



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

January 29, 2026

MEMORANDUM TO: Division Environmental and Construction Units

FROM: *MAT* 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 <i>Originally issued 1/19/24, Renewed 1/23/26</i>	May 25, 2030
NC Division of Water Resources Section 401 Water Quality Certification	Individual Certification No. 008649 <i>Originally issued 1/29/24 under GC 4135, Renewed 1/16/26</i>	May 25, 2030

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

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

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

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.

Cultural Resources – PMU, EAU

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

404 Special Condition #3: The permittee agrees to implement the following 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. SAW-2013-01090

County: Mecklenburg & Union

U.S.G.S. Quad: NC-Matthews

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 Indian Trail

Nearest Waterway Price Mill Creek

River Basin Santee

USGS HUC 03050103

Coordinates Latitude: 35.059718

Longitude: 80.662431

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

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

protection				
Site ID #	Wetland Impact Temp. (ac)	Wetland Impact Perm. (ac)	Stream Impact Temp. (lf)	Stream Impact Perm. (lf)
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 mechanical clearing</u>		
Site #8	<u>0.03 hand clearing</u>	<u><0.01 mechanical clearing</u>		
Site #9		<u>0.02 fill & <0.01 mechanical clearing</u>		
TOTAL IMPACTS	<u>1.07 Open water 0.03 wetlands</u>	<u>0.01 Open Water 0.34 wetlands</u>	<u>93</u>	<u>917</u>
Total loss of waters of the U.S. (wetlands)	<u>0.34</u>		<u>Total loss of waters of the U.S. (stream)</u>	<u>881</u>
Required Wetland Mitigation (ac)	<u>0.34</u>		<u>Required Stream Mitigation (lf)</u>	<u>881</u>

Section U-4714 B (including utilities)

Site ID #	Wetland Impact Temp. (ac)	Wetland Impact Perm. (ac)	Stream Impact Temp. (lf)	Stream Impact Perm. (lf)
Utility site #1, water line relocation	<u>0.002</u>			
Utility site #2, water line relocation	<u>0.001</u>			
Utility site #3, water line relocation	<u>0.002</u>			
Utility site #4, water line relocation	<u>0.001</u>			
Site #1, 72" diameter pipe			<u>88</u>	<u>235</u>
Site #2, 24" diameter pipe			<u>23</u>	<u>73</u>
Site #3a & 3b, 6' x 6' RCBC			<u>130</u>	<u>172</u>
Site #3c, Outlet protection	<u>0.063 hand clearing</u>	<u><0.01 fill</u>		
Site #4, 36" diameter RCP		<u>0.036 cut/fill total</u>		
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 the U.S. (wetlands)	<u>0.04</u>		<u>Total loss of waters of the U.S. (stream)</u>	<u>508</u>
Required Wetland Mitigation (ac)	<u>0.04</u>		<u>Required Stream Mitigation (lf)</u>	<u>508</u>

Section Future U-4714 AA (preliminary impacts)

Site ID #	Wetland Impact Temp. (ac)	Wetland Impact Perm. (ac)	Stream Impact Temp. (lf)	Stream Impact Perm. (lf)
U-4714 AA			<u>61</u>	<u>223</u>
TOTAL IMPACTS	0	0	61	223
Total loss of waters of the U.S. (wetlands)	0		Total loss of waters of the U.S. (stream)	223
Required Wetland Mitigation (ac)			Required Stream 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-4714 B, 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 11/16/2023, and the enclosed Plan Sheets 1-29 of 29 entitled, "NCDOT TIP Project U-4714 AC" dated October 24, 2023 (and revised January 24, 2024), 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 6471 or stephen.a.brumagin@usace.army.mil.



Corps Regulatory Official: _____ Date: 1/23/2026
Expiration Date of Verification: 5/25/2030

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

All U-4717 AA/AC/B Plan Sheets
Exhibit A, Concurrence Form for Assessment of Affect
401 WQC
RGP-50

Copy furnished:

North Carolina Department of Transportation, Division 10
Mr. Joel Howard, PDEA, (via e-mail:jmhoward@nedot.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 January 9, 2026. 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 following 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.
4. 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.
5. 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: SAW-2013-01090

County: Mecklenburg & Union

Permittee: North Carolina Department of Transportation, attn: Ms. Erin Cheely

Project Name: NCDOT U-4714 AC & U-4714 B, East John Street-Old Monroe Road (SR 1009) widening project in Mecklenburg and Union Counties

Date Verification Issued: 1/23/2026

Project Manager: Stephen A. Brumagin

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification, and return it to the following address:

US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
Attn: Stephen A. Brumagin
Charlotte Regulatory Office
U.S Army Corps of Engineers
8430 University Executive Park Drive, Suite 615
Charlotte, North Carolina 28262
or
stephen.a.brumagin@usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying, or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

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 October 20, 2015, representatives of the

- 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)

Reviewed the subject project and agreed on the effects findings listed within the table on the reverse of this signature page.

Signed:

Shelby Reap Oct 20, 2015
Representative, NCDOT Date

Dolan Brown 10-20-15
FHWA, for the Division Administrator, or other Federal Agency Date

Renee Heddlehill-Easley 10. 20. 15
Representative, HPO Date

State Historic 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	no changes to Trade St. boundary outside A/E	
Reid House (MK1191) DE	no adverse effect	no construction in DOW, no easements no PDEs; only replace curb & gutter; keep existing sidewalk. No tree removal.	
Rowland-Clay House (MK2301) DE	no effect	out side construction area	
Banks H. Funderburk Store (UN0125) DE, LL	no adverse effect w/ conditions	right in, right out; no construction in boundary may remove remove planting strip from plans, no permanent drainage easements	
Banks and Carolyn Funderburk House (UN1200) DE	no adverse effect w/ conditions	no DOW; no easements, minimize tree removal No PDEs, No PDEs.	
Initiated:	NCDOT <u>Sur</u>	FHWA <u>DIS</u>	HPO _____

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

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: 03050103, Catawba River Basin			
Stream Impacts (linear feet)			Wetland Impacts (acres)			
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 (credits)			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

Elizabeth Harmon
Signature of Sponsor's Authorized Representative **Date of Signature** 01/23/2024

Conditions for Transfer of Compensatory Mitigation Credit:

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

Comments/Additional Conditions: 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
737
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			
Stream Impacts (linear feet)			Wetland Impacts (acres)			
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 (credits)			
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

Name of Sponsor's Authorized Representative: Beth Harmon

Elizabeth 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

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Date: 2024.02.05 11:32:02
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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>.

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

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.

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Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation*			8-digit HUC and Basin: 03050103, Catawba River Basin			
Stream Impacts (linear feet)			Wetland Impacts (acres)			
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 and Basin: 03050103, Catawba River Basin

Stream Mitigation (credits)			Wetland Mitigation (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

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

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

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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

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Date: 2024.02.05 11:29:15
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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>.

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

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.

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Permitted Impacts and Compensatory Mitigation Requirements:

Permitted Impacts Requiring Mitigation*			8-digit HUC and Basin: 03040105, Yadkin River Basin			
Stream Impacts (linear feet)			Wetland Impacts (acres)			
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

Stream Mitigation (credits)			Wetland Mitigation (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.

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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

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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>.

JOSH STEIN

Governor

D. REID WILSON

Secretary

RICHARD E. ROGERS, JR.

Director



NORTH CAROLINA
Environmental Quality

January 16, 2026

Mecklenburg & Union County

NCDWR Project No. 20231566 V2

STIP #U-4714

Widen/Improve SR 1009 (Johns Street)

WBS Element No. 39078.1.2

APPROVAL of 401 WATER QUALITY CERTIFICATION with ADDITIONAL CONDITIONS

Ms. Erin Cheely

NCDOT

1598 Mail Service Center

Raleigh, NC 27699-1598

EKCheely@NCDOT.gov

Subject: Approval of Renewal to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Johns Street/Old Monroe Road in Mecklenburg and Union County, NCDWR Project No. 20231566 V2, STIP #U-4714.

Dear Ms. Cheely

Attached hereto is a copy of Certification No. WQC008649 issued to The NCDOT dated January 16, 2026.

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Water Quality Certification. If you change your project, you must notify the Division, and you may be required to submit a new application package with the appropriate fee. If the property is sold, the new owner must be given a copy of this Certification and is responsible for complying with all conditions. [15A NCAC 02H .0507(d)(2)]. This Certification does not relieve the permittee of the responsibility to obtain all other required Federal, State, or Local approvals before proceeding with the project, including those required by, but not limited to, Sediment and Erosion Control, Non-Discharge, Water Supply Watershed, and Trout Buffer regulations.

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

Sincerely,

Signed by:

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

Electronic copy only distribution:

Joel Howard, NCDOT

Steve Brumagin, US Army Corps of Engineers, Charlotte Field Office

Holland Youngman, US Fish and Wildlife Service

David McHenry, NC Wildlife Resources Commission



North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000

Approval of Renewal to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact 1,759 Linear Feet of jurisdictional streams, .474 Acres of jurisdictional wetlands, and 1.08 Acres of open waters in Mecklenburg and Union County. The project shall be constructed pursuant to the application dated and received January 9, 2026. The authorized impacts are as described below:

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

U-4714 - DWR Project No. 20231566

Site	Perm. Fill in Perennial Stream		Perm. Fill in Intermittent Stream				Temp. Fill in Perennial Stream		Temp. Fill in Intermittent Stream			Stream Impacts Requiring Mitigation	
	Cul vert	Fill	Cul vert	Excavate	Fill	Bank/ Stab.	Cul vert	Fill	Cul vert	Bank/ Stab.	Dewater		
1	AC 1A	96	-	-	-	-	37	-	-	-	-	96	
2	AC 1B	-	43	-	-	-	-	-	-	-	-	43	
3	AC 1C	-	38	-	-	-	-	-	-	-	-	38	
4	AC 2A	-	395	-	-	-	-	8	-	-	-	395	
5	AC 3A	-	-	138	-	-	-	-	-	-	-	138	
6	AC 3B	-	-	-	43	-	-	-	12	-	-	43	
7	AC 3C	-	-	-	-	36	-	-	-	13	-	-	
8	AC 4A	-	-	27	-	-	-	-	14	-	-	27	
9	AC 4B	-	-	-	-	31	-	-	-	-	-	31	
10	B1	-	-	-	235	-	-	-	-	-	88	235	
11	B2	-	-	73	-	-	-	-	-	-	23	73	
12	B 3A	-	-	10	-	-	-	-	-	-	112	10	
13	B 3B	-	-	162	-	-	-	-	-	-	18	162	
Totals		96	476	410	43	266	36	37	8	26	13	241	1291
1,652		572		755				45		280			

Total Stream Impacts for Catawba River Basin: 1,652 Linear Feet.



Stream Impacts (Linear Feet) in the Yadkin Pee Dee River Basin.
U-4714 - DWR Project No. 20231566

Site		Perm. Fill in Perennial Stream	Perm. Fill in Intermittent Stream	Temp. Fill in Intermittent Stream	Stream Impacts Requiring Mitigation
		Bank Stabilization	Fill	Excavate	
14	AC 6A	-	28	-	28
15	AC 6B	-	42	9	42
16	B5	28	-	-	28
Totals		28	70	9	98
107					

Total Stream Impacts for Yadkin Pee Dee River Basin: 107 Linear Feet.

Total Stream Impacts for Project: 1,759 Linear Feet.

Wetland Impacts (Acres) in the Catawba River Basin.
U-4714 - DWR Project No. 20231566

Site		Permanent Fill		Temporary Fill		Wetland Impacts Requiring Mitigation	
		Culvert /Pipe	Mech. Clearing	Hand Clearing	Hand Clearing		
1	B S3C	.001	-	-	.063	-	.001
2	B US 1	-	-	-	-	.002	-
3	B US 2	-	-	-	-	.001	-
4	B US 3	-	-	-	-	.002	-
5	B US 4	-	-	-	-	.001	-
6	AC S8	-	.001	-	.026	-	.001
7	AC S9	-	.003	.021	-	-	.024
Totals		.001	.004	.021	.089	.006	.026
.121							

Total Wetland Impacts for Catawba River Basin: .121 Acres.

Wetland Impacts (Acres) in the Yadkin Pee Dee River Basin.
U-4714 - DWR Project No. 20231566

Site		Permanent Fill			Wetland Impacts Requiring Mitigation
		Culvert/Pipe	Roadway Fill	Mech Clearing	
8	B S4	.036	-	-	.036
9	AC S5	-	.031	-	.031
10	AC S7	-	.277	.009	.286
Totals		.036	.308	.009	.353

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

Total Wetland Impacts for Project: .474 Acres.



Open Water Impacts (Acres) in the Catawba River Basin.
U-4714 - DWR Project No. 20231566

Site		Permanent Fill in Open Waters	Temporary Fill in Open Waters	Total Fill in Open Waters
1	AC 2B	.01	-	.01
2	AC 2B	-	1.07	1.07
Totals		.01	1.07	1.08

Total Open Water Impacts for Project: 1.08 Acres.

The application provides adequate assurance that the discharge of fill material into the waters of the Catawba River Basin and Yadkin Pee Dee River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated and received January 9, 2026. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 300 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7).

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

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

Condition(s) of Certification:

Project Specific Conditions

1. All the authorized activities and conditions associated with the original Water Quality Certification dated January 29, 2024 still apply except where superseded by this Certification. [15A NCAC 02H.0506(b)(3) and (c)(3)]
2. 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)]
3. Design and placement of the culvert and other structures shall be installed in such a manner that the original stream profiles are not altered (i.e., the depth of the channel must not be reduced by a widening of the streambed). Existing stream dimensions (including pattern and profile) are to be maintained above and below locations of each culvert. The structures shall be designed and installed to allow for fish and other wildlife



movement as well as prevent headcutting of the stream. The applicant may be required to provide evidence that the equilibrium has been maintained if requested in writing by the NCDWR. [15A NCAC 02H.0506(b)(2)]

4. 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 the NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the 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)]
5. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage. [15A NCAC 02H.0506(b)(2)]
6. Riprap shall not be placed in the active thalweg channel. If placement in the streambed is approved per plans and permit, the riprap must be keyed-into the streambed in a manner that shall not preclude aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed. [15A NCAC 02H.0506(b)(2)]
7. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species. [15A NCAC 02H.0506(b)(2)]
8. 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)]
9. 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)
10. 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)]
11. Compensatory mitigation for impacts to 1,389 linear feet of impacts to perennial streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Division of Mitigation Services (DMS), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated 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
12. Compensatory mitigation for impacts to .379 acres of 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), 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. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
2. For all streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species. [15A NCAC 02H.0506(b)(2)]
3. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S. or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
4. The dimension, pattern and profile of the stream above and below any crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
5. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
6. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507 (c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
7. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A NCAC 02H.0506(b)(3)]
8. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream. [15A NCAC 02H.0506(b)(3)]
9. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
10. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
11. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
12. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]
13. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
14. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
15. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization, including all non-commercial borrow and waste sites associated with the project, shall be clearly



marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]

16. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
17. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
18. Upon completion of the project (including any impacts at associated borrow or waste sites), the authorized agent shall complete and return the "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0507]
19. Native riparian vegetation must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0506(b)(2)]
20. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities. [15A NCAC 02H.0506(b)(3) and (c)(3)]
21. Erosion control matting that incorporates plastic mesh and/or plastic twine shall not be used along streambanks or within jurisdictional wetlands. [15A NCAC 2H.0506; 15A NCAC 2H.0507]
22. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3) and (c)(3)]:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act
23. Sediment and erosion control measures shall not be placed in wetlands or surface waters, or within 5 feet of the top of bank, without prior approval from DWR. [15A NCAC 02H.0506(b)(3) and (c)(3)]
24. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H.0506(b)(3) and (c)(3) and 15A NCAC 02B.0200]
25. Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*.



26. All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.
27. For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.
28. With the issuance of this 401 certification, the DWR approves the stormwater drainage and treatment designs as shown in the roadway plans and permit drawings submitted as part of the 401 application, which are incorporated by reference and are enforceable by the DWR. Significant modifications to the way stormwater is managed and conveyed, any outfalls, or stormwater control measures represented in the roadway plans or permit drawings after issuance of this 401 certification are prohibited without prior approval from the DWR.
29. In the event that discharges of sediment or other pollutants from the drainage system outfall are found by DWR to cause or contribute to a violation of surface water quality standards, DWR may take enforcement action, or NCDOT and DWR shall conduct an assessment and implement the appropriate best management practices necessary to adequately address NCDOT's contribution to the water quality standards violation. Implementation of such best management practices shall be made within a reasonable timeframe as agreed upon by NCDOT and DWR; and may require NCDOT to obtain a 404 Permit from the US Army Corps of Engineers and a 401 Certification from the DWR.

This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

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

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

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

Dan Hirschman, General Counsel
 Department of Environmental Quality
 1601 Mail Service Center



Raleigh, NC 27699-1601

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

This the 16th day of January 2026

DIVISION OF WATER RESOURCES

Signed by:


3185423002EA45E...
Richard E. Rogers, Jr., Director

WQC No. WQC008649



North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000



NORTH CAROLINA
Environmental Quality

JOSH STEIN
Governor

D. REID WILSON
Secretary

RICHARD E. ROGERS, JR.
Director

NCDWR Project No.: _____

County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, **or** the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent's Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Engineer's Certification

_____ Partial _____ Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date _____

Completed hard copies can be emailed to kristilynn.carpenter@ncdenr.gov or mailed to:
NCDEQ Transportation Permitting

1617 Mail Service Center
Raleigh NC 27699-1617



North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000



(Version 2.08; Released April 2018)

North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

WBS Element: 39078.1.8 TIP No.: U-4714AC County(ies): Mecklenburg Page 1 of 1

General Project Information

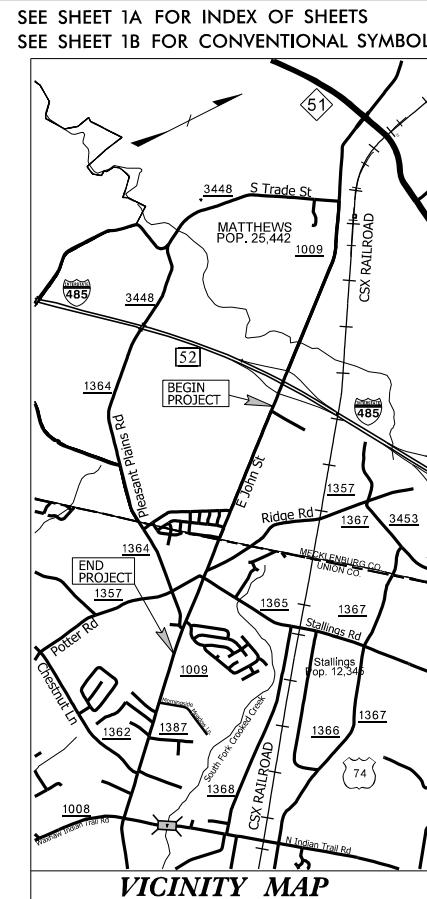
WBS Element:	39078.1.8	TIP Number:	U-4714AC	Project Type:	Roadway Widening	Date:	10/6/2023
NCDOT Contact:	David Webb, PE			Contractor / Designer:	Joshua G. Dalton, PE		
Address:	NCDOT Hydraulics Unit 1590 Mail Service Raleigh, NC 27699-1590			Address:	Sungate Design Group, P.A. 905 Jones Franklin Road Raleigh, NC 27606		
	Phone:	(919) 707-6731			Phone:	(919) 859-2243	
Email:	dswebb1@ncdot.gov			Email:	jdalton@sungatedesign.com		
City/Town:	Matthews			County(ies):	Mecklenburg		
River Basin(s):	Catawba			CAMA County?	No		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	3.37	Surrounding Land Use:	Commercial, Industrial, Medium Density Residential, Forest					
Proposed Project			Existing Site					
Project Built-Upon Area (ac.)	35.9	ac.	21.9	ac.				
Typical Cross Section Description:	E. John Street (SR 1009): 4 paved lanes (total 44') with 2'-6" curb and gutter. Paved median with monolithic island and turn lane (total 0'-42') Varying 10'-15' shoulder (14'-19' with guardrail) shoulder with varying 5' -10' width pedestrian sidewalk.			E. John Street (SR 1009): Open shoulder section, 2 paved lanes (total 24'), 1' paved shoulder on each side. Varying fill and cut slopes. Curb and gutter section with 3 paved lanes (total 36') with 10' concrete sidewalk. Varying fill and cut slopes.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 54,500	Year:	Existing:	45,000	Year:	2017		
General Project Narrative: (Description of Minimization of Water Quality Impacts)	The North Carolina Department of Transportation (NCDOT) has proposed to widen and improve East John Street (SR 1009) in Matthews, NC. There is one proposed major structure involved with the improvements to East John Street, which is to be constructed at existing stream crossing locations. The major structure, along UT to Fourmile Creek, is a 2@5x6' 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 surface 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 impacts include the use of 2:1 slopes, burial of inverts in jurisdictional areas, and bank stabilization added to outlet channels.							

Waterbody Information

Surface Water Body (1):	UT to Fourmile Creek		NCDWR Stream Index No.:	11-137-9-4		
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C			
		Supplemental Classification:				
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:			Buffer Rules in Effect:	N/A		
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)						



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG & UNION COUNTY

**LOCATION: SR 1009 (JOHN STREET\OLD MONROE ROAD)
FROM EAST OF I-485 INTERCHANGE TO
WEST OF MORNINGSIDE MEADOW LANE**

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND SIGNALS

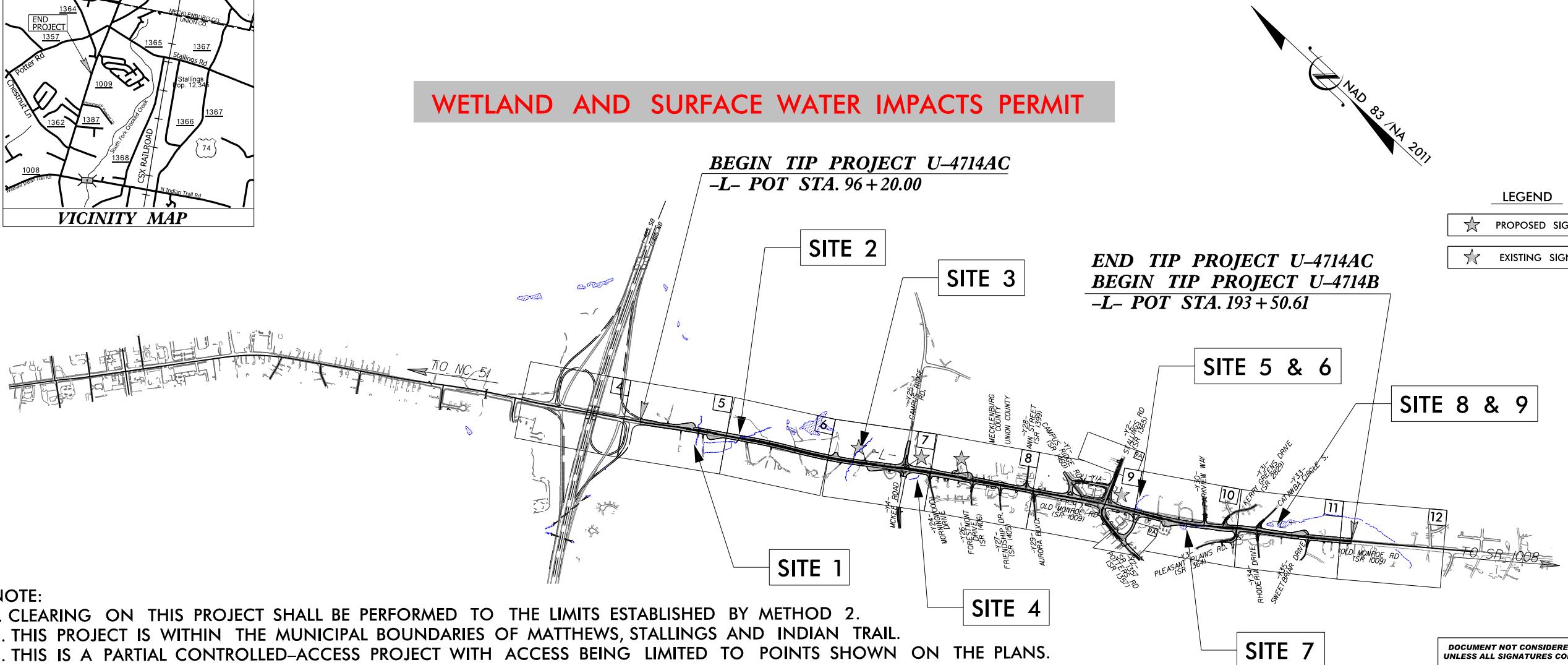
WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	Sheet No.	Total Sheets
N.C.	U-4714AC	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
39078.1.8		P.E.	
39078.2.10		R/W	
39078.3.9		CON	

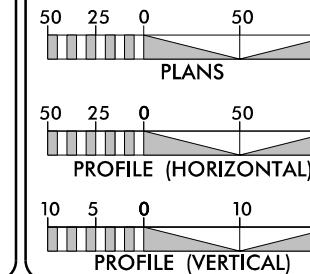
RIGHT OF WAY PLANS

**PERMIT DRAWING
SHEET 1 OF 29**

DATE: 10/24/2023



GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 45,000
ADT 2037 = 54,500
K = 6 %
D = 55 %
T = 4 % *
V = 40 MPH
* TTST = 1% DUAL 3%
FUNC CLASS =
MINOR ARTERIAL

PROJECT LENGTH

TOTAL LENGTH OF TIP PROJECT U-4714AC = 1.886 MILES

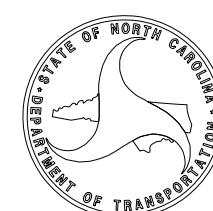
Prepared in the Office of:
KCI Associates of N.C., P.A.
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609
Phone: (919) 783-9214
Fax: (919) 783-9266

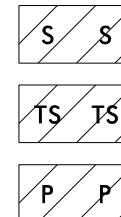
Plans Prepared For:
DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS
DEWAYNE L. SYKES, PE
PROJECT ENGINEER
BRYAN E. HOUGH, PE
PROJECT DESIGN ENGINEER

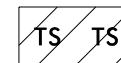
HYDRAULICS ENGINEER

SIGNATURE: P.E.
**ROADWAY DESIGN
ENGINEER**
BRYAN KEY, PE
PROJECT ENGINEER - NCDOT

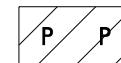




SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS



SURFACE WATER IMPACTS POND

48 LF OF INLET
CHANNEL IMPROVEMENT
EST. 125 TONS CL II RIP RAP
EST. 130 SY GEOTEXTILE
SEE DETAIL 5

SITE

SCALE: 1" = 4

PROJECT REFERENCE NO.		SHEET NO.
U-4714AC		
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

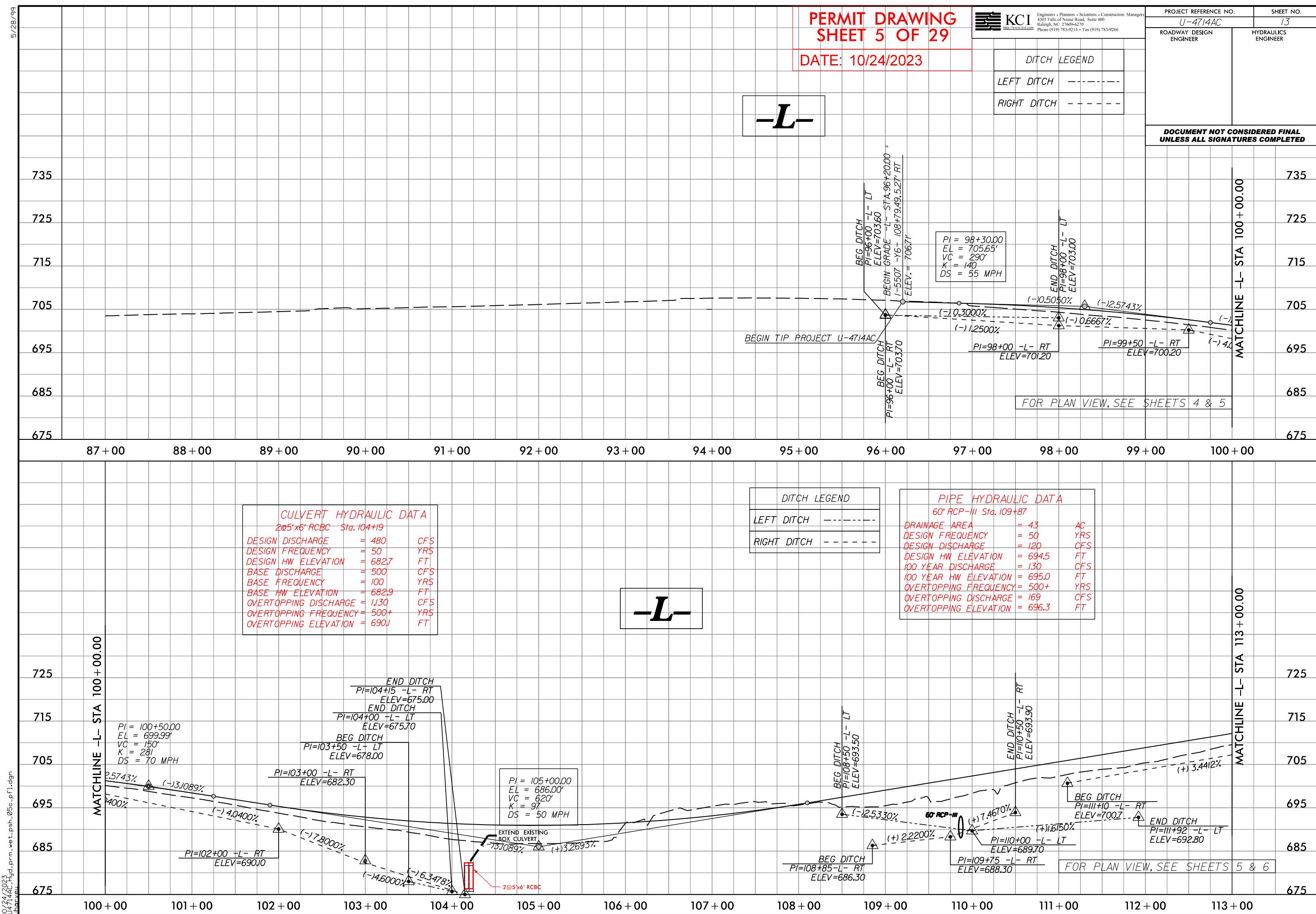
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UNLESS ALL SIGNATURES COMPLETED**

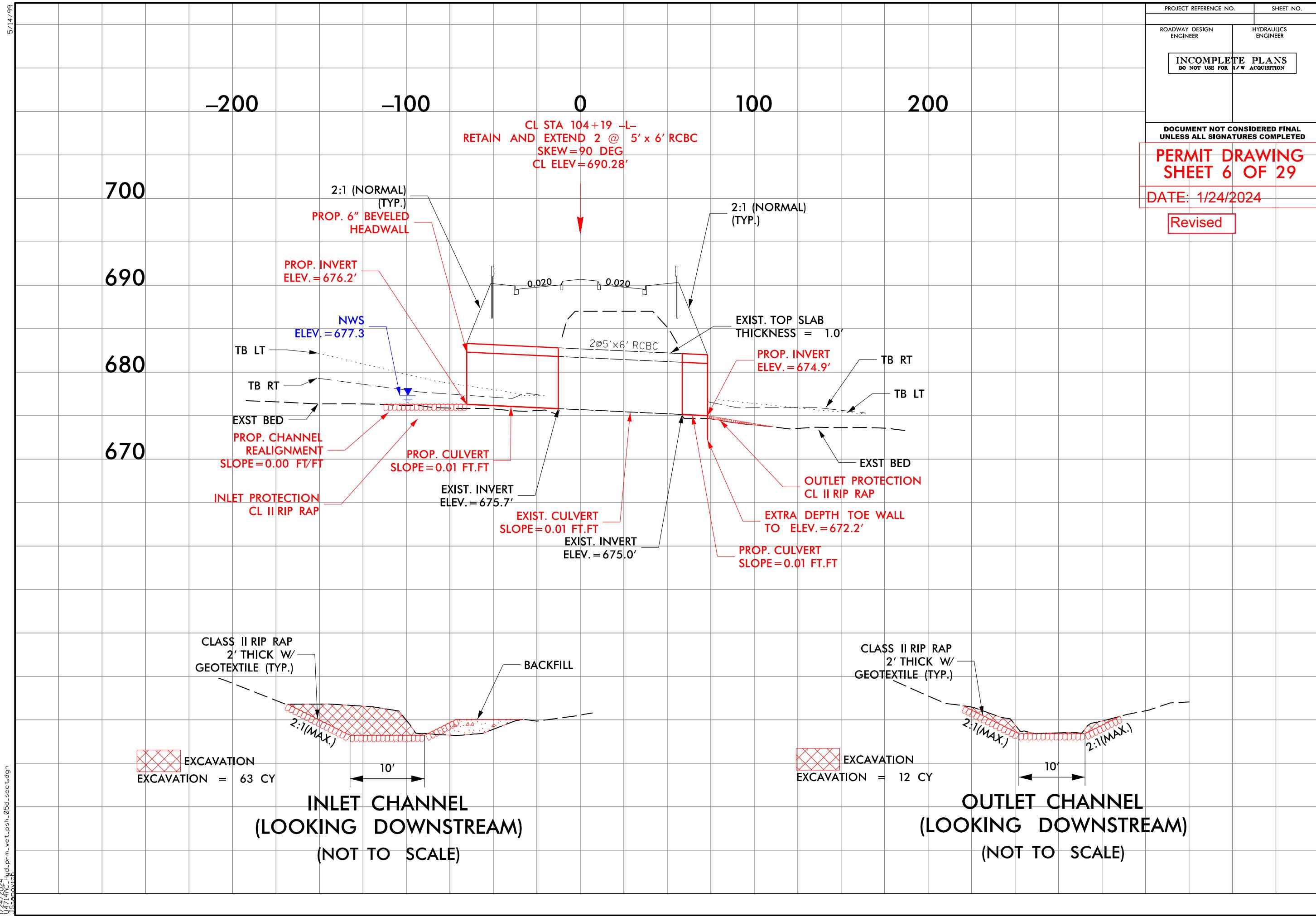
PERMIT DRAWING SHEET 4 OF 29

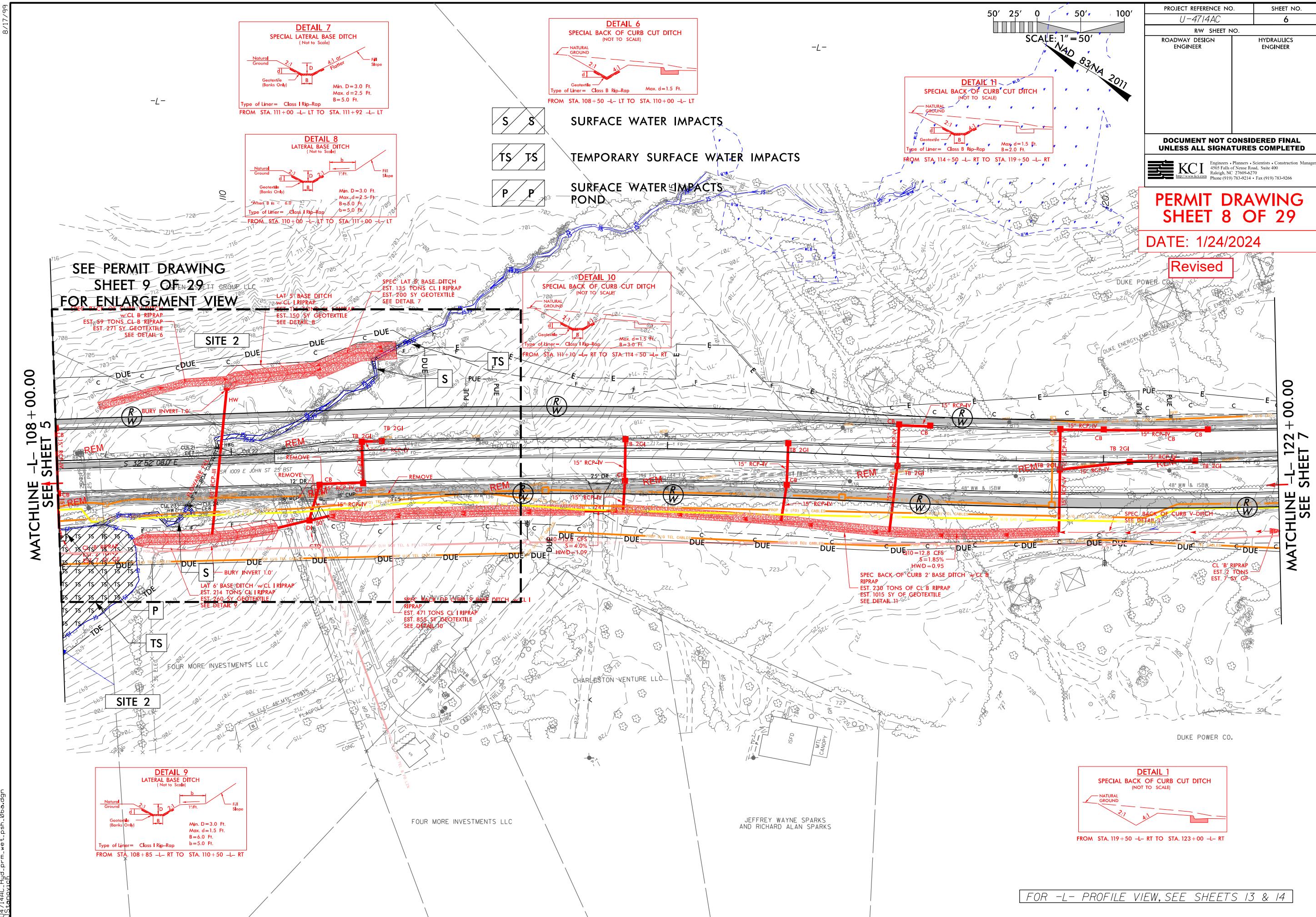
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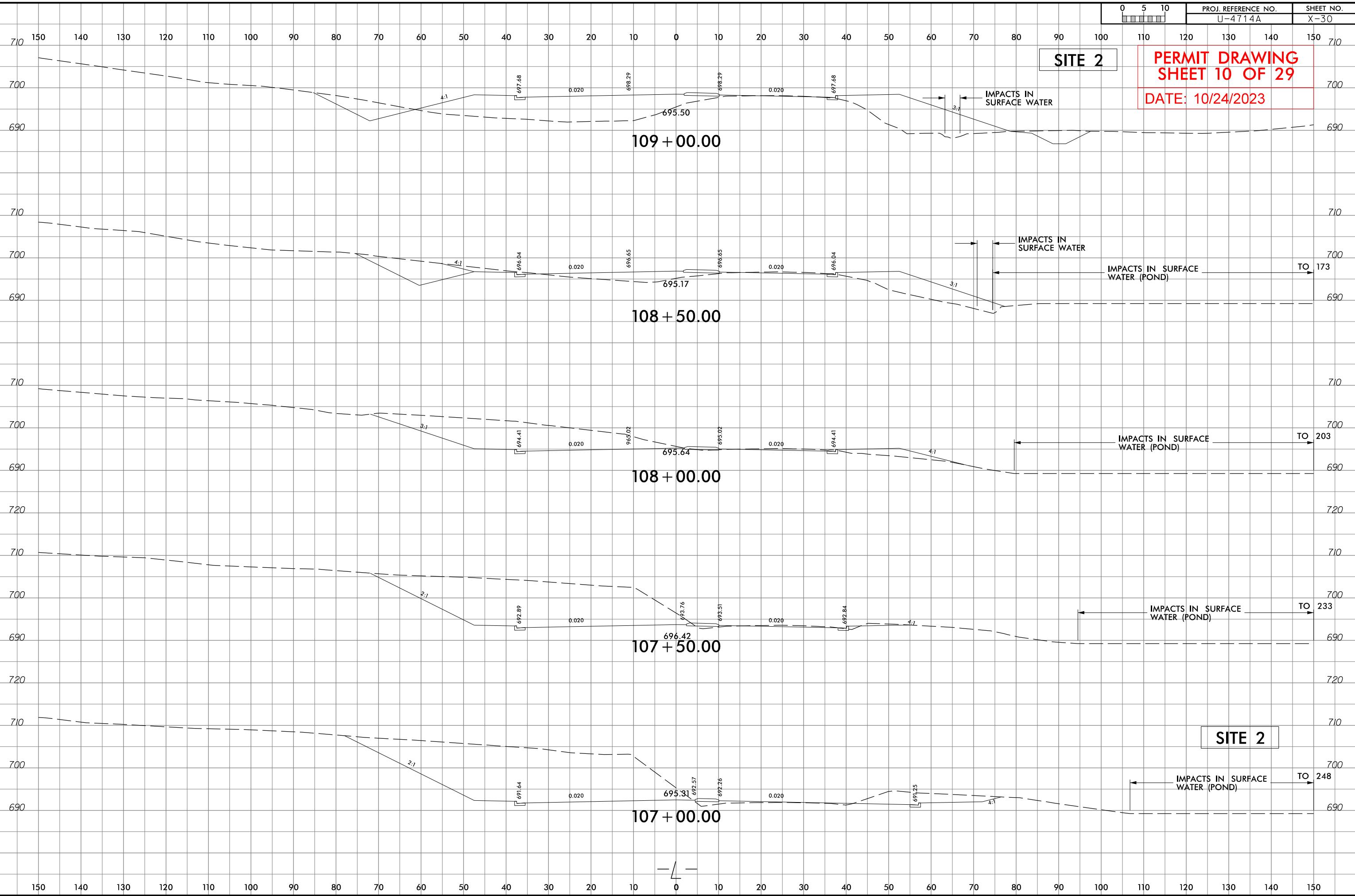
Revised

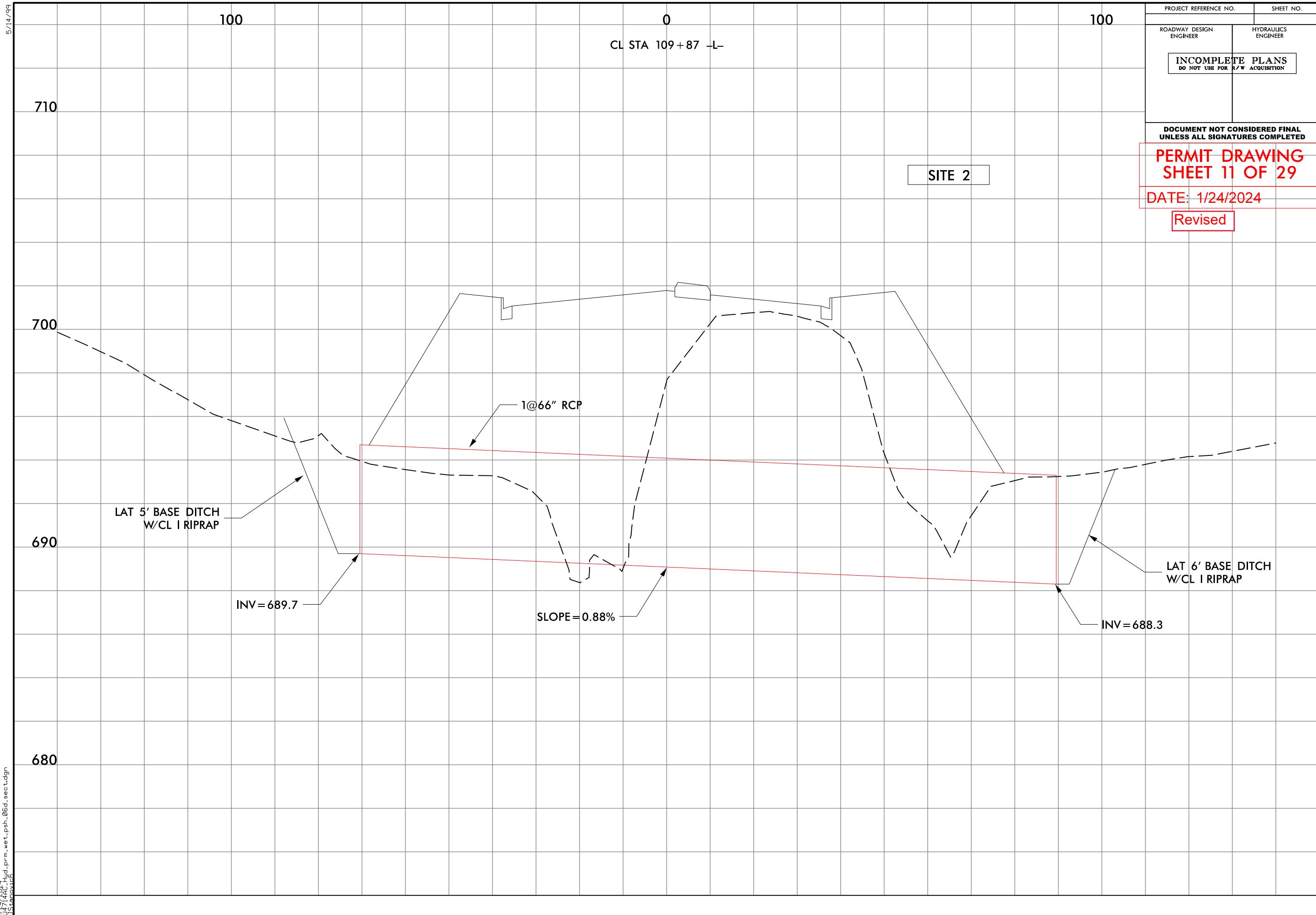
Revised









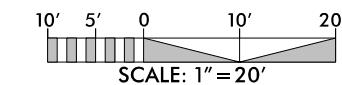




SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS



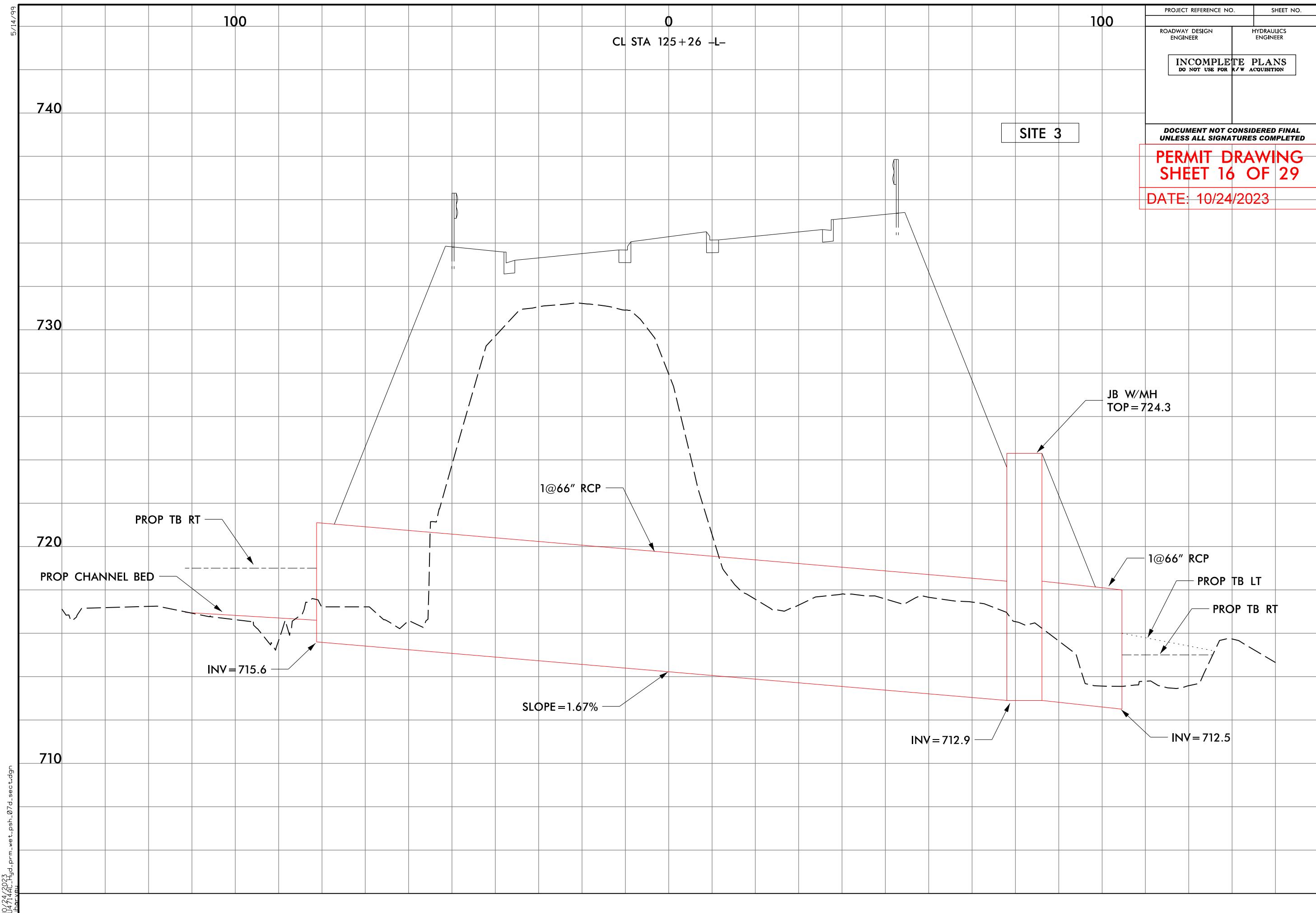
PROJECT REFERENCE NO.		SHEET NO.
U-4714AC		
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
5.0 CONCRETE HOLLOW CORE TUBE FLOOR		

**UNLESS ALL SIGNATURES COMPLETED
PERMIT DRAWINGS**

PERMIT DRAWING
SHEET 15 OF 29

DATE: 10/24/2023

Page 1 of 1



PROJECT REFERENCE NO.	HEET NO.
U-4714AC	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

KCI
Engineers • Planners • Scientists • Construction Managers
4500 Falls of Neuse Road, Suite 400
Raleigh, NC 27609-6270
Phone (919) 783-9214 • Fax (919) 783-9266

PERMIT DRAWING SHEET 18 OF 29

DATE: 10/24/2023

SEE PERMIT DRAWING
SHEET 21 OF 29
FOR ENLARGEMENT VIEW

MATCHLINE -L- 150 + 00.00
SEE SHEET 8

8/17/99

05-10-2022: RW: REVISION: REVISED STALLINGS/OTTER OLD MONROE ROAD INTERSECTION FROM A REDUCED CONFLIC INTERSECTION WITH NO THRU MOVEMENTS ON OTTER/STALLINGS ROAD AND THRU ONLY MOVEMENTS ON OTTER/STALLINGS ROAD FROM OLD MONROE ROAD. REDUCED THE MEDIUM WIDTH ON OLD MONROE ROAD FROM 30' TO 10.5' AND ADDED RETAINING WALL TO PARCEL 128. REVISED RW AND EASMENTS ON ALL PARCELS TO ACCOMMODATE DESIGN CHANGES. BH
12-22-2022: RW: REVISION: CHANGED DUE TO AUE ON PARCEL 125 FROM -L- STA. 156 + 37.00 TO 158 + 96.81. ALSO ADDED PDE TO PARCEL 125 FOR THE CATCH BASIN AT -L- 157 + 50.00. (BH)

U-4714AC-23_lyd.prm.wet.psh_09a.dgn

FOR -L- PROFILE VIEW, SEE SHEET 15

FOR -Y29-, -Y1-, -YIA-, -Y2-, -Y2A-, -Y2B- PROFILE VIEWS, SEE SHEETS 19 & 21

50' 25' 0 50' 100'
SCALE: 1"=50'

NAD 83NA 2011
MATCHLINE -Y2- 14 + 50.00
SEE SHEET 9A

FILL IN WETLAND
BLACK & BLACK, LLC

SPEC BACK OF CURB V-DITCH
SEE DETAIL 14

REMOVE 43 LF
18" RCP

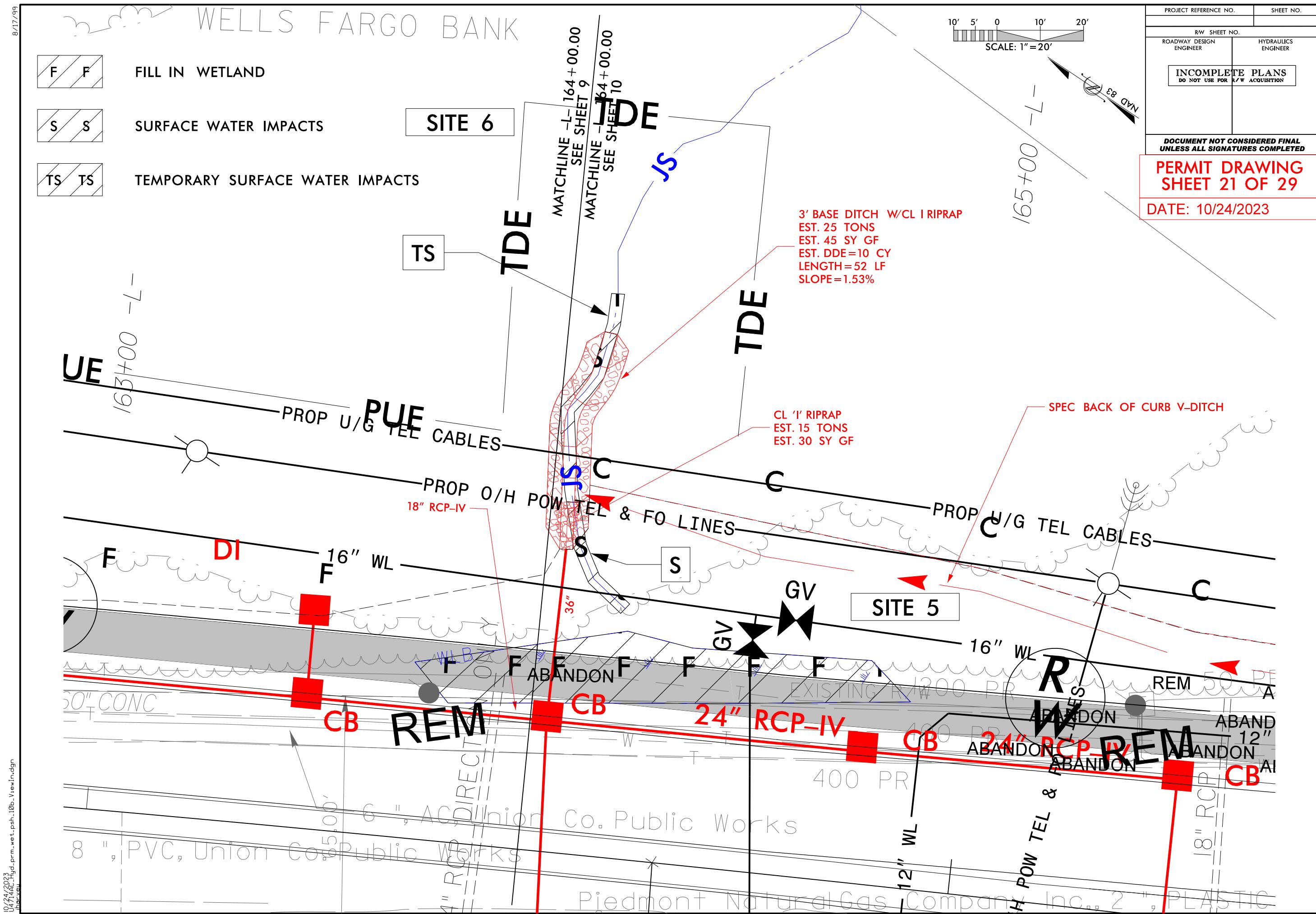
REMOVE 11 LF
15" RCP

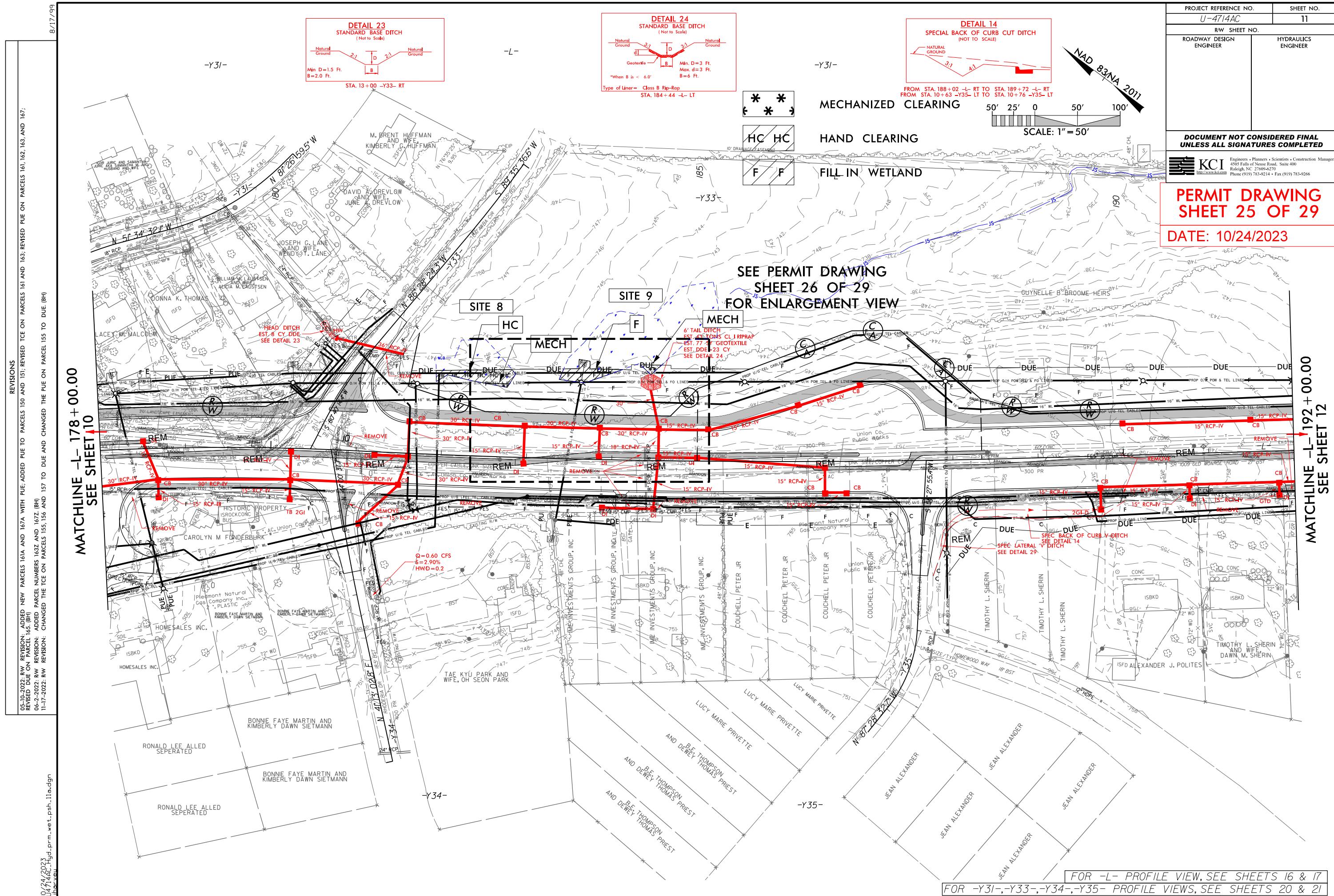
REMOVE 2 LF
24" RCP-IV

REMOVE 80 LF
F 18" RCP

REMOVE 15 LF
15" RCP-IV

REMOVE 30 LF
30" RCP-IV





WETLAND AND SURFACE WATER IMPACTS SUMMARY											
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS			
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Natural Stream Design (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
		POOND						< 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						
TOTALS*:			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

WETLAND AND SURFACE WATER IMPACTS SUMMARY

*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



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.00; Released August 2021)

WBS Element: TIP/Proj No: U-4714B County(ies): Union Page 1 of 2

General Project Information

WBS Element:	TIP Number:	U-4714B	Project Type:	Roadway Widening	Date:	9.5.2023
NCDOT Contact:	Carlas Sharpless, PE	Contractor / Designer:	STV Engineers, Inc.			
Address:	1000 Birch Ridge Drive Raleigh, NC 27610		Address:	900 West Trade Street Suite 715 Charlotte, NC 28202-1144		
	Phone:		(704) 816-2555			
	Email:		crsharpless@ncdot.gov Edward.Vance@stvinc.com			
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						
Project Length (lin. miles or feet):	3.80	Surrounding Land Use:	Commercial & Residential			
Project Built-Upon Area (ac.)	Proposed Project			Existing Site		
Typical Cross Section Description:	Proposed four 12' travel lanes with a raised median and center turn lanes. Proposed curb & gutter and sidewalk along improvement section of roadway.			Existing two travel lanes with occasional center turn lane and right turn lanes. Sidewalk and curb & gutter within more heavily developed parts of the project area.		
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	43,160	Year:	2041	Existing:	36,140
General Project Narrative: (Description of Minimization of Water Quality Impacts)	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 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 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 Fork 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.

 (Version 3.00; Released August 2021)		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS			
WBS Element:	TIP/Proj No.:	U-4714B	County(ies):	Union	Page 2 of 2
General Project Information					
Waterbody Information					
Surface Water Body (1):	Davis Mine Creek		NCDWR Stream Index No.:	11-138-2-2-1	
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C		
		Supplemental Classification:			
Other Stream Classification:					
Impairments:	None				
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 Buffer?	N/A	Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
Surface Water Body (2):	South Fork Crooked Creek		NCDWR Stream Index No.:	13-17-20-2	
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C		
		Supplemental Classification:			
Other Stream Classification:					
Impairments:	biological impairment				
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 Buffer?	N/A	Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
Surface Water Body (3):	Price Mill Creek		NCDWR Stream Index No.:	11-138-2-2	
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C		
		Supplemental Classification:			
Other Stream Classification:					
Impairments:	None				
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 Buffer?	N/A	Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

SITE 1

stv

PROJECT REFERENCE NO.

U-4714B

4

R/W SHEET NO.

1

ROADWAY DESIGN

ENGINEER

HYDRAULICS

ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

1
STALLINGS POINTE LLC
DB 7094 PG 100

2
MARK DAVID BROOME
DB 7235 PG 204

72" CL-V RCP
EXCAVATION EST. 50 C.Y. TOTAL
CL-I RIPRAP 1'-6" THICK (TYP.)
NATURAL GROUND
NATIVE MATERIAL (1.0')

72" CL-V RCP
EXCAVATION EST. 10 C.Y. TOTAL
NATURAL GROUND
NATIVE MATERIAL (1.0')

DETAIL 4-1
CULVERT GRADING PLAN
INLET CHANNEL

DETAIL 4-2
CULVERT GRADING PLAN
OUTLET CHANNEL

TEMPORARY IMPACT IN SURFACE WATER
PERMANENT IMPACT IN SURFACE WATER
INLET CHANNEL (SEE DETAIL 4-1)
EST. 30 C.Y. DDE
STANDARD 'V' DITCH (SEE DETAIL 4-4)
EST. 12 C.Y. DDE

PUE

PUE

DUE

DUE

DUE

DUE

DUE

DUE

DUE

DUE

PUE

CL-I RIP RAP
EST. 5 TONS
14 S.Y. GEOTEXTILE

CL-B RIP RAP
EST. 40 TONS
100 S.Y. GEOTEXTILE

18" RCP-IV

24" RCP-III

15" RCP-IV

OLD MONROE RD
SR 1009

PUE

E

DUE

E

PUE

E

DUE

E

PUE

E

DUE

E

PUE

E

PUE

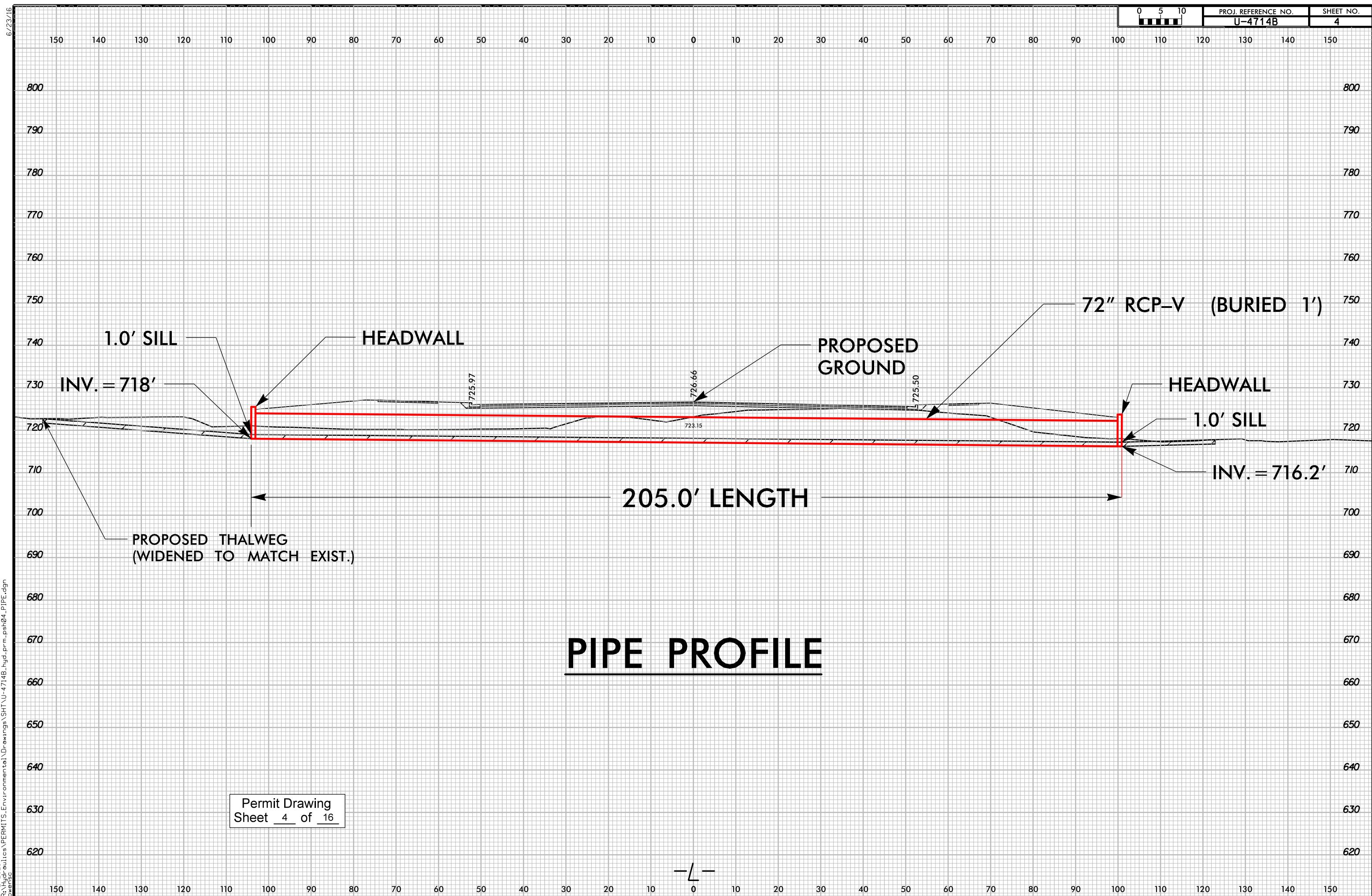
E

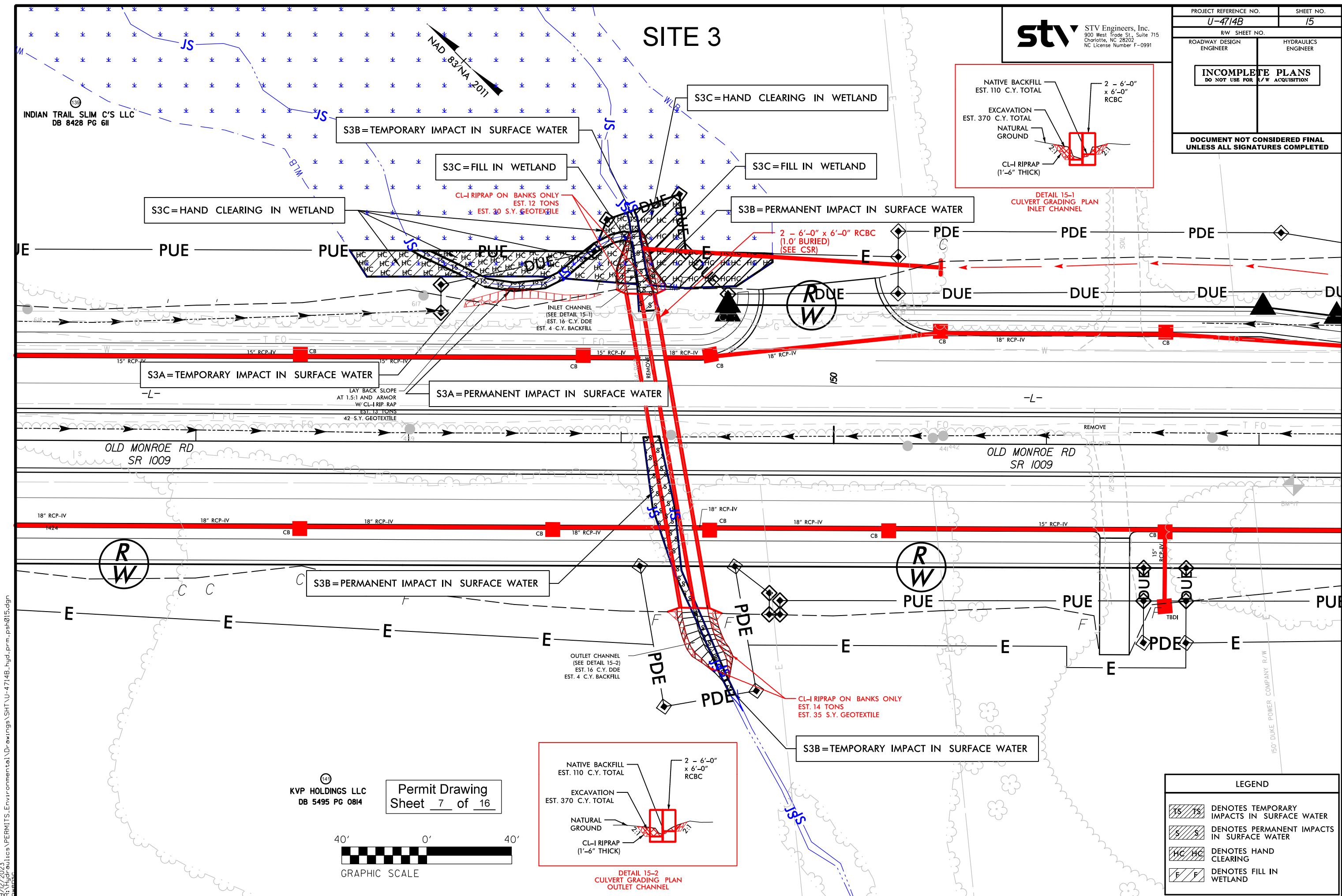
24" RCP-IV

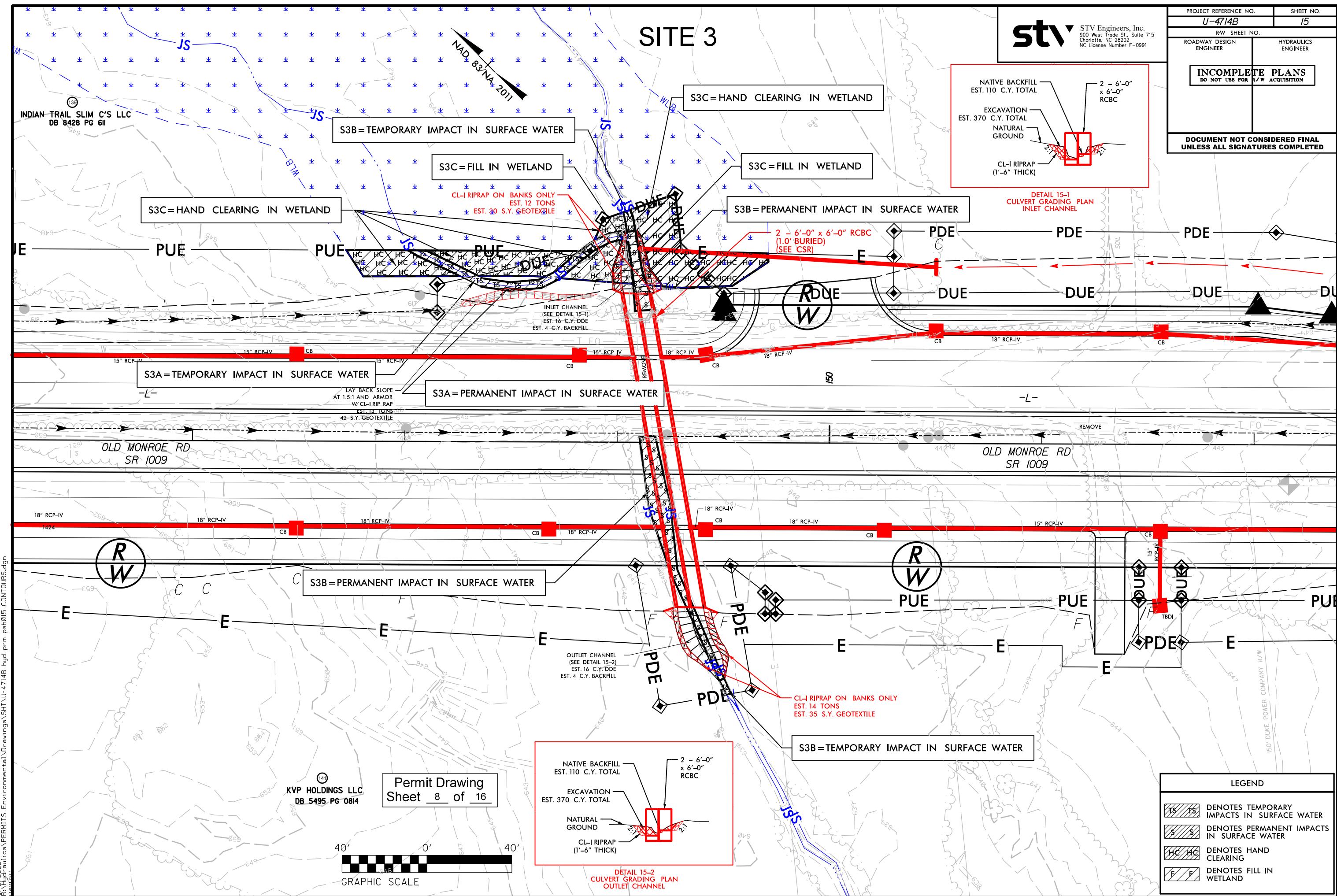
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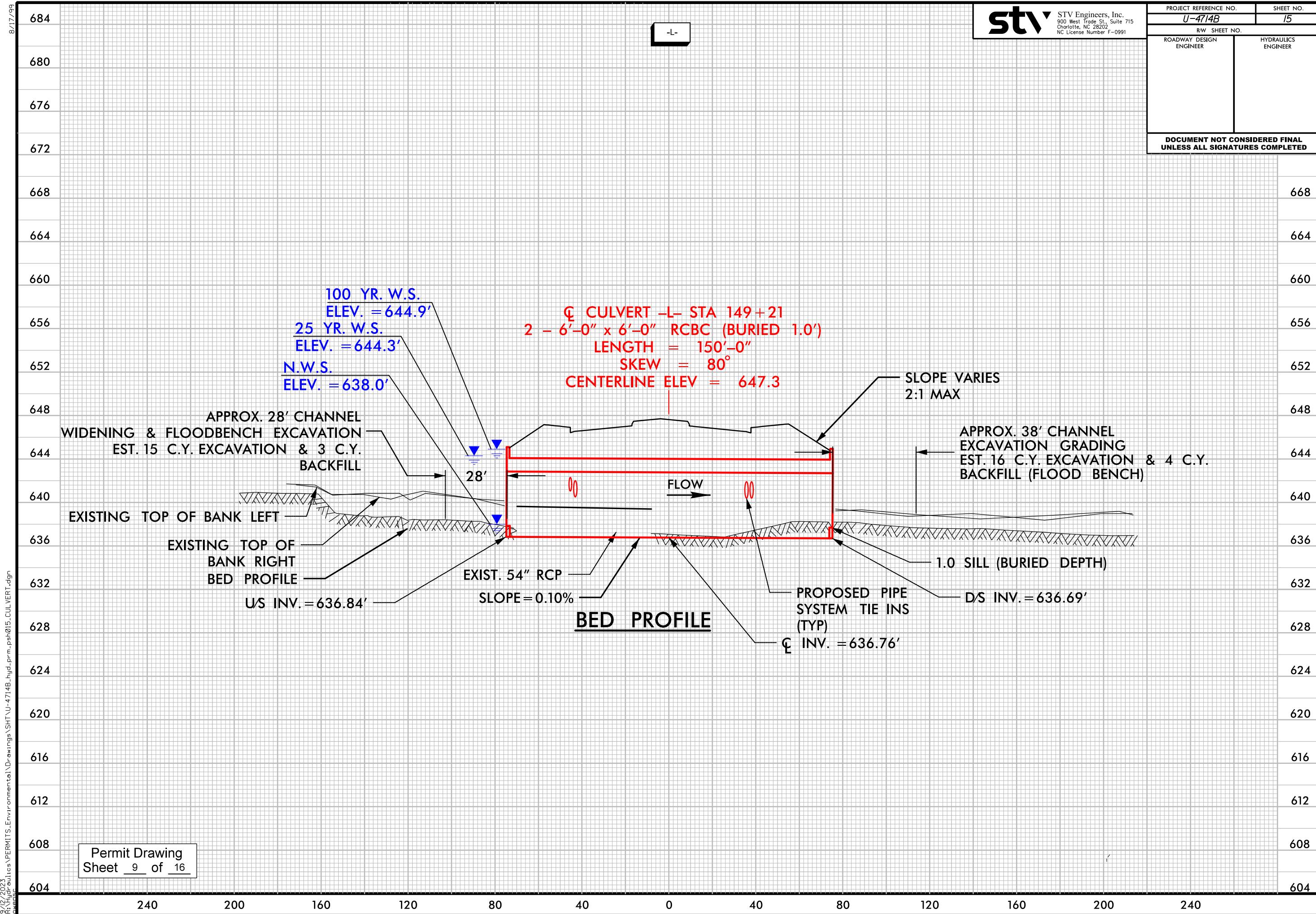
15" RCP-IV

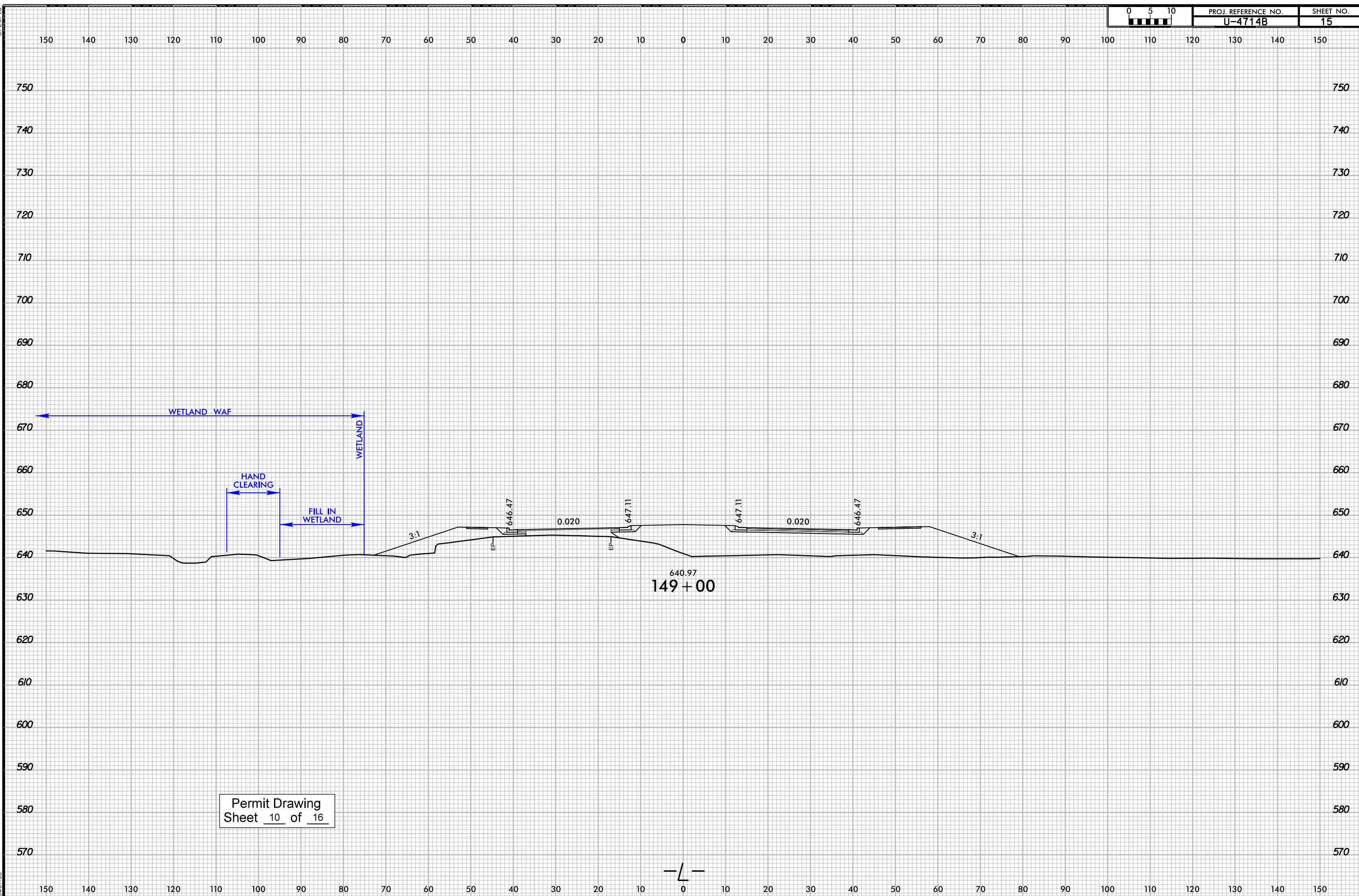
SS

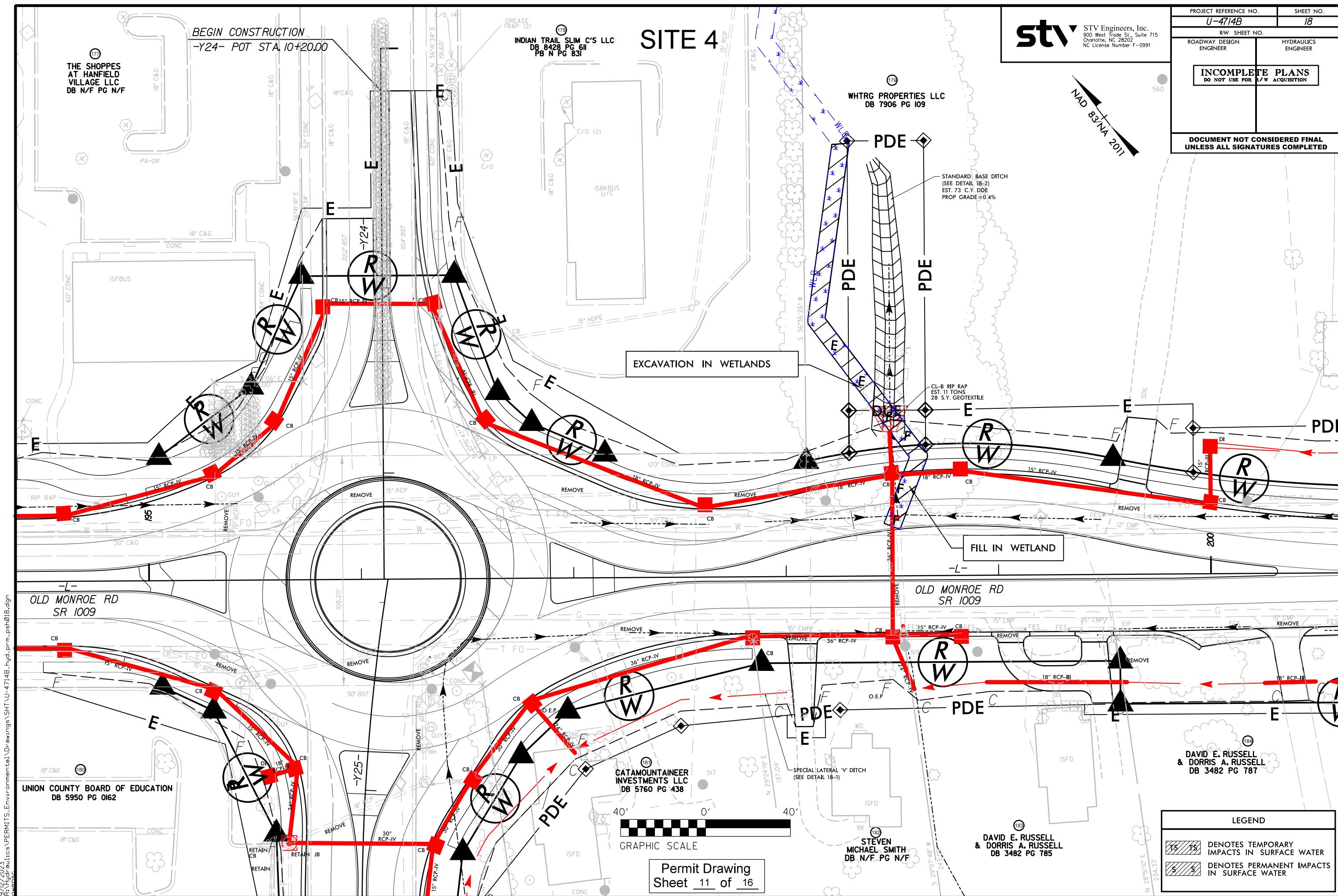


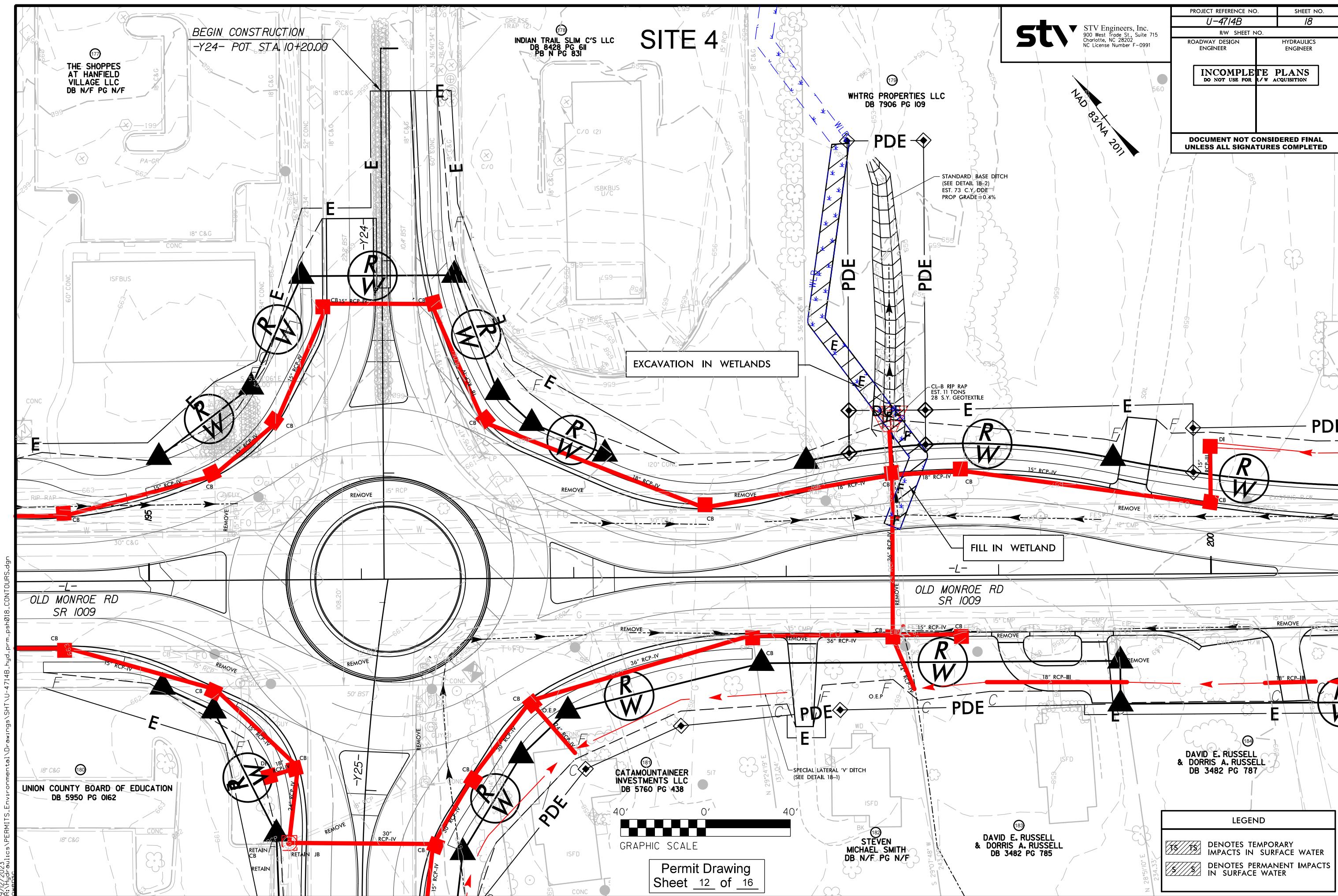


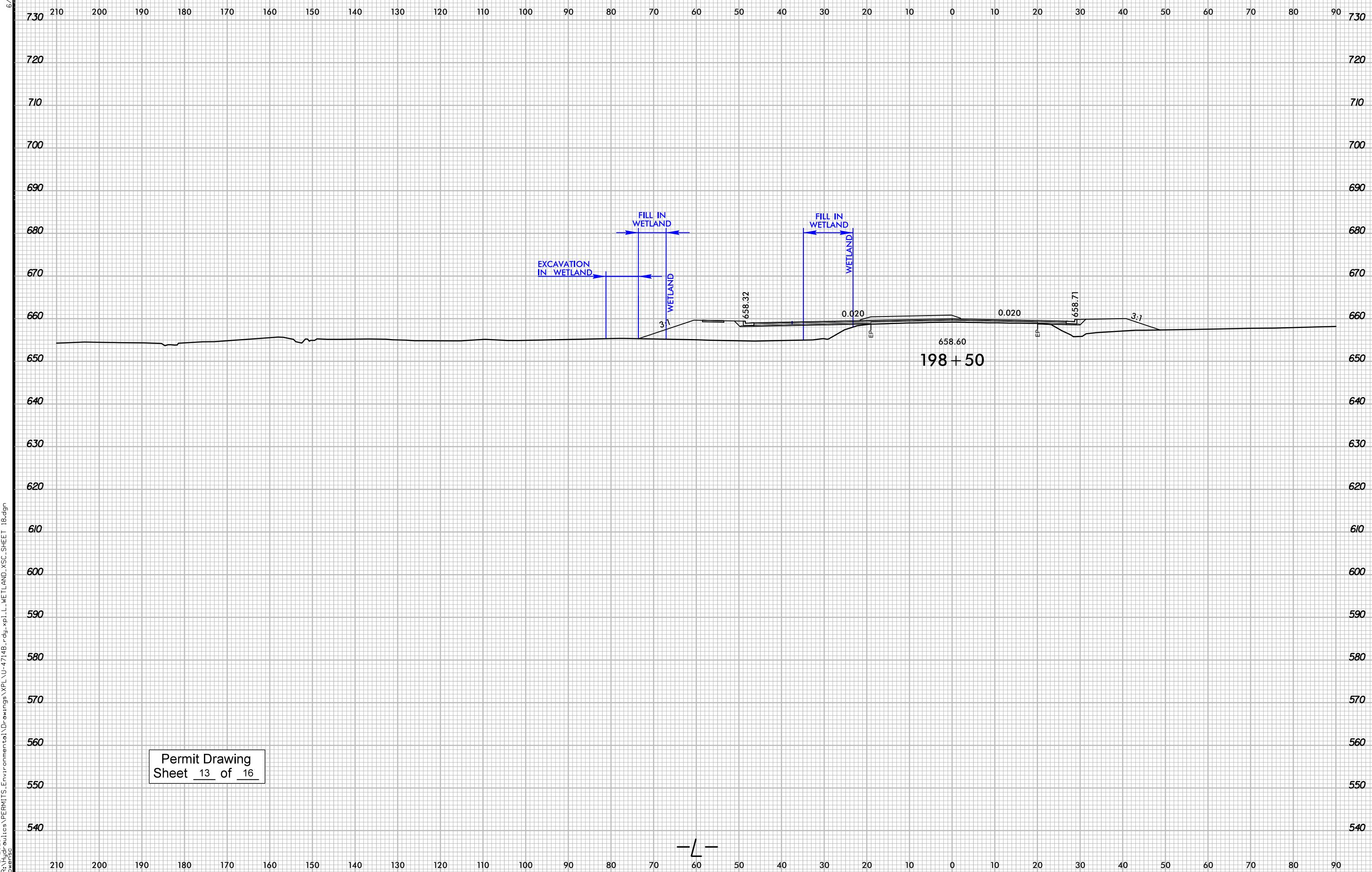






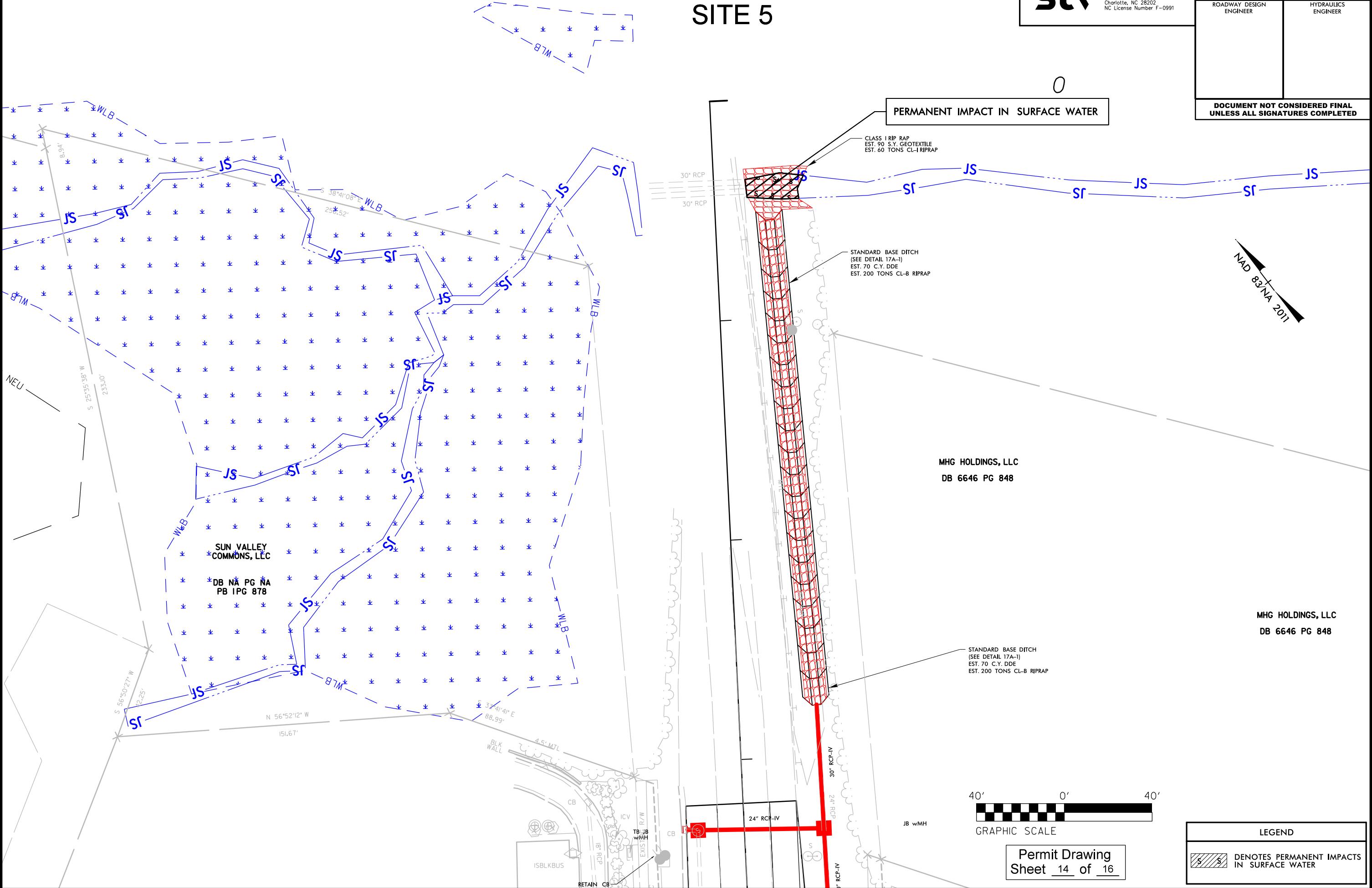






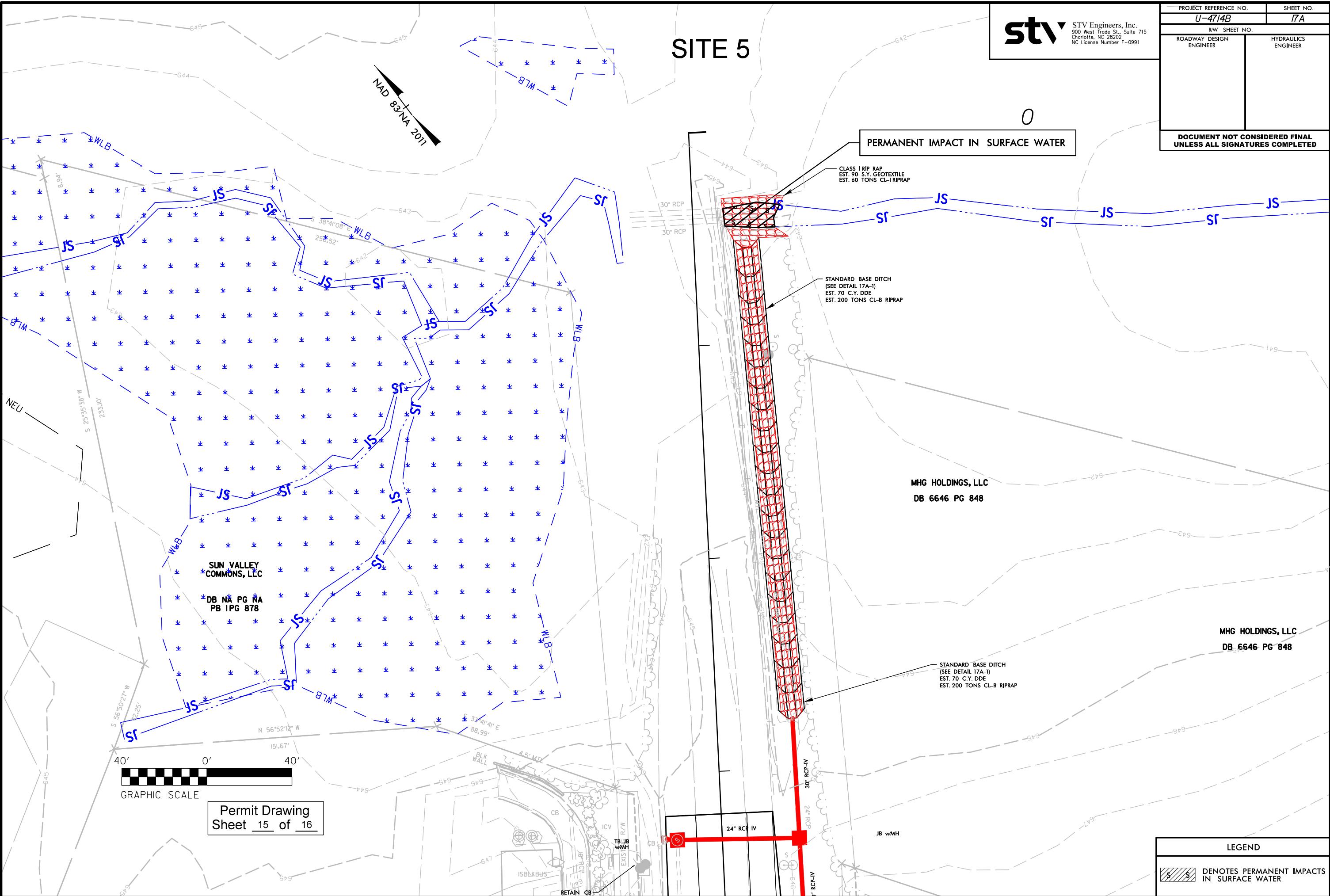
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SITE 5



PROJECT REFERENCE NO.	SHEET NO.
U-4714B 17A	
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SITE 5



WETLAND AND SURFACE WATER IMPACTS SUMMARY

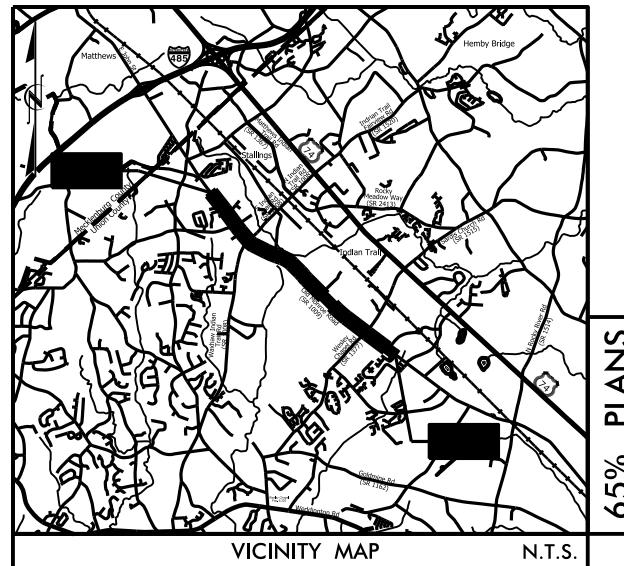
WETLAND IMPACTS

SURFACE WATER IMPACTS

*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



65% PLANS

VICINITY MAP

N.T.S.

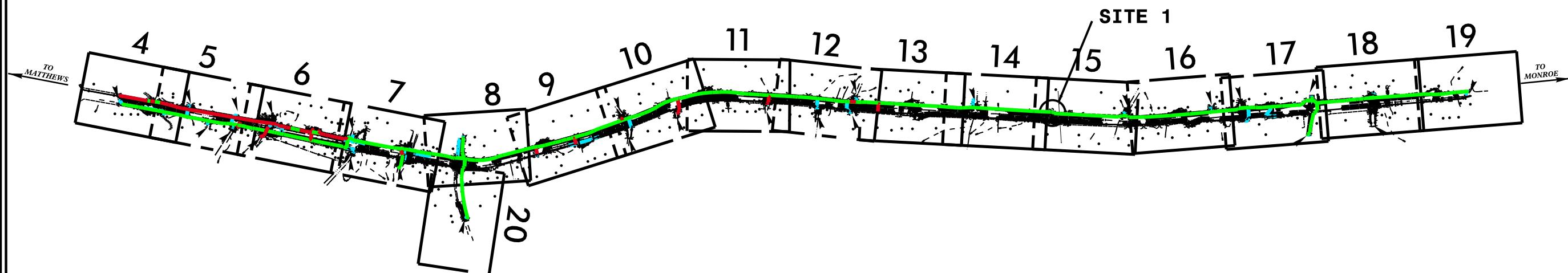
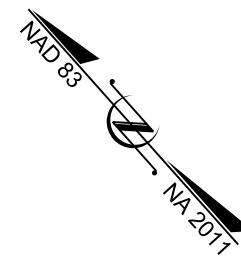
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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 PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4714B	1	
STATE PROJ. NO.	P.A. PROJ. NO.		DESCRIPTION
39078.1.6			PE

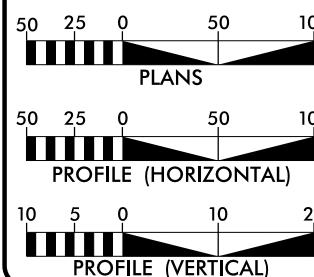


INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

★ PROPOSED TRAFFIC SIGNAL

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

GRAPHIC SCALES



DESIGN DATA

ADT 2021 = 36,140
ADT 2041 = 43,160
K = 9%
D = 55%
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

PLANS PREPARED FOR THE NCDOT BY:



STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 15, 2019

LETTING DATE:
FEBRUARY 16, 2021

SEAN C. STEPHENS, PE
PROJECT ENGINEER

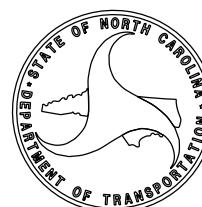
STEPHANIE PHILLIPS, EIT
PROJECT DESIGNER

BRYAN KEY, PE
PROJECT ENGINEER
NCDOT ROADWAY DESIGN

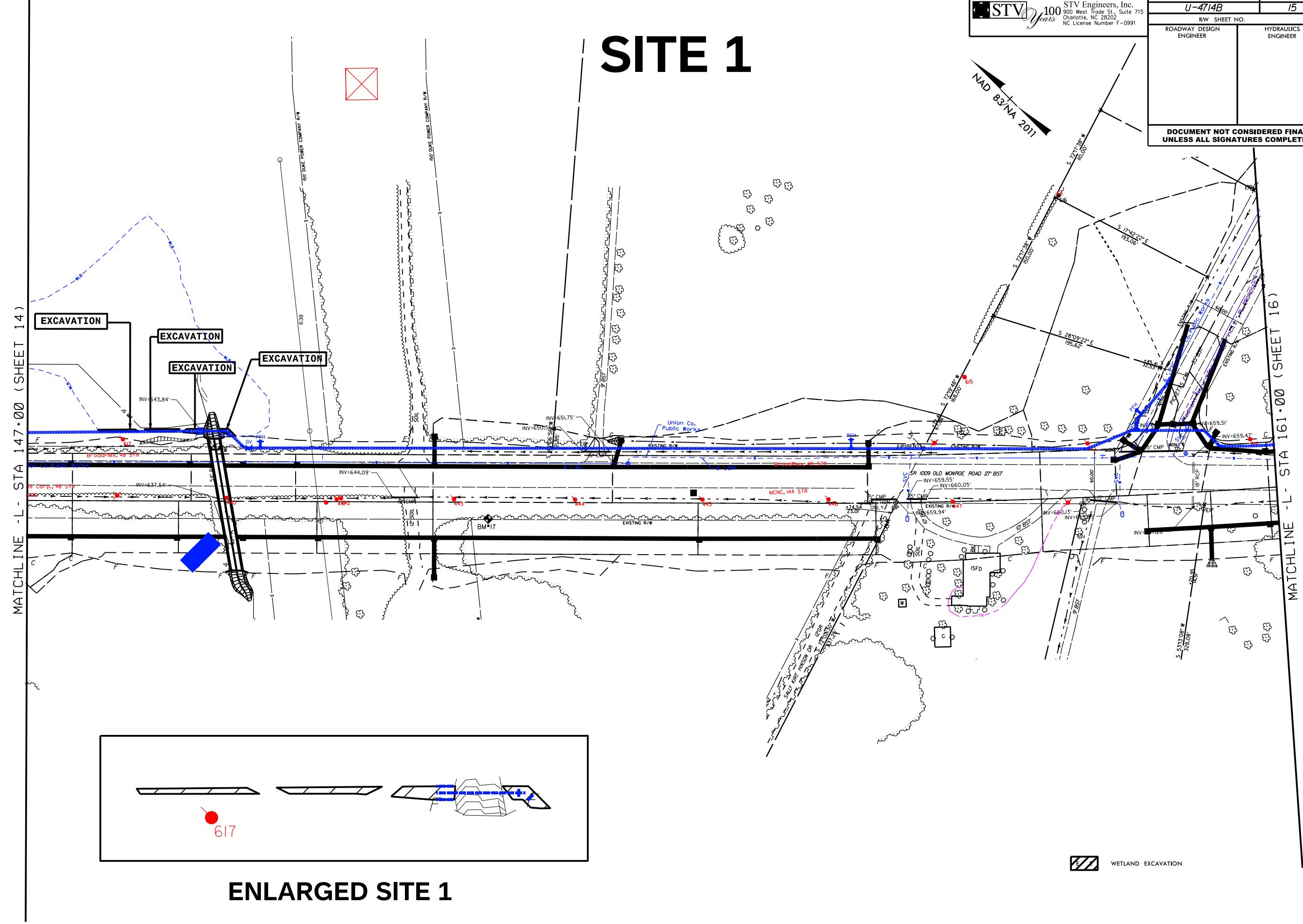
HYDRAULICS ENGINEERS

P.E.
SIGNATURE:
ROADWAY DESIGN ENGINEER

P.E.
SIGNATURE:



SITE 1



WETLAND PERMIT IMPACT SUMMARY

WETLAND IMPACTS

SURFACE WATER IMPACTS

* Temporary Excavation

- * Excavation will be set to the side and then place back into the hole.

***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)

ET



(Version 2.08; Released April 2018)

North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

WBS Element: 39078.1.2 TIP No.: U-4714A County(ies): Mecklenburg Page 1 of 1

General Project Information

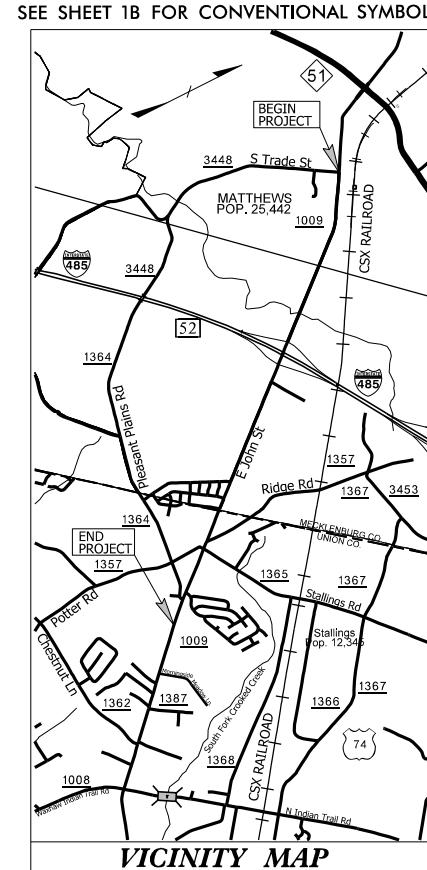
WBS Element:	39078.1.2	TIP Number:	U-4714A	Project Type:	Roadway Widening	Date:	6/14/2021		
NCDOT Contact:	David Webb, PE			Contractor / Designer:	Joshua G. Dalton, PE				
Address:	NCDOT Hydraulics Unit 1590 Mail Service Raleigh, NC 27699-1590			Address:	Sungate Design Group, P.A. 905 Jones Franklin Road Raleigh, NC 27606				
	Phone:	(919) 707-6731			Phone:	(919) 859-2243			
	Email:	dswebb1@ncdot.gov			Email:	jdalton@sungatedesign.com			
City/Town:	Matthews			County(ies):	Mecklenburg				
River Basin(s):	Catawba			CAMA County?	No				
Wetlands within Project Limits?	Yes								

Project Description

Project Length (lin. miles or feet):	3.37	Surrounding Land Use:	Commercial, Industrial, Medium Density Residential, Forest					
Proposed Project			Existing Site					
Project Built-Upon Area (ac.)	35.9	ac.	21.9	ac.				
Typical Cross Section Description:	E. John Street (SR 1009): 4 paved lanes (total 44') with 2'-6" curb and gutter. Paved median with monolithic island and turn lane (total 0'-42') Varying 10'-15' shoulder (14'-19' with guardrail) shoulder with varying 5' -10' width pedestrian sidewalk.			E. John Street (SR 1009): Open shoulder section, 2 paved lanes (total 24'), 1' paved shoulder on each side. Varying fill and cut slopes. Curb and gutter section with 3 paved lanes (total 36') with 10' concrete sidewalk. Varying fill and cut slopes.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 54,500	Year:	Existing:	45,000	Year:	2017		
General Project Narrative: (Description of Minimization of Water Quality Impacts)	The North Carolina Department of Transportation (NCDOT) has proposed to widen and improve East John Street (SR 1009) in Matthews, NC. There is one proposed major structures involved with the improvements to East John Street, which is to be constructed at existing stream crossing locations. The major structure, along UT to Fourmile Creek, 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 surface water impacts as possible. Velocities at jurisdictional features and wetlands are non-erosive.							

Waterbody Information

Surface Water Body (1):	UT to Fourmile Creek		NCDWR Stream Index No.:	11-137-9-4			
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C				
		Supplemental Classification:					
Other Stream Classification:	None						
Impairments:	None						
Aquatic T&E Species?	No	Comments:					
NRTR Stream ID:				Buffer Rules in Effect:	N/A		
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A		
Deck Drains Discharge Over Water Body?	N/A	(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)							



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

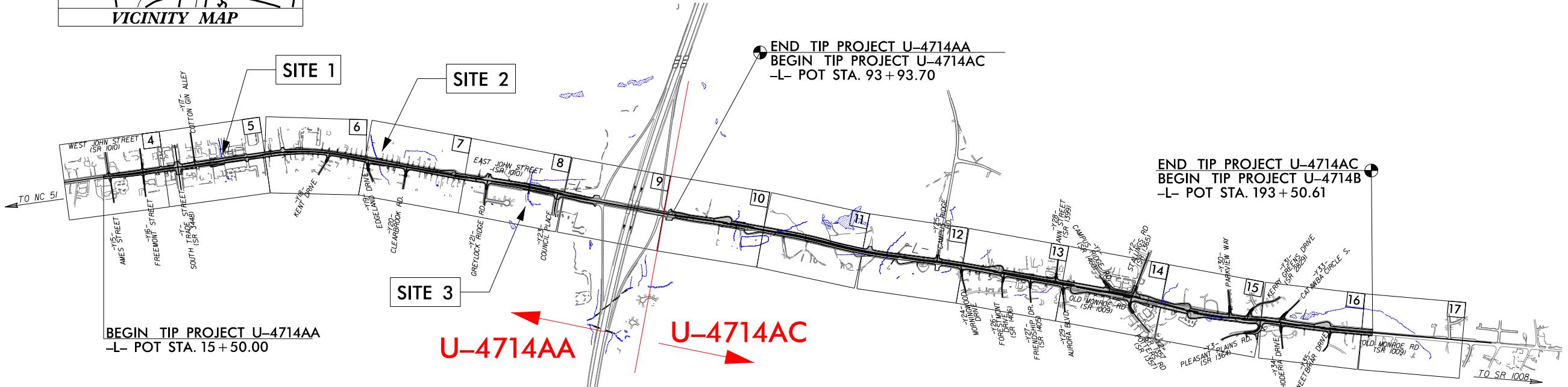
25% REVIEW PLANS

**PERMIT DRAWING
SHEET 1 OF 15**

DATE: 8/3/2023

PRELIMINARY

WETLAND AND SURFACE WATER IMPACTS PERMIT



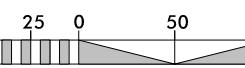
NOTE:

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

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

DESIGN DATA

ADT 2017 = 45,000
ADT 2037 = 54,500
K = 6 %
D = 55 %
T = 4 % *
V = 40 MPH
* TTST = 1% DUAL 3%
FUNC CLASS =
MINOR ARTERIAL

PROJECT LENGTH

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

Prepared In the Office of:



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
<http://www.kci.com>

Plans Prepared For:

DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

DEWAYNE L. SYKES, PE

PROJECT ENGINEER

LETTING DATE:

BRYAN E. HOUGH, PE

PROJECT DESIGN ENGINEER

NCDOT CONTACT:

BRYAN KEY, PE

PROJECT ENGINEER - NCDOT

HYDRAULICS ENGINEER

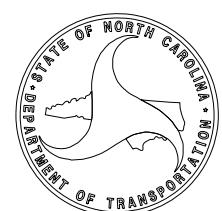
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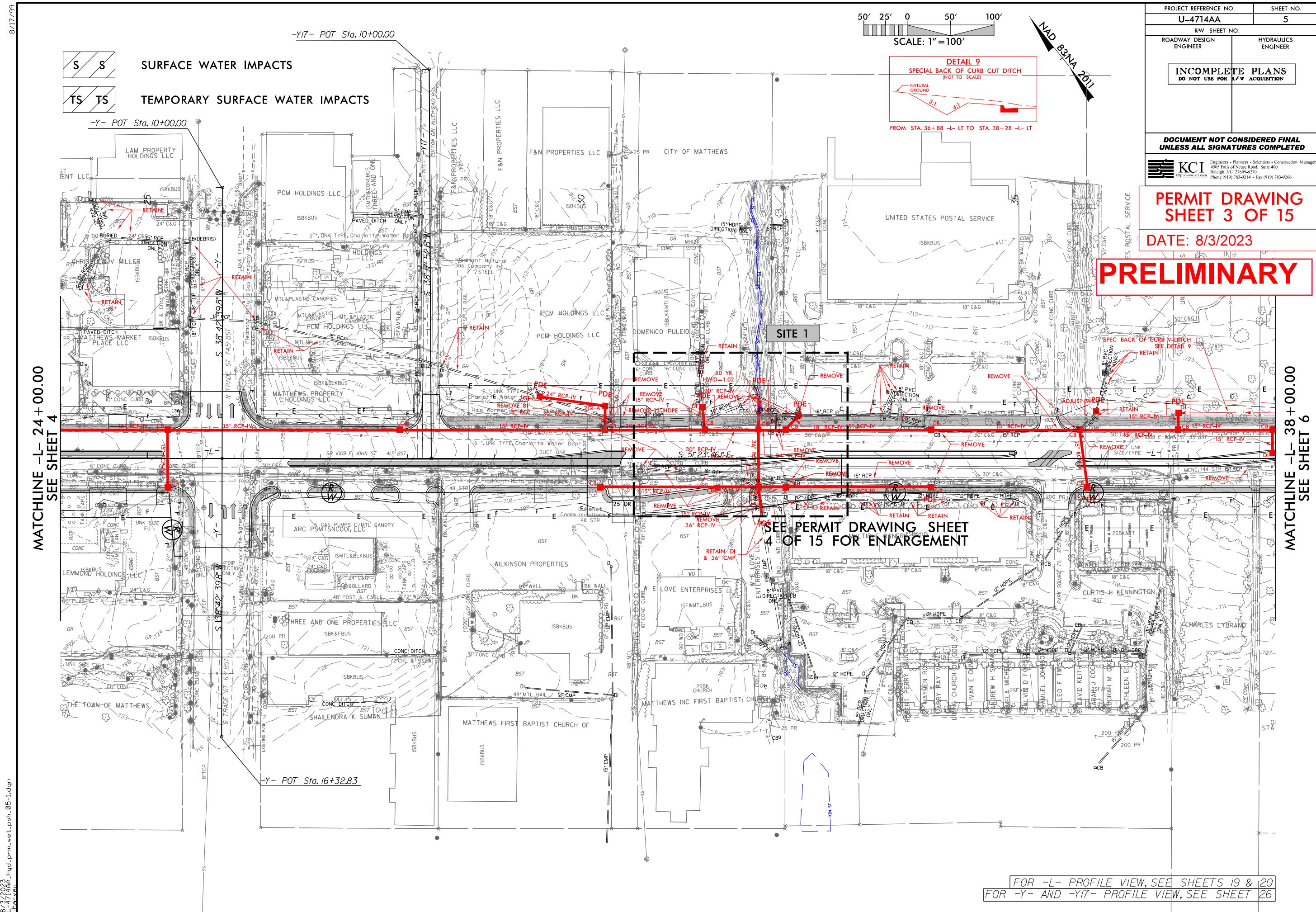
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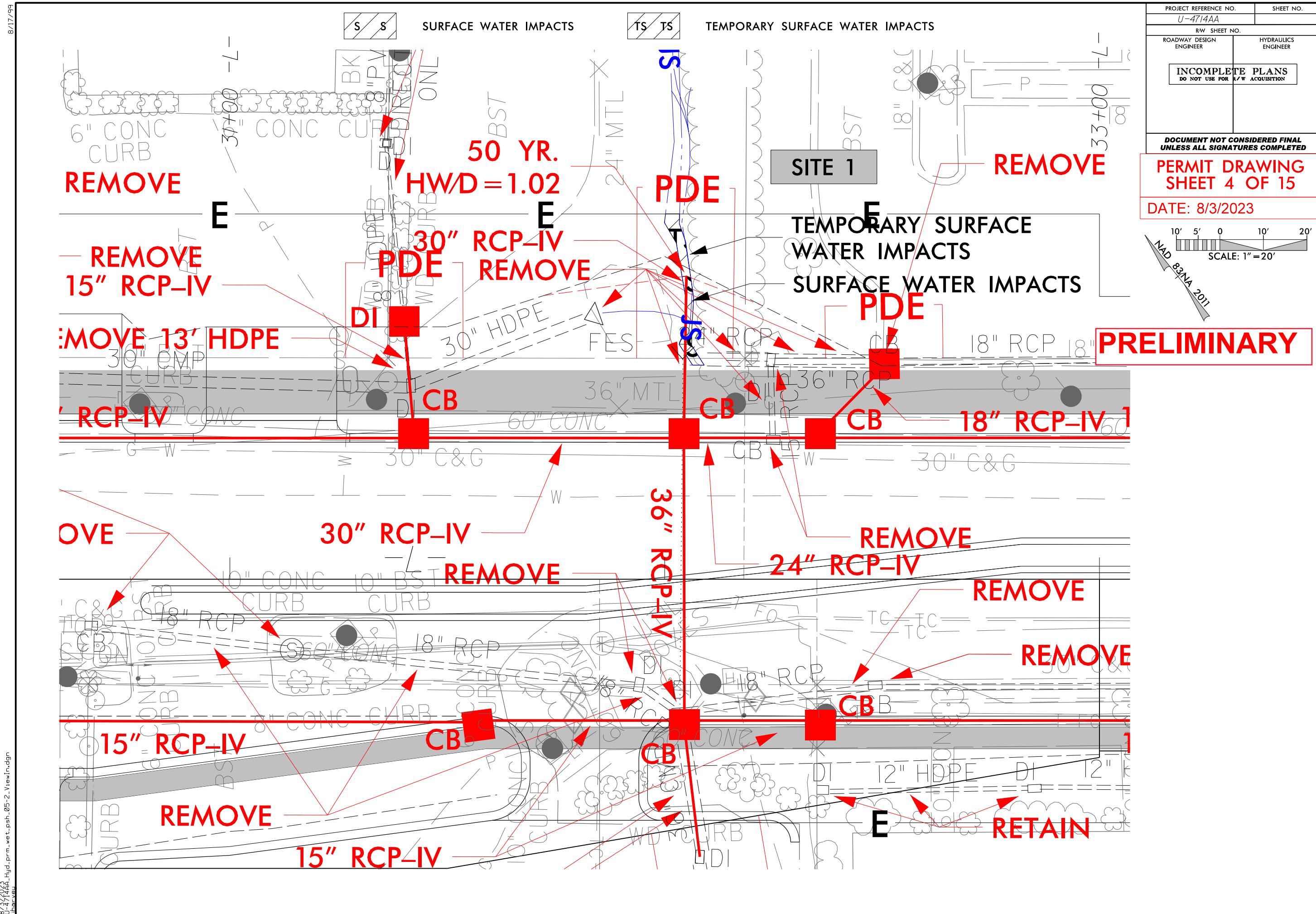
ROADWAY DESIGN

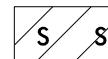
ENGINEER

P.E.





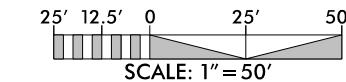




SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS

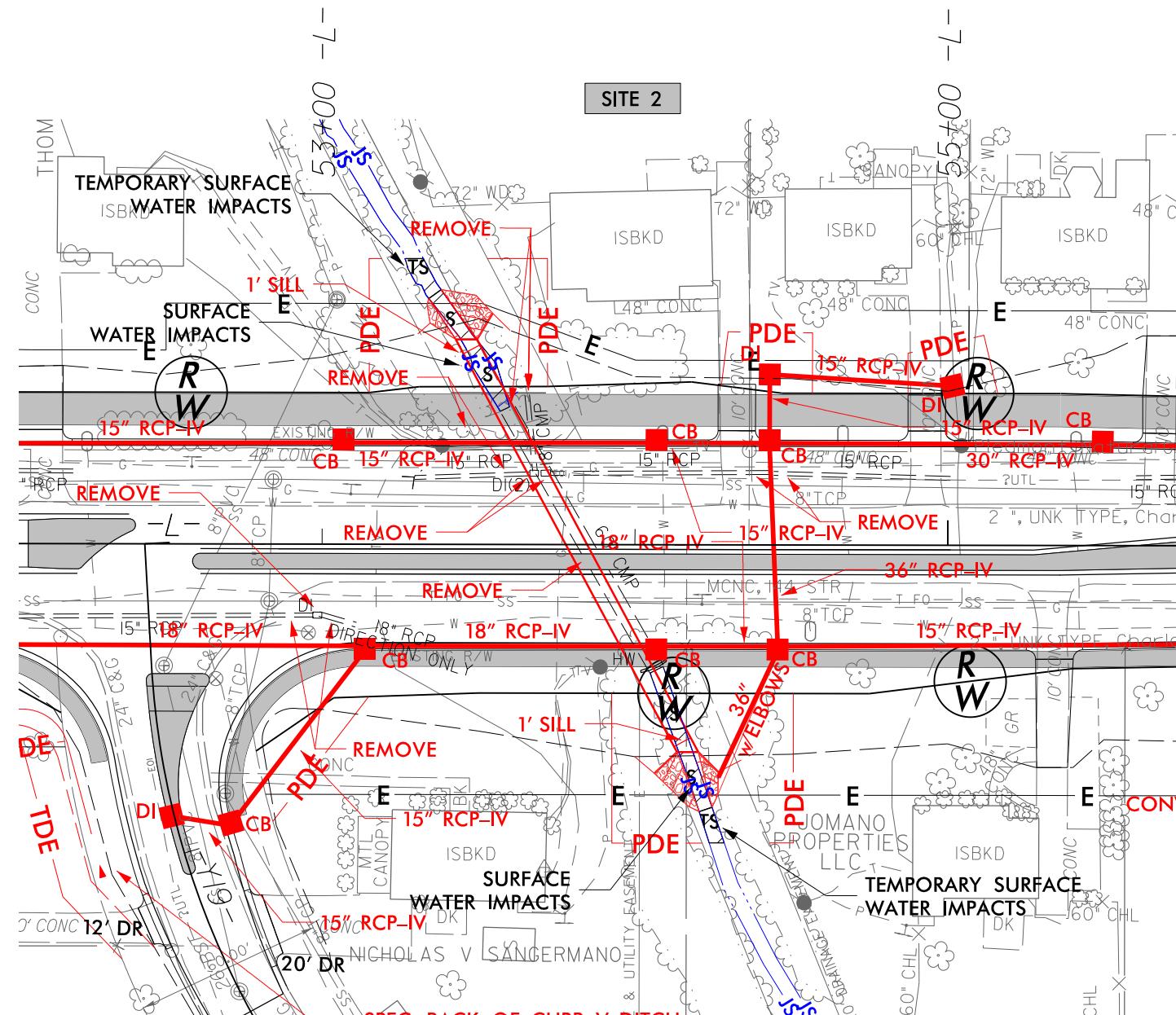


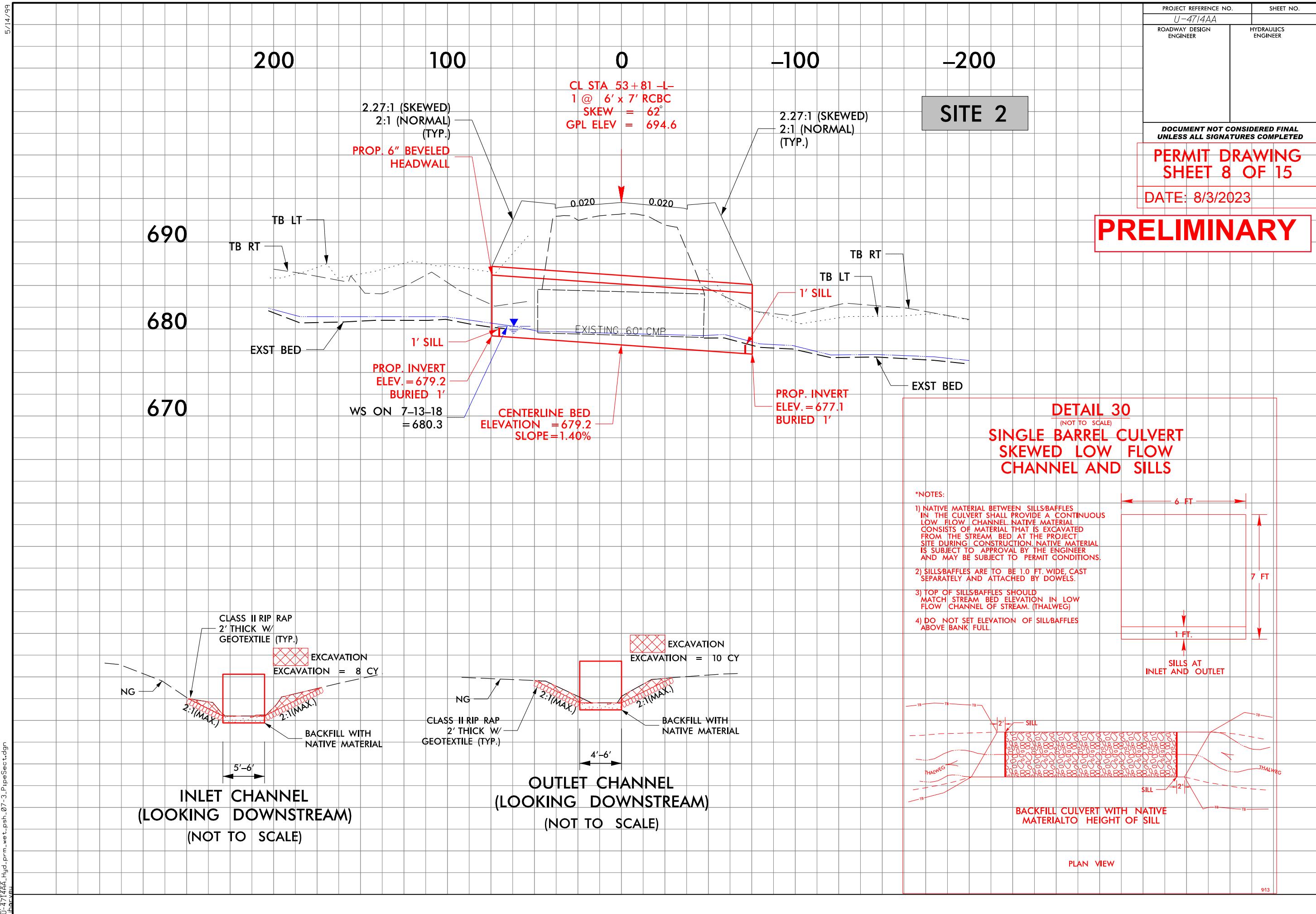
PROJECT REFERENCE NO.		SHEET NO.
U-4714AA		
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		

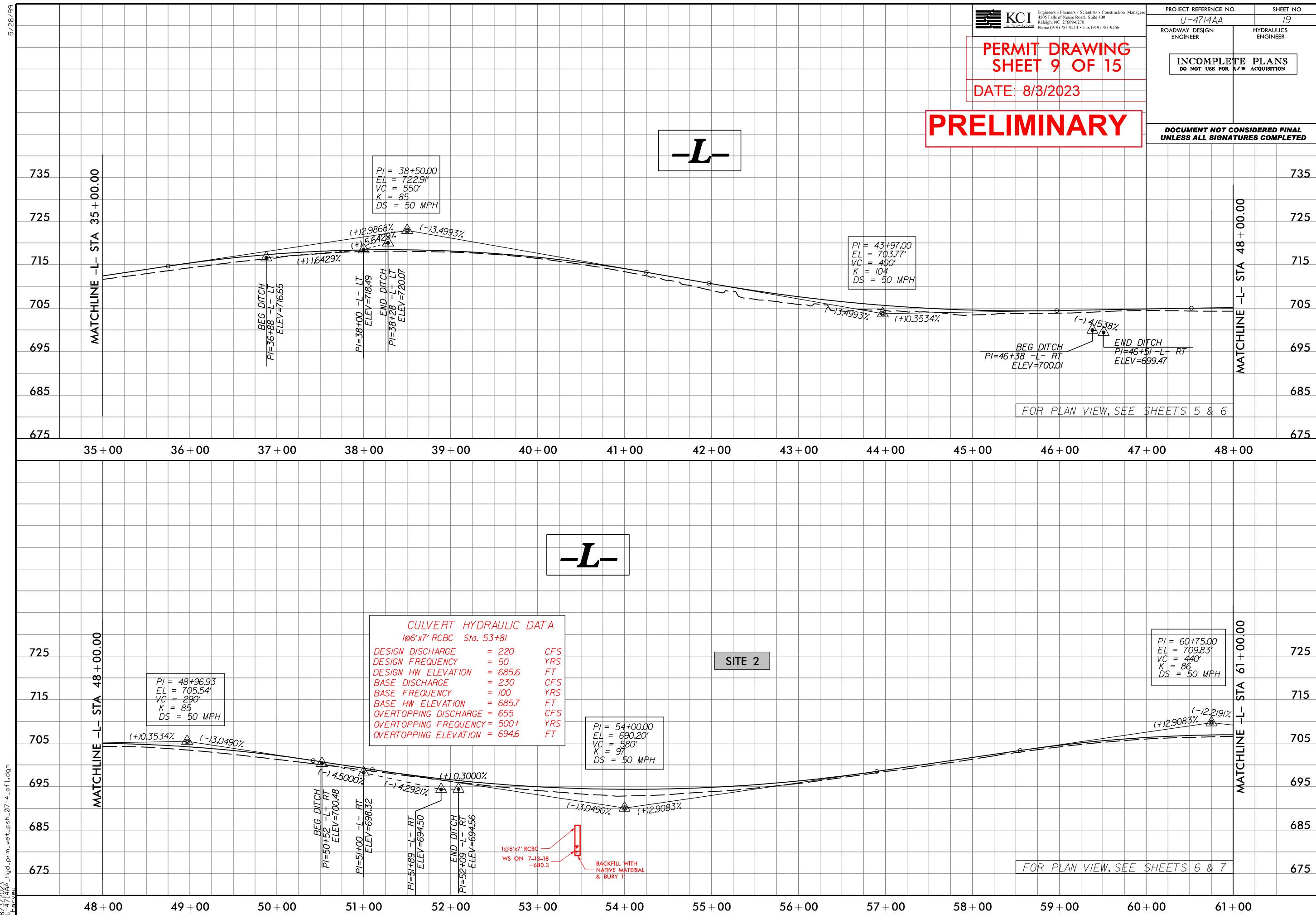
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETEDPERMIT DRAWING
SHEET 7 OF 15

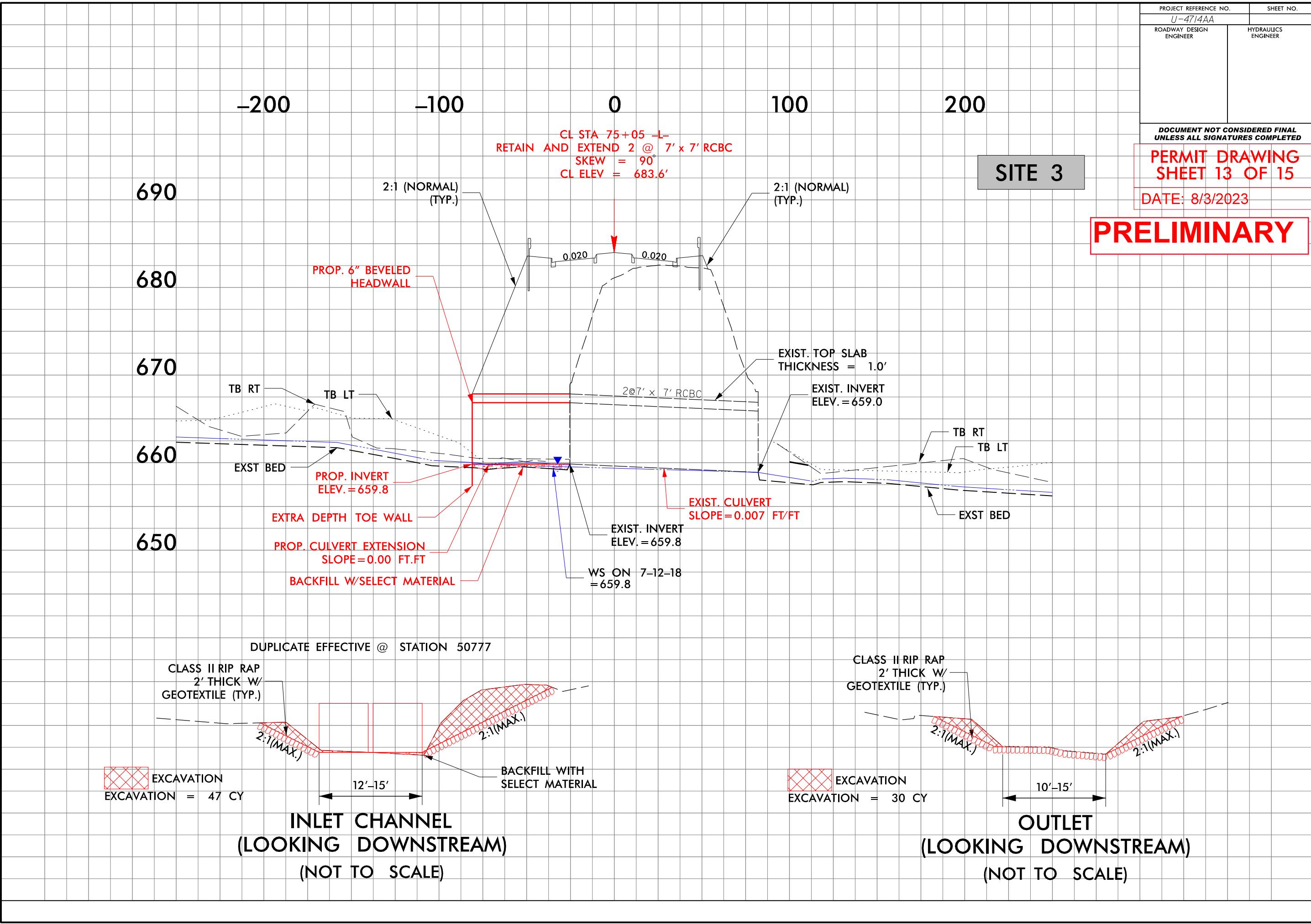
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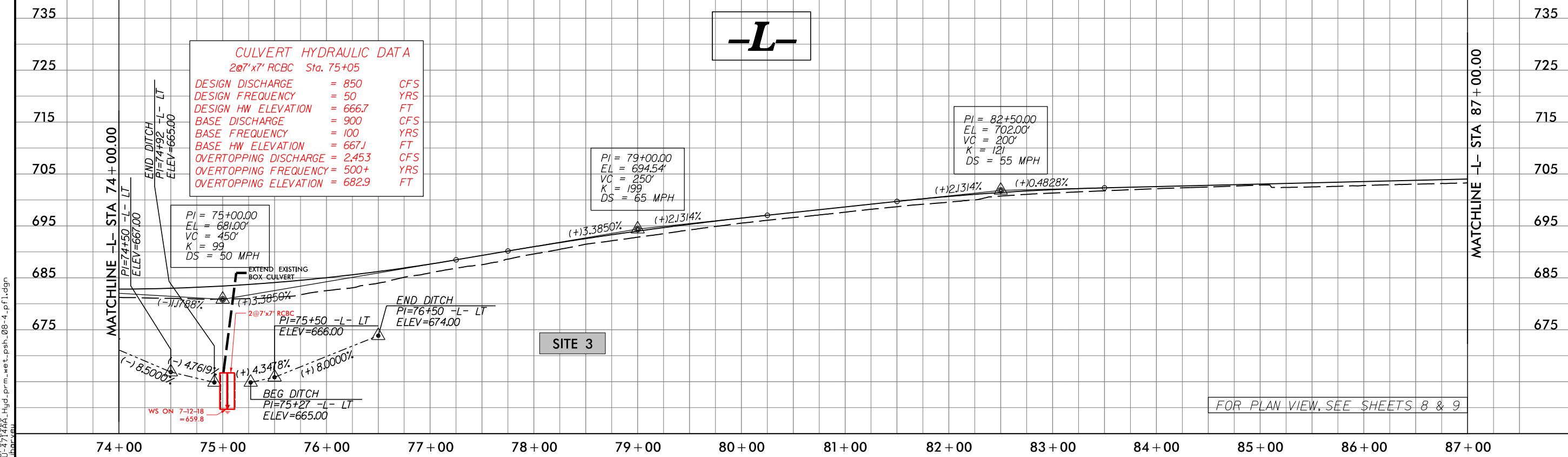
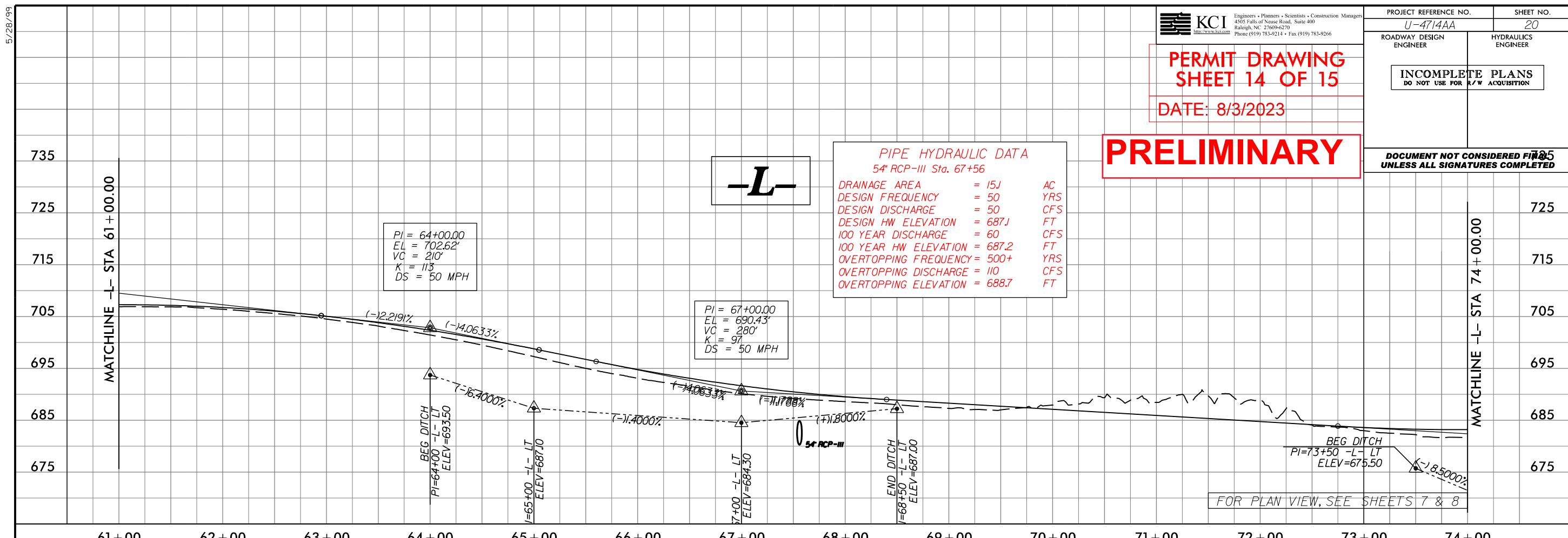
PRELIMINARY











WETLAND AND SURFACE WATER IMPACTS SUMMARY

*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

PRELIMINARY