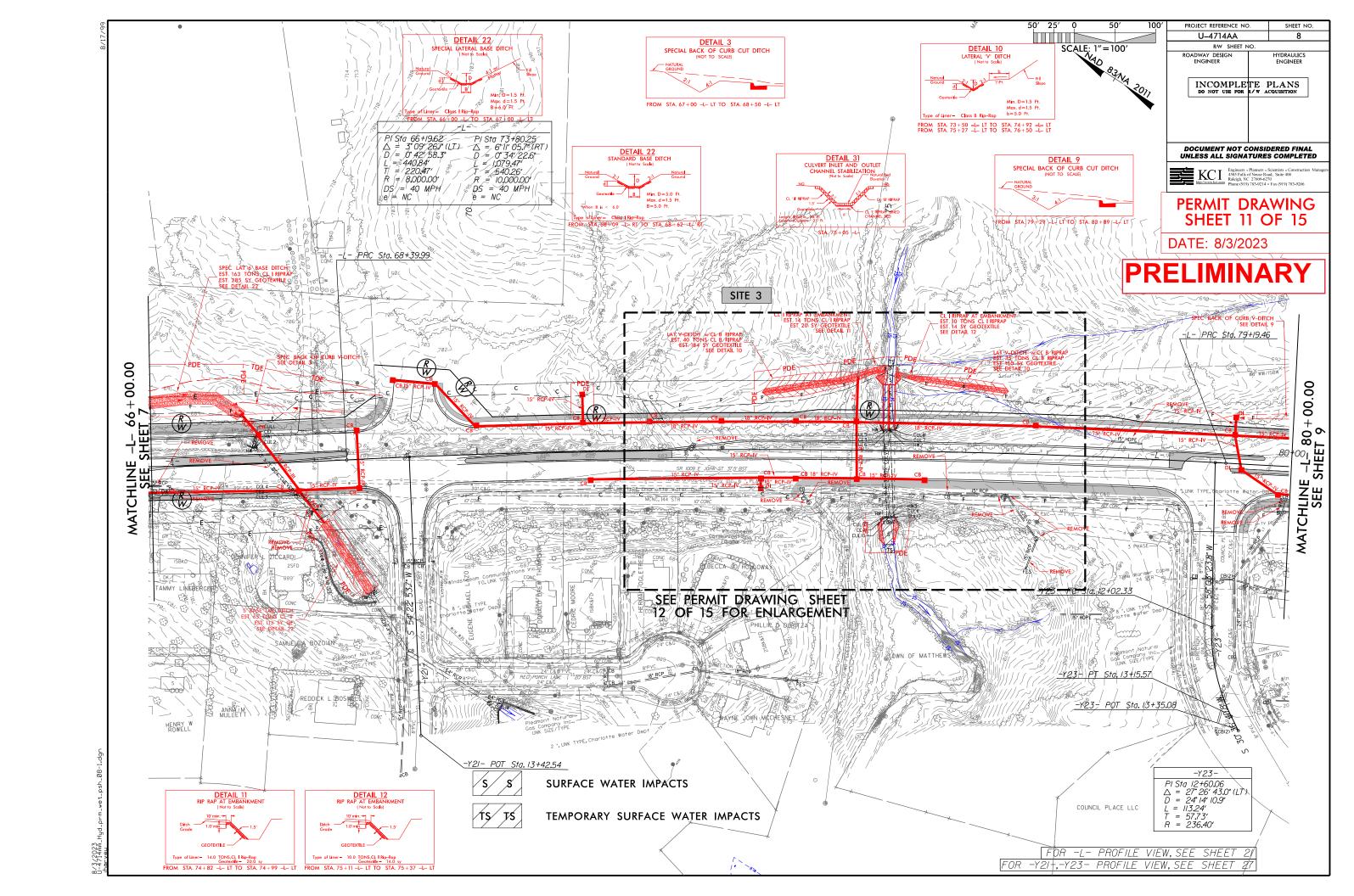


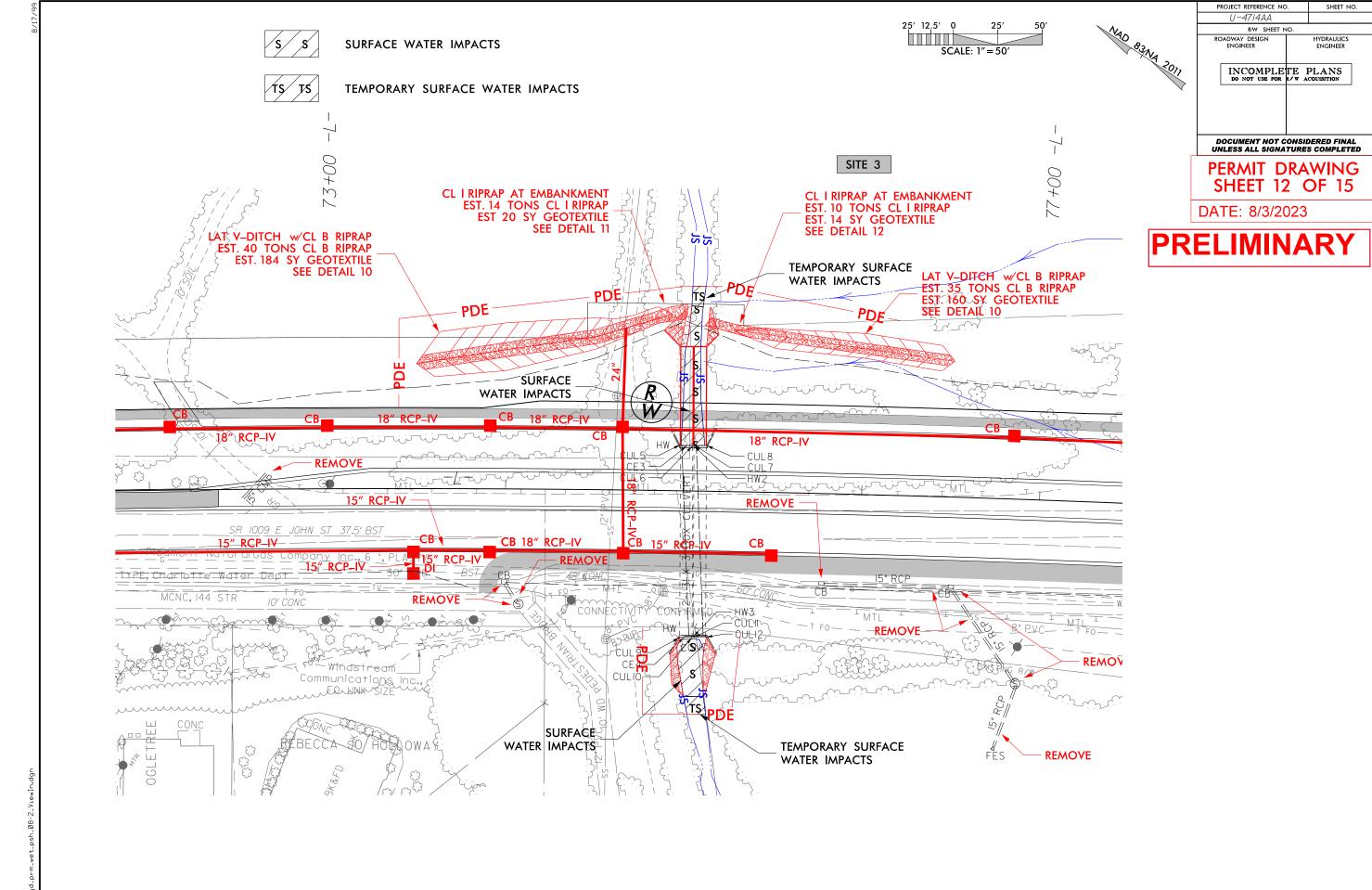
U-4714AA_Hyd_prm_wet_psh_07-2_ViewIn.dgn _iharveu

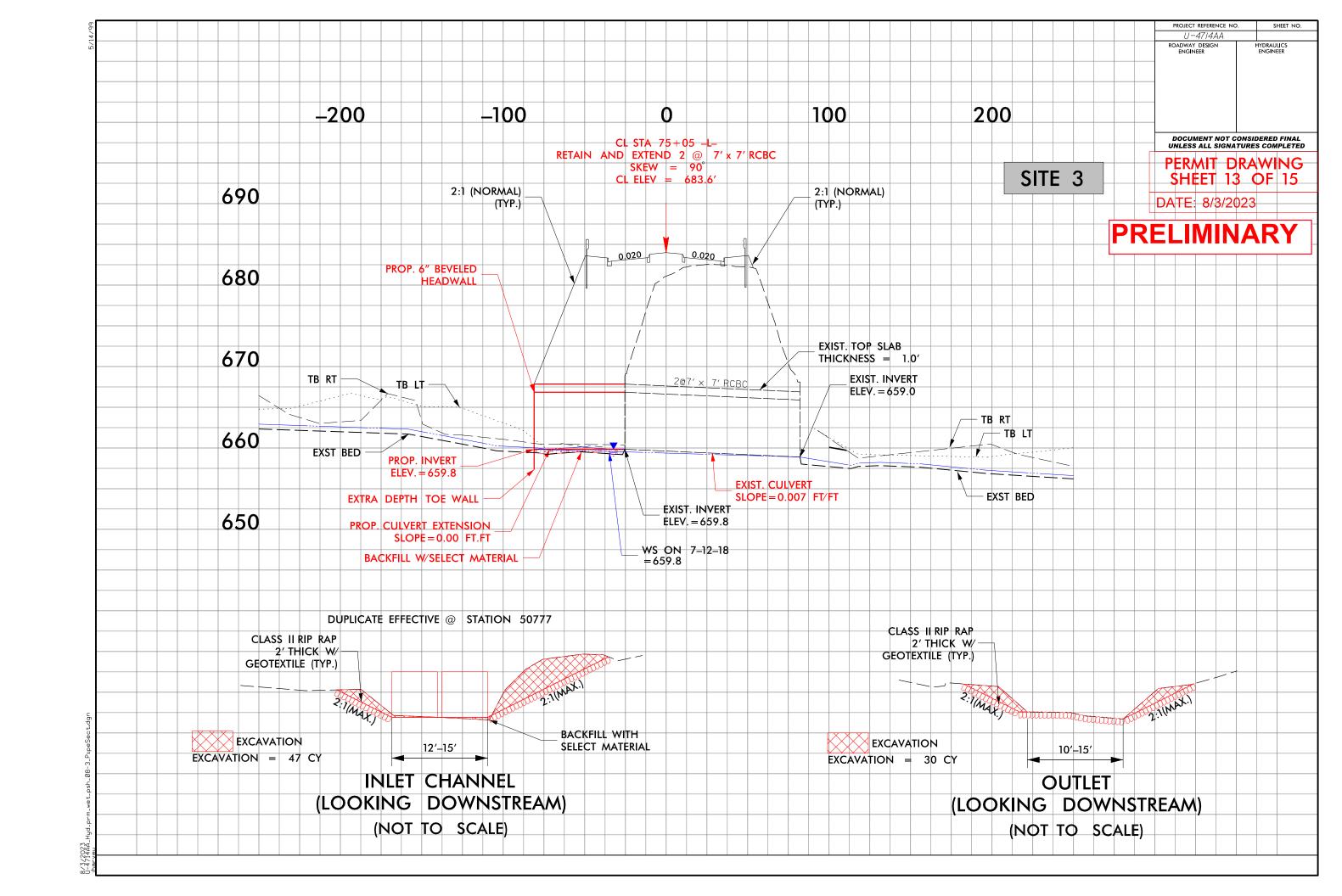


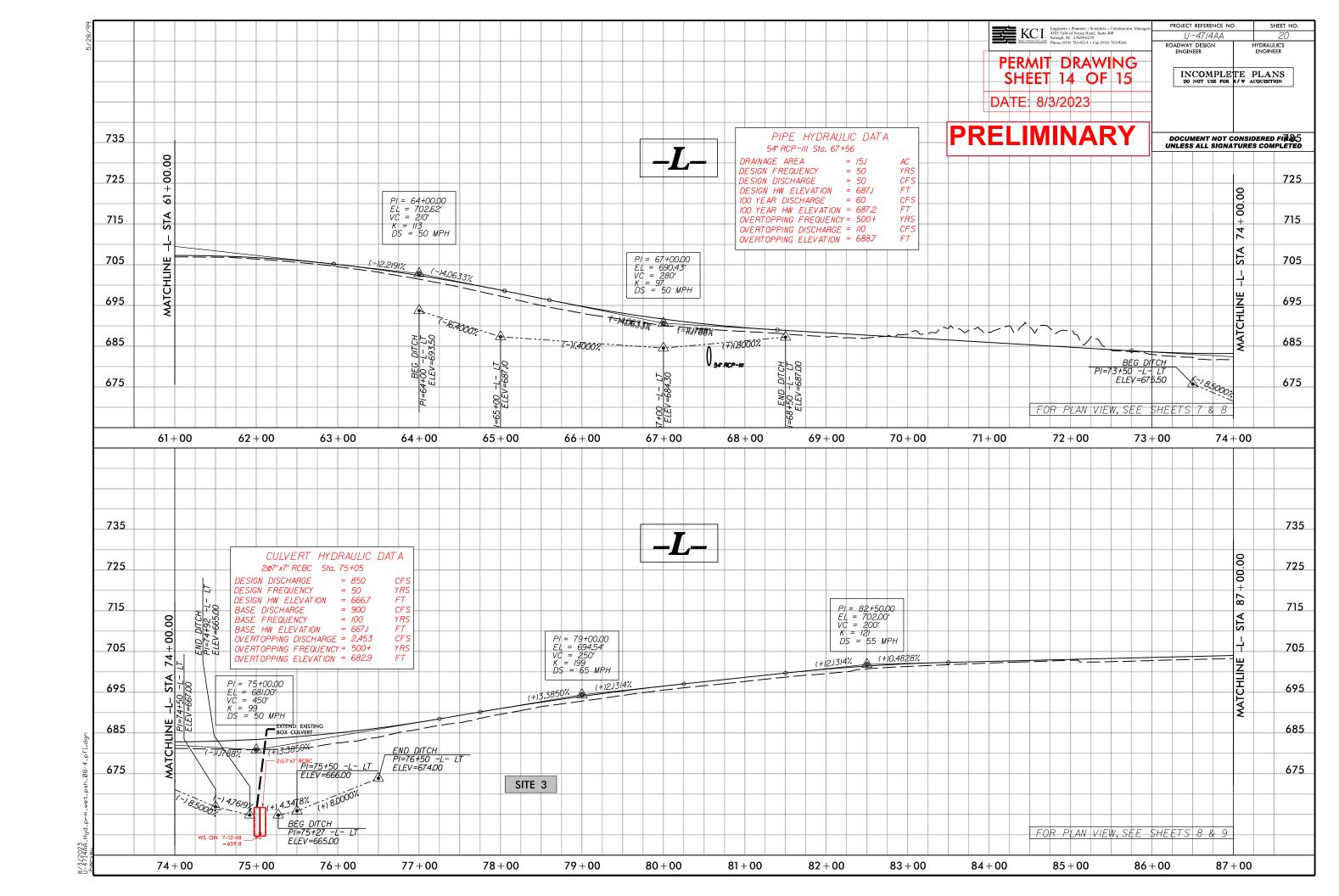












			WETLAND IMPACTS				SURFACE WATER IMPACTS					
			Permanent	Temp.	Excavation	Mechanized	Hand Clearing	Permanent	Temp.	Existing Channel	Existing Channel	Natural
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent	Temp.	Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	32+00 ot 32+09-L-LT	ROADWAY FILL						< 0.01	< 0.01	22	15	
2	53+26 to 54+29-L-	1 at 6'x7' RCBC						< 0.01	< 0.01	53	24	
	53+26 to 53+60-L-LT	INLET BANK STABILIZATION								18		
	54+05 to 54+29-L-RT	OUTLET BANK STABILIZATION								19		
3	74+98 to 75+14-L-	2 at 7'x7' RCBC						0.01	< 0.01	56	22	
	74+98 to 75+14-L-LT	INLET BANK STABILIZATION								23		
	74+98 to 75+14-L-RT	OUTLET BANK STABILIZATION								32		
TOTAL	O+-	<u>I</u>						0.02	< 0.01	223	61	0

^{*}Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
08-03-2023
MECKLENBURG/UNION COUNTY
U-4714AA

39078.3.9

SHEET 15 OF 15

PRELIMINARY



North Carolina Department of Transportation

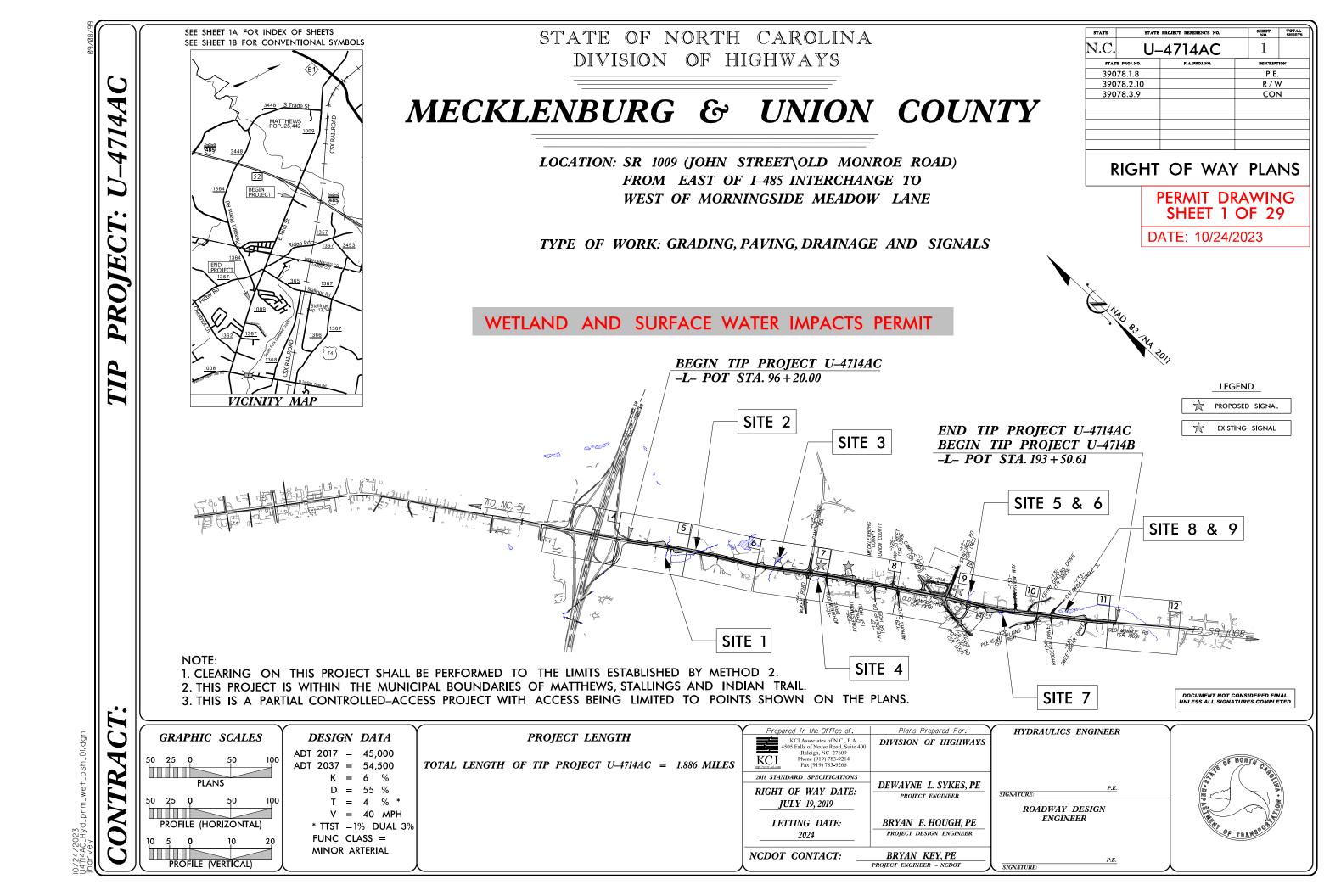
Highway Stormwater Program STORMWATER MANAGEMENT PLAN

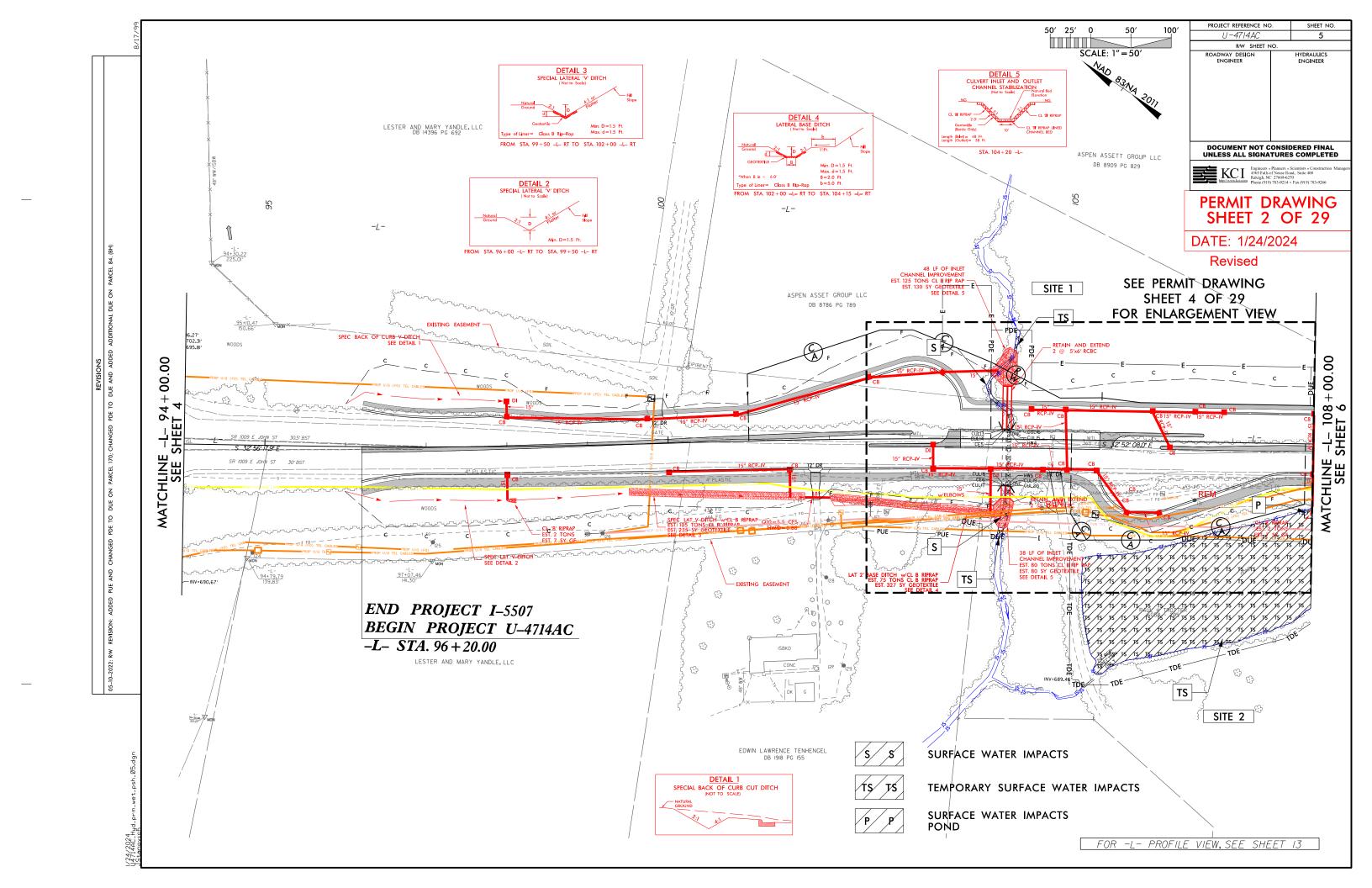


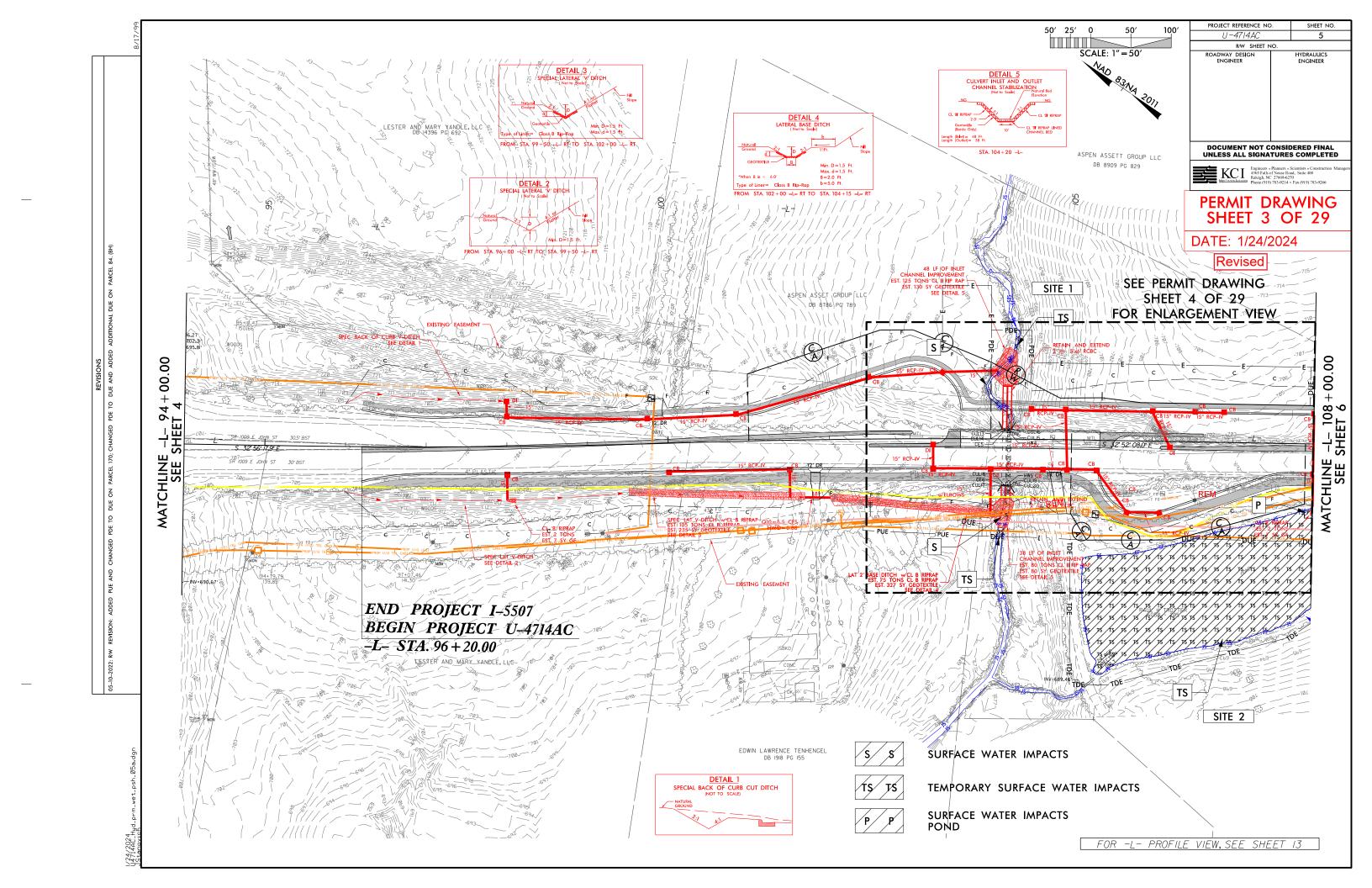
Version 2.08: Released April 2018)

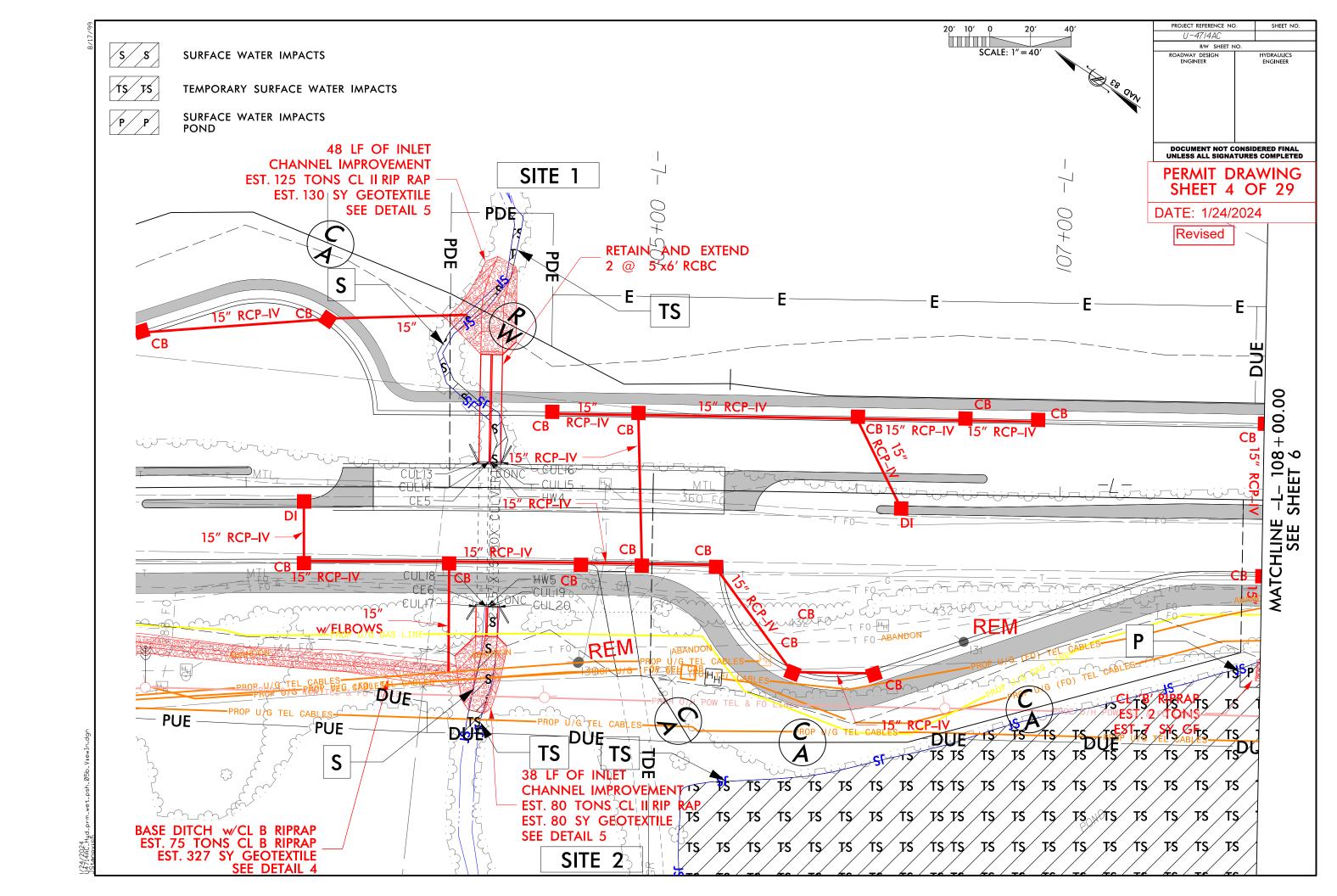
FOR NCDOT PROJECTS

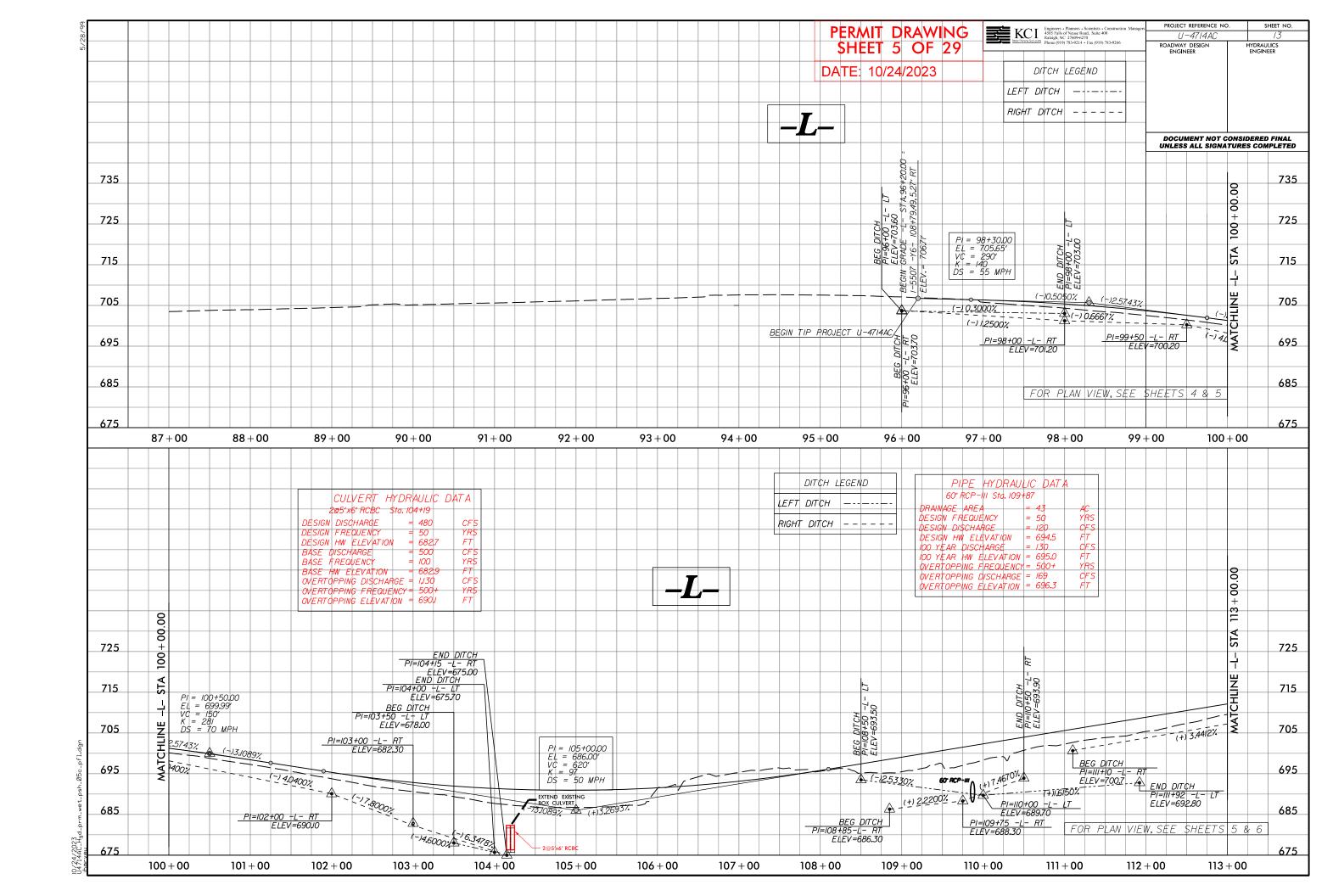
(Version 2.08; Released A					T PROJECTS						
WBS Element:	39078.1.8	TIP No.:	U-4714AC	County(ies	: Mecklenburg			Pa	ige 1	of	1
				General Proje	t Information						
WBS Element:		39078.1.8		TIP Number: U-4714AC		Project	Туре:	Roadway Widening	Date:	10/6/2	2023
NCDOT Contact:		David Webb, PE			Contractor / Desig						
Address:		NCDOT Hydraulics Unit				Address: Sungate Design Group, P.A.					
		1590 Mail Service	е			905 Jones Franklin Road					
		Raleigh, NC 276	99-1590			Raleigh, NC 27606					
	Phone: (919) 707-6731					Phone:	Phone: (919) 859-2243				
	Email: dswebb1@ncdot.gov					Email:					
City/Town:			Matt	County(ies):	Meckle	Mecklenburg					
River Basin(s):		Catawba			CAMA County?	No					
Wetlands within Pro	ect Limits?	Yes									
				Project Do	scription						
Project Length (lin. r	niles or feet):	3.	37	Surrounding Land Use:	trial, Medium D	al, Medium Density Residential, Forest					
	·				Existing Site						
Project Built-Upon A			35.9			21.9 ac.					
Typical Cross Section Description:				and gutter. Paved	E. John Street (SR 1009): Open shoulder section, 2 paved lanes (total 24'), 1' pave						
)'-15' shoulder (14'-19'	, 0						
		with guardrail) sh	louider with varyir	dik.	paved lanes (total 36') with 10' concrete sidewalk. Varying fill and cut slo			ut slopes.	•		
Annual Avg Daily Tra		Design/Future: 54,500 Year			Existing:		45,000			2017	
General Project Narr				Transportation (NCDOT) has p							
(Description of Minir				ements to East John Street, which		0	,	,	, 0		
Quality Impacts)		is a 2@5'x6' Reinforced Concrete Box Culvert extension with a beveled headwall. The culvert is to be extended both upstream and downstream. The upstream culvert extension									
		will require a channel realignment to smoothly tie the existing channel with the culvert extension. This structure has been designed to have as little environmental and surfa water impacts as possible. Velocities at jurisdictional features and wetlands are non-erosive. Other measures used throughout the project to avoid or minimize water quality									
			•		ands are non-erosive. Other measures used throughout the project to avoid or minimize water quality reas, and bank stabilization added to outlet channels.						
		impaota iriolude t	110 U30 OI Z. I SIU	505, Dunai oi inverts in junsuictio	iai ai cas, anu bank St	ank stadilization added to outlet channels.					
1											
1											
			Waterbody Information								
Surface Water Body	(1):		UT to Four	mile Creek	ndex No.:	11-137-9-4					
317			Primary Classification:	Class							
NCDWR Surface Wa	ter Classification fo	r Water Body		Supplemental Classification:	2.300						
Other Stream Classi	fication:	None									
Impairments:		None									
Aquatic T&E Species?		No	Comments:								
NRTR Stream ID:) i	INU	Comments.				Buffer Du	les in Effect:		N/A	
Project Includes Bridge Spanning Water Body?				Dock Draine Discharge Over	N/A				N/A N/A		
Deck Drains Discharge Over Water Body? N/A				Deck Drains Discharge Over Buffer? (If yes, provide justification in the General Project Narrativ					ect Narrative		fy in the
	•		(ii yes, provide justilication in the General Project Namati			arrative) (If yes, describe in the General Project Narrative; if no, justify in General Project Narrative)				ıyııı üle	
(if yes, provid	le justification in the 0	senerai Project N	arrative)					Scholar Hoject	arradvoj		

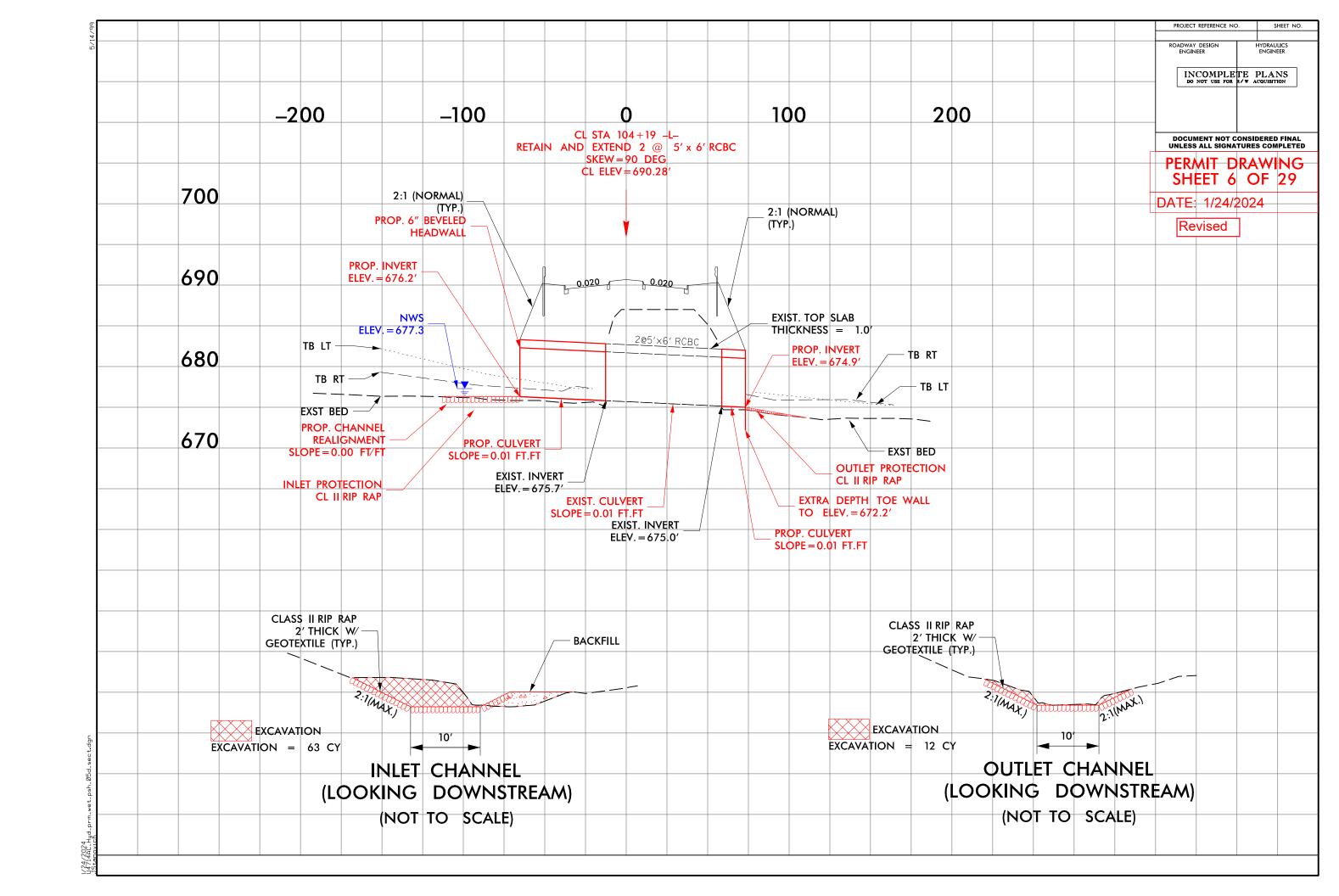


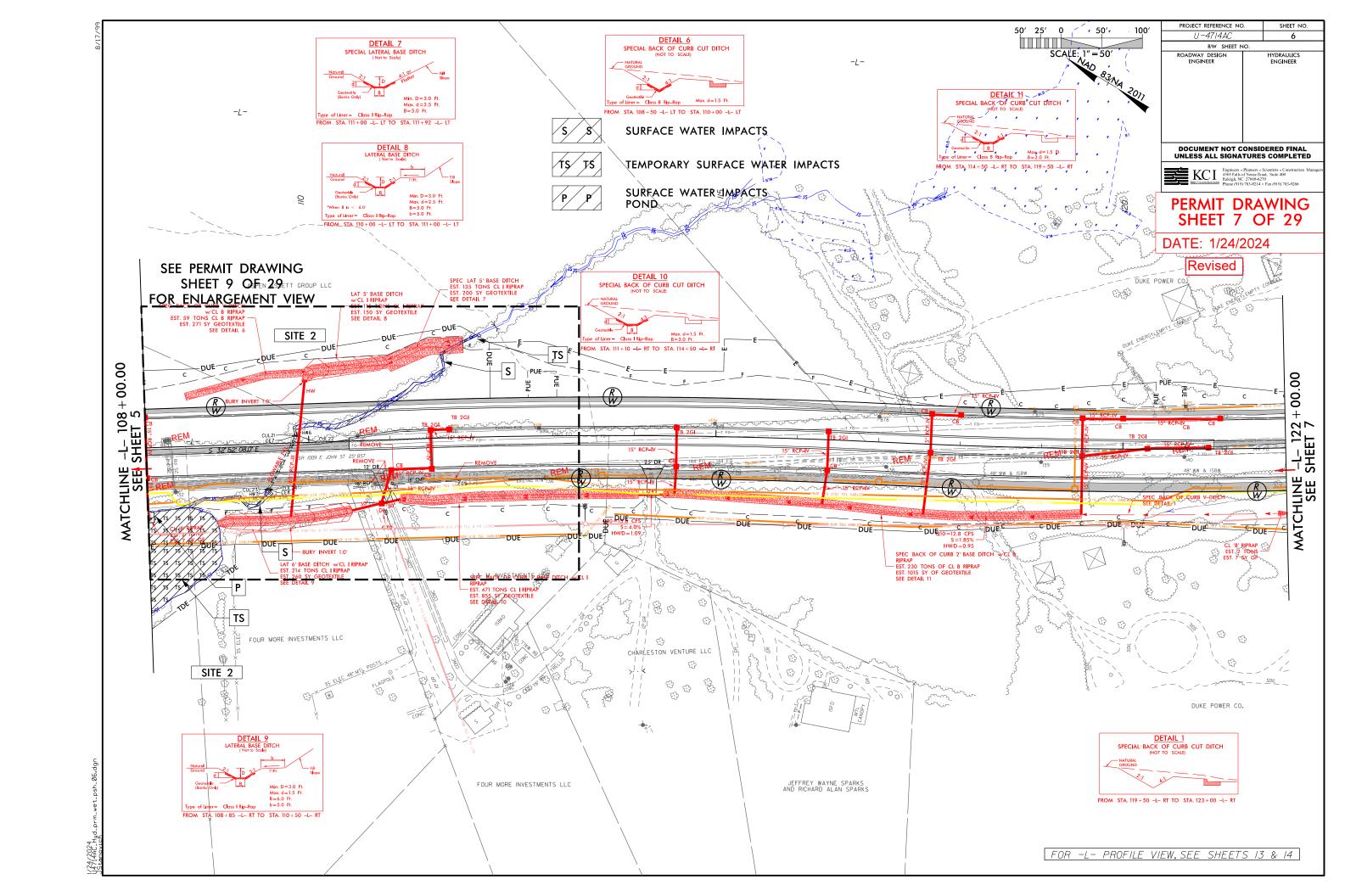


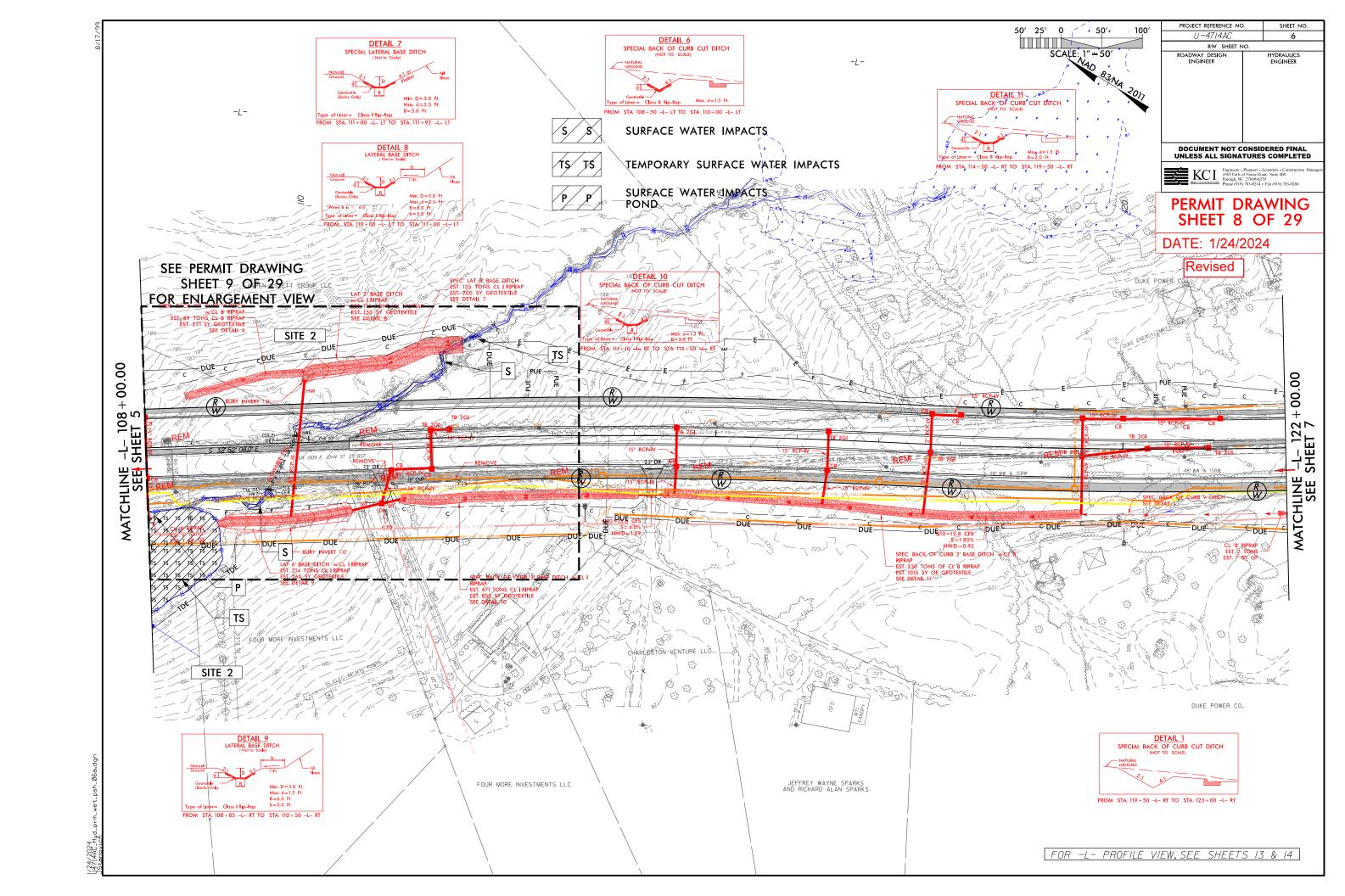


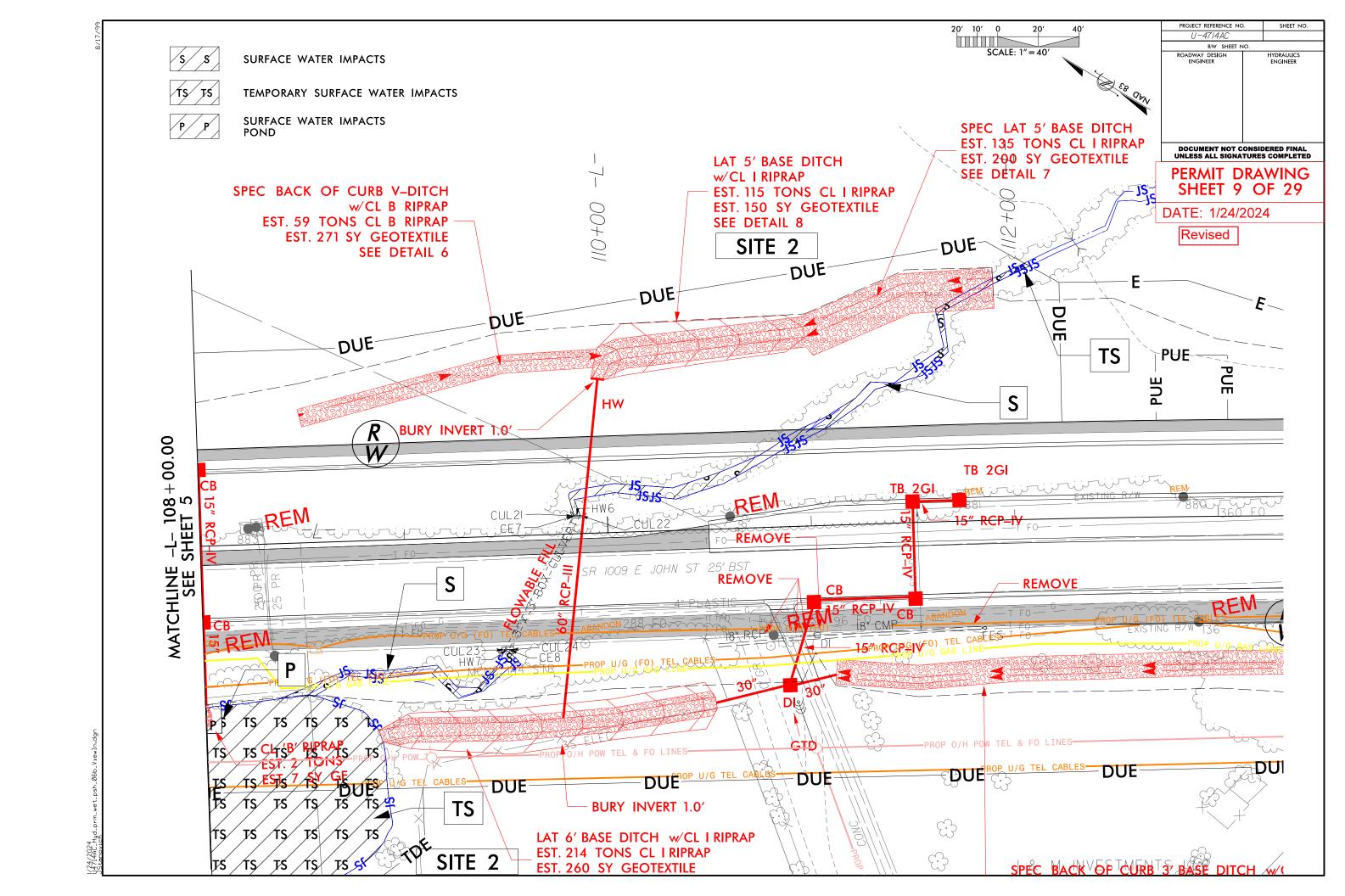


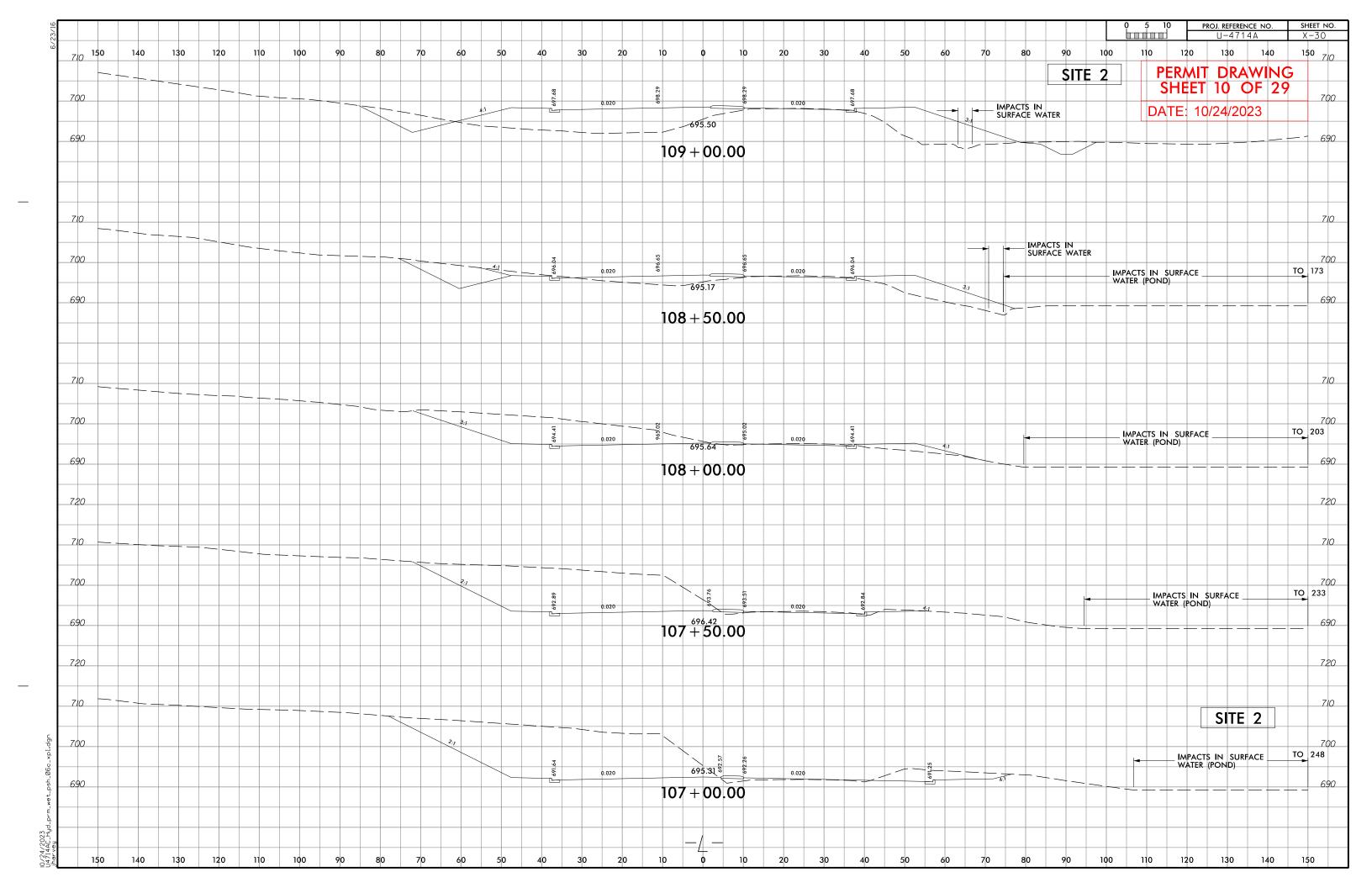


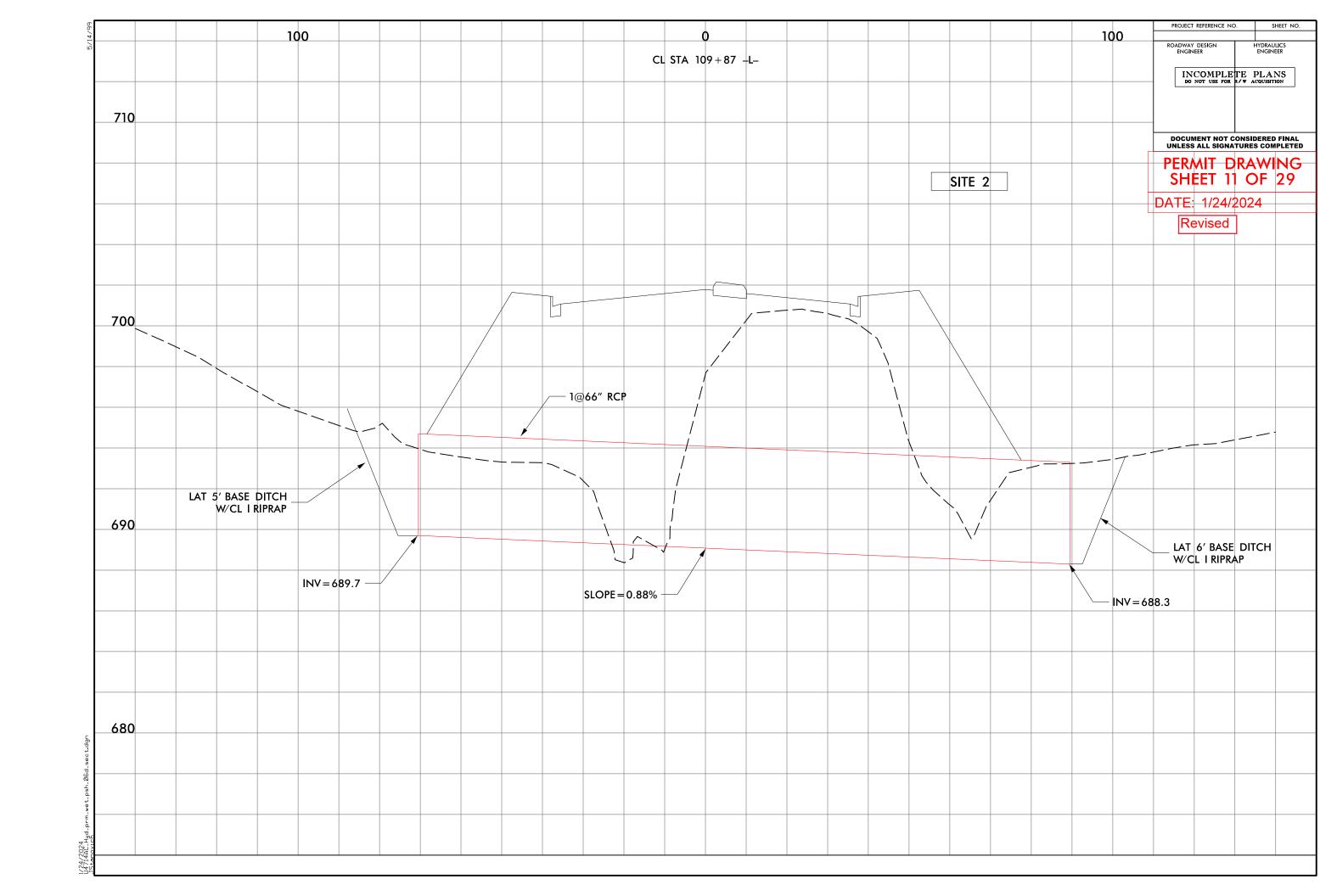












PROJECT REFERENCE NO. SHEET NO. DETAIL 13 PIPE INLET CHANNEL U-4714AC RW SHEET NO. ROADWAY DESIGN HYDRAULICS 50′ 25′ SCALE: 1" = 50' VISED RW ON PARCELS 91 92, 93, 98, AND 99, REVISED TCE ON PARCELS 97 AND 98. ISINONDS AT THE CENTRUINE OF MCKEE ROAD AND PORK CHOP CONCRETE PEDESTRAN REFUGE SCHOW DETAIL REVISED THE MCKEE ROAD DESIGN EAST OF OLD MONROE ROAD TO TIE IN AT ROAD EXTENSION RESULCT; (BH) Est. = 35 Tons of Class 'I' Rip-Rap STA. 125 + 50 -L- LT FROM STA. 124+50 -L- LT TO STA. 126+00 -L- LT FROM STA. 124+00 -L- RT TO STA. 125+50 -L- RT -L-DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED FROM STA. 20+50 -Y25- LT TO STA. 23+50 -Y25-FROM STA. 20+50 -Y25- RT TO STA. 23+50 -Y25-PERMIT DRAWING DETAIL 14 /3(SPECIAL BACK OF CURB CUT DITCH **SHEET 12 OF 29** DATE: 10/24/2023 FROM STA. 127 + 50 -L- LT TO STA. 128 + 7.6 SITE 3 2217 EAST JOHN ST LLC +00.00 +87.58' LT _ DUE¬ -L- 122 -SHEET 6 05–10-2022; RW REVISION: REVISED DUE ON PARCELS 87, 91, 97, 99, AND 171; REVISED PUE OR REMOVED PUE, AND ADDED DUE ON PARCEL 99. ANDED PUE, PIE, AND TECE ON PARCEL 99. AT THE FOUR CORPERS OF THE OLD MONROE ROAD /MCKEE ROAD INTERSECTION; REVISED POED A.225–514. 21+00.00, AND WEST OF OLD MONROE ROAD TO SHOW AS DASHED FOR WOR II-17-2022; RW REVISION: REVISED RW U-4713A RW ON PARCELS 94 AND 95. ADDED PD 03-22-2023; RW AND DESIGN REVISION: ADDED TCE TO PARCELS 91 AND 92. CHANGED D 03-22-2023; DESIGN REVISION: SHIFFED U-TURN BUILB ABOUT 50° TO THE EAST; (BH) MATCHLINE SEE MATCHLINE' SEE 3 REM SEE PERMIT DRAWING TS CHOOL SITE 4
FOR ENLARSEMENT VIEW SPEC LIT SEE PERMIT DRAWING SHEET 14 OF 29 SURFACE WATER IMPACTS FOR ENLARGEMENT VIEW /**TS/**/JS TEMPORARY SURFACE WATER IMPACTS DETAIL 17
SPECIAL LATERAL BASE DITCH (Not to Scale) DETAIL 1
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE) -Y25 WITHROW VENTURES - MONROE ROAD B=2.0 Ft. Type of Liner = Class B Rip-Rap

B= 2.0 Ft.

FROM STA. 134+32 -L- RT TO STA. 135+43 -L- RT FROM STA. 119+50 -L- RT TO STA. 123+00 -L- RT DETAIL 21 PROPOSED SIGNAL -Y24-,-Y25- PROFILE VIEW, SEE SEE SHEET R/W 7 FOR RIGHT OF STATIONS AND OFFSETS Max. d=2.0 Ft. B=2.0 Ft. FROM STA. 10+66 -Y24- RT TO STA. 11+45 -Y24- RT Est. = 50 Tons of Class 'I' Rip-Rap STA. 124 + 92 -L- RT FROM STA. 134+50 -L- LT TO STA. 137+50 -L- LT

PROJECT REFERENCE NO RW SHEET NO. ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER SCALE: 10 = 50' STA. 125 + 50 -L- LT FROM STA. 124+50 -L- LT TO STA. 126+00 -L- LT FROM STA. 124+00 -L- RT TO STA. 125+50 -L- RT DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED FROM STA 20450 - Y25- LT TO STA 23+50 - Y25- LT TO STA 23+50 - Y25- RT TO STA 23+50 - Y25- RW ON PARCELS 91, 92, 93, 98, AND 99; REVISED TCE ON S. AT THE CENTERINE OF MCKEE ROAD AND PORK CHOP of DEALL, REVISED THE MCKEE ROAD DESIGN EAST OF OLD ESTRINSION PROJECT, (BH) PERMIT DRAWING **SHEET 13 OF 29** DATE: 10/24/2023 SITE 3 +00.00 +-L- 122 -SHEET 6 05–10–2022; RW REVISION: REVISED DUE ON PARCELS 87, 91, 97, 99, AND 171; REVISED PUE of REMOVED PUE AND ADDED DUE ON PARCEL 99, ANDED PUE, PDE, AND TOTICE ON PARCEL 99, ATTHE FOUR CORPERS OF THE OLD MONROE ROAD /MCKEE ROAD /MCKEE ROAD MITERSECTION; REVISED FOR WOR 11–17–2022; RW REVISION: REVISED RW U–4713A RW ON PARCELS 94 AND 95. ADDED FOR 03–22–2023; RW AND DESIGN REVISION: ADDED TCE TO PARCELS 91 AND 92. CHANGED E03–22–2023; DESIGN REVISION: SHIFFED U–17NN BULB ABOUT 50 TO THE EAST. (BH) MATCHLINE SEE MATCHLINE' SEE 3 SEE PERMIT DRAWING

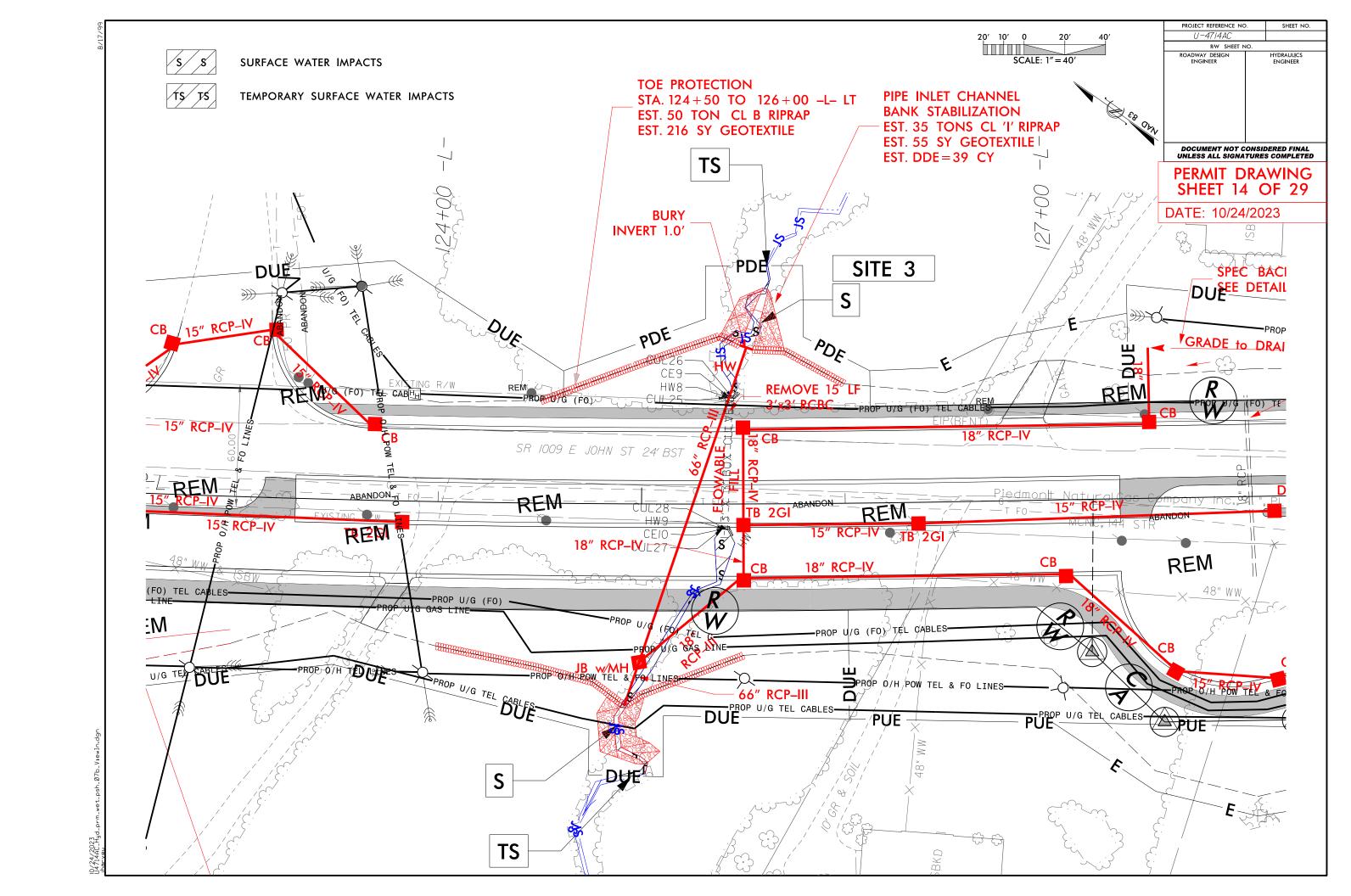
STATELL 150 OF 29

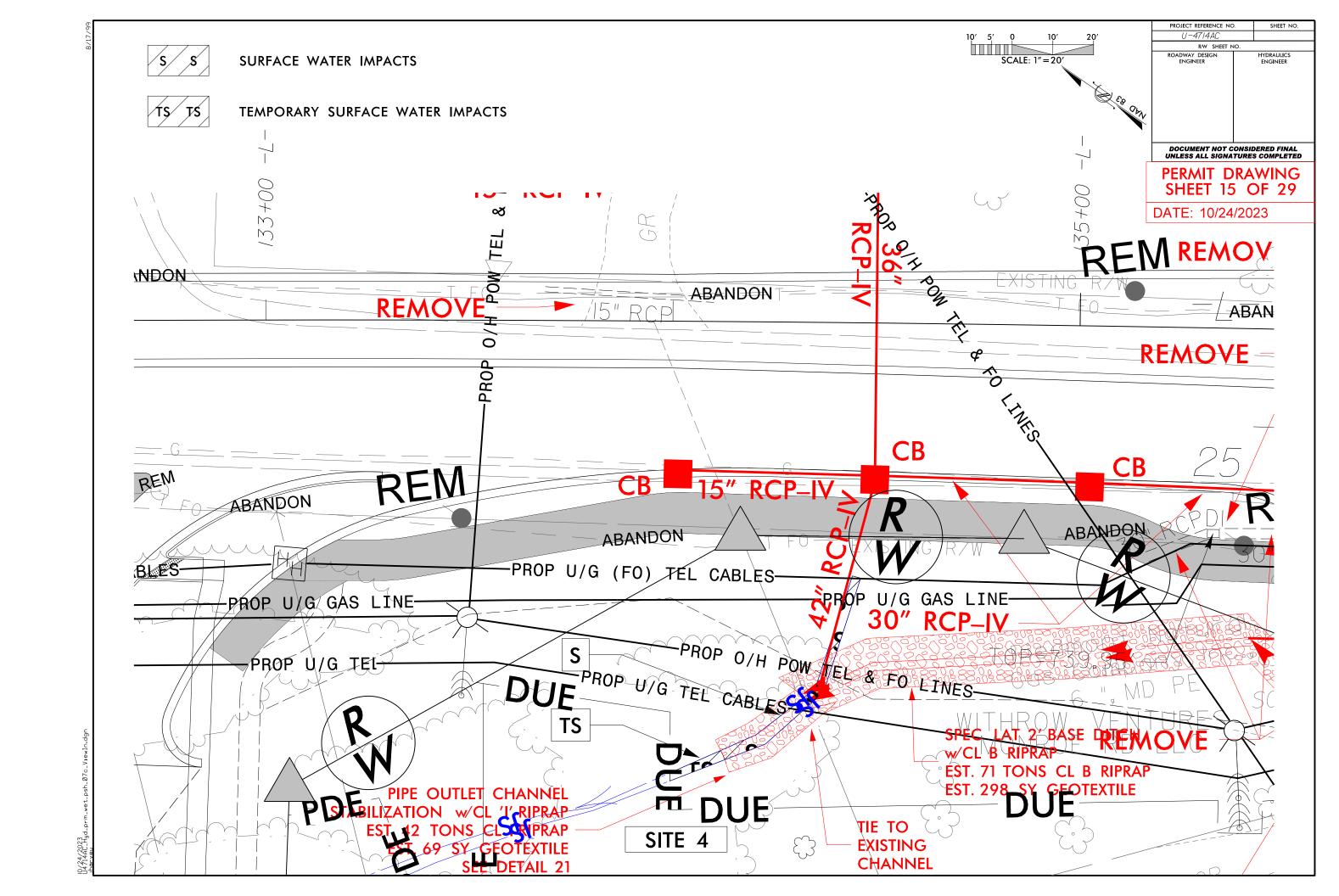
FOR ENLARGEMENT VIEW SEE PERMIT DRAWING SHEET 214 OF 29 SURFACE WATER IMPACTS FOR ENLARGEMENT VIEW TEMPORARY SURFACE WATER IMPACTS DETAIL 1

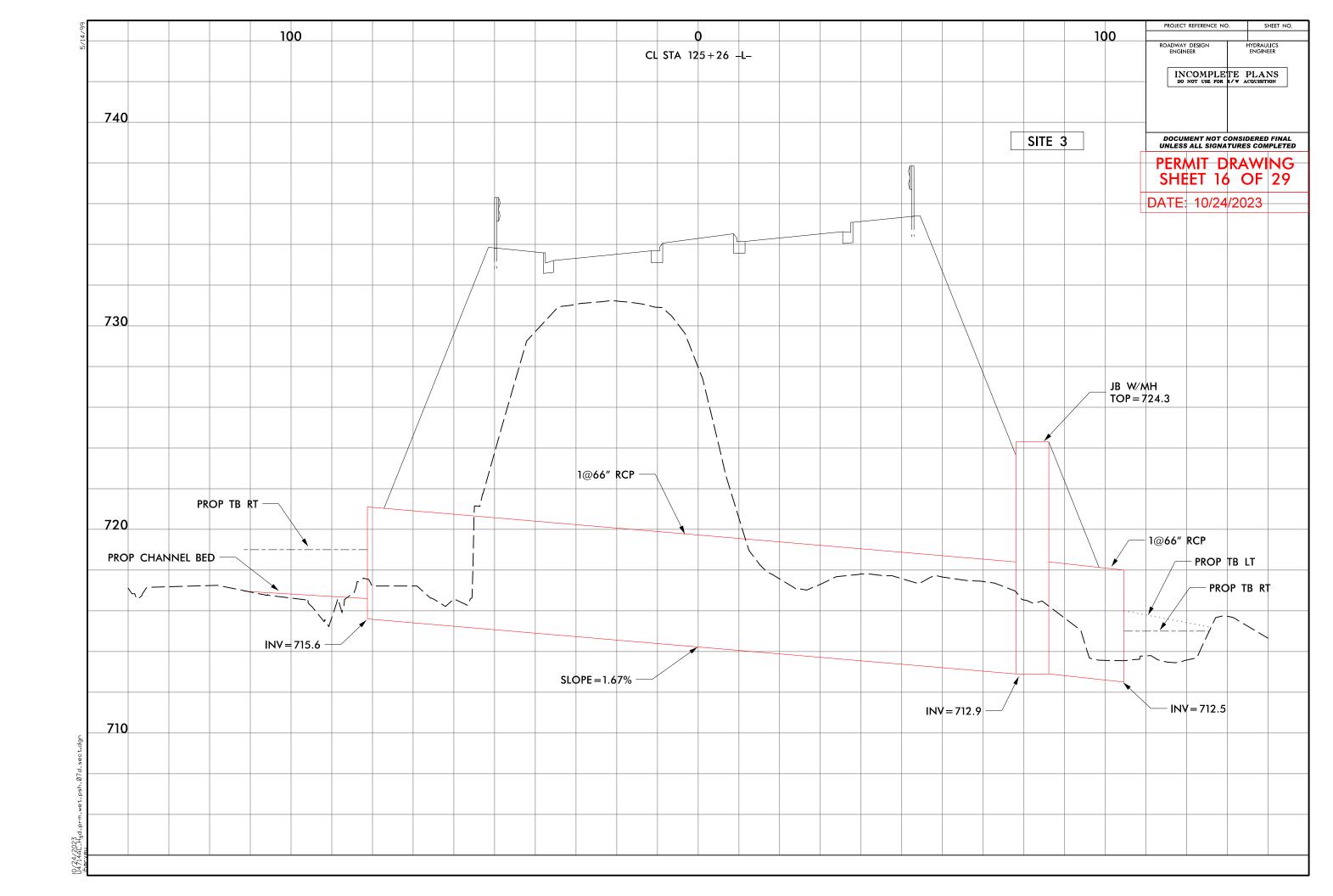
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE) -Y25 WITHROW VENTURES - MONROE ROAD B=2.0 Ft. Type of Liner = Class B Rip-Rap

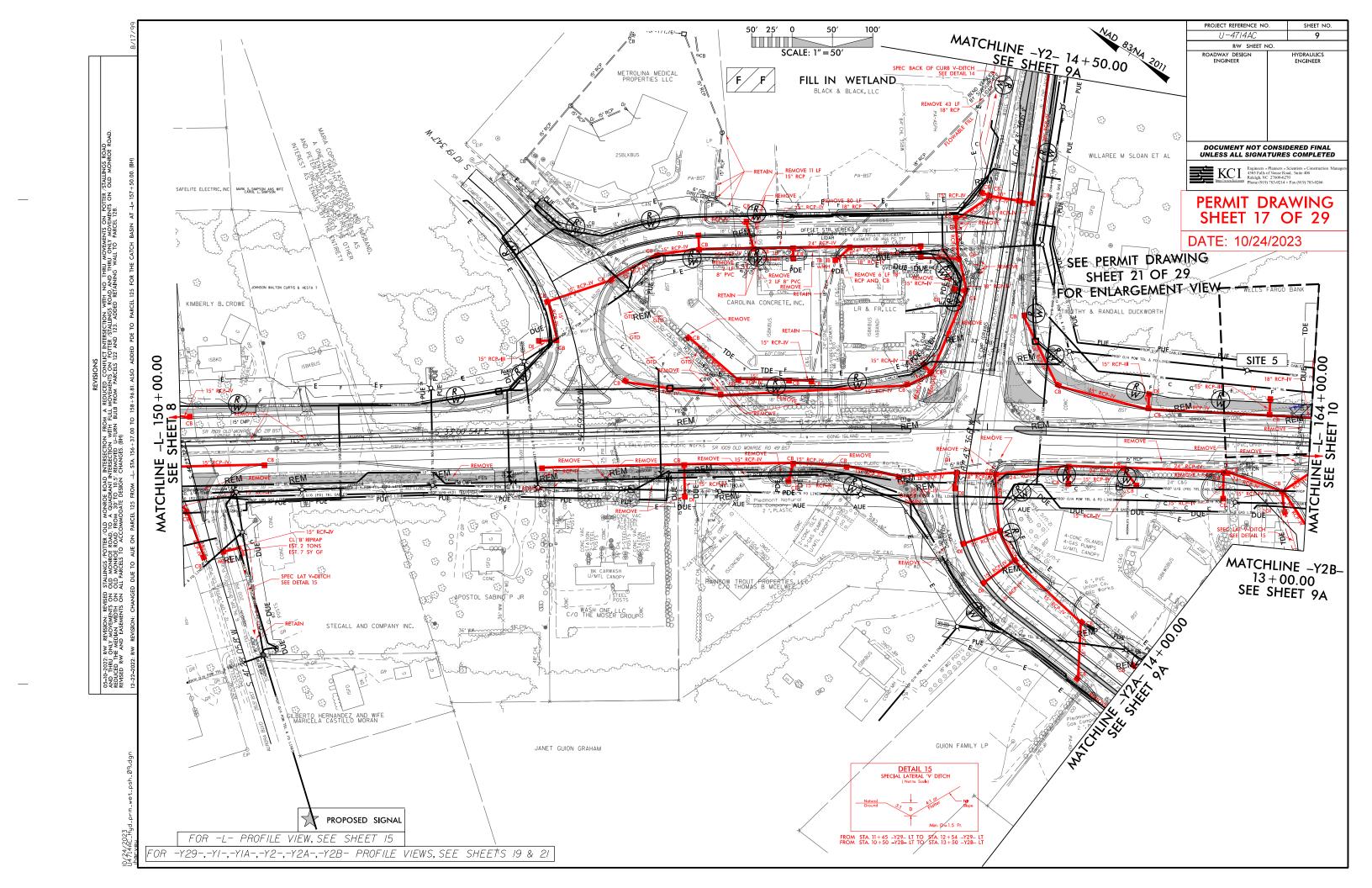
B= 2.0 Ft.

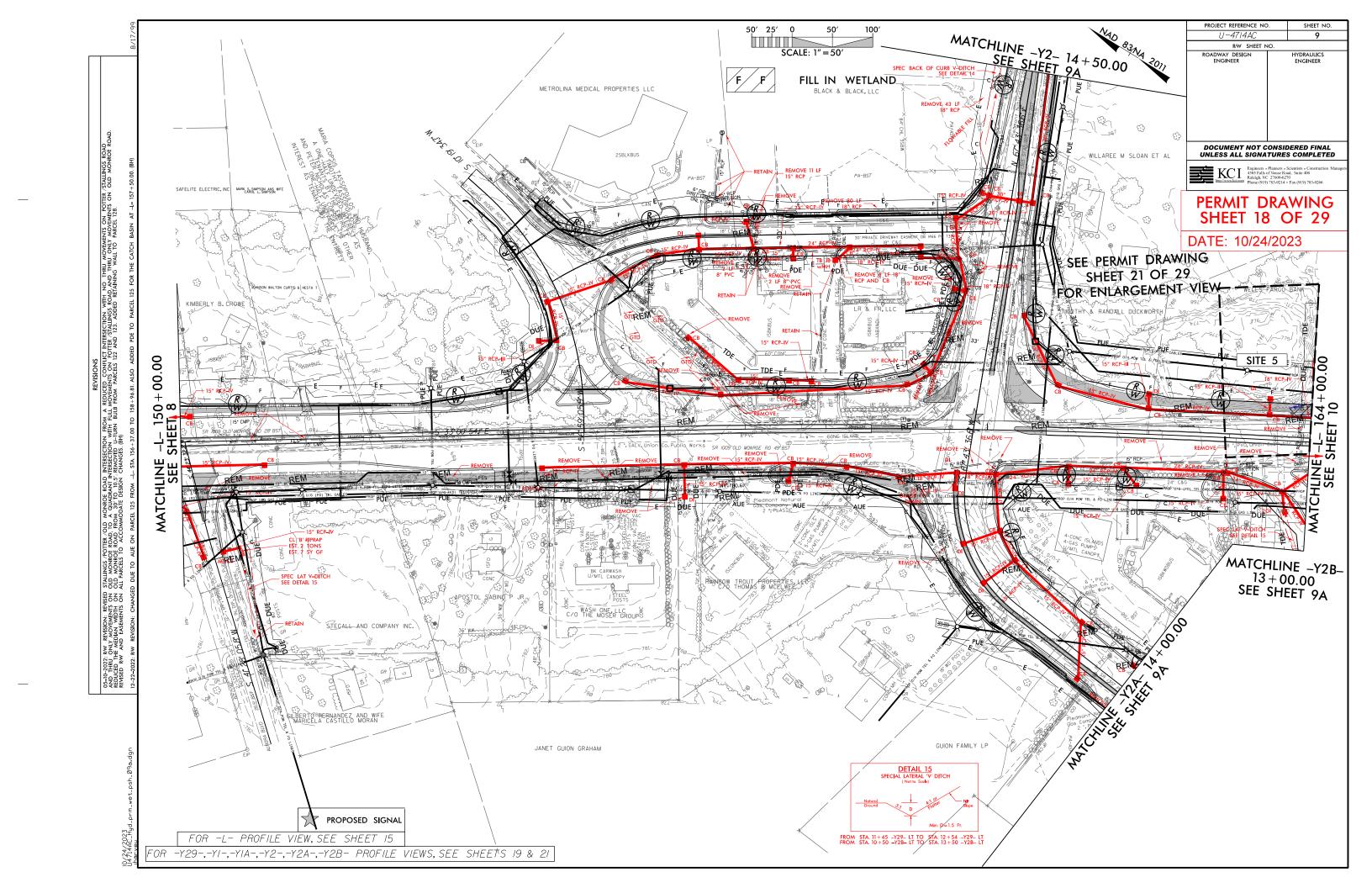
FROM STA. 134+32 -L- RT TO STA. 135+43 -L- RT FROM STA. 119 + 50 -L- RT TO STA. 123 + 00 -L- RT DETAIL 21 PROPOSED SIGNAL Max. d=2.0 Ft. B=2.0 Ft. FROM STA. 10+66 -Y24- RT TO STA. 11+45 -Y24- RT STA. 124 + 92 -L- RT FROM STA, 134+50 -L- LT TO STA, 137+50 -L- L

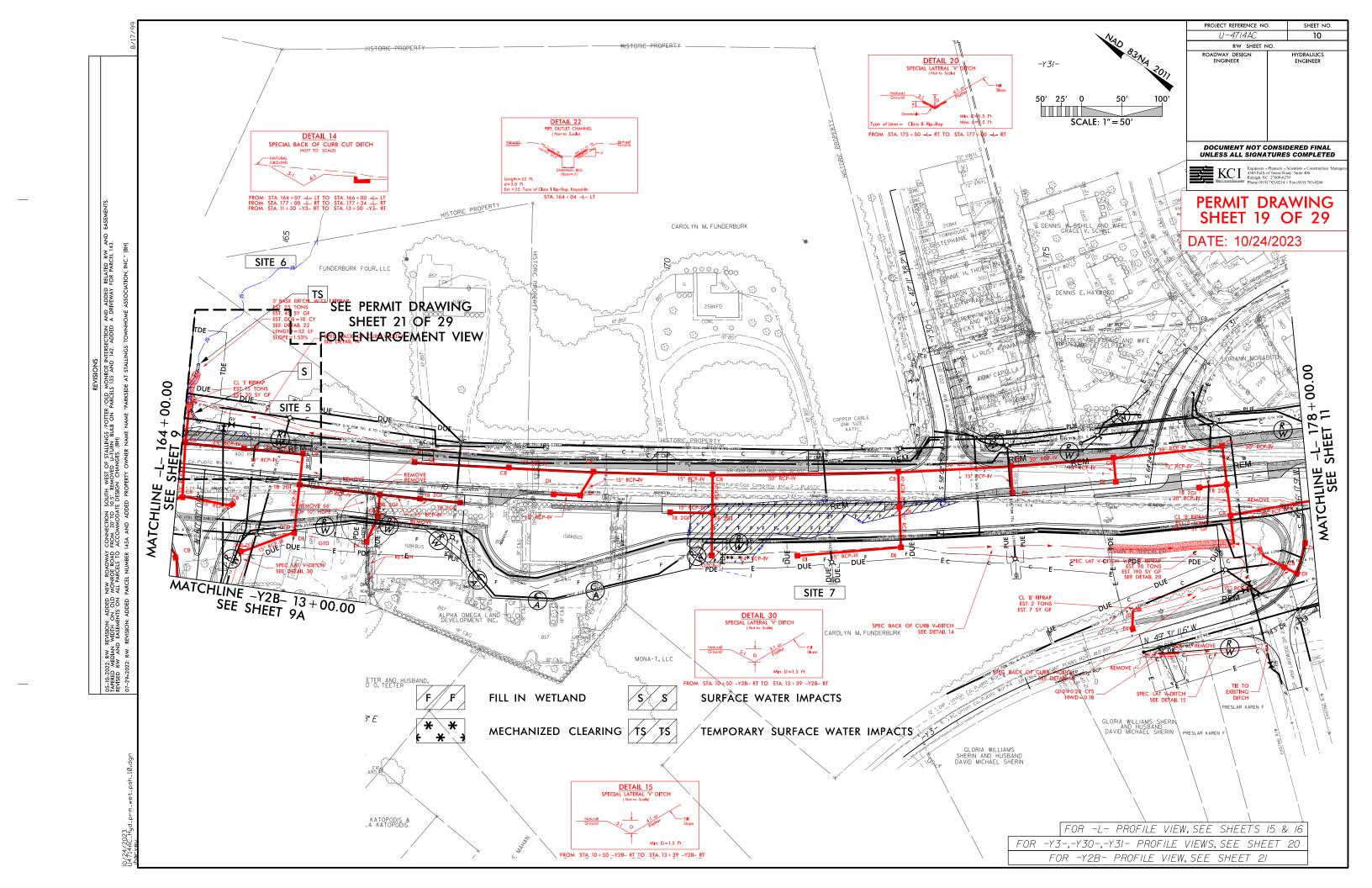


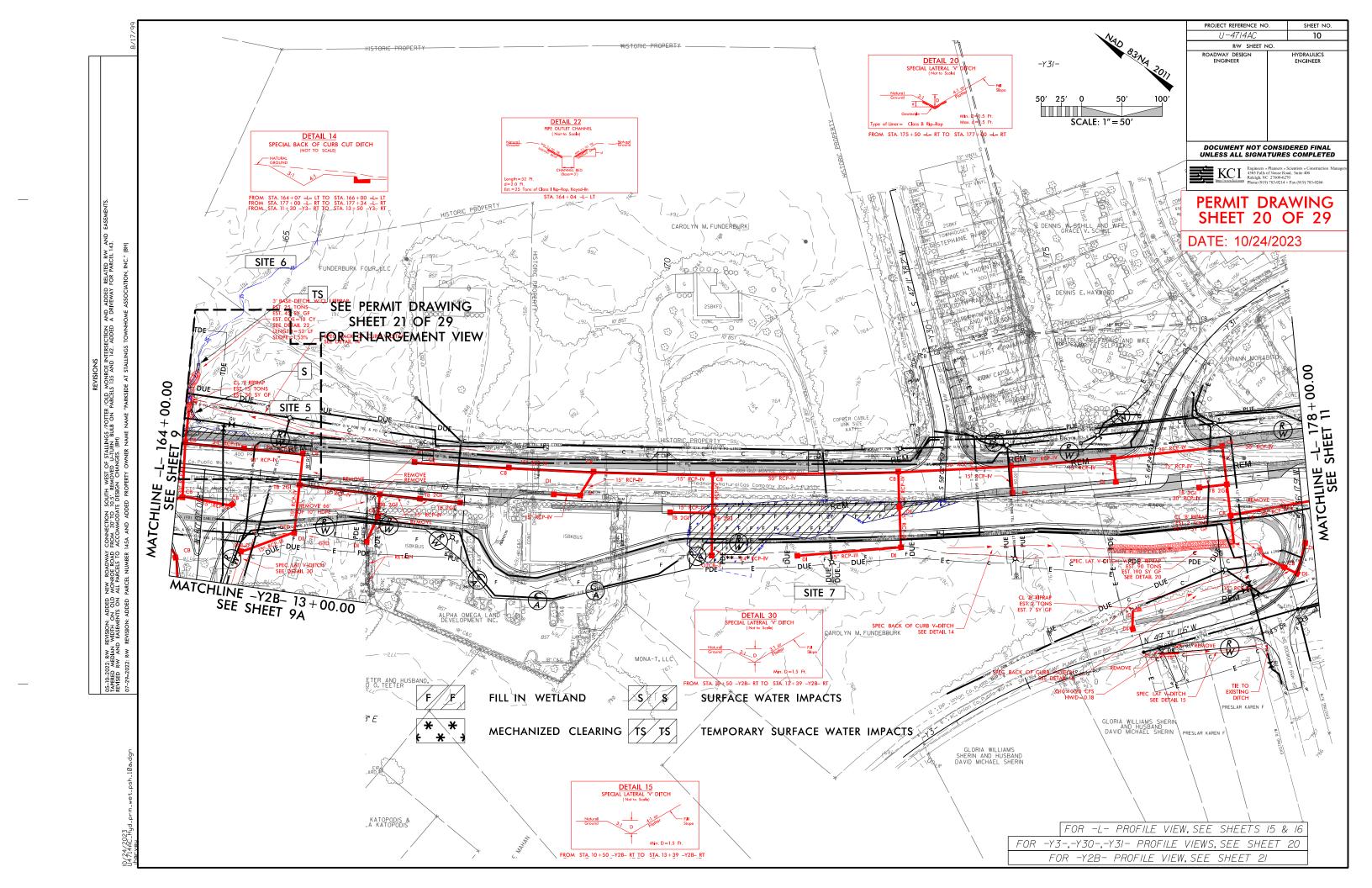


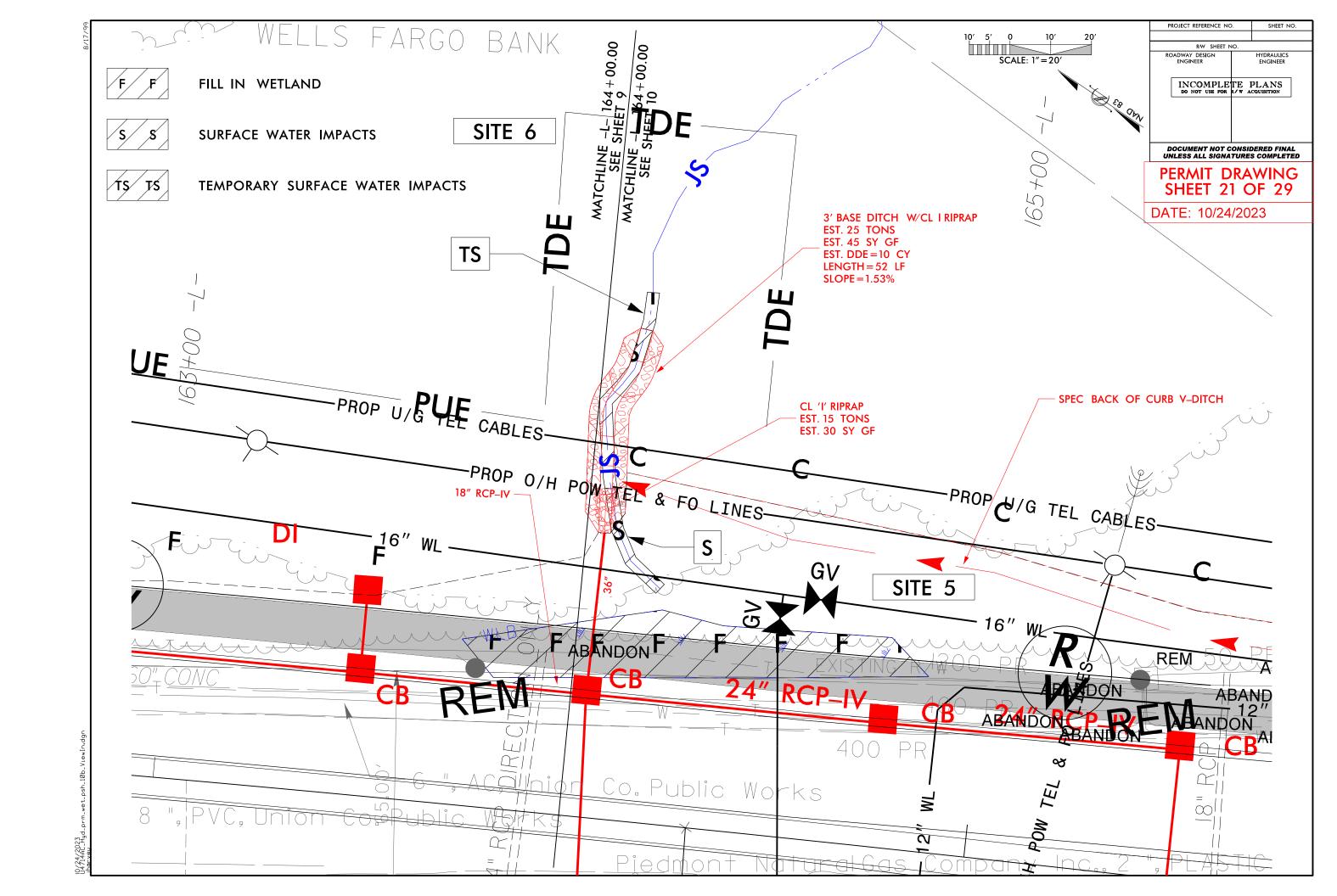


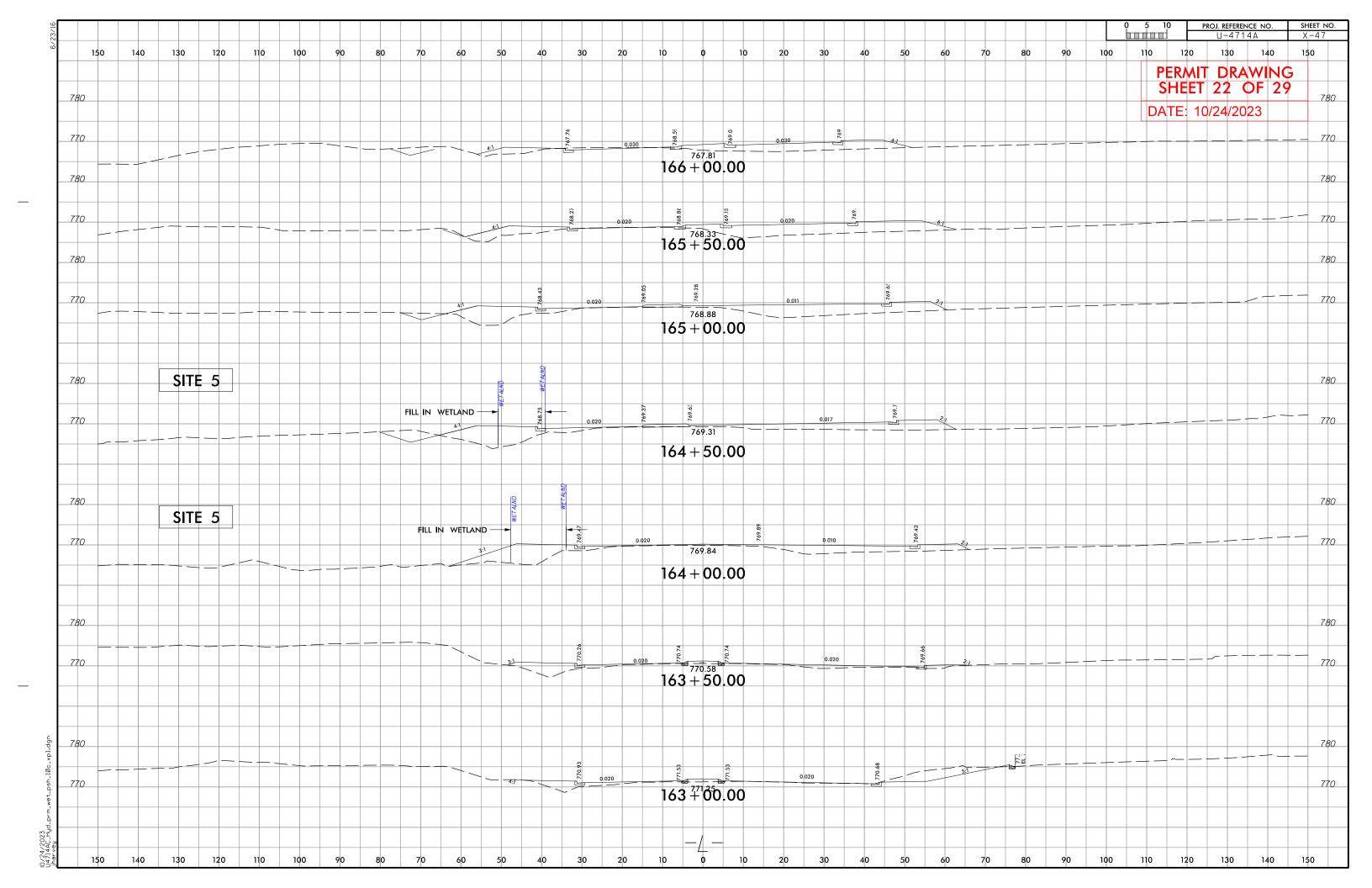


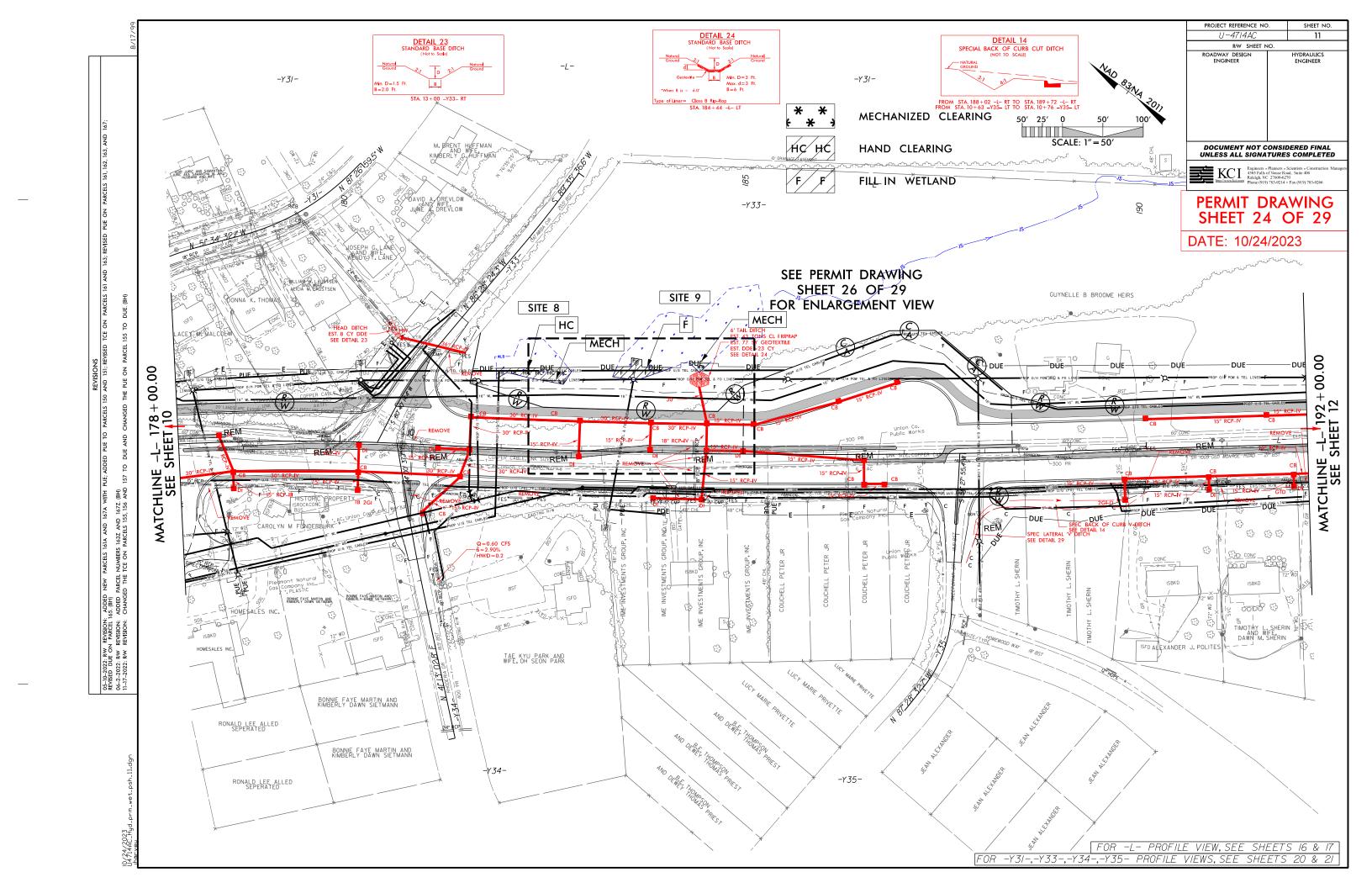


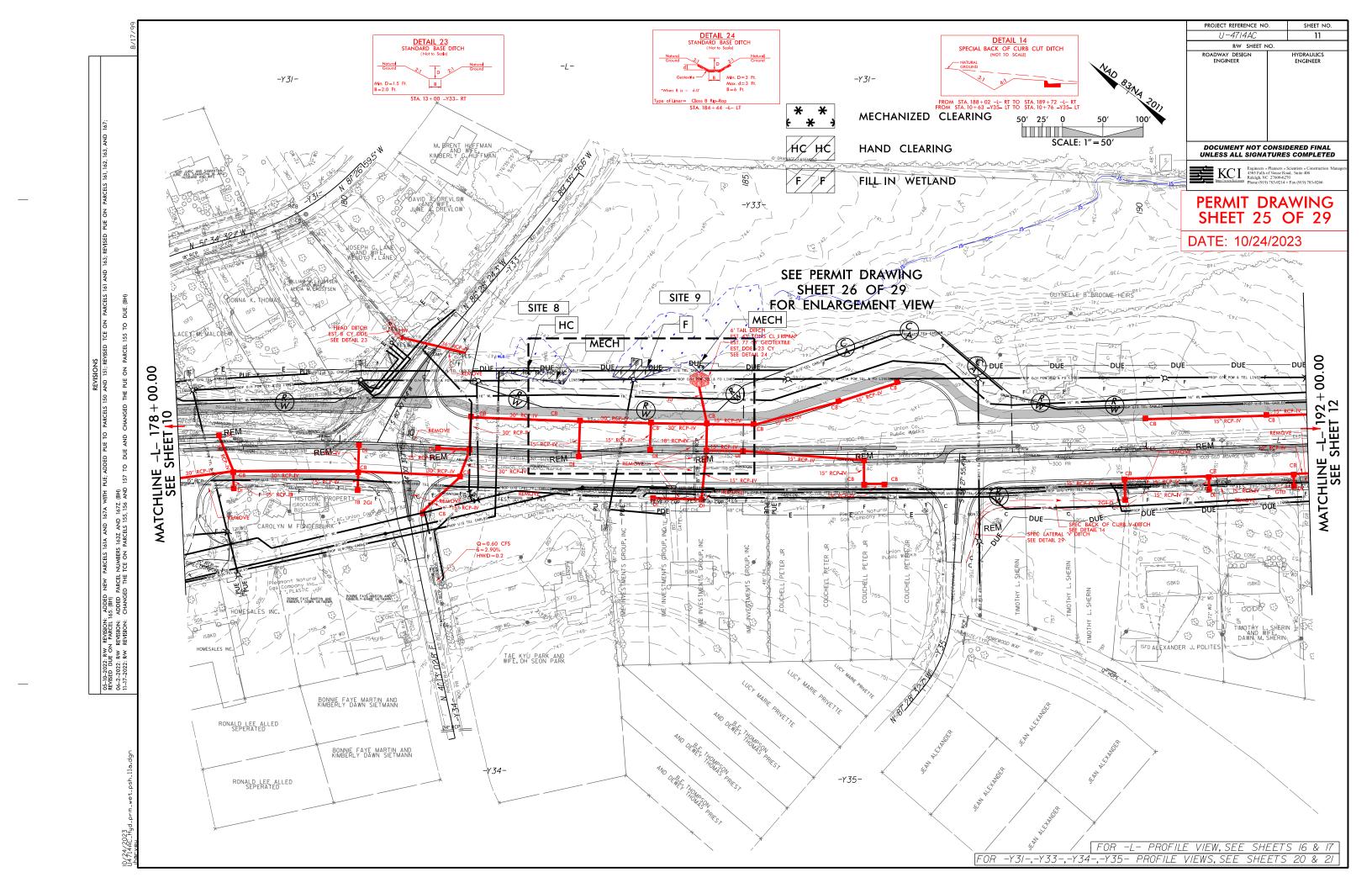


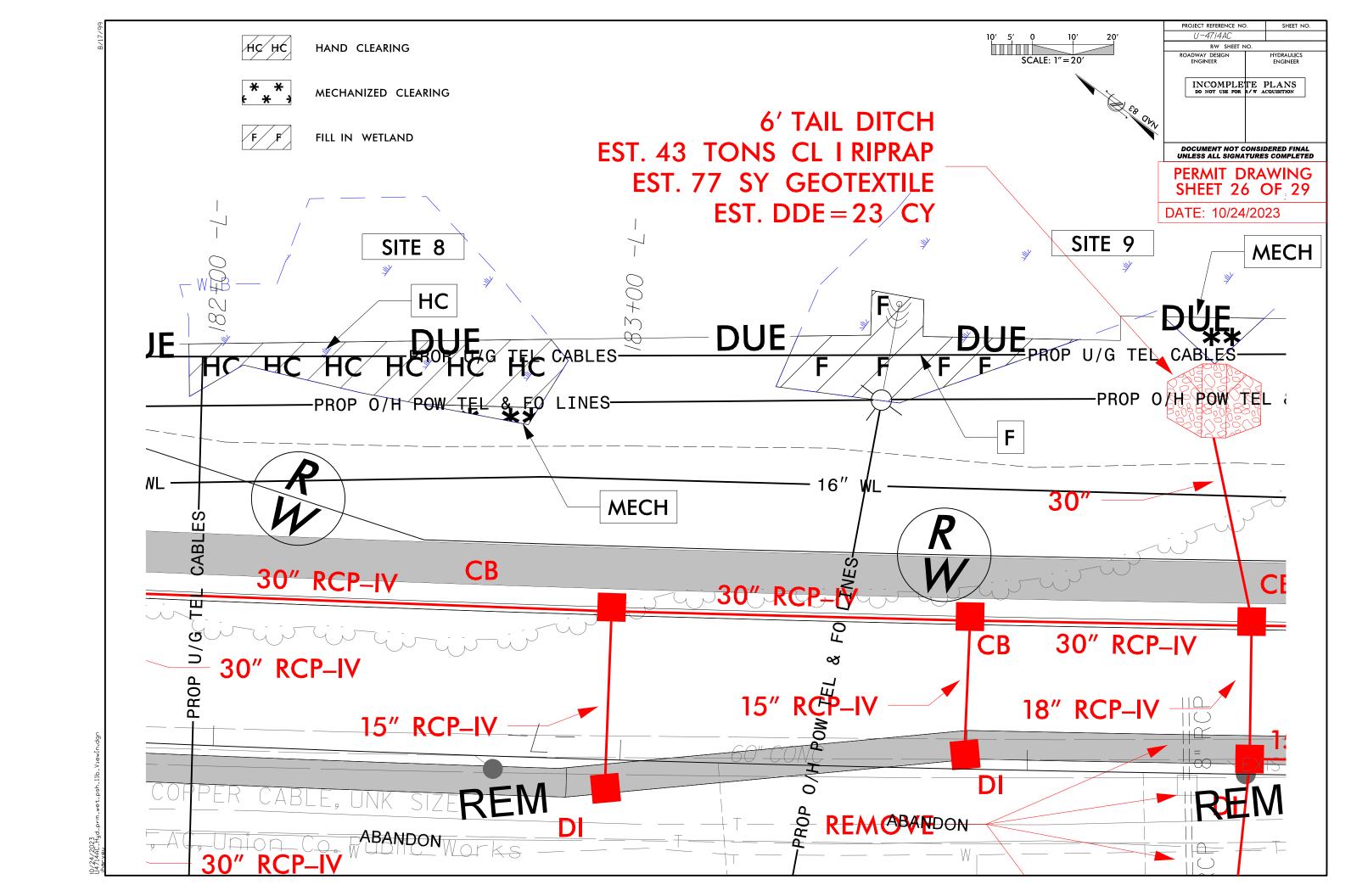


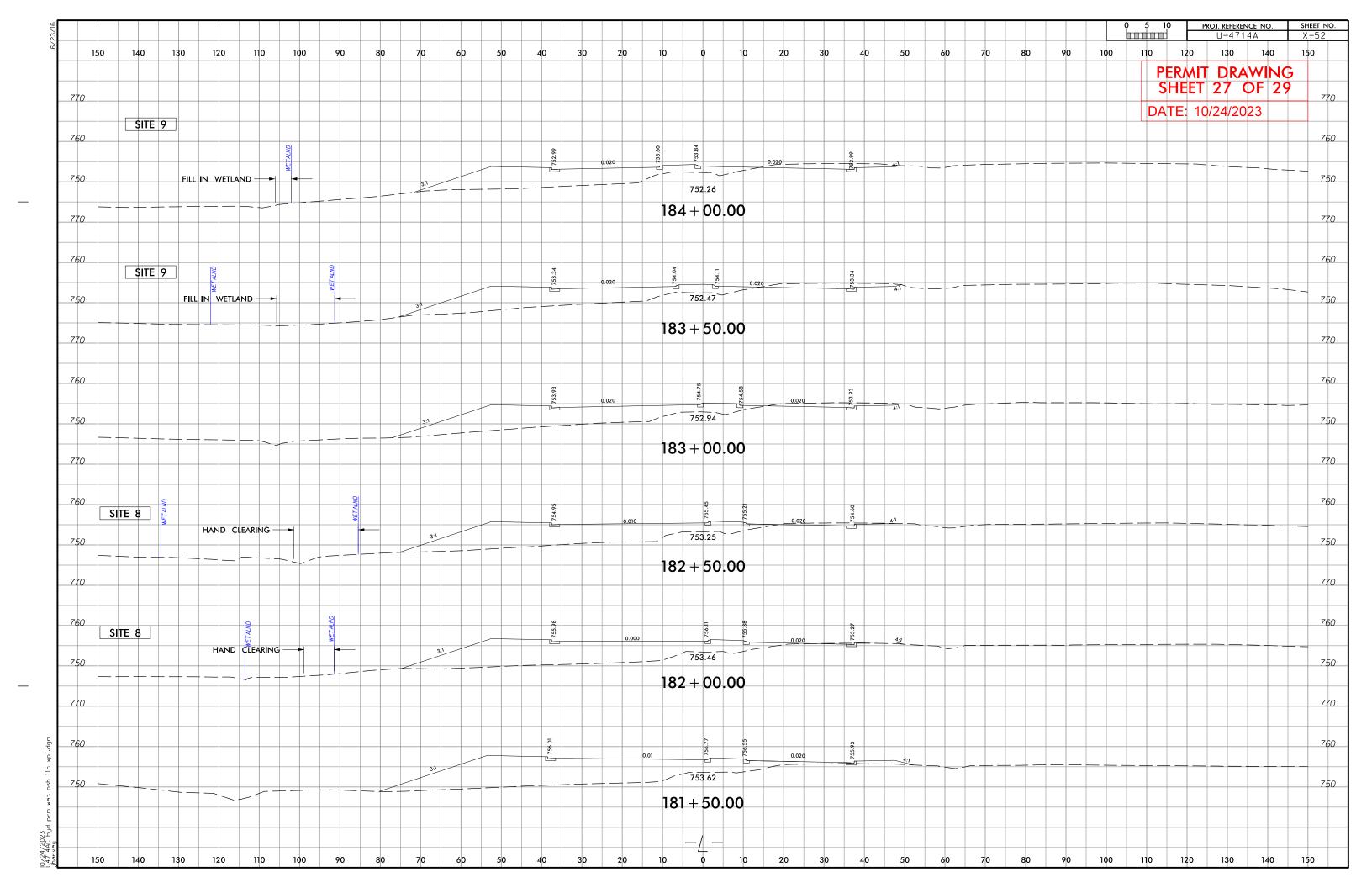












				WE	TLAND IMP	ACTS		SURFACE WATER IMPACTS						
			Permanent	Temp.	Excavation	Mechanized	Hand Clearing	Permanent	Temp.	Existing Channel	Existing Channel	Natural		
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream		
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent	Temp.	Design		
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)		
1	103+94 to 104+35-L-	2 at 5'x6' RCBC EXTENSIONS						< 0.01	< 0.01	96	37			
	104+02 to 104+30-L-LT	INLET CHANNEL						< 0.01		43				
	104+08 to 104+24-L-LT	OUTLET CHANNEL						< 0.01		38				
2	107+90 to 112+10-L-	ROADWAY FILL						0.04	< 0.01	395	8			
		POND						< 0.01	1.07					
3	124+87 to 125+64-L-	66" PIPE						0.01		138				
	125+42 to 125+62-L-LT	INLET CHANNEL						< 0.01	< 0.01	43	12			
	124+90 to 124+93-L-RT	OUTLET CHANNEL							< 0.01		13			
		OUTLET BANK STABILIZATION								36				
4	134+00 to 134+47-L-RT	42" PIPE						< 0.01	< 0.01	27	14			
	134+13 to 134+39-L-RT	OUTLET CHANNEL						< 0.01		31				
5	163+72 to 164+87-L-LT	ROADWAY FILL	0.03											
6	164+00 to 164+34-L-LT	ROADWAY FILL						< 0.01		28				
	164+00 to 164+20-L-LT	OUTLET CHANNEL						< 0.01	< 0.01	42	9			
7	170+31 to 173+69-L-	ROADWAY FILL	0.28			< 0.01								
TOTAL	S*:		0.31			< 0.01		0.08	1.08	917	93	0		

^{*}Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10-24-2023
MECKLENBURG/UNION COUNTY
U-4714AC
39078.3.9
SHEET 28 OF 29

Revised 2018 Feb

				WE	TLAND IMP	ACTS	SURFACE WATER IMPACTS					
Site No.	Station (From/To)	Structure Size / Type	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)
8	182+48 to 182+78-L-LT	ROADWAY FILL				< 0.01	0.03					
9	183+35 to 184+57-L-LT	OUTLET CHANNEL	0.02			< 0.01						
	TOTALS:	SHEET 28 OF 29	0.31			< 0.01		0.08	1.08	917	93	
OTAL	S*·		0.33			0.01	0.03	0.08	1.08	917	93	0

^{*}Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10-24-2023
MECKLENBURG/UNION COUNTY
U-4714AC
39078.3.9
SHEET 29 OF 29

Revised 2018 Feb



North Carolina Department of Transportation

Highway Stormwater Program STORMWATER MANAGEMENT PLAN



Version 3.00; Released August 2021)

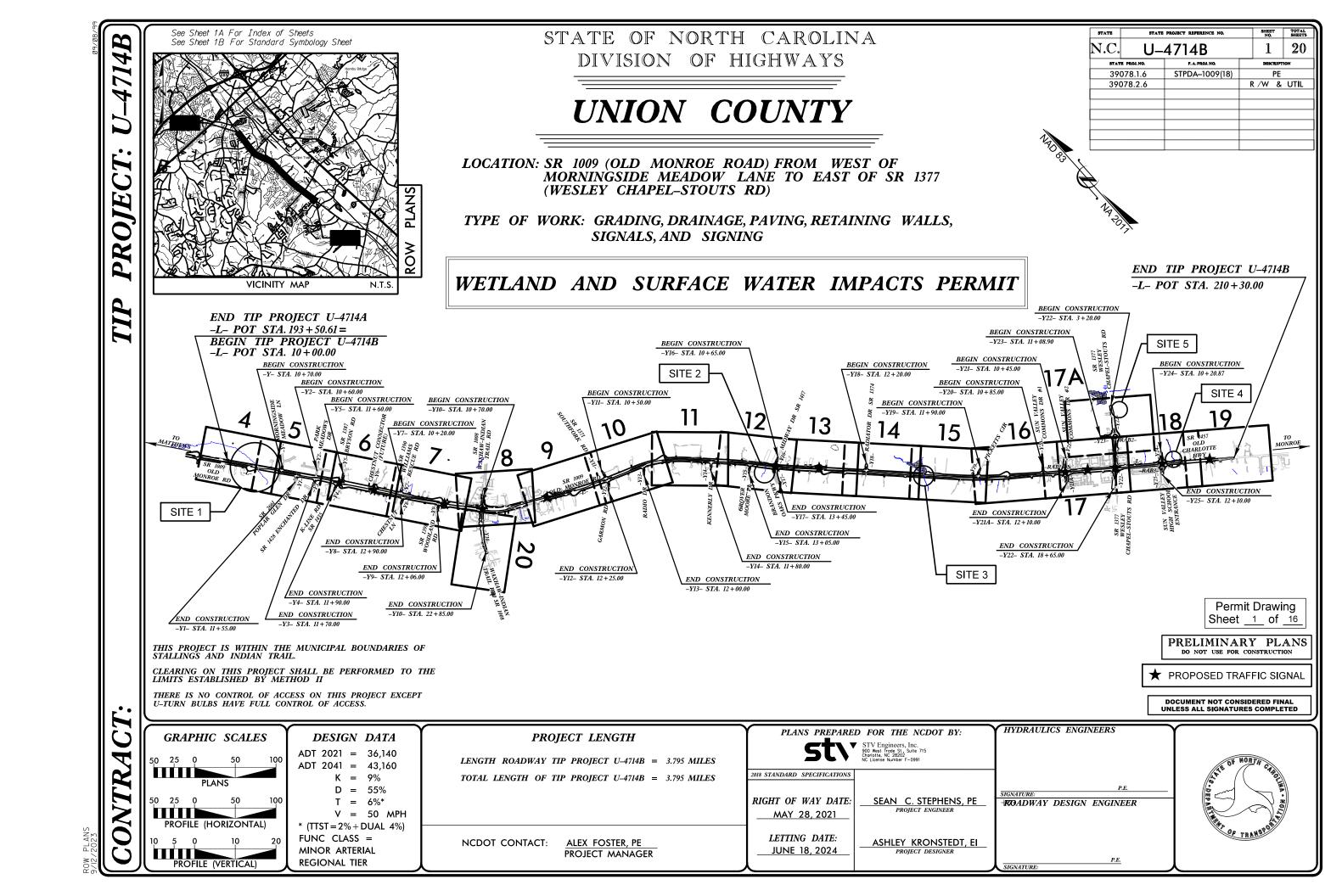
FOR NCDOT PROJECTS WBS Element: TIP/Proj No: U-4714B County(ies): Union Page **General Project Information** WBS Element: TIP Number: U-4714B Project Type: Roadway Widening 9.5.2023 Date: NCDOT Contact: Carlas Sharpless, PE Contractor / Designer: STV Engineers, Inc. Address: 1000 Birch Ridge Drive Address: 900 West Trade Street Suite 715 Raleigh, NC 27610 Charlotte, NC 28202-1144 Phone: (919) 707-6731 Phone: (704) 816-2555 Email: Edward.Vance@stvinc.com Email: crsharpless@ncdot.gov City/Town: Stallings & Indian Trail County(ies): Union River Basin(s): Catawba Yadkin-Pee Dee CAMA County? No Wetlands within Project Limits? Yes **Project Description** Commercial & Residential Project Length (lin. miles or feet): 3.80 Surrounding Land Use: **Existing Site Proposed Project** Project Built-Upon Area (ac.) Typical Cross Section Description: Proposed four 12' travel lanes with a raised median and center turn lanes, Proposed curb Existing two travel lanes with occasional center turn lane and right turn lanes. Sidewalk & gutter and sidewalk along improvement section of roadway. and curb & gutter within more heavily developed parts of the project area Annual Avg Daily Traffic (veh/hr/day): Existing: Design/Future: 43,160 Year: 2041 36,140 2021 Year General Project Narrative: The project includes a proposed four travel lane section, with center turn lanes, raised medians, right turn lanes, roundabouts, sidewalk, and curb and gutter. There are nineteen (Description of Minimization of Water storm water outfalls that carry roadway drainage from the project area and from offsite. Existing drainage systems within the project limits connected to systems outside of the Quality Impacts) ROW will be modified to account for the road widening and tie to the existing pipes of each system. Storm Water Treatment is not provided considering the potential impacts to

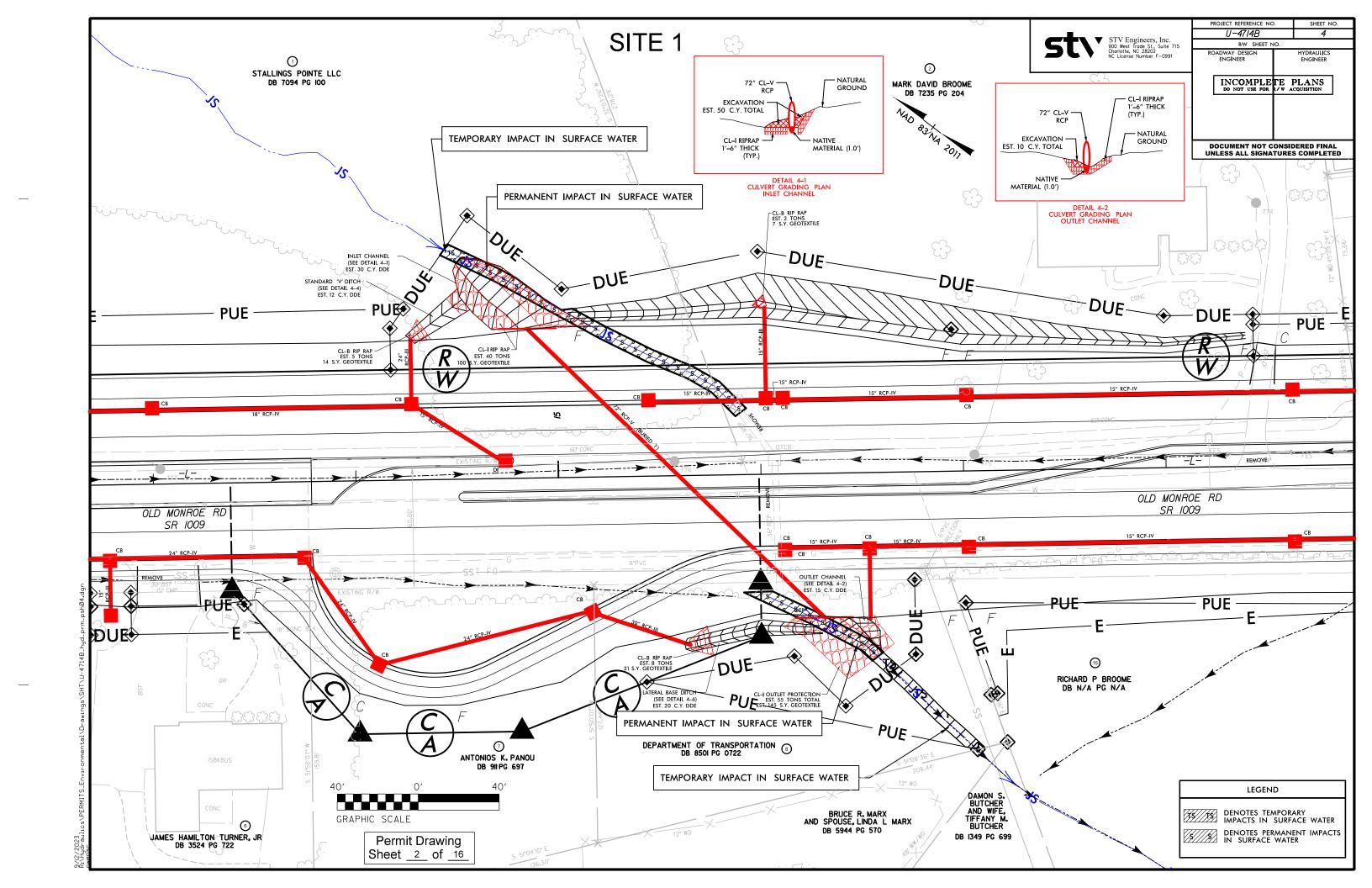
existing utilities, adjacent properties, and existing natural features. Appropriately sized rip rap aprons and/or outfall channel improvements including rip rap lined channels will be constructed at all outfalls to mitigate any potential erosion due to increased flows. There are several existing dry detention basins along -L-(Old Monroe Road) and -Y22- (Wesley Chapel Stouts Road), the proposed roadway improvements will not discharge to these basins. Some of the existing basins currently discharge through the roadside drainage systems in NCDOT ROW, the proposed systems will continue to convey water from these basins to the same outfall points. There are a total of five surface water/wetland impact sites on this section of the project U-4714B. The first permitted site is at approximately -L- Sta. 15+55 and will replace a 36" RCP cross pipe that carries a small tributary to Davis Mine Creek with a 72" RCP pipe that is buried 1'. The replacement pipe will be skewed to better align with the channel. Inlet and outfall improvements with riprap placed on the side slopes of the channel will mitigate erosion issues for this site. The second site will be at approximately -L- Sta. 118+10 and will consist of the removal of a 24" cross pipe conveying a small tributary to Price Mill Creek. A new drainage system with an outfall approximately 60' downstream from the current outfall will replace the existing cross pipe. A rip rap pad will be placed at the outfall to control outfall velocities and minimize potential erosion to the receiving channel. The third site will be located at -L- Sta. 149+20 and is located at a 54" RCP cross pipe at the confluence of two additional unnamed tributaries to Price Mill Creek. The single 54" pipe will be replaced with a dual 6'x6' RCBC that is buried 1'. Inlet and outfall improvements with riprap placed on the side slopes of the channel will mitigate potential erosion issues for this site. The fourth site is conveying a small tributary to South For Crooked Creek at approximately -L- Sta. 198+50 and will replace a 24" RCP cross pipe with a 36" RCP pipe including a rip rap outlet pad. The outfall channel is in a wetland and will be widened and regraded to lower velocities and minimize potential erosion. And the last site is at -Y22- Sta. 0+51 where an existing roadside ditch will be reconstructed with a rip rap lining which outfalls to the downstream end of a dual 30" pipe culvert. This last site is also a small tributary to South Fork Crooked Creek.

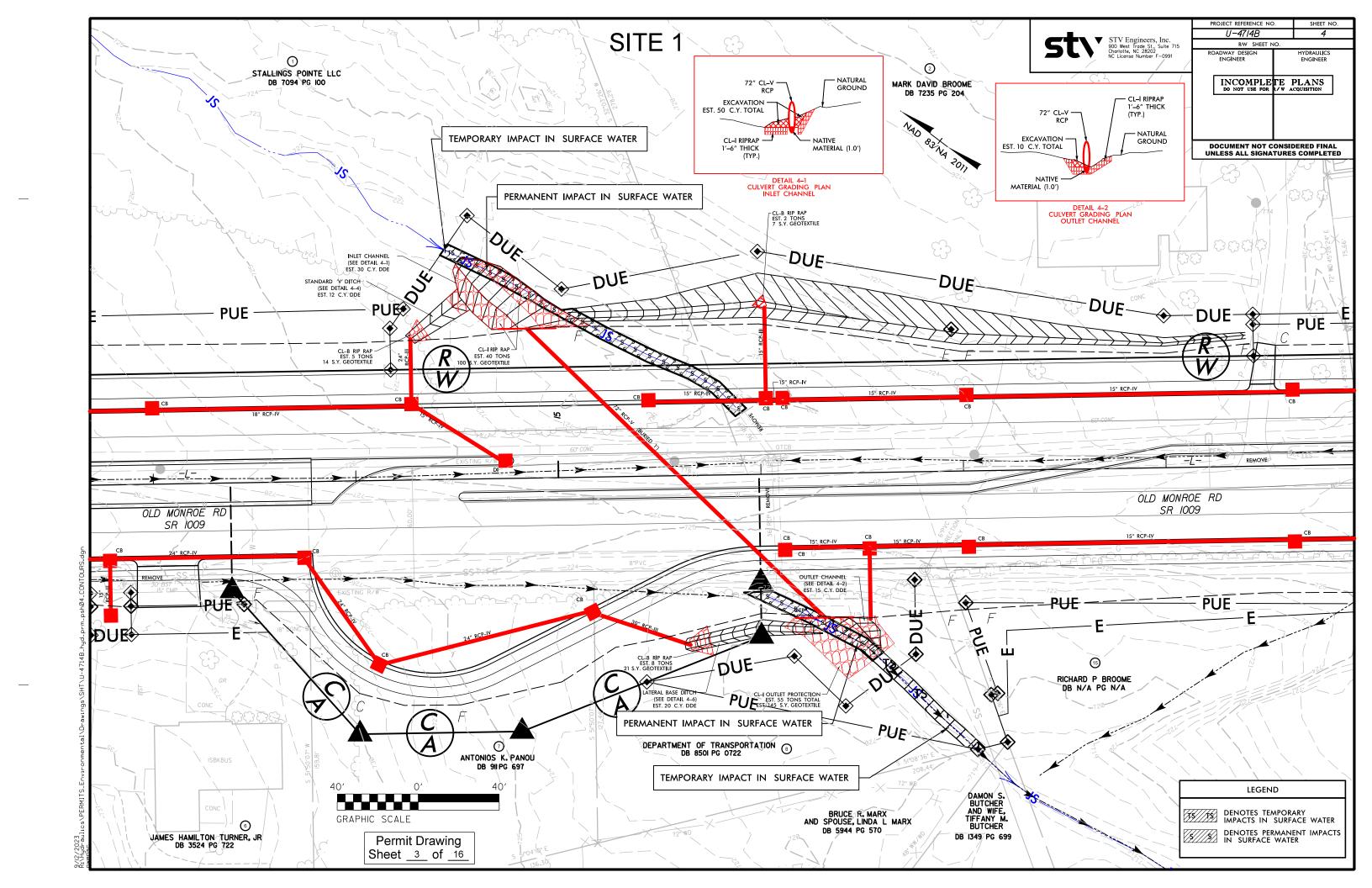
Please fill out all yellow cells as completely as possible. Use pick lists where provided. For more information on the NCDOT Stormwater Management Plan form, please refer to the document, NCDOT Stormwater Best Management Practices Toolbox (2014).

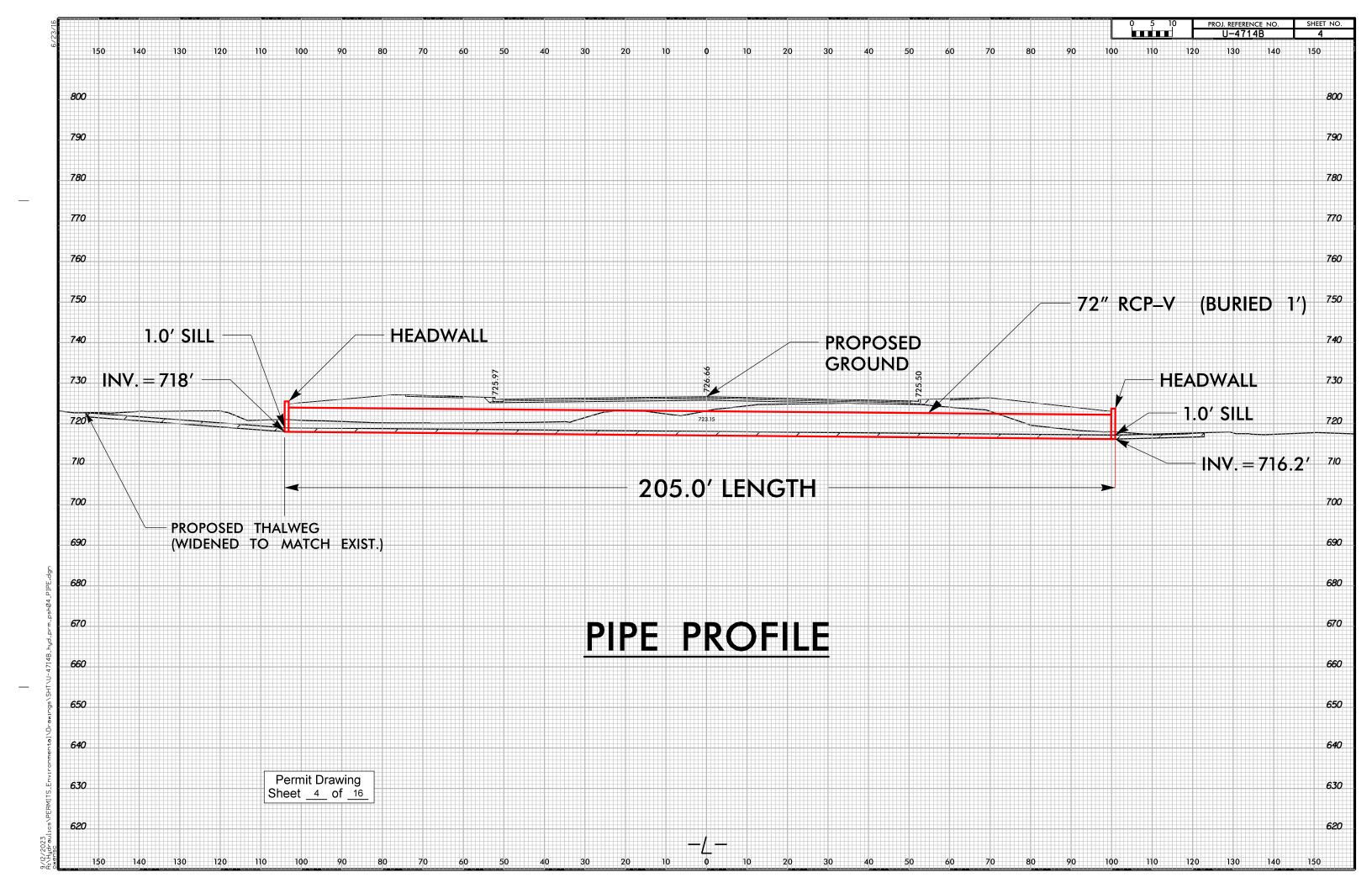
If the project drains to multiple water bodies, please drag the print area down such that Water Bodies 4 through 7 print on the second page, water bodies 8 through 11 on third, etc.

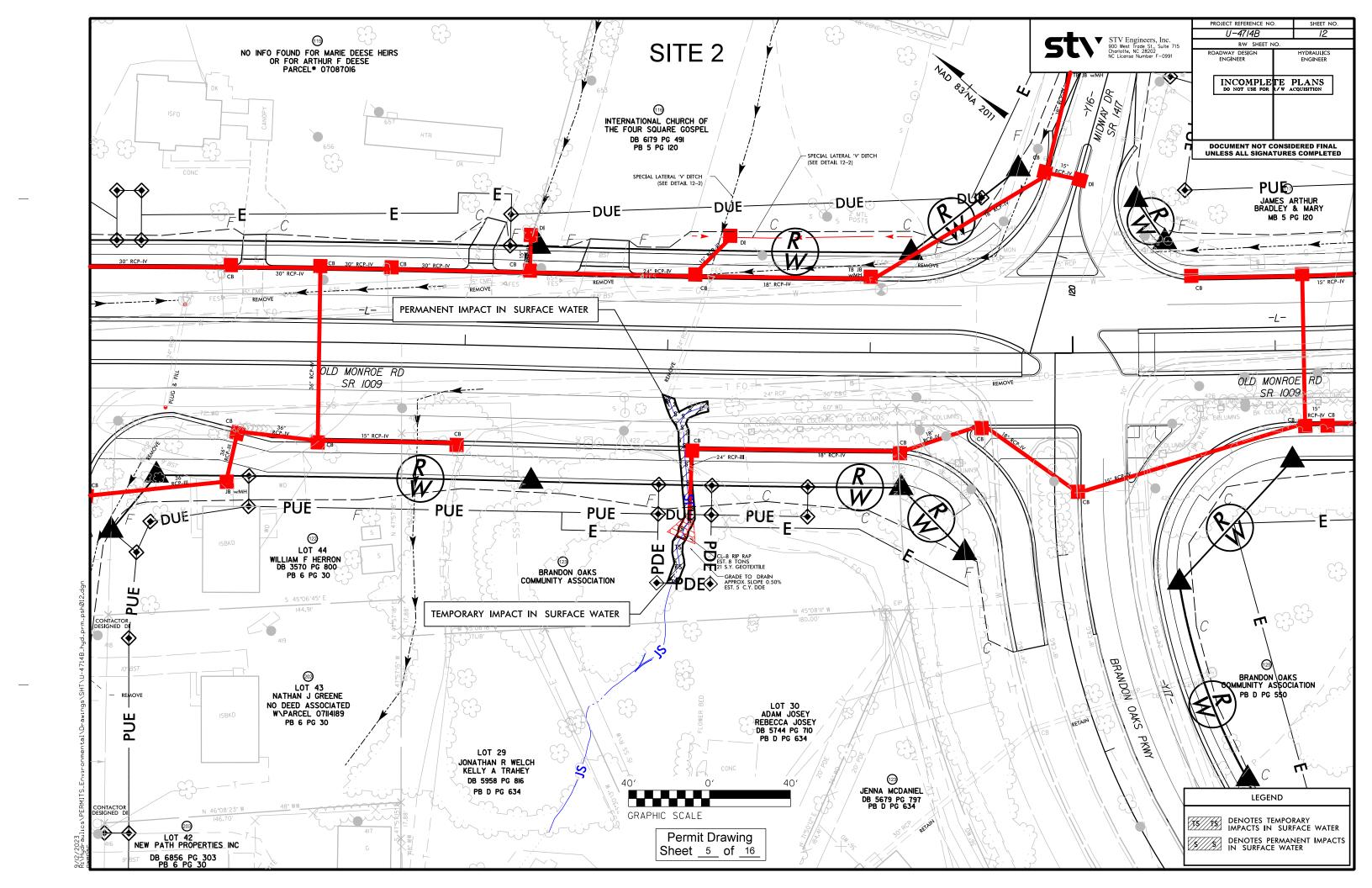
Highway – Stormwater			North Carolina Departme	•	on				
PWXGRAM			Highway Stormw STORMWATER MAN						OF MANHOR
(Version 3.00; Released August 2021)			FOR NCDOT P						
WBS Element:	TIP/Proj No.:	U-4714B	County(ies):	Union			Page	2	of 2
			General Project I	nformation					
			Waterbody Info						
Surface Water Body (1):		Davis Mi	ne Creek	NCDWR Stream In	idex No.:		11-138-2-2-1		
NCDWD Surface Water Classification for	" Water Bady		Primary Classification:	Class	С				
NCDWR Surface Water Classification for	r water Body		Supplemental Classification:						
Other Stream Classification:									
Impairments:	No	ne							i '
Aquatic T&E Species?	No	Comments:		•					
NRTR Stream ID:	SR					Buffer Rules in Effect:			N/A
Project Includes Bridge Spanning Water	Body?	No	Deck Drains Discharge Over Bu	ffer?	N/A	Dissipator Pads Provided	in Buffer?		
Deck Drains Discharge Over Water Body	y?	N/A	(If yes, provide justification in	the General Project	Narrative)	(If yes, describe in the Ge	neral Project N	arrative; if no	, justify in the
(If yes, provide justification in the 0	General Project Na	arrative)				Gene	ral Project Nar	rative)	
Surface Water Body (2):		South Fork C	rooked Creek	NCDWR Stream In	idex No.:		13-17-20-2		
NCDWR Surface Water Classification for	r Water Redy		Primary Classification:	Class	С				
NCDWR Surface Water Classification for	r water body		Supplemental Classification:						İ
									l
Other Stream Classification:									l
Impairments:	biological ir	mpairment							İ
Aquatic T&E Species?	No	Comments:				_			
NRTR Stream ID:	SX, SY, SZ					Buffer Rules in Effect:			N/A
Project Includes Bridge Spanning Water	Body?	No	Deck Drains Discharge Over Bu		N/A	Dissipator Pads Provided			N/A
Deck Drains Discharge Over Water Body	y?	N/A	(If yes, provide justification in	the General Project	Narrative)	(If yes, describe in the Ge			, justify in the
(If yes, provide justification in the 0	General Project Na	arrative)				Gene	eral Project Nari	rative)	
Surface Water Body (3):		Price M	ill Creek	NCDWR Stream In	idex No.:		11-138-2-2		
NCDWR Surface Water Classification for	r Water Rody		Primary Classification:	Class	С				İ
NODVIN GUITACE VIALET GIASSITICATION TO	. Water Body		Supplemental Classification:						İ
Other Stream Classification:									
Impairments:	No	ne							l
Aquatic T&E Species?	No	Comments:							
NRTR Stream ID:	ST, SU, SV, SW					Buffer Rules in Effect:			N/A
Project Includes Bridge Spanning Water	Body?	No	Deck Drains Discharge Over Bu	ffer?	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 Ge			, justify in the
(If yes, provide justification in the 0	General Project Na	arrative)				Gene	ral Project Nar	rative)	

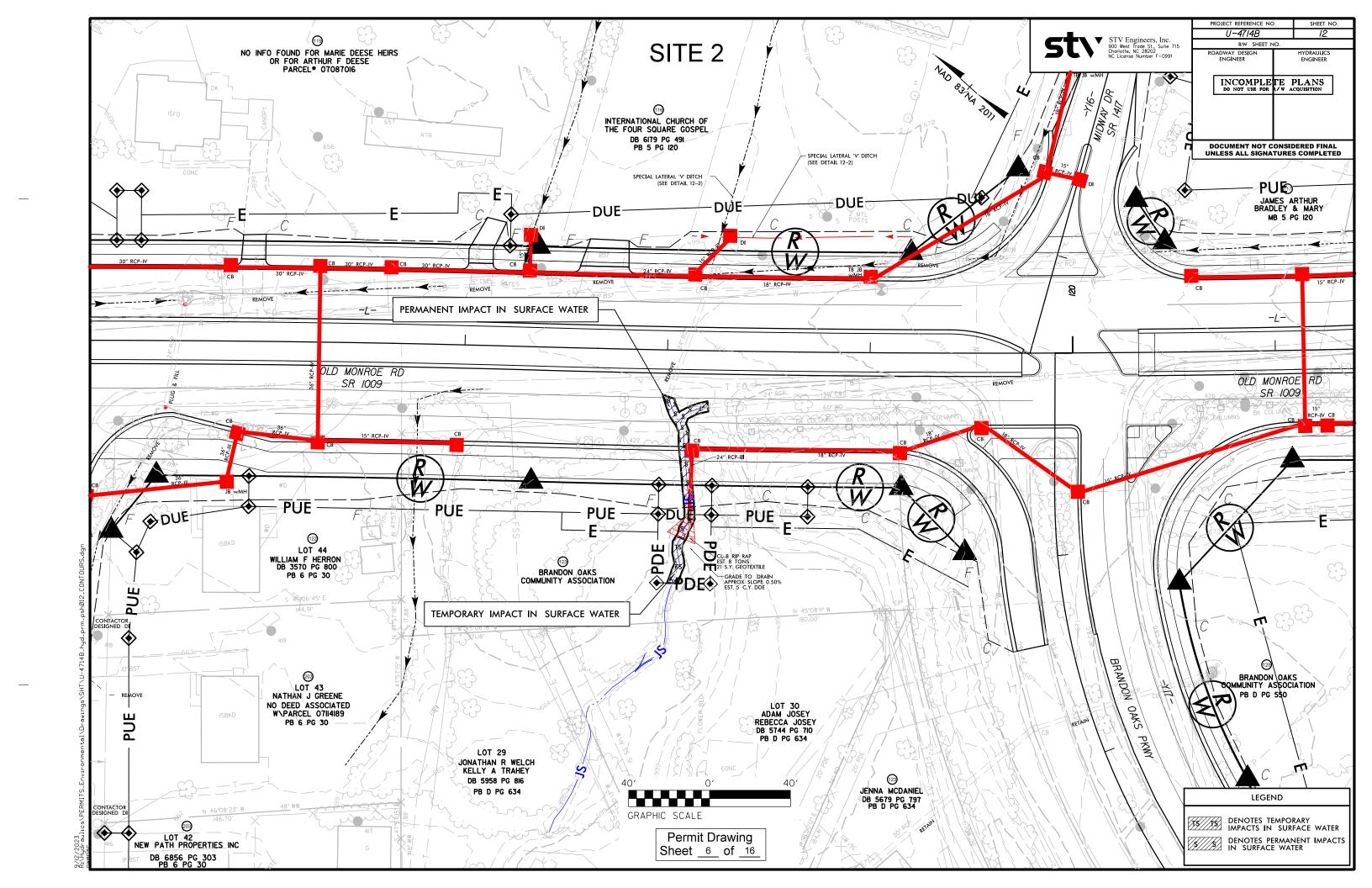


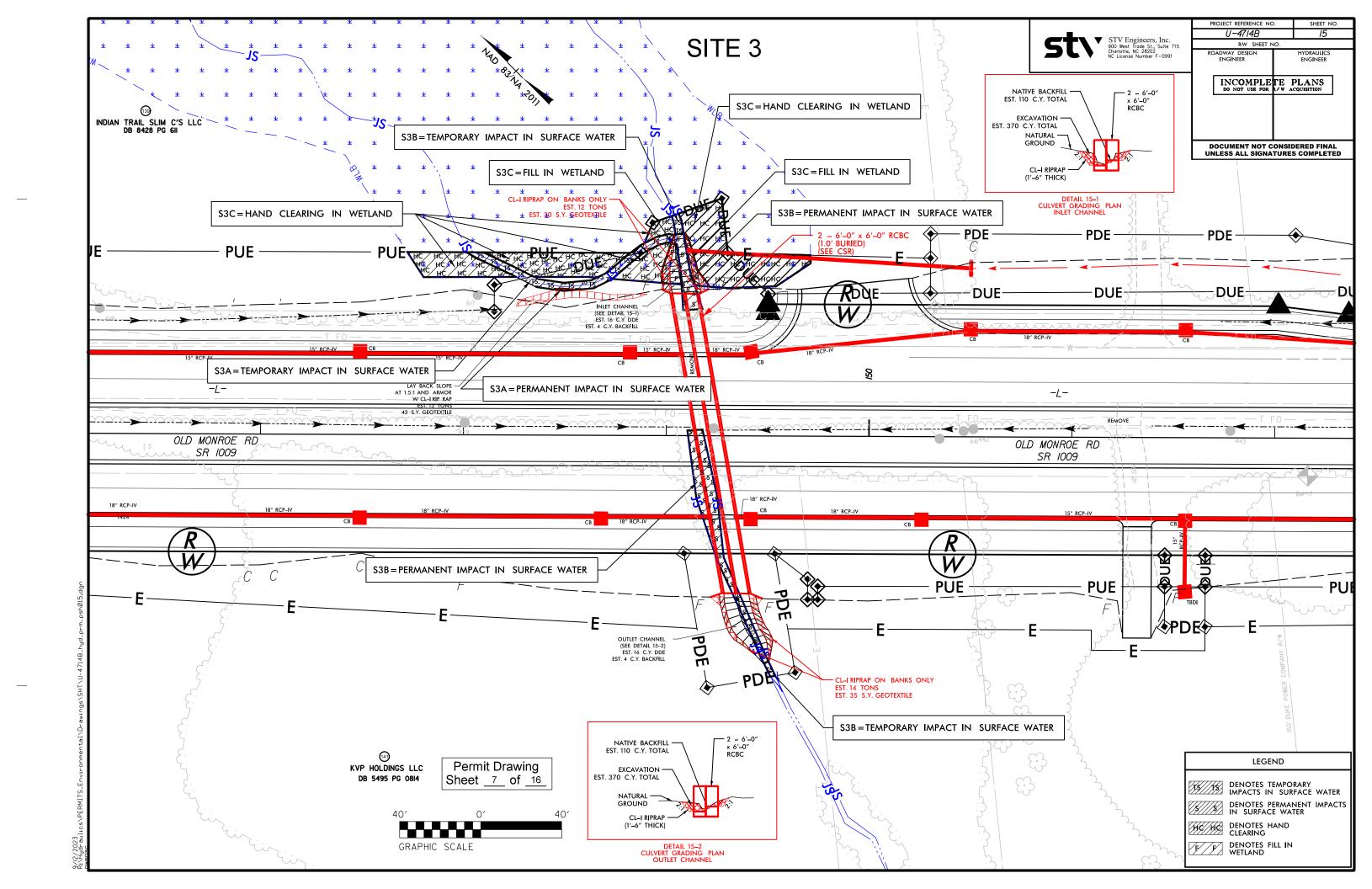


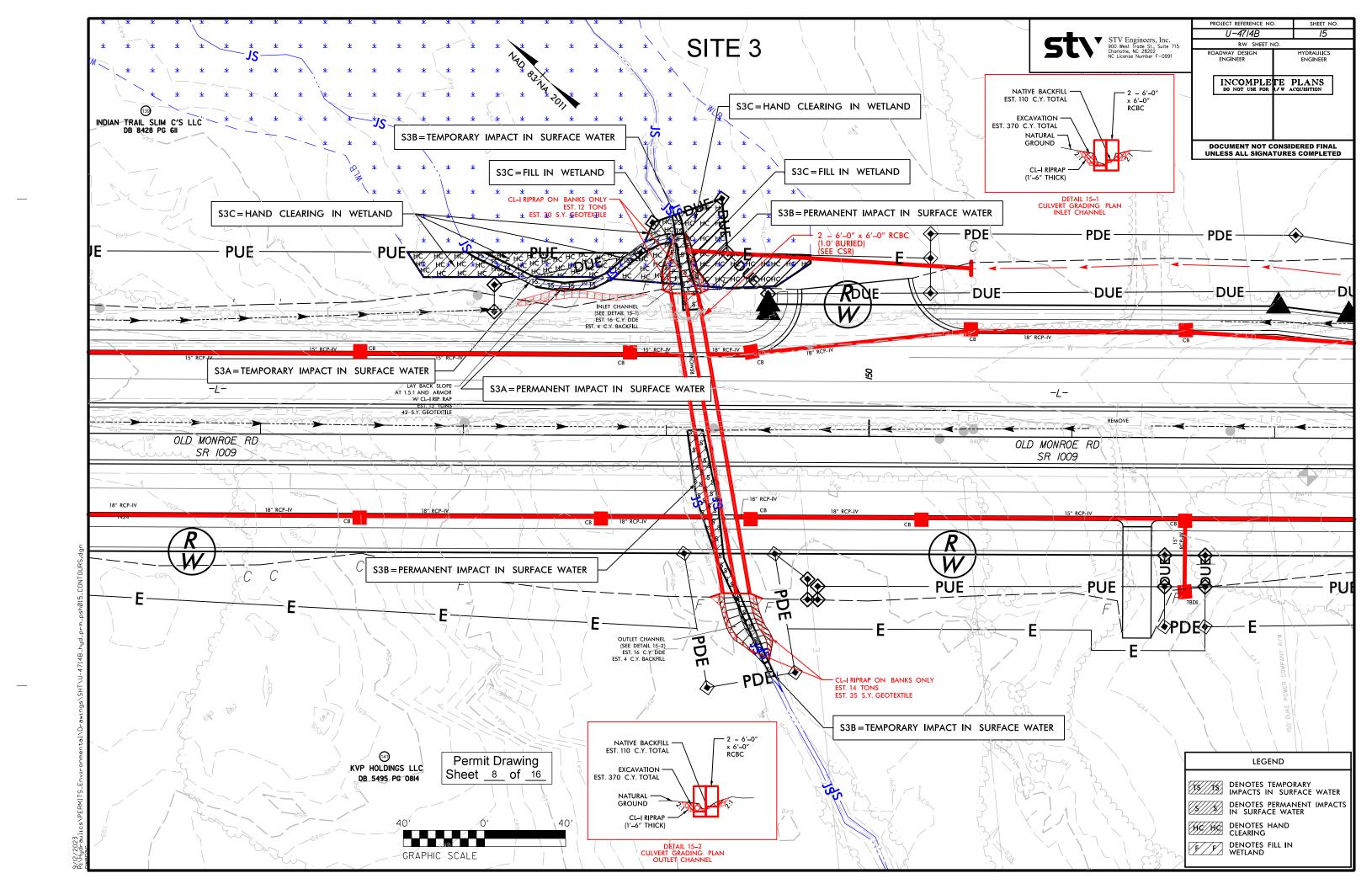


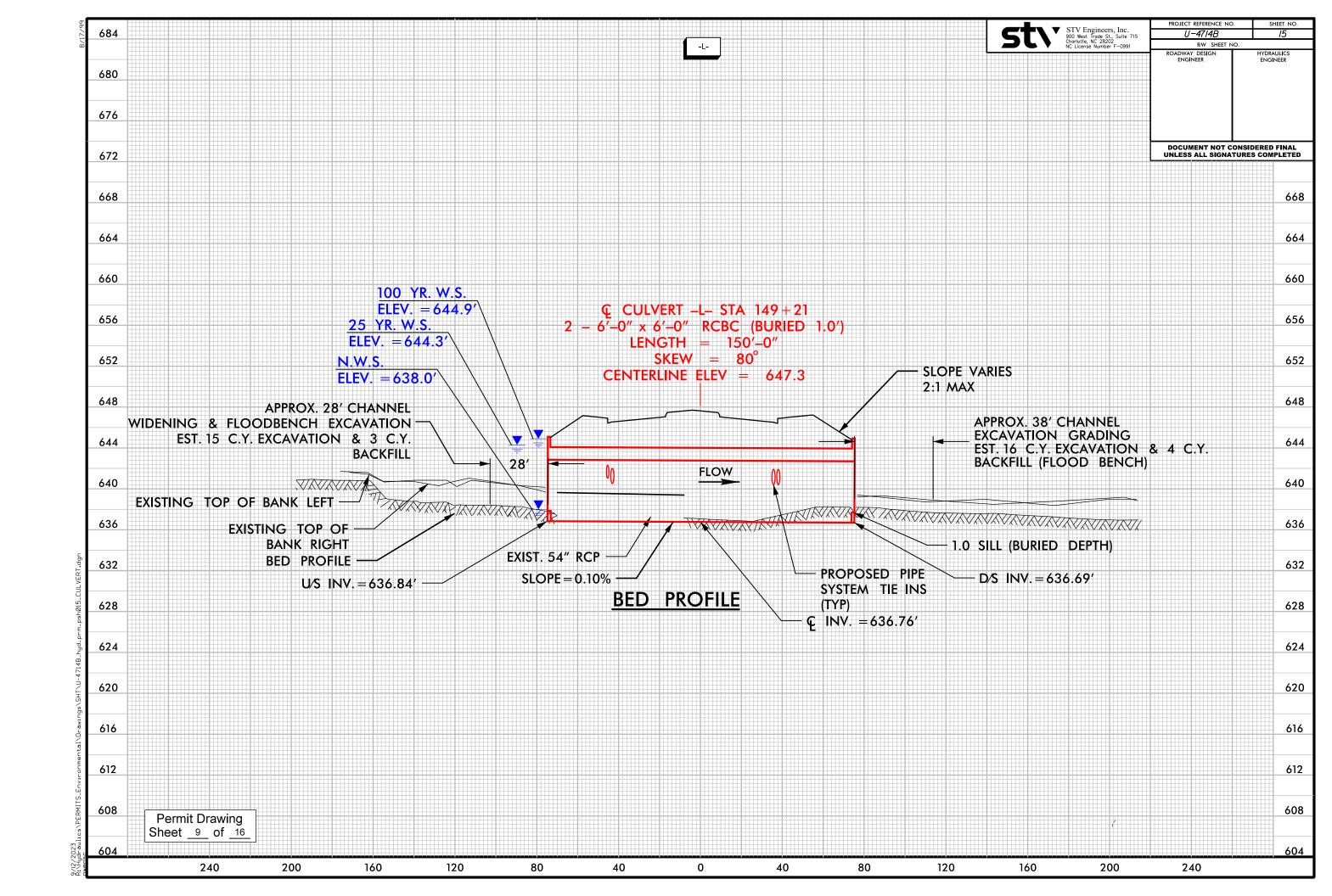


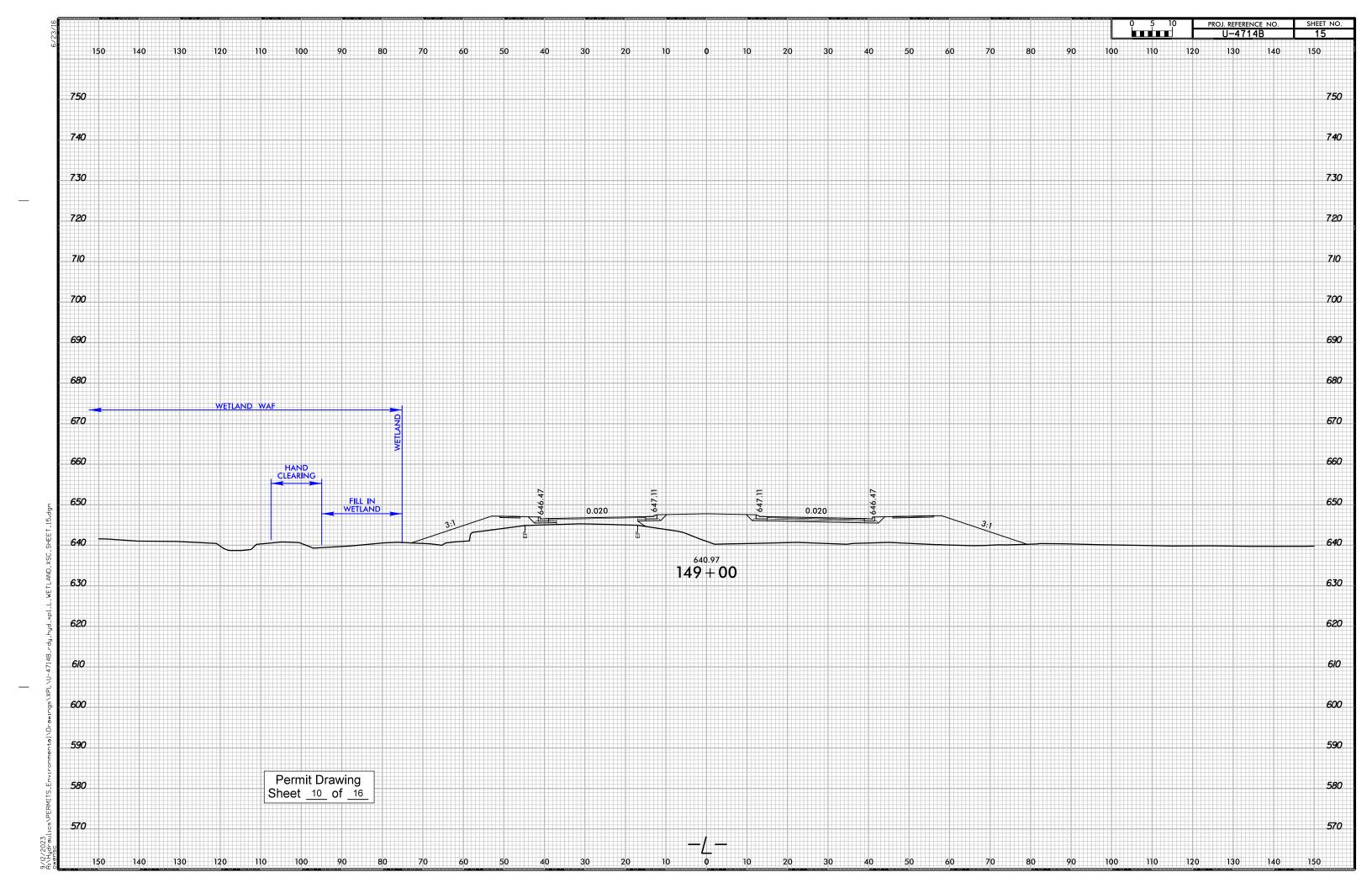


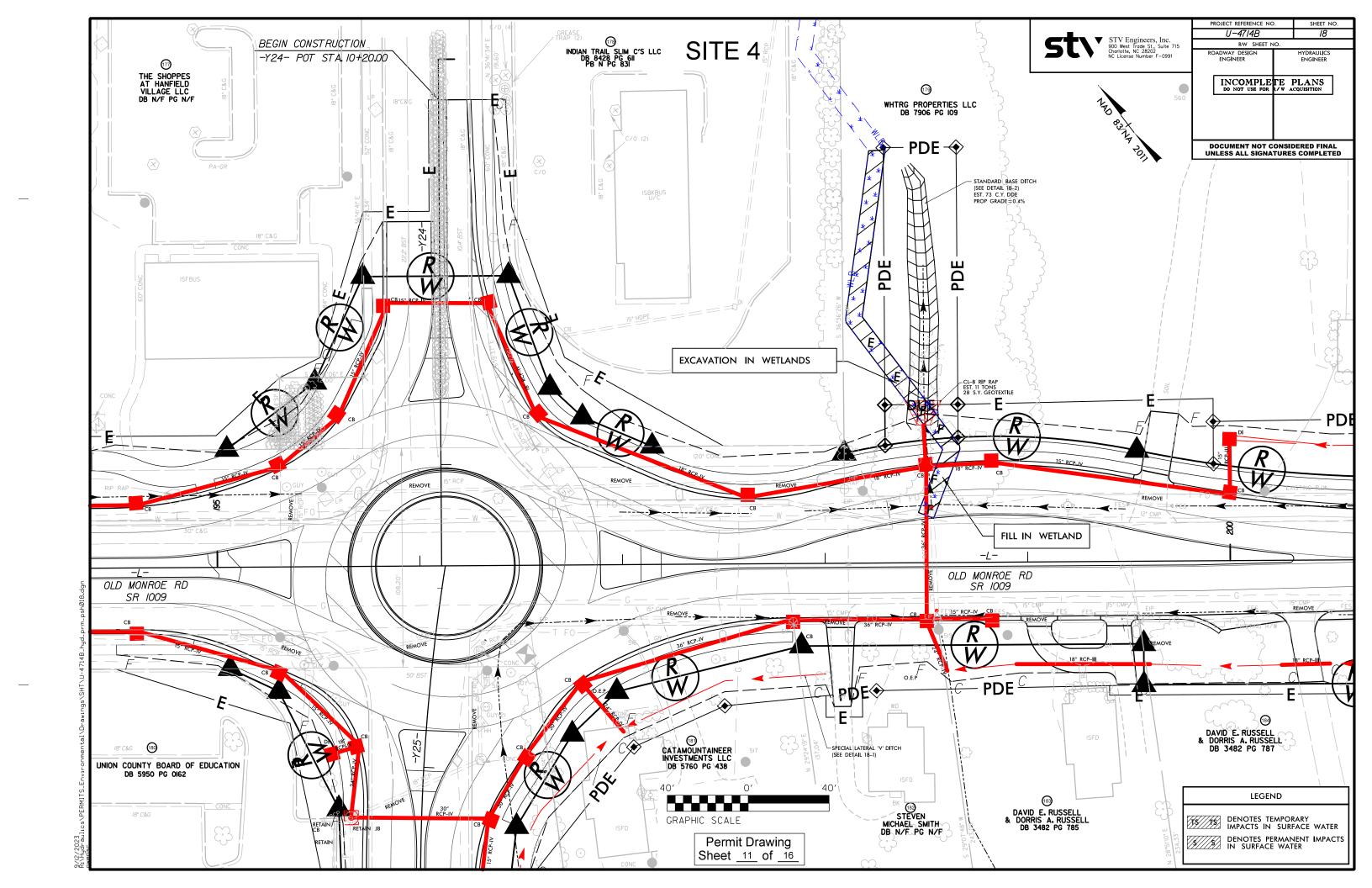


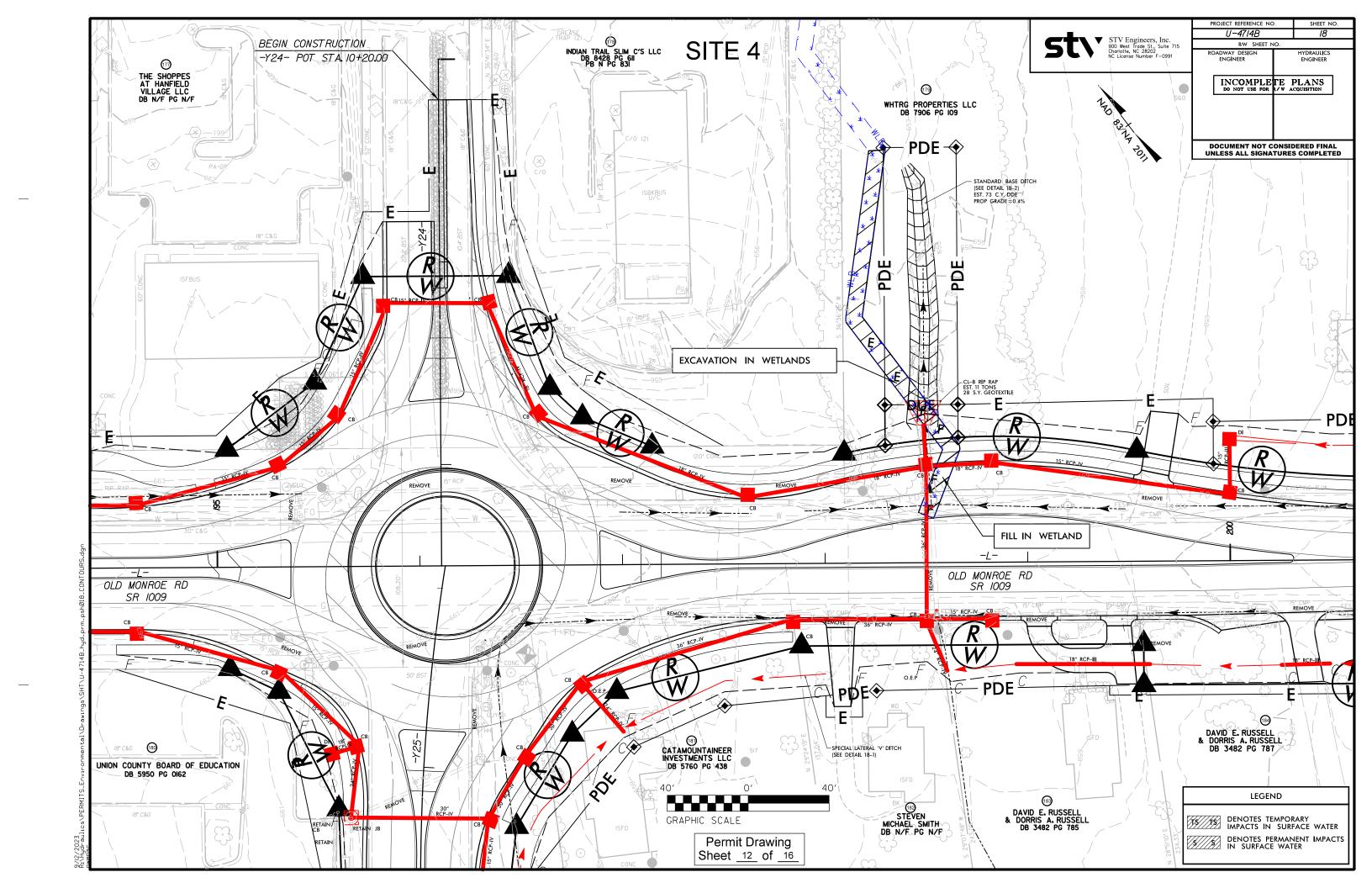


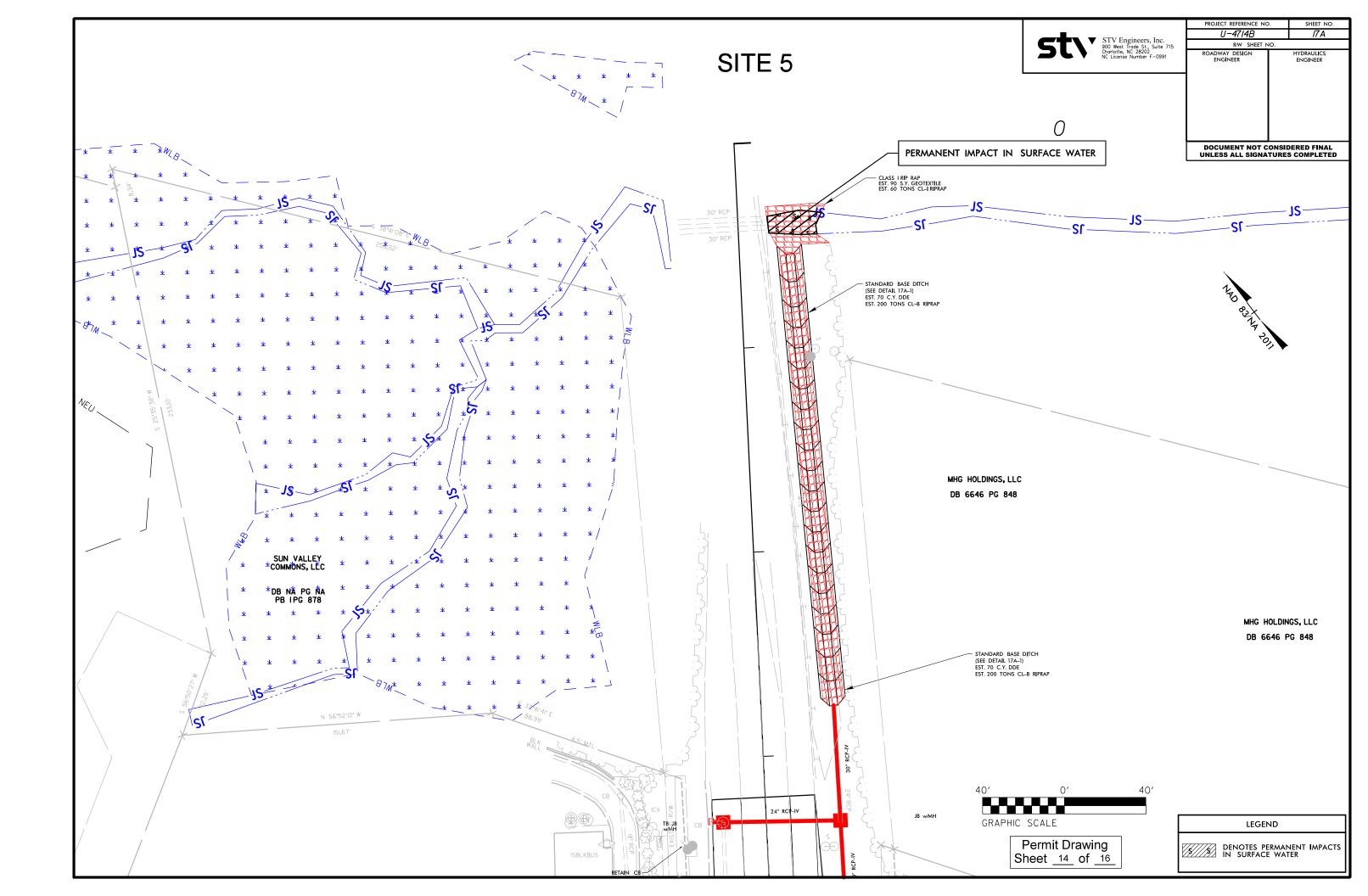


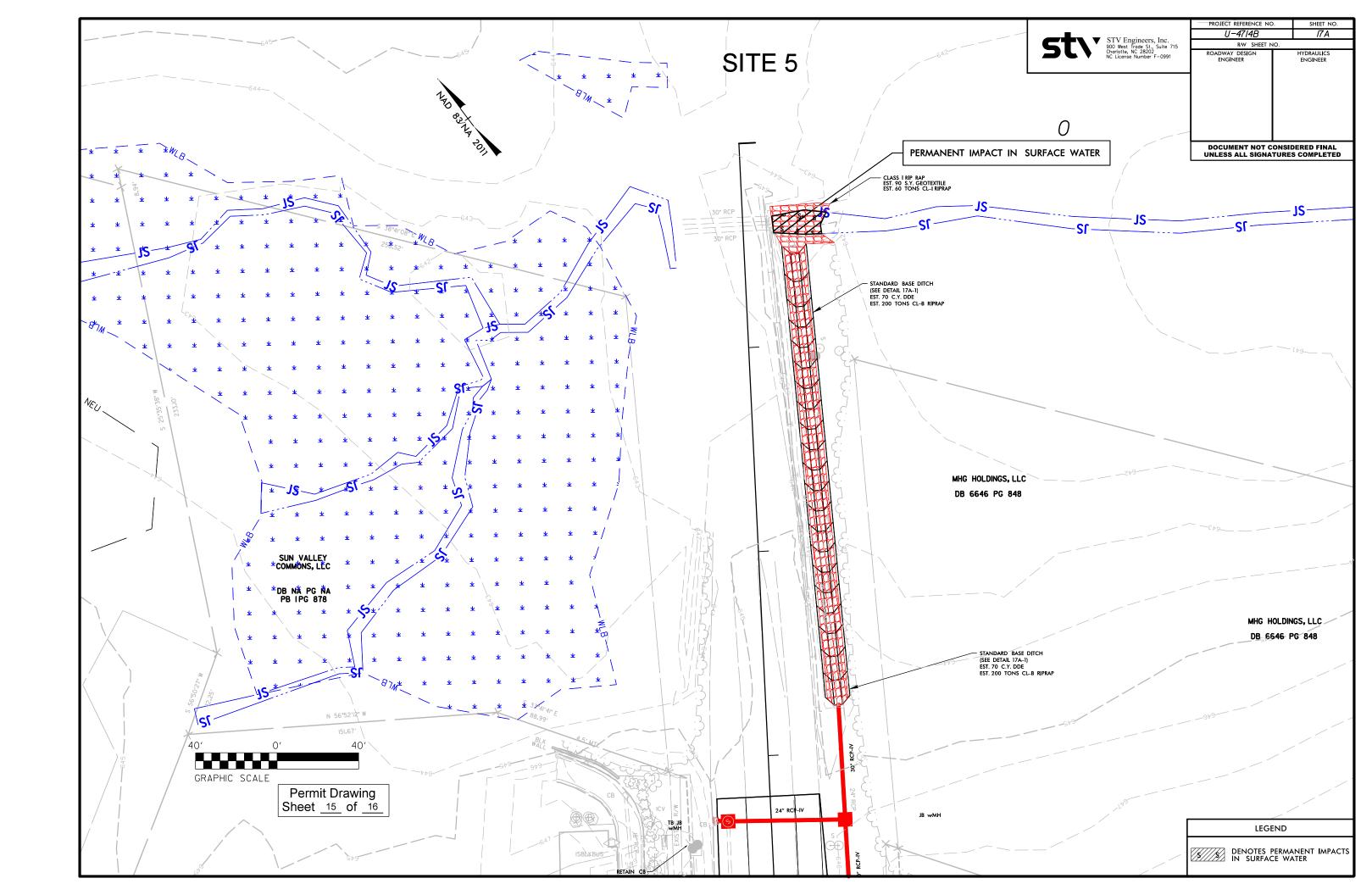












					TLAND IMP		ATER HVIP	ACTS SUMMARY SURFACE WATER IMPACTS						
	T			VVL	I LAND IMP	ACTS	Hand	ì	SUNFACE	Existing	Existing			
			Permanent	Temp.	Execution	Mechanized	Clearing	Permanent	Temp.	Channel	Channel	Natural		
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream		
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent		Design		
140.	(11311)/13/	01207 1 9 00	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)		
1	14+43.30 TO 17+08.40	72" RCP	(==)	(===)	(===)	()	()	0.03	0.01	235	88	(1-)		
2	117+97.98 TO 118+20.64	24" RCP						< 0.01	< 0.01	73	23			
3A	148+01.09 TO 149+03.50	2-6' x 6' RCBC						< 0.01	< 0.01	10	112			
3B	149+02.19 TO 149+54.30	2-6' x 6' RCBC						0.02	< 0.01	162	18			
3C	147+71.98 TO 149+63.11	2-6' x 6' RCBC	< 0.01				0.06							
4	198+10.92 TO 198+66.87	36" RCP	0.01		0.03									
5	-Y22- +33.92 TO 0+45.97	Armoring						< 0.01		28				
TOTAL	LS*:		0.01		0.03		0.06	0.07	0.03	508	241	0		

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
WEST OF MORNINGSIDE MEADOW LN.
TO EAST OF WESLEY CHAPEL-STOUTS RD
UNION COUNTY
U-4714B

SHEET

16

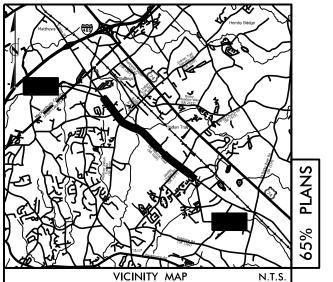
7

16

Revised 2018 Feb

IEC PRO

See Sheet 1A For Index of Sheets See Sheet 1B For Standard Symbology Sheet



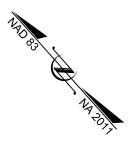
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

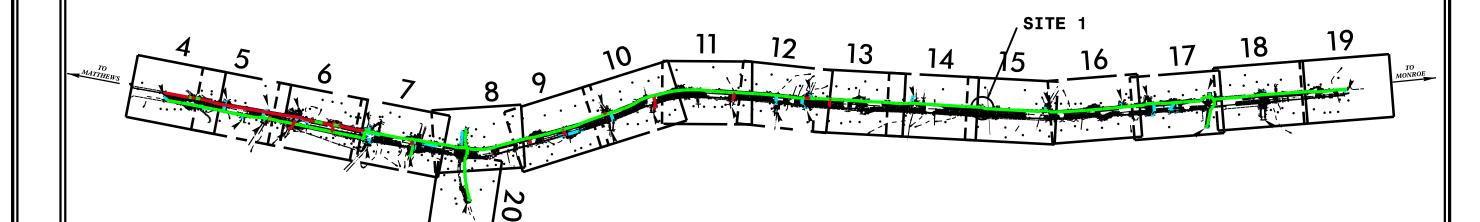
UNION COUNTY

LOCATION: SR 1009 (OLD MONROE ROAD) FROM WEST OF MORNINGSIDE MEADOW LANE TO EAST OF SR 1377 (WESLEY CHAPEL-STOUTS RD)

> ENVIRONMENTAL PERMIT DRAWING FOR WATER LINE RELOCATION

STATE	STATE	SHEET NO.	TOTAL SHEETS				
N.C.	U–	1					
STAT	B PROJ. NO.	P. A. PROJ. NO.	DESCRIPTION				
39	078.1.6			PE			





INCOMPLETE PLANS

★ PROPOSED TRAFFIC SIC

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES DESIGN DATA ADT 2021 = 36,140

ADT 2041 = 43,160K = 9%D = 55%PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

T = 6%* V = 50 MPH* (TTST = 2% + DUAL 4%) FUNC CLASS = MINOR ARTERIAL

REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4714B = 3.795 MILES LENGTH STRUCTURE TIP PROJECT U-4714B = 0.000 MILES TOTAL LENGTH OF TIP PROJECT U-4714B = 3.795 MILES

2018 STANDARD SPECIFICATIONS RIGHT OF WAY DATE. FEBRUARY 15, 2019

PLANS PREPARED FOR THE NCDOT BY:

LETTING DATE: FEBRUARY 16, 2021

SEAN C. STEPHENS, PE PROJECT ENGINEER STEPHANIE PHILLIPS, EIT
PROJECT DESIGNER

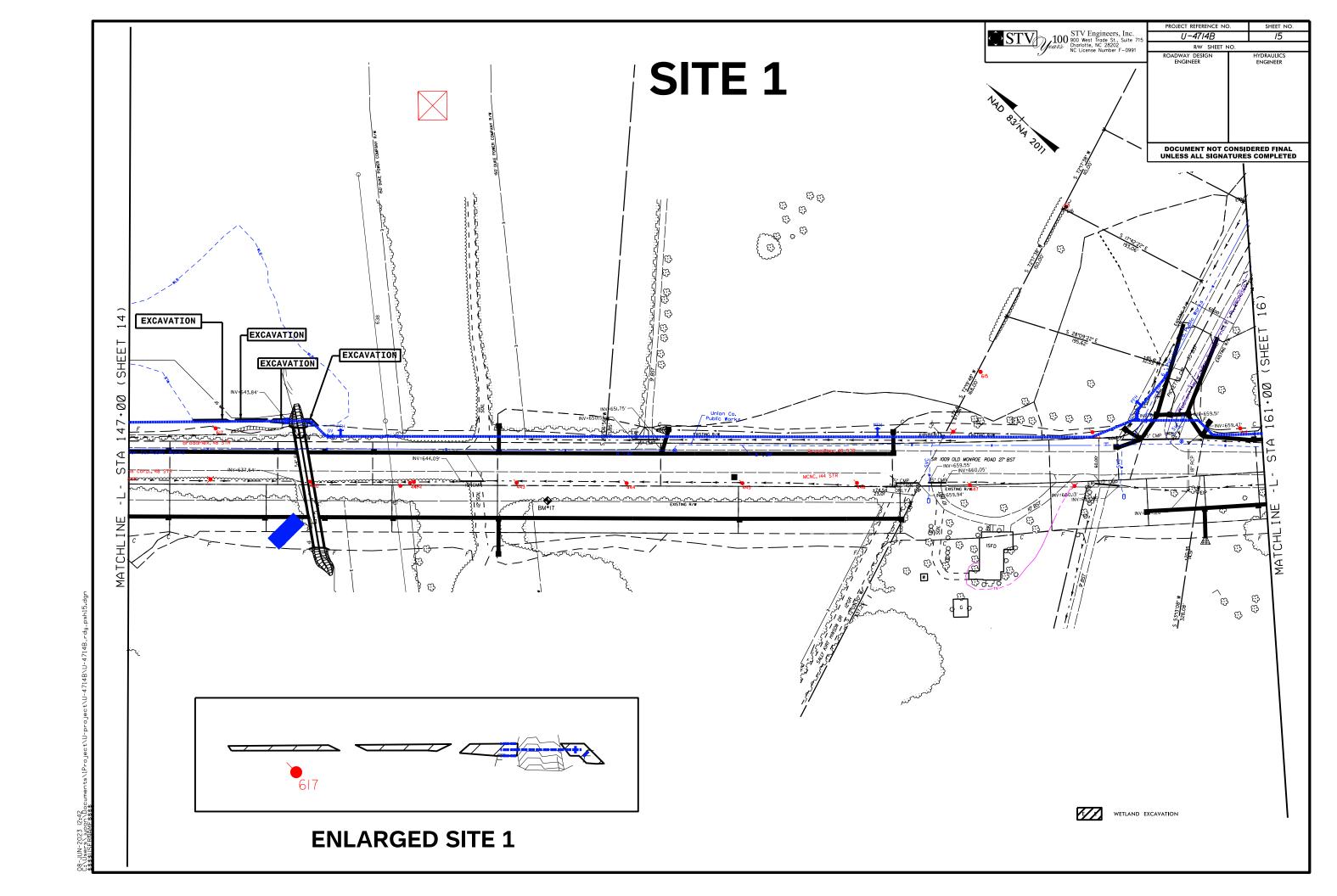
BRYAN KEY, PE

PROJECT ENGINEER NCDOT ROADWAY DESIGN

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEERS





			WETLAND PERMIT IMPACT SUMMARY WETLAND IMPACTS SURFACE WATER IMPACTS												
					WI	ETLAND IMPA	ACTS				SURFA	CE WATER II	MPACTS		
Site	Station	Structure	404 Permanent Fill In	Fill In	Temp. Fill In	in	Mechanized Clearing	404 Hand Clearing	CAMA Hand Clearing	Permanent SW	Temp. SW	Existing Channel Impacts	Temporary Channel Impacts	Temporary Wetland Impacts	
No.	(From/To)	Size / Type	Wetlands (ac)	Wetlands (ac)	Wetlands (ac)	Wetlands (ac)	in Wetlands (ac)	in Wetlands (ac)	in Wetlands (ac)	impacts (ac)	impacts (ac)	Permanent (ft)	(ft)	*** (ac)	
1	-L- 147+78	Prop. Water Line				<0.01*									
	-L- 148+31	Prop. Water Line				<0.01*									
	-L- 148+73	Prop. Water Line				<0.01*									
	-L- 149+15	Prop. Water Line				<0.01*									
OTALS:						<0.01*	0.00	0.00	0.00	0.00	0.00	0	0	0.00	

^{*} Temporary Excavation

***includes temporary fill or excavation for dewatering and stream work NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

UNION COUNTY WBS - 39078.2.6 (U-4714B)

SHEET

ATN Revised 3/31/05

^{*} Excavation will be set to the side and then place back into the hole.