



## Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits  
(along with corresponding Water Quality Certifications)

September 29, 2018 Ver 3

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

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

### A. Processing Information

**County (or Counties) where the project is located:\***

Duplin

**Is this project a public transportation project?\***

Yes  No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

**Is this a NCDOT Project?\***

Yes  No

**(NCDOT only) T.I.P. or state project number:**

B-5639

**WBS #\***

45594.1.1

(for NCDOT use only)

**1a. Type(s) of approval sought from the Corps:\***

Section 404 Permit (wetlands, streams and waters, Clean Water Act)

Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

**1b. What type(s) of permit(s) do you wish to seek authorization?\***

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

**1c. Has the NWP or GP number been verified by the Corps?\***

Yes  No

**Nationwide Permit (NWP) Number:**

23 - Categorical Exclusions

**NWP Numbers (for multiple NWPS):**

12

List all NW numbers you are applying for not on the drop down list.

**1d. Type(s) of approval sought from the DWR:\***

check all that apply

401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual Permit

401 Water Quality Certification - Express

Riparian Buffer Authorization

**1e. Is this notification solely for the record because written approval is not required?**

\*

**For the record only for DWR 401 Certification:**

Yes  No

**For the record only for Corps Permit:**

Yes  No

**1f. Is this an after-the-fact permit application?\***

Yes  No

**1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?**

If so, attach the acceptance letter from mitigation bank or in-lieu fee program

Yes  No

**Acceptance Letter Attachment**

Click the upload button or drag and drop files here to attach document

FILETYPE MUST BE PDF

**1h. Is the project located in any of NC's twenty coastal counties? \***

Yes  No

**1j. Is the project located in a designated trout watershed? \***

Yes  No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

## B. Applicant Information

**1a. Who is the Primary Contact? \***

NCDOT

**1b. Primary Contact Email: \***

gcashin@ncdot.gov

**1c. Primary Contact Phone: \***

(xxx)xxx-xxxx  
(919)707-6107

**1d. Who is applying for the permit? \***

Owner  
(Check all that apply)

Applicant (other than owner)

**1e. Is there an Agent/Consultant for this project? \***

Yes  No

## 2. Owner Information

**2a. Name(s) on recorded deed: \***

NCDOT

**2b. Deed book and page no.:**

**2c. Responsible party:**

(for Corporations)

**2d. Address \***

Street Address

1000 Birch Ridge Drive

Address Line 2

City

Raleigh

Postal / Zip Code

27610

State / Province / Region

NC

Country

USA

**2e. Telephone Number: \***

(xxx)xxx-xxxx

(919)707-6107

**2f. Fax Number:**

(xxx)xxx-xxxx

**2g. Email Address: \***

gcashin@ncdot.gov

## C. Project Information and Prior Project History

### 1. Project Information

**1a. Name of project: \***

Bridge No. 36 on NC 11 over Maxwell Creek (B-5639 Central)

**1b. Subdivision name:**

(if appropriate)

**1c. Nearest municipality / town: \***

Magnolia

### 2. Project Identification

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**2a. Property Identification Number:**

(tax PIN or parcel ID)

**2b. Property size:**

(in acres)

**2c. Project Address**

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

**2d. Site coordinates in decimal degrees**

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

**Latitude: \***

34.867926  
ex: 34.208504

**Longitude: \***

-77.966771  
-77.796371

**3. Surface Waters****3a. Name of the nearest body of water to proposed project: \***

Maxwell Creek

**3b. Water Resources Classification of nearest receiving water: \***

C; Sw

[Surface Water Lookup](#)

**3c. What river basin(s) is your project located in? \***

Cape Fear

**3d. Please provide the 12-digit HUC in which the project is located. \***

030300070304

[River Basin Lookup](#)

**4. Project Description and History****4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: \***

Land use in the project vicinity consists primarily of agricultural fields, with forestland along stream corridors.

**4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past? \***

Yes  No  Unknown

**4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)**

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

**4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)**

[Click the upload button or drag and drop files here to attach document](#)

File type must be pdf

**4f. List the total estimated acreage of all existing wetlands on the property:**

5.9

**4g. List the total estimated linear feet of all existing streams on the property:**

(intermittent and perennial)

305

**4h. Explain the purpose of the proposed project: \***

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 36 on NC 11 over Maxwell Creek in Duplin County which is considered structurally deficient.

**4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: \***

The existing 2-span bridge was built in 1962. It is a 108-foot long, 2-lane structure that was constructed of a reinforced concrete deck on I-beams. The proposed replacement structure will be a 3-span bridge approximately 170 feet long providing a minimum 33 foot 10-inch clear roadway width. The new bridge will include two 12-foot lanes with minimum 4-foot 11-inch paved shoulders.

The proposed approach roadway will extend approximately 780 feet from the southwest end of the new bridge and approximately 785 feet from the northwest end of the new bridge. The approaches will include two 12-foot travel lanes and 2-foot paved shoulders. Eight-foot grassed shoulders will be included and will widen to 11-feet where guardrail is located. Several utility lines currently located in the road right-of-way will need to be relocated for the bridge replacement.

Standard road building equipment will be used.

**4j. Please upload project drawings for the proposed project.**

[Click the upload button or drag and drop files here to attach document](#)

B5639\_Utility\_Permit Drawings.pdf

2.54MB

B-5639\_Permit Package Wetland\_20200204.pdf

2.91MB

File type must be pdf

## 5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? \*

Yes  No  Unknown

Comments:

5b. If the Corps made a jurisdictional determination, what type of determination was made? \*

Preliminary  Approved  Not Verified  Unknown  N/A

Corps AID Number:

Example: SAW-2017-99999

SAW-2017-00473

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known): Greg Price  
 Agency/Consultant Company: Carolina Ecosystems  
 Other:

5d. List the dates of the Corp jurisdiction determination or State determination if a determination was made by the Corps or DWR.

April 24, 2017

5d1. Jurisdictional determination upload

Click the upload button or drag and drop files here to attach document

final signed PJD tear sheet B 5639 Maxwell Creek NC11.pdf

26.48KB

File type must be PDF

## 6. Future Project Plans

6a. Is this a phased project? \*

Yes  No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

## D. Proposed Impacts Inventory

### 1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

Wetlands  Streams-tributaries  Buffers  
 Open Waters  Pond Construction

### 2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site #* (?)	2a1 Reason* (?)	2b. Impact type* (?)	2c. Type of W.*	2d. W. name*	2e. Forested*	2f. Type of Jurisdiction* (?)	2g. Impact area* (acres)
Site 1	Roadway	P	Bottomland Hardwood Forest	WC	Yes	Both	0.027 (acres)
Site 1	Roadway	T	Bottomland Hardwood Forest	WC	Yes	Both	0.078 (acres)
Site 2	Roadway	P	Bottomland Hardwood Forest	WD	Yes	Both	0.075 (acres)
Site 3	Bridges	P	Bottomland Hardwood Forest	WB	Yes	Both	0.014 (acres)
Site 4	Roadway	P	Bottomland Hardwood Forest	WB	Yes	Both	0.072 (acres)
Site 5	Roadway	P	Bottomland Hardwood Forest	WA	Yes	Both	0.096 (acres)
Site 5	Roadway	T	Bottomland Hardwood Forest	WA	Yes	Both	0.194 (acres)
U-Site 1	Utilities	T	Bottomland Hardwood Forest	WB	Yes	Both	0.022 (acres)

2g. Total Temporary Wetland Impact

0.294

2g. Total Permanent Wetland Impact

0.284

2g. Total Wetland Impact

0.578

2h. Comments:

### 3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

"S." will be used in the table below to represent the word "stream".

	3a. Reason for impact* (?)	3b. Impact type*	3c. Type of impact*	3d. S. name*	3e. Stream Type* (?)	3f. Type of Jurisdiction*	3g. S. width* <i>Average (feet)</i>	3h. Impact length* <i>(linear feet)</i>
S1	Bridges	Temporary	Fill	Maxwell Creek	Perennial	Both	90	126

\*\* All Perennial or Intermittent streams must be verified by DWR or delegated local government.

3i. Total jurisdictional ditch impact in square feet:

0

3i. Total permanent stream impacts:

0

3i. Total temporary stream impacts:

126

3i. Total stream and ditch impacts:

126

3j. Comments:

## E. Impact Justification and Mitigation

### 1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project:\*

2:1 slopes were used through wetlands to minimize impacts. The bridge will be replaced in the same alignment as the existing bridge.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques:\*

Best Management Practices for Construction and Maintenance Activities will be adhered to. Temporary impacts will be regraded to pre-construction elevations and planted with riparian vegetation.

### 2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes  No

2c. If yes, mitigation is required by (check all that apply):

DWR  Corps

2d. If yes, which mitigation option(s) will be used for this project?

Mitigation bank  Payment to in-lieu fee program  Permittee Responsible Mitigation

### 4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.

Yes  No

4b. Stream mitigation requested:

*(linear feet)*

4c. If using stream mitigation, what is the stream temperature:

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's RIBITS website.

4e. Riparian wetland mitigation requested:

*(acres)*

4d. Buffer mitigation requested (DWR only):

*(square feet)*

.28

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

#### 4h. Comments

An acceptance letter from NCDMS will be provided as soon as it is available.

## F. Stormwater Management and Diffuse Flow Plan (required by DWR)

\*\*\* Recent changes to the stormwater rules have required updates to this section. \*\*\*

### 1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes  No

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

This portion of the Cape Fear River Basin does not have riparian buffer rules.

### 2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? \*

Yes  No

Comments:

## G. Supplementary Information

### 1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? \*

Yes  No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? \*

Yes  No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) \*

Yes  No

Comments:\*

The CE prepared for this project did not require review from the State Clearing House.

### 2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? \*

Yes  No

### 3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? \*

Yes  No

3b. If you answered "no," provide a short narrative description.

Due to minimal transportation impact resulting from the bridge replacement the project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.

### 4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? \*

Yes  No  N/A

### 5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? \*

Yes  No

5b. Have you checked with the USFWS concerning Endangered Species Act impacts? \*

Yes  No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? \*

Yes  No  Unknown

5e. Is this a DOT project located within Division's 1-8? \*

Yes  No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? \*

USFWS county lists, USFWS website. A survey for wood stork will be conducted after the survey window opens and prior to construction.

**Consultation Documentation Upload**

Click the upload button or drag and drop files here to attach document

20200311\_ltr\_USFWS\_NCDOT\_B-5639.pdf

41.37KB

File type must be PDF

## 6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat? \*

Yes  No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? \*

NMFS Essential Fish Habitat mapping

## 7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpweb/>)

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? \*

Yes  No

7b. What data sources did you use to determine whether your site would impact historic or archeological resources? \*

Coordination with SHPO during NEPA process.

**7c. Historic or Prehistoric Information Upload**

Click the upload button or drag and drop files here to attach document

File must be PDF

## 8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

8a. Will this project occur in a FEMA-designated 100-year floodplain? \*

Yes  No

8b. If yes, explain how project meets FEMA requirements:

NCDOT Hydraulics Unit coordination with FEMA.

8c. What source(s) did you use to make the floodplain determination? \*

FEMA mapping

## Miscellaneous

**Comments**

Miscellaneous attachments not previously requested.

Click the upload button or drag and drop files here to attach document

File must be PDF or KMZ

## Signature

\*

By checking the box and signing below, I certify that:

- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name: \*

Mack Christopher Rivenbark, III

**Signature**

*Mack C. Riverbank, III*

**Date**

4/7/2020

**U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT**

Action Id. SAW-2017-00473 County: Duplin U.S.G.S. Quad: CHARITY

**NOTIFICATION OF JURISDICTIONAL DETERMINATION**

<b>Property Owner/Applicant:</b> <u>NCDOT</u> <u>attn.: Tyler Stanton</u>	<b>Agent:</b> <u>Carolina Ecosystems</u> <u>attn.: Greg Price</u>
<b>Address:</b> <u>1598 Mail Service Center</u> <u>Raleigh, NC 27699</u>	<u>3040 NC Hwy 42 W</u> <u>Clayton, NC 27520</u>

Size (acres) <u>5.9</u>	Nearest Town <u>Magnolia</u>
Nearest Waterway <u>Maxwell Creek</u>	River Basin <u>Cape Fear</u>
USGS HUC <u>03030007</u>	Coordinates Latitude: <u>34.8680</u> Longitude: <u>-77.9667</u>

**Location description:** The project (B-5639) is located along NC 11 at Bridge 36 where it crosses Maxwell Creek, Duplin County.

**Indicate Which of the Following Apply:**

**A. Preliminary Determination**

- There are waters, including wetlands, on the above described project area, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The waters, including wetlands, have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction. **See attached map of record.**
- There are wetlands on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). However, since the waters, including wetlands, have not been properly delineated, this preliminary jurisdiction determination may not be used in the permit evaluation process. Without a verified wetland delineation, this preliminary determination is merely an effective presumption of CWA/RHA jurisdiction over all of the waters, including wetlands, at the project area, which is not sufficiently accurate and reliable to support an enforceable permit decision. We recommend that you have the waters of the U.S. on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

**B. Approved Determination**

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S., including wetlands, on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
  - We recommend you have the waters of the U.S. on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.
  - The waters of the U.S., including wetlands, on your project area have been delineated and the delineation has been verified by the Corps. If you wish to have the delineation surveyed, the Corps can review and verify the survey upon

**SAW-2017-00463**

completion. Once verified, this survey will provide an accurate depiction of all areas subject to CWA and/or RHA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

— The waters of the U.S., including wetlands, have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on \_\_\_\_\_. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 to determine their requirements.

Placement of dredged or fill material within waters of the US, including wetlands, without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). Placement of dredged or fill material, construction or placement of structures, or work within navigable waters of the United States without a Department of the Army permit may constitute a violation of Sections 9 and/or 10 of the Rivers and Harbors Act (33 USC § 401 and/or 403). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Brad Shaver at (910) 251-4611 or Brad.E.Shaver@usace.army.mil.**

**C. Basis For Determination:** *The subject area possess both an ordinary high water mark and exhibits wetland characteristic as described in the 1987 Corps Delineation Manual (and appropriate regional supplement).*

**D. Remarks:** The site was field verified on 1/17/2017.

Corps Regulatory Official: SHAVER.BRAD.E.1276601756

Digitally signed by SHAVER.BRAD.E.1276601756  
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,  
ou=USA, cn=SHAVER.BRAD.E.1276601756  
Date: 2017.04.24 09:33:45 -04'00'

Date: **April 24, 2017** Expiration Date: **None**

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 our Customer Satisfaction Survey, located online at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=136:4:0](http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0).

Copy Furnished(electronic):

NCDOT-Division 3 attn: Mr. Mason Herndon  
NCDEQ-DWR attn.: Ms. Joanne Steenhuis



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Raleigh ES Field Office  
Post Office Box 33726  
Raleigh, North Carolina 27636-3726

March 11, 2020

Philip S. Harris III, P.E.  
NC Department of Transportation  
Environmental Analysis Unit  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

This letter is in response to your letter of March 9, 2020 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation (NCDOT) that the replacement of Bridge No. 36 on NC 11 over Maxwell Creek in Duplin County (STIP No. B-5639) may affect, but is not likely to adversely affect the federally threatened wood stork (*Mycteria americana*). The following response is provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

Currently, there are no records of wood storks occurring in the vicinity of this project. However, no survey for wood storks or nests has been conducted. NCDOT has committed to conducting a wood stork survey at the project site after the survey window opens on April 15, 2020. Given the low probability of the species occurring at the location, the limited scope of the action, and the commitment to conduct the survey, the Service concurs with your conclusion that the proposed action may affect, but is not likely to adversely affect the wood stork. However, the results of the wood stork survey must be submitted to the Service prior to work commencing at the site.

We remind you that obligations under Section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action. The Service appreciates the opportunity to review this project. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

Sincerely,

  
for Pete Benjamin  
Field Supervisor

Electronic copy:

Brad Shaver, USACE, Wilmington, NC  
Travis Wilson, NCWRC, Creedmoor, NC  
Chris Rivenbark, NCDOT, Raleigh, NC



**North Carolina Department of Transportation**  
**Highway Stormwater Program**  
**STORMWATER MANAGEMENT PLAN**  
 FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

**WBS Element:** 45594.1.1      **TIP No.:** B-5639      **County(ies):** Duplin      **Page** 1 **of** 1

**General Project Information**

<b>WBS Element:</b>	45594.1.1	<b>TIP Number:</b>	B-5639	<b>Project Type:</b>	Bridge Replacement	<b>Date:</b>	9/17/2019
<b>NCDOT Contact:</b>	Jacquelyn Bowles, PE		<b>Contractor / Designer:</b>	Sungate Design Group, P.A. / Josh Dalton, PE			
<b>Address:</b>	1000 Birch Ridge Dr. Raleigh, NC 27610		<b>Address:</b>	905 Jones Franklin Rd. Raleigh, NC 27606			
	<b>Phone:</b>	919-707-6559		<b>Phone:</b>	919-710-8333		
	<b>Email:</b>	<a href="mailto:jkbowles@ncdot.gov">jkbowles@ncdot.gov</a>		<b>Email:</b>	<a href="mailto:jdalton@sungatedesign.com">jdalton@sungatedesign.com</a>		
<b>City/Town:</b>			<b>County(ies):</b>	Duplin			
<b>River Basin(s):</b>	Cape Fear		<b>CAMA County?</b>	No			
<b>Wetlands within Project Limits?</b>	Yes						

**Project Description**

<b>Project Length (lin. miles or feet):</b>	0.33	<b>Surrounding Land Use:</b>	Rural
<b>Project Built-Up Area (ac.)</b>	<b>Proposed Project</b>		<b>Existing Site</b>
	0.7 ac.		0.5 ac.
<b>Typical Cross Section Description:</b>	Paved 12' lanes with 8' shoulder section (11' shoulder with GR, 2' paved)		Paved 11' lanes with variable grass shoulder section
<b>Annual Avg Daily Traffic (veh/hr/day):</b>	<b>Design/Future:</b> 3200	<b>Year:</b> 2040	<b>Existing:</b> 2617 <b>Year:</b> 2020
<b>General Project Narrative: (Description of Minimization of Water Quality Impacts)</b>	NCDOT Highway Division 3 proposes to replace Bridge #036 on NC 11 over Maxwell Creek. The existing structure is 2@52' steel I-beams on concrete vertical abutments with asphalt on concrete deck. The proposed structure is 1@55', 1@60, and 1@55' 24" cored slab with 4' end bent caps. Existing drainage patterns have been maintained to the extent practical, and rip rap will be used at all drainage outlets to dissipate energy and reduce erosion.		

**Waterbody Information**

<b>Surface Water Body (1):</b>	Maxwell Creek		<b>NCDWR Stream Index No.:</b>	18-74-24-1	
<b>NCDWR Surface Water Classification for Water Body</b>	<b>Primary Classification:</b>	Class C			
	<b>Supplemental Classification:</b>	Swamp Waters (Sw)			
<b>Other Stream Classification:</b>	None				
<b>Impairments:</b>	fecal coliform	mercury (Hg)			
<b>Aquatic T&amp;E Species?</b>	Yes	Comments: Unresolved per NRTR dated October 2016			
<b>NRTR Stream ID:</b>	Maxwell Creek		<b>Buffer Rules in Effect:</b>	N/A	
<b>Project Includes Bridge Spanning Water Body?</b>	Yes	<b>Deck Drains Discharge Over Buffer?</b>	N/A	<b>Dissipator Pads Provided in Buffer?</b>	N/A
<b>Deck Drains Discharge Over Water Body?</b>	No	(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)					

Submitted 4/7/2020

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**DUPLIN COUNTY**

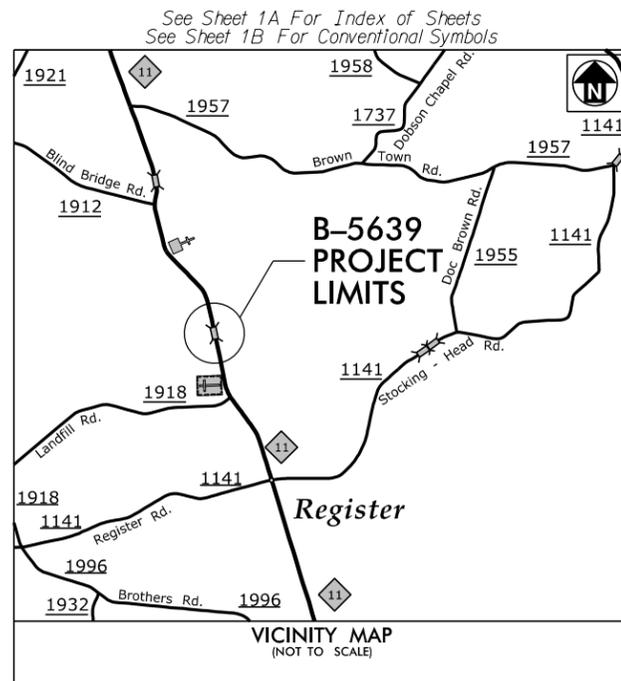
LOCATION: BRIDGE NO. 36 OVER MAXWELL CREEK  
ON NC 11 (CLODFELTER ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

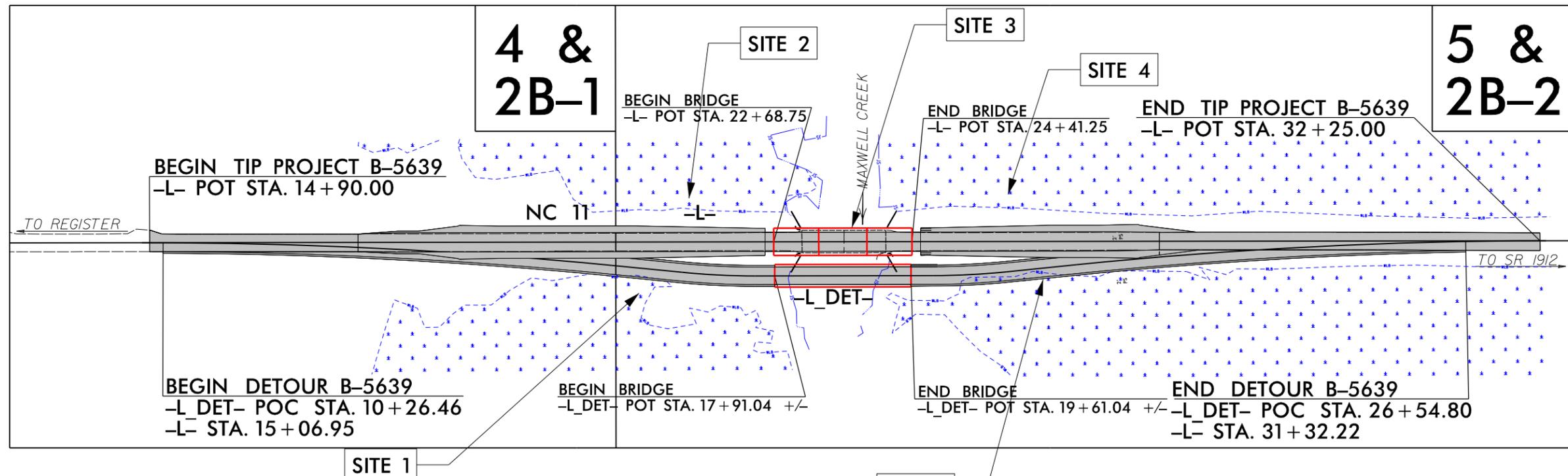
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5639	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45594.1.1		P.E.	
45594.2.1		RW & UTL	

PERMIT DRAWING  
SHEET 1 OF 15

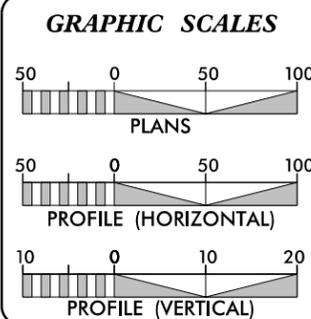
PROJECT: B-5639



WETLAND AND SURFACE WATER IMPACTS PERMIT



CONTRACT:



**DESIGN DATA**

ADT 2020 = 2,617  
ADT 2040 = 3,200

K = 9 %  
D = 55 %  
T = 5 %\*  
V = 60 MPH

\* TTST = 2% DUAL 3%

SUB-REGIONAL TIER  
MAJOR COLLECTOR

**PROJECT LENGTH**

LENGTH ROADWAY TIP B-5639 PROJECT	=	0.296 MILES
LENGTH STRUCTURE TIP B-5639 PROJECT	=	0.033 MILES
TOTAL LENGTH TIP B-5639 PROJECT	=	0.329 MILES

PLANS PREPARED FOR NCDOT BY:

**M M**  
MOTT  
MACDONALD  
2018 STANDARD SPECIFICATIONS

PO Box 700  
Fuquay-Varina, NC 27526  
(919) 552-2253  
(919) 552-2254 (Fax)  
www.mottmac.com/america

**LICENSE NO. F-0669**

**SUNGATE DESIGN GROUP, P.A.**  
905 JONES FRANKLIN ROAD  
RALEIGH, NORTH CAROLINA 27608  
TEL: (919) 855-2243  
ENG FIRM LICENSE NO. C-490

**MICHAEL PEKAREK, PE**  
PROJECT ENGINEER

**JOSH DALTON, PE**  
HYDRAULIC ENGINEER

**DAVID STUTTS, PE**  
NCDOT BRIDGE PROGRAM MANAGER

**RIGHT OF WAY DATE:**  
NOVEMBER 27, 2019

**LETTING DATE:**  
JULY 21, 2020

**HYDRAULICS ENGINEER**

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

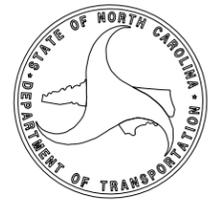
**ROADWAY DESIGN ENGINEER**

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

5640 Dillard Drive  
Suite 200  
Cary, NC 27518  
(919) 852-0468  
(919) 852-0598 (Fax)  
www.simpsonengr.com

**SIMPSON ENGINEERS & ASSOCIATES**

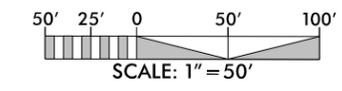
LICENSE NO. C-2521



2/7/2020  
B:5639\_Hyd\_prm\_wet\_psh\_01.dgn  
jnarvey

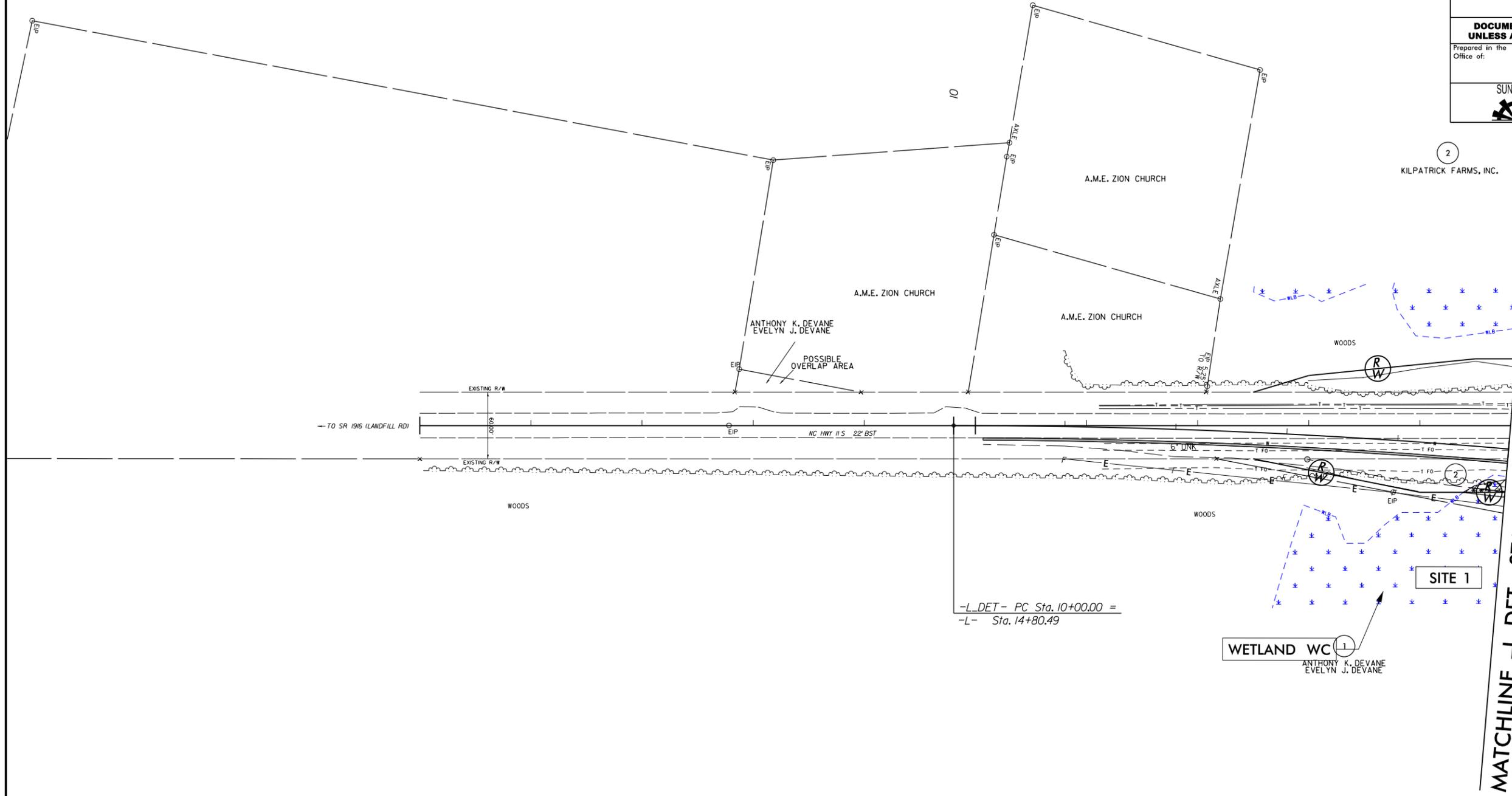
8/17/99

**PERMIT DRAWING  
SHEET 2 OF 15**



NAD 83/2011

PROJECT REFERENCE NO. B-5639		SHEET NO. 2B-1	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:		<b>M</b> MOTT <b>M</b> MAGDONALD Fuquay-Varina, NC 27526 www.motmac.com/motmac	
<b>SUNGATE DESIGN GROUP, P.A.</b> 305 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL: 919.808.2441 ENG. FIRM LICENSE NO. C-890			



→ TO SR 1916 (LANDFILL RD)

EXISTING R/W

EXISTING R/W

NC HWY 11 S 22' BST

-L\_DET- PC Sta. 10+00.00 =  
-L- Sta. 14+80.49

DENOTES TEMPORARY FILL IN WETLAND

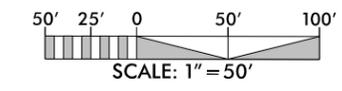
DENOTES MECHANIZED CLEARING

FOR -L\_DET- PROFILE, SEE SHEET 7  
FOR -L- DESIGN, SEE SHEETS 4 & 5

B-5639-1104-prm-wet-02B1.dgn  
4/7/2020  
10:00 AM

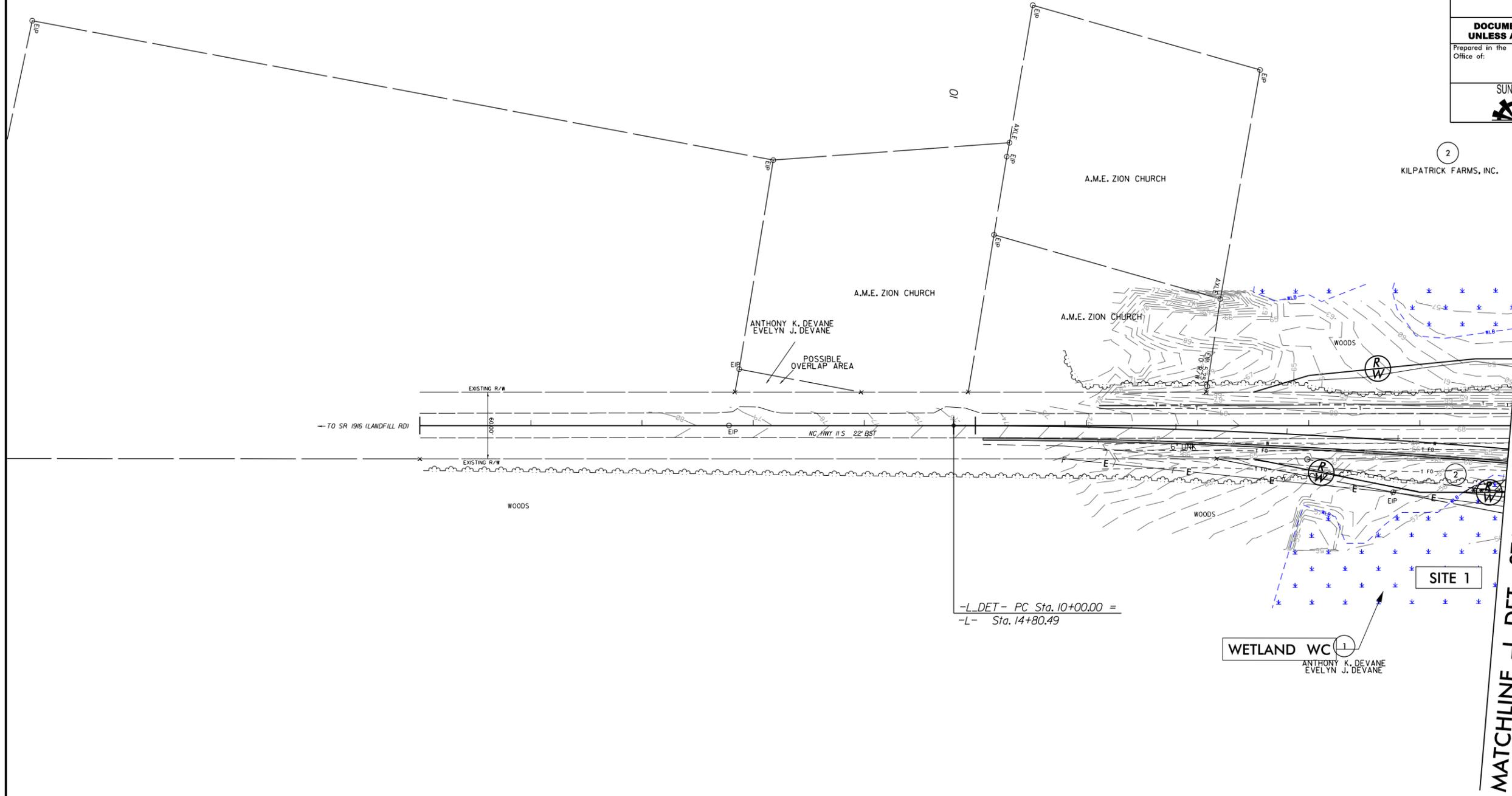
8/17/99

**PERMIT DRAWING  
SHEET 3 OF 15**



NAD 83/2011

PROJECT REFERENCE NO. B-5639		SHEET NO. 2B-1	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:		<b>M</b> MOTT <b>M</b> MAGDONALD PO Box 700 Fuquay-Varina, NC 27526 www.motmac.com/motmac	
<b>SUNGATE DESIGN GROUP, P.A.</b> 305 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL 919 808244 ENG FIRM LICENSE NO. C-890			



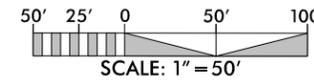
MATCHLINE -L\_DET- STA. 15 + 00.00 SEE SHEET 2B-2

-  DENOTES TEMPORARY FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING

FOR -L\_DET- PROFILE, SEE SHEET 7  
FOR -L- DESIGN, SEE SHEETS 4 & 5

8/17/2020  
B-5639  
H:\d-prm-wet\_02B1.con.dgn  
jdevane

8/17/99

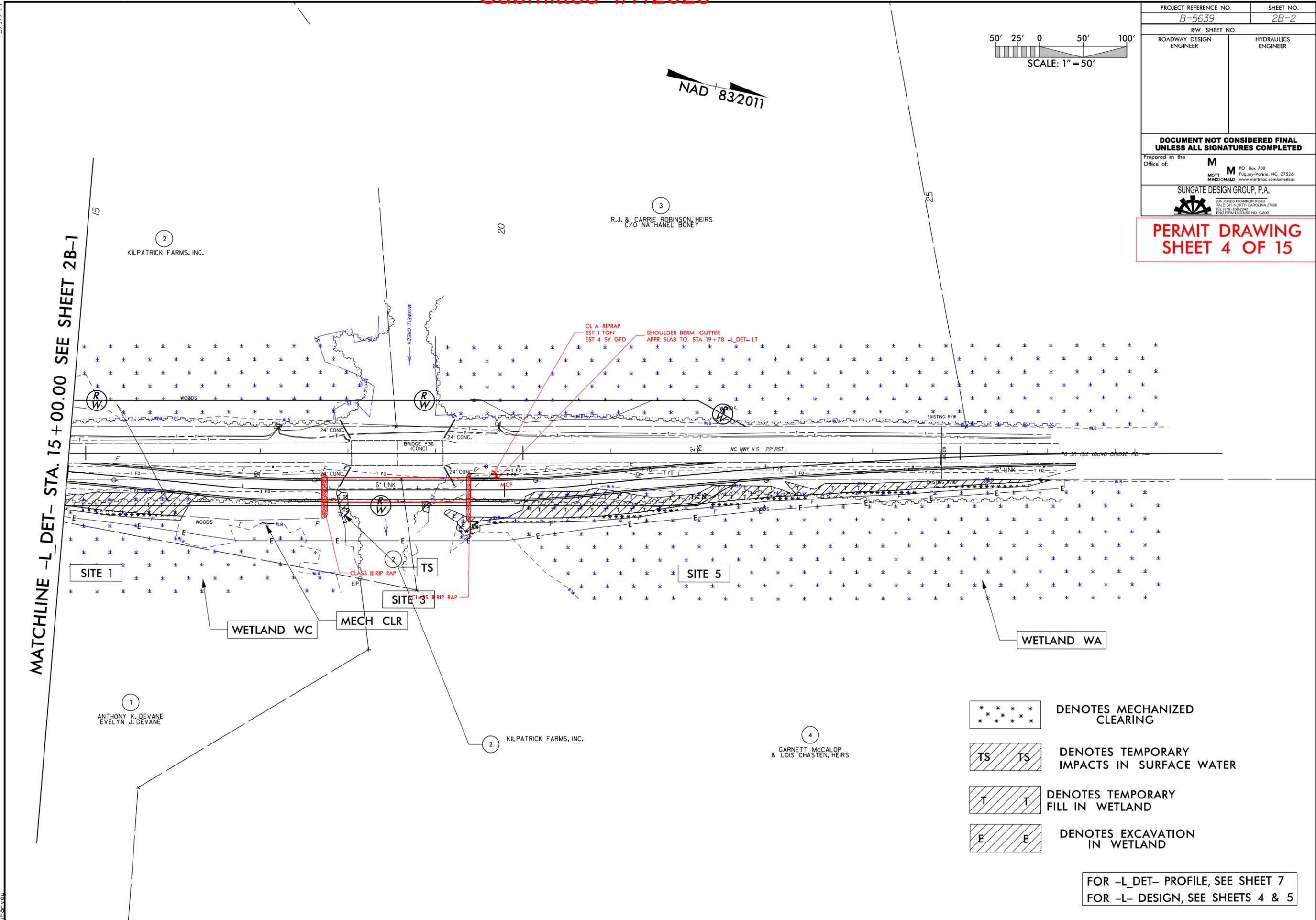


NAD 83/2011

PROJECT REFERENCE NO. B-5639		SHEET NO. 2B-2	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:			
 MOTT MACDONALD		 SUNGATE DESIGN GROUP, P.A.	
300 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL 919 808244 ENG FIRM LICENSE NO. C-890			

PERMIT DRAWING  
SHEET 4 OF 15

MATCHLINE -L\_DET- STA. 15 + 00.00 SEE SHEET 2B-1

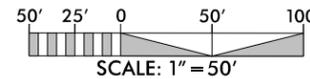


- DENOTES MECHANIZED CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND

FOR -L\_DET- PROFILE, SEE SHEET 7  
FOR -L- DESIGN, SEE SHEETS 4 & 5

B5639.dwg - psh\_02B2.dgn  
4/7/2020  
10:45:00 AM  
J.D.

8/17/99

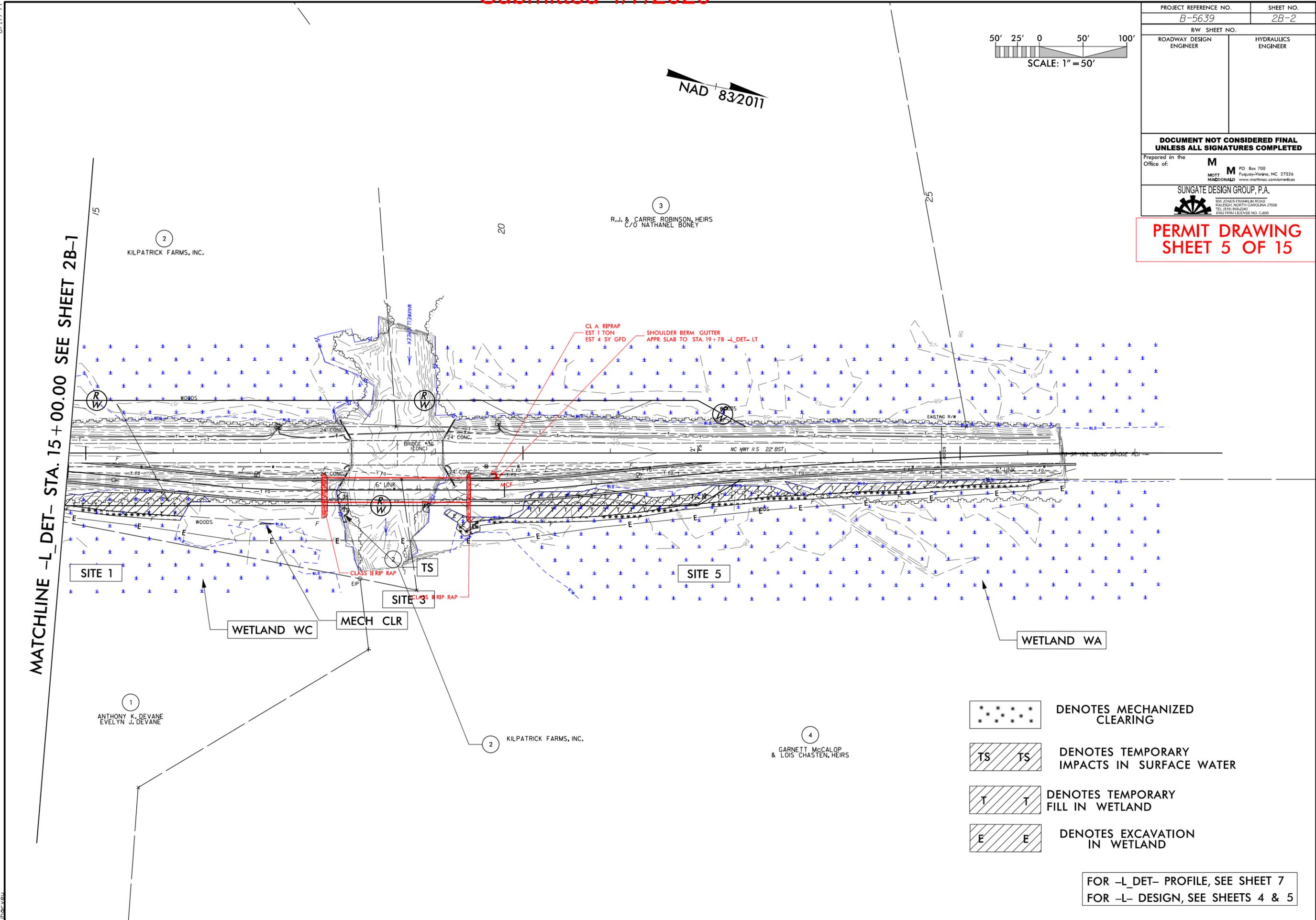


NAD 83/2011

PROJECT REFERENCE NO. B-5639		SHEET NO. 2B-2	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:			
 MOTT MACDONALD		 SUNGATE DESIGN GROUP, P.A.	
300 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL 919 808244 ENG FIRM LICENSE NO. C-890			

PERMIT DRAWING  
SHEET 5 OF 15

MATCHLINE -L\_DET- STA. 15 + 00.00 SEE SHEET 2B-1

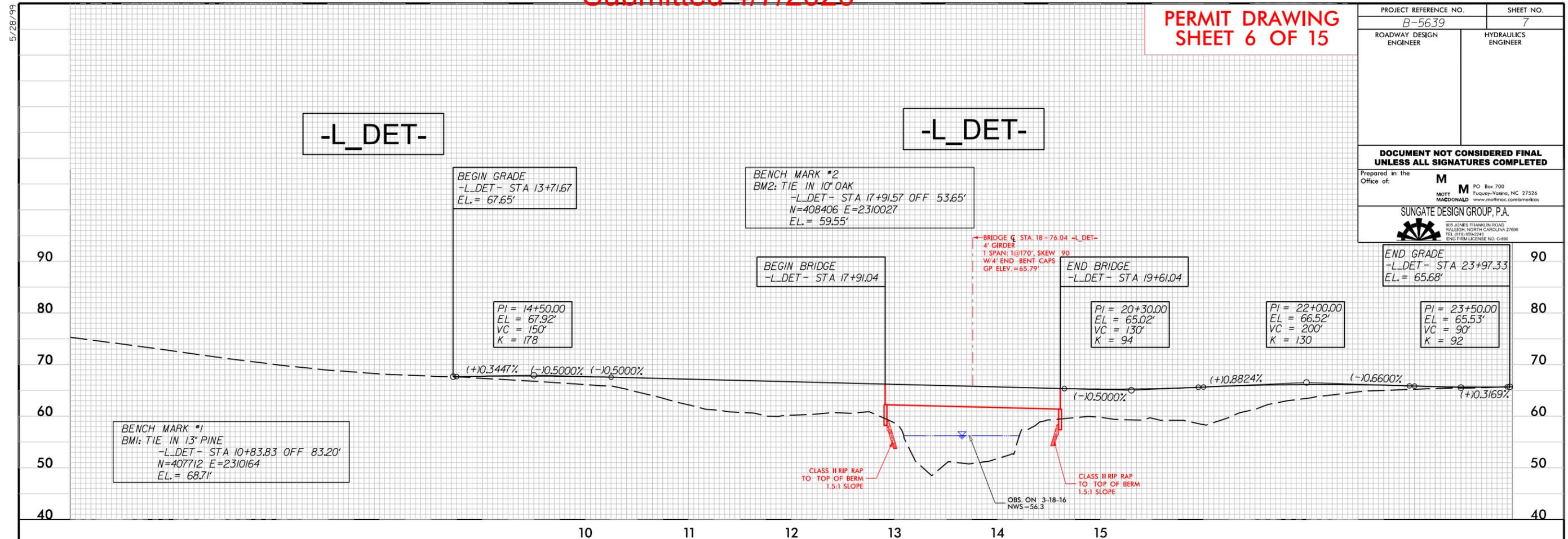


- DENOTES MECHANIZED CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND

FOR -L\_DET- PROFILE, SEE SHEET 7  
FOR -L- DESIGN, SEE SHEETS 4 & 5

8/17/2020  
B5639\_Hyd\_prm\_wet\_psh\_02B2\_Con.dgn  
10:00 AM

PROJECT REFERENCE NO. B-5639	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: <b>M</b> MOTT MACDONALD	
 SUNGATE DESIGN GROUP, P.A. 905 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27605 TEL (919) 892-2243 ENG. PERM. LICENSE NO. C-490	

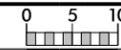


**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 1500	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 58.8	FT
BASE DISCHARGE	= 4560	CFS
BASE FREQUENCY	= 100 (FEMA)	YRS
BASE HW ELEVATION	= 61.5	FT
OVERTOPPING DISCHARGE	= 16800	CFS
OVERTOPPING FREQUENCY	= >500	YRS
OVERTOPPING ELEVATION	= 65.3	FT
DATE OF SURVEY	= 3/18/2016	
W.S. ELEVATION AT DATE OF SURVEY	= 56.3	FT

FOR -L\_DET- PLAN VIEW SEE SHEETS 2B-1 & 2B-2

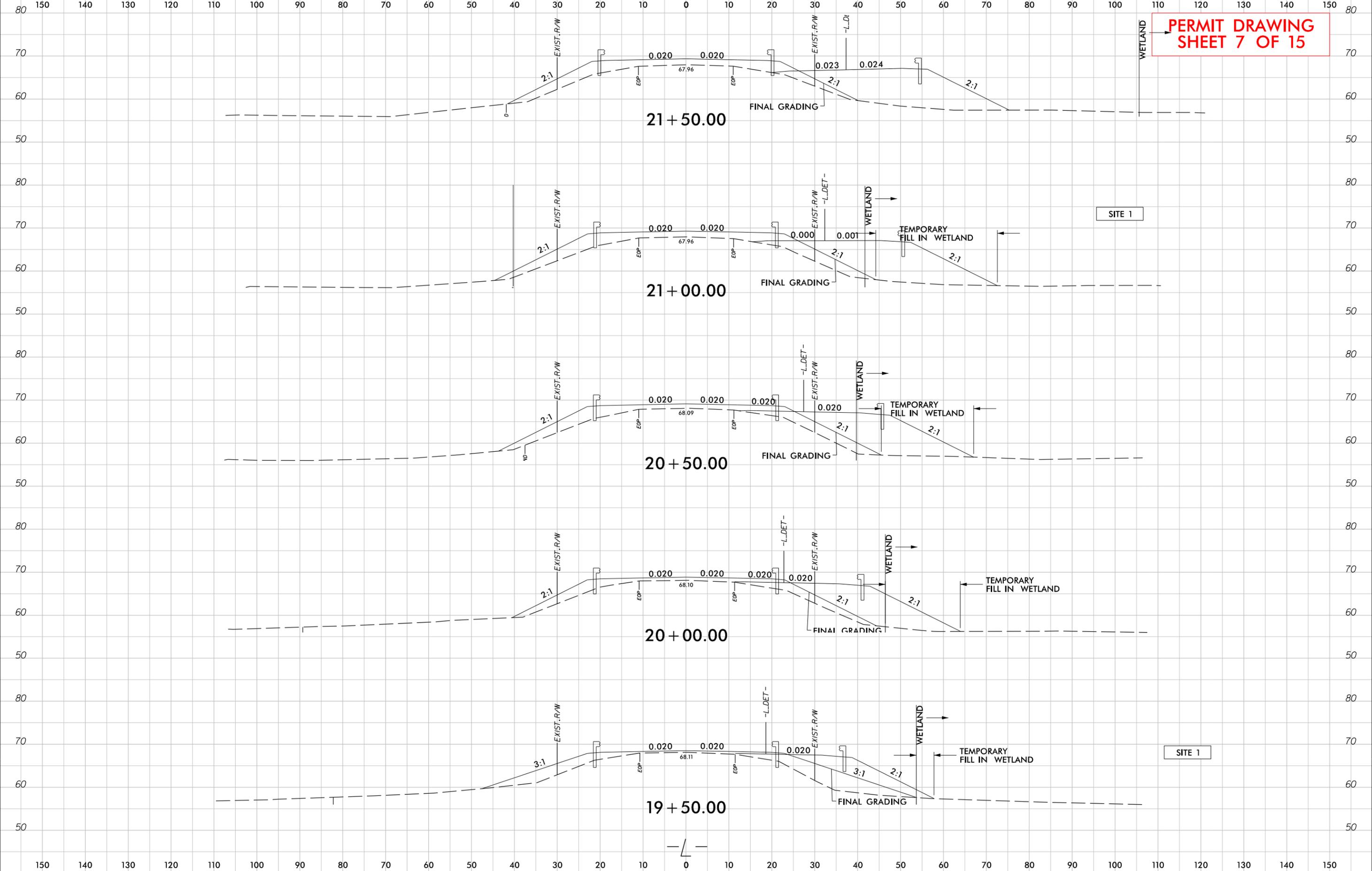
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2/3/2020  
B5639\_Hyd-prn-wet-psh\_07\_pfl.dgn

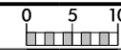


6/23/16

2/3/2020 B5639\_Hyd-prm-wet.xpl\_Det-03.dgn

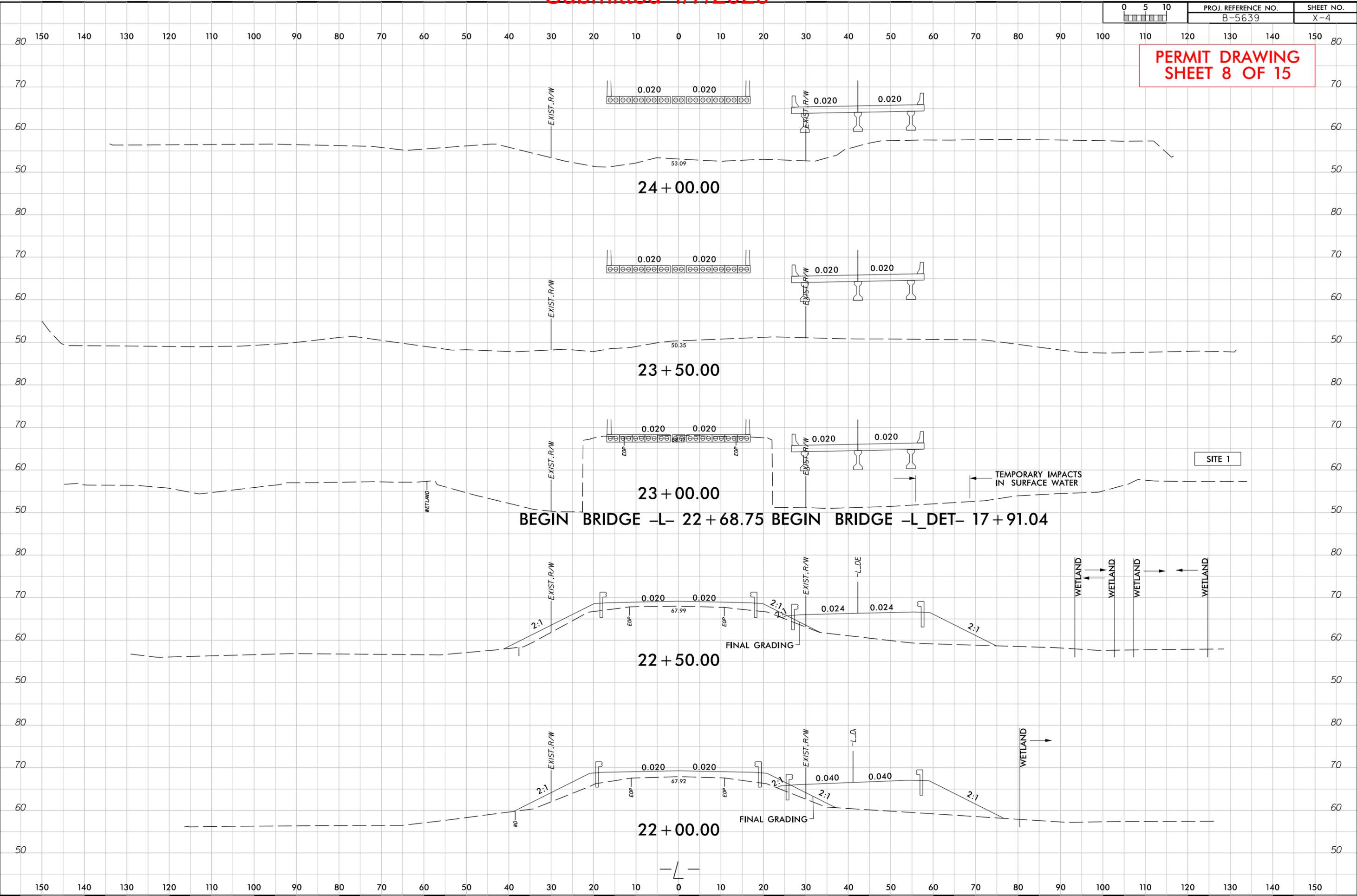
PERMIT DRAWING SHEET 7 OF 15

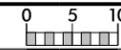




PERMIT DRAWING SHEET 8 OF 15

6/23/16  
2/3/2020  
B5639\_Hyd-prm-wet.xpl\_Det-04.dgn  
jbarney

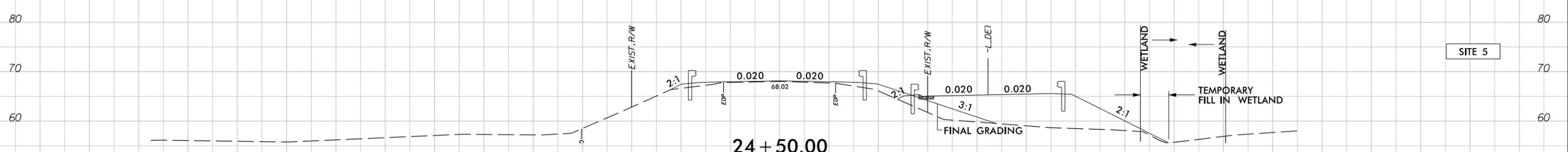
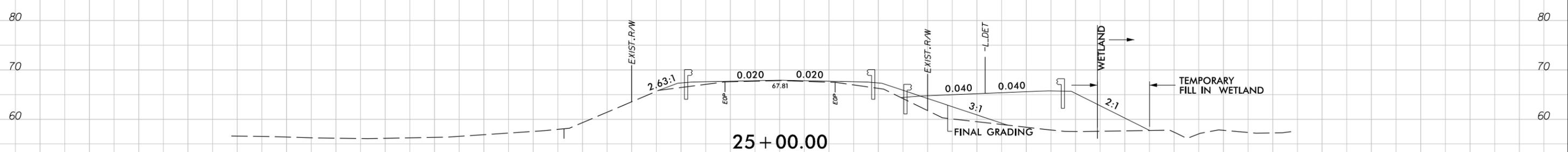
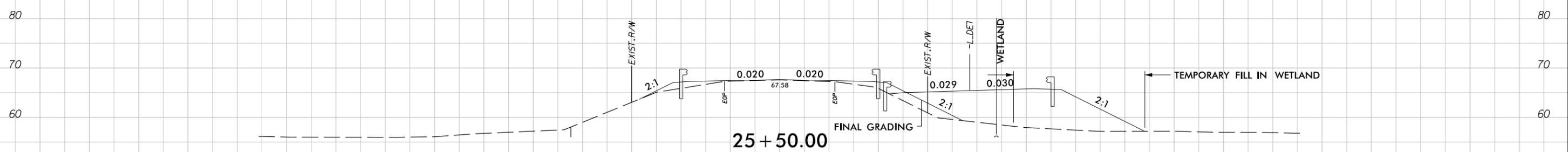
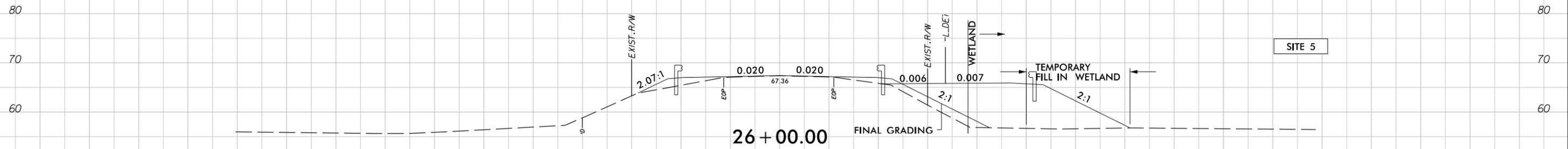




PERMIT DRAWING  
SHEET 9 OF 15

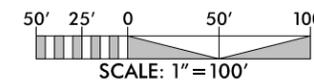
6/23/16

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



END BRIDGE -L- 24 + 41.25 END BRIDGE -L\_DET- 19 + 61.04

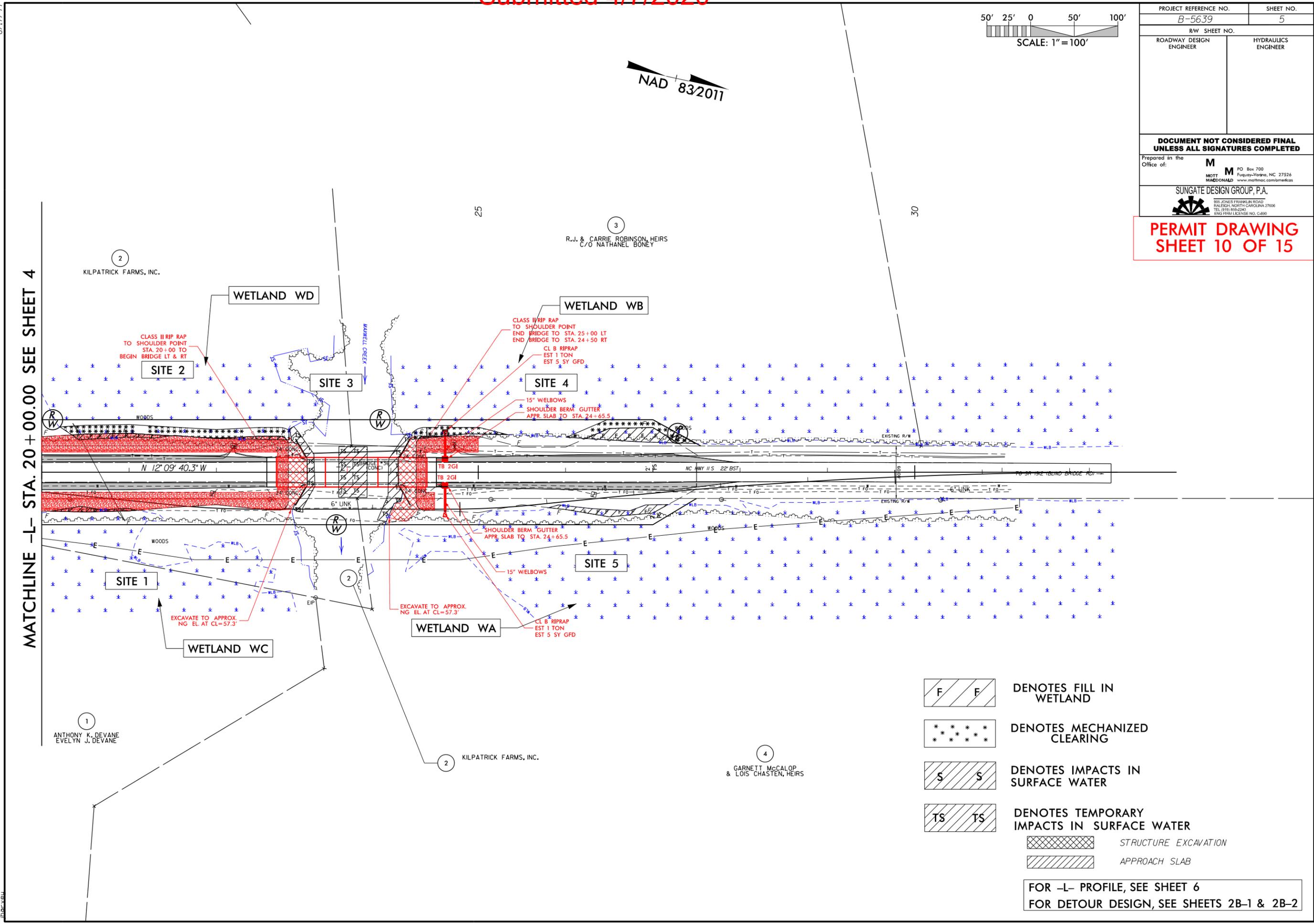
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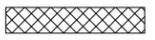
NAD 832011

PROJECT REFERENCE NO. B-5639		SHEET NO. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:		<b>M</b> MOTT <b>M</b> MAGDONALD PO Box 700 Fuquay-Varina, NC 27526 TEL: 919.808.2441 WWW.MOTTMAC.COM/AMER/US	
SUNGATE DESIGN GROUP, P.A. 905 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27608 TEL: 919.808.2441 ENG. FIRM LICENSE NO. C-890			

PERMIT DRAWING  
SHEET 10 OF 15

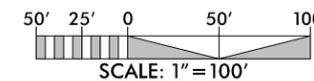


MATCHLINE -L- STA. 20 + 00.00 SEE SHEET 4

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  STRUCTURE EXCAVATION
-  APPROACH SLAB

FOR -L- PROFILE, SEE SHEET 6  
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2

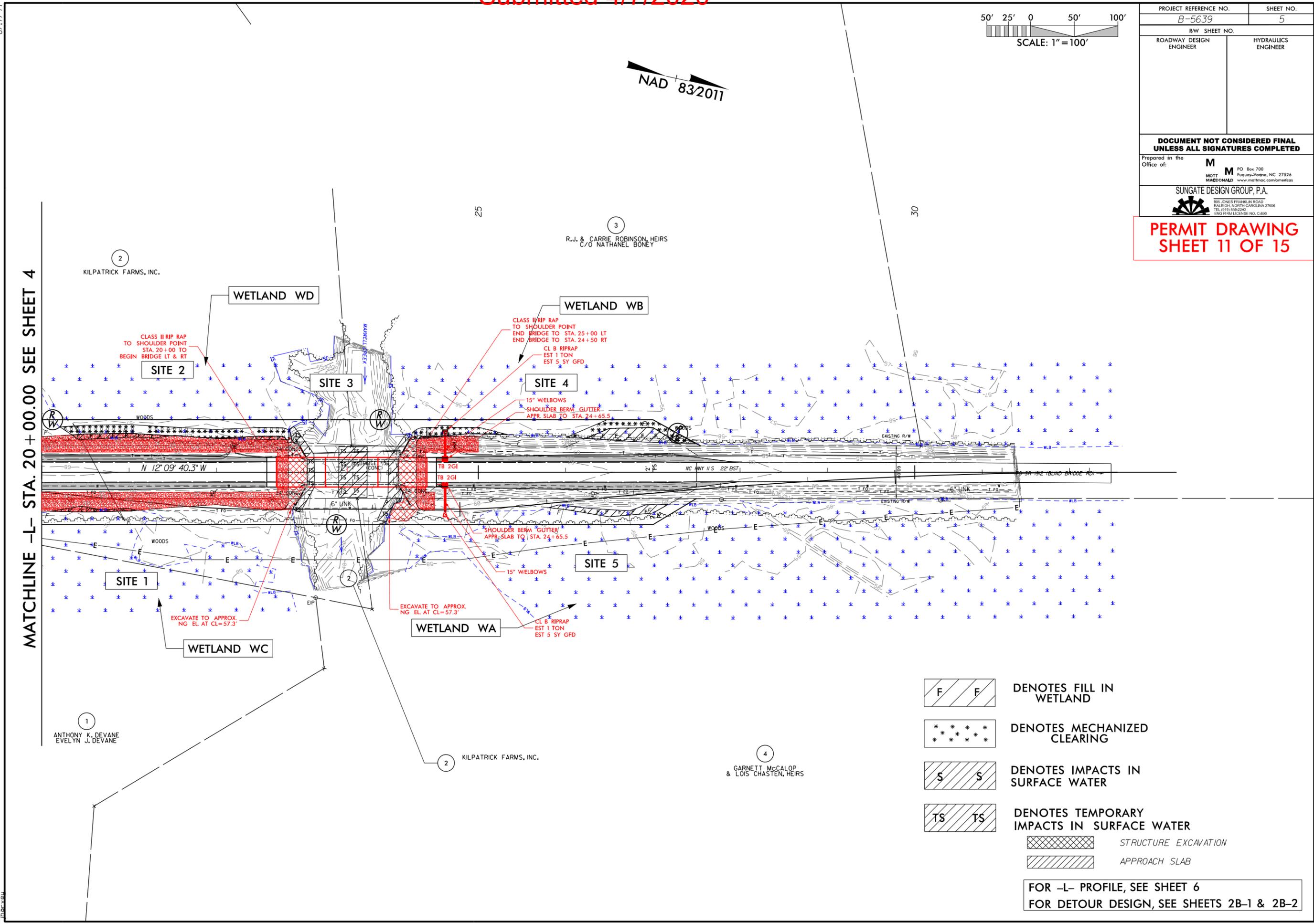
8/17/99  
B63/2020  
B653/Fig-prm-wet.psh\_05.dgn  
devane

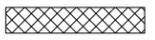


NAD 832011

PROJECT REFERENCE NO. B-5639		SHEET NO. 5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:		<b>M</b> MOTT <b>M</b> MAGDONALD PO Box 700 Fuquay-Varina, NC 27526 TEL 919 808244 ENG FIRM LICENSE NO. C-890	
<b>SUNGATE DESIGN GROUP, P.A.</b> 905 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL 919 808244 ENG FIRM LICENSE NO. C-890			

**PERMIT DRAWING  
SHEET 11 OF 15**



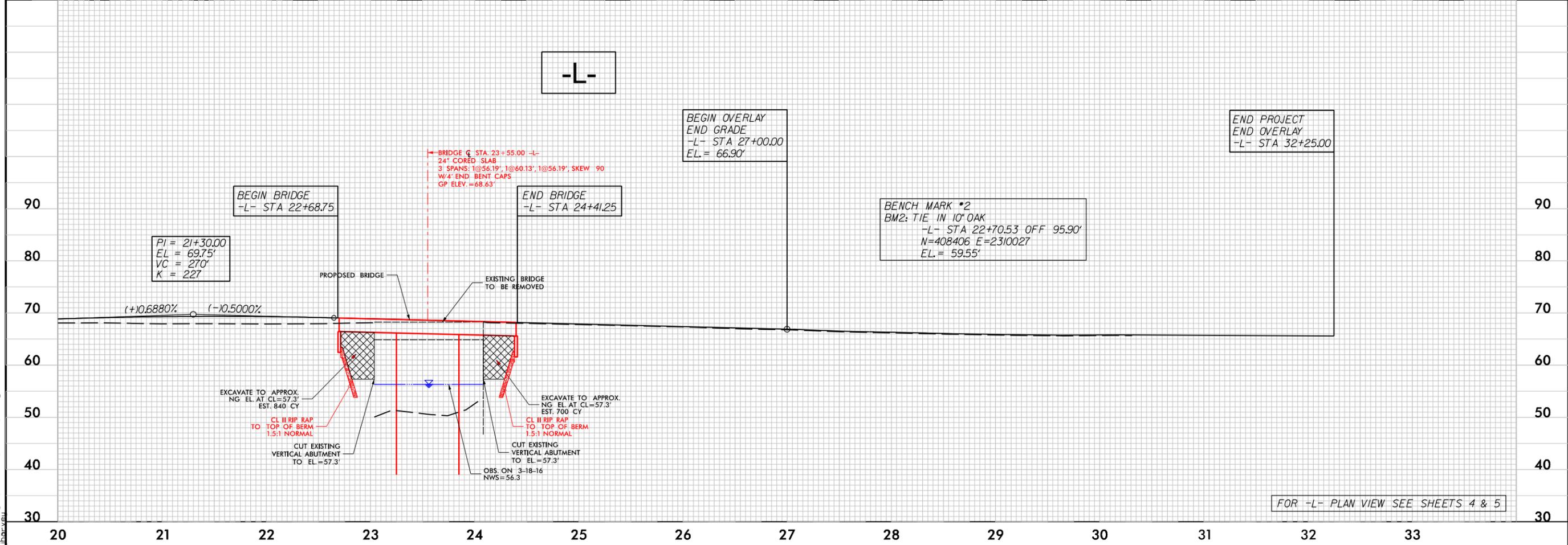
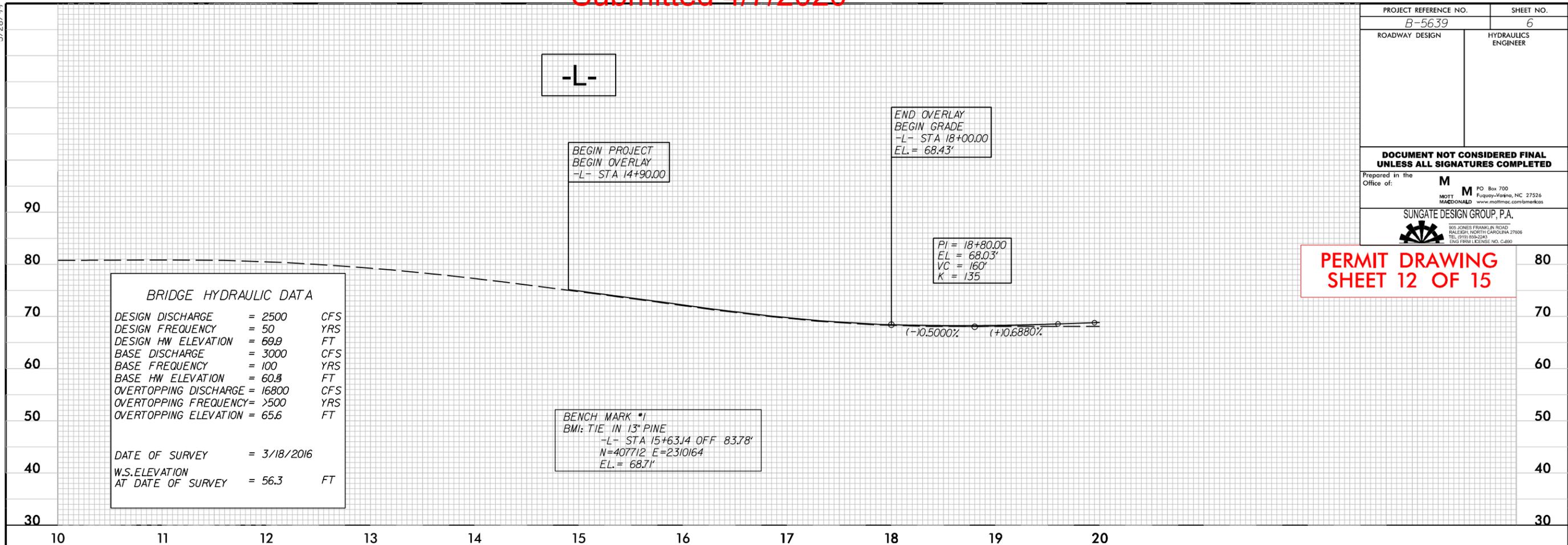
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  STRUCTURE EXCAVATION
-  APPROACH SLAB

FOR -L- PROFILE, SEE SHEET 6  
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2

8/17/99  
B-5639-Fig-prm-wet.psh\_05A\_con.dgn

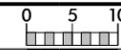
PROJECT REFERENCE NO. B-5639	SHEET NO. 6
ROADWAY DESIGN	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: <b>M</b> MOTT MACDONALD	
SUNGATE DESIGN GROUP, P.A.	

**PERMIT DRAWING  
SHEET 12 OF 15**



FOR -L- PLAN VIEW SEE SHEETS 4 & 5

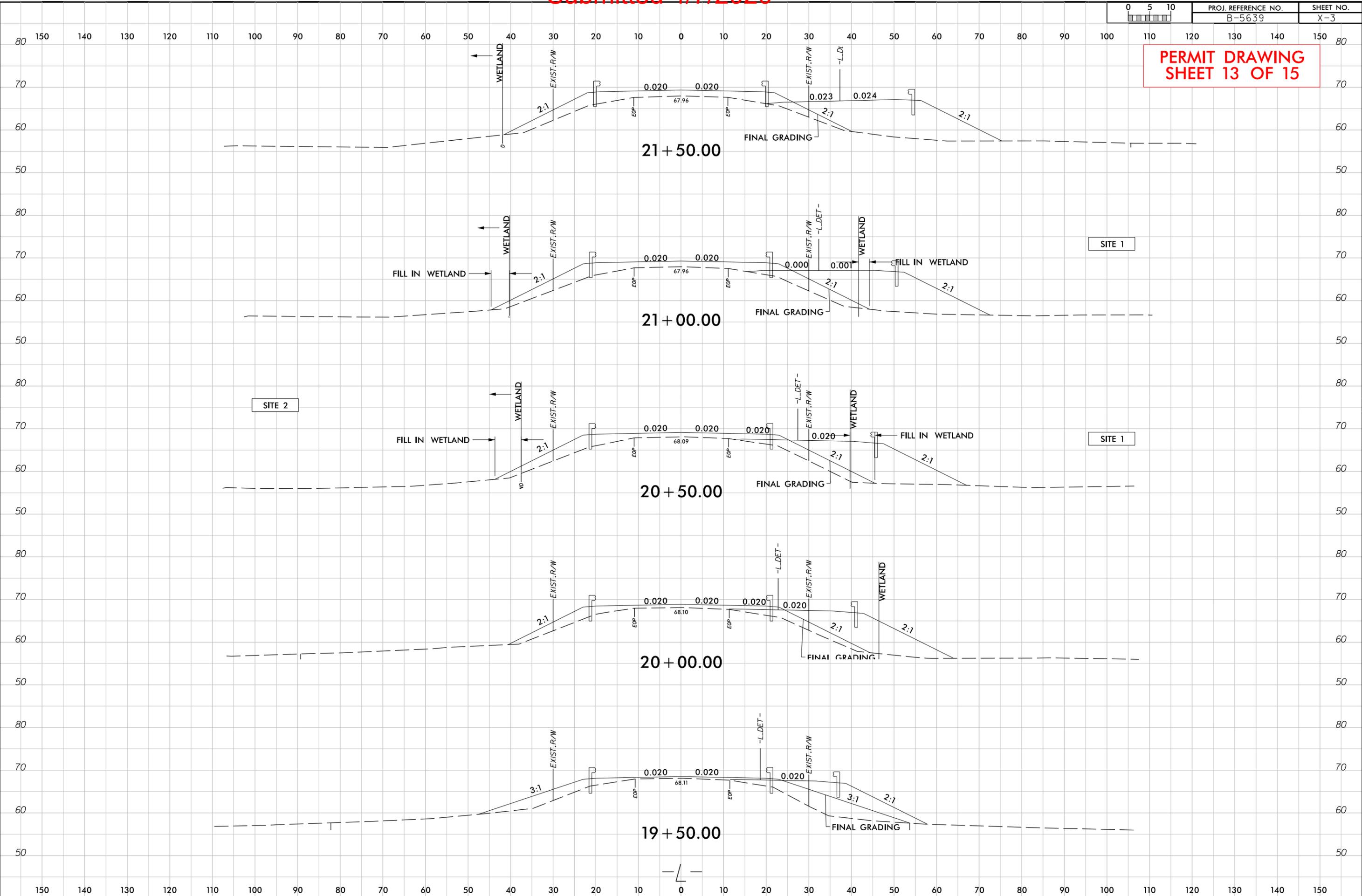
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2/6/2020 B-5639 Fig-prm-wet.psh.06.plt.dgn

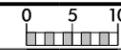


PERMIT DRAWING  
SHEET 13 OF 15

6/23/16

2/3/2020  
B5639\_Hyd-prm-wet.xpl.L.03.dgn  
jbarney

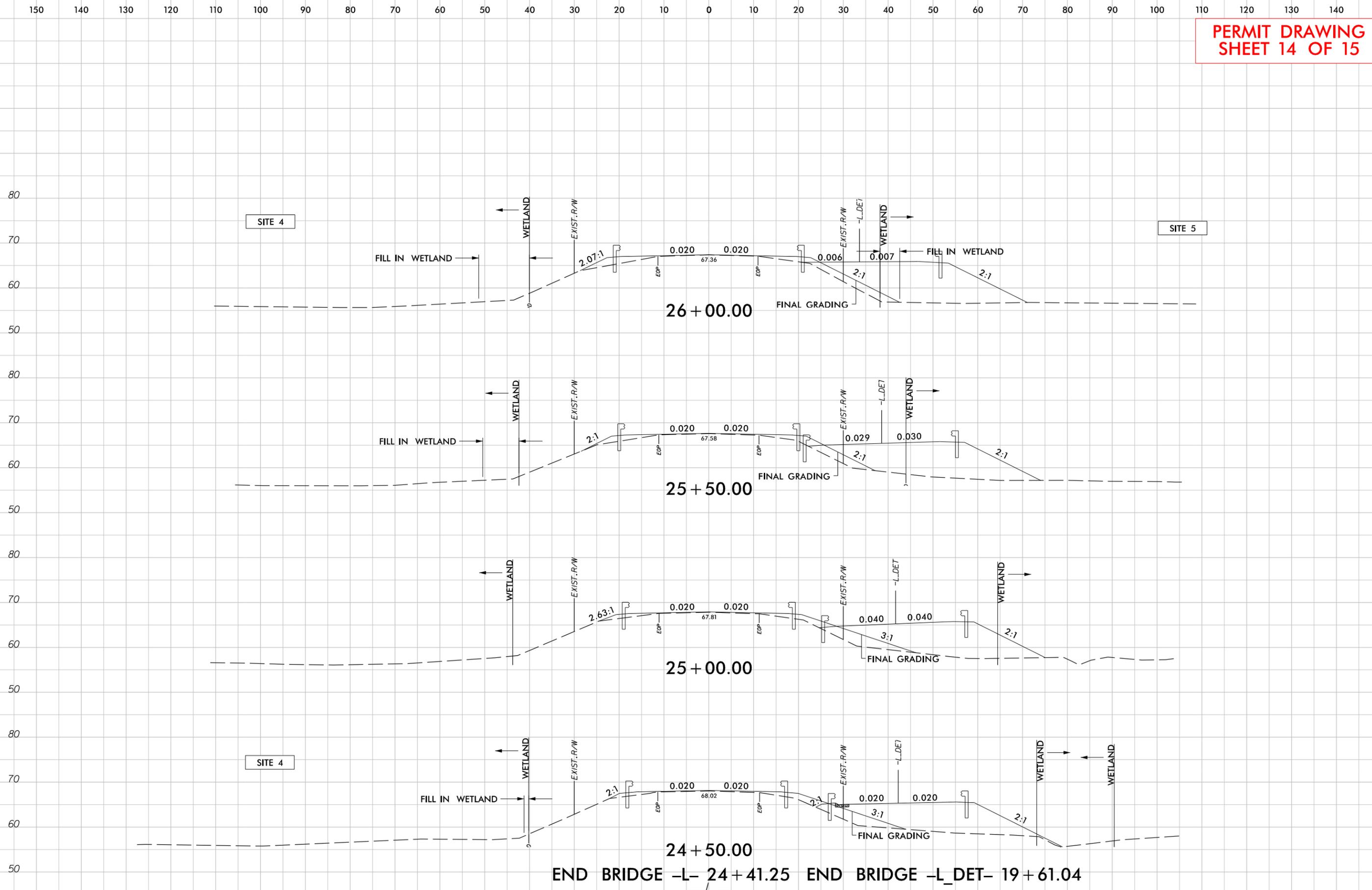




PERMIT DRAWING SHEET 14 OF 15

6/23/16

2/3/2020 B5639\_Hyd-prm-wet.xpl.L\_05.dgn



END BRIDGE -L- 24+41.25 END BRIDGE -L\_DET- 19+61.04

<b>WETLAND AND SURFACE WATER IMPACTS SUMMARY</b>												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	20+11 to 21+09-L-RT	ROADWAY FILL	< 0.01									
	14+62 to 16+65-L-DET-RT	ROADWAY FILL		0.08		0.02						
	17+22 to 17+38-L-DET-RT	ROADWAY FILL				< 0.01						
2	20+21 to 22+85-L-LT	ROADWAY FILL	0.02			0.06						
3	22+85 to 24+25-L-	170' BRIDGE *	< 0.01			< 0.01			0.09		99	
	17+46 to 19+61-L-DET-	170' DETOUR BRIDGE			< 0.01	< 0.01			< 0.01		27	
4	24+22 to 25+34-L-LT	ROADWAY FILL	< 0.01			0.02						
	26+01 to 27+49-L-LT	ROADWAY FILL	0.03			0.03						
5	25+81 to 27+17-L-RT	ROADWAY FILL	0.02									
	19+61 to 26+42-L-DET-RT	ROADWAY FILL		0.19	< 0.01	0.08						
<b>TOTALS*:</b>			0.07	0.27	< 0.01	0.21			0.10	0	126	0

\*Rounded totals are sum of actual impacts

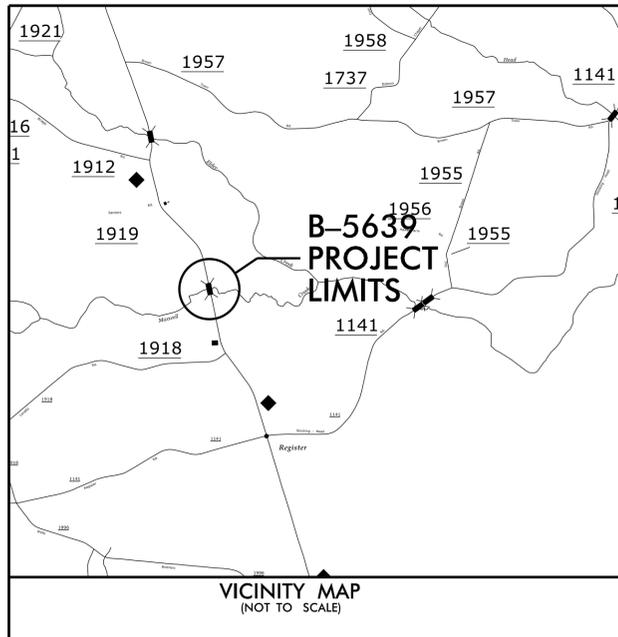
**NOTES:**

\* Site 3 Interior Piers are 2(8 - 14x73 (14.6in x13.6in)) = 2(8 (198.6 sq in)) = 2(1588.8 sq in) = 22 sq ft (0.0005 ac)

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 02-04-2020  
 DUPLIN COUNTY  
 B-5639  
 45594.1.1  
 SHEET      15      OF      15

T.I.P. NO.	SHEET NO.
B-5639	UE-1

TIP PROJECT: B-5639

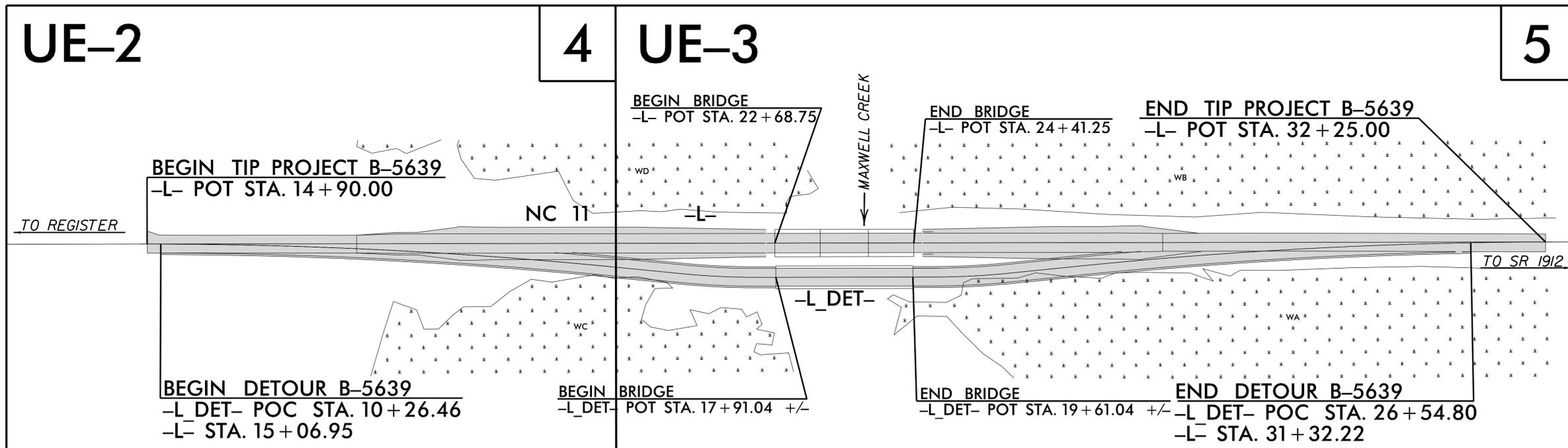


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

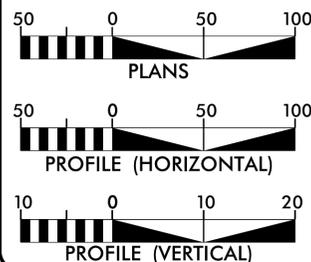
**UTILITY PERMIT PLANS  
DUPLIN COUNTY**

**LOCATION: BRIDGE NO. 36 OVER MAXWELL CREEK  
ON NC 11 (CLODFELTER ROAD)**

**TYPE OF WORK: UTILITY PERMIT DRAWINGS**



**GRAPHIC SCALES**

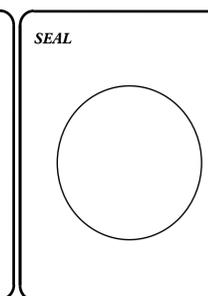


**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UE-1	TITLE SHEET
UE-2 THRU UE-3	PLAN SHEETS

**UTILITY OWNERS ON PROJECT**

- DUPLIN COUNTY WATER
- FOUR COUNTY FIBER
- AT&T
- CENTURYLINK



PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
UTILITIES ENGINEERING  
SECTION**

1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
PHONE (919) 707-6690  
FAX (919) 250-4151

<u>NABIL HAMDON</u>	UTILITIES REGIONAL ENGINEER
<u>KIFAH KAMIL</u>	SENIOR UTILITIES ENGINEER
<u>KYLE PLEASANT</u>	AREA UTILITIES COORDINATOR

\$\$\$\$\$ SYSTEM TIME\$\$\$\$\$  
\$\$\$\$\$ DDON\$\$\$\$\$  
\$\$\$\$\$ USERNAME\$\$\$\$\$





5/28/99

# SO-DEEP | SAM NC™

SO-DEEP | SAM NC, Inc.  
A SAM COMPANY

2800-154 Sumner Boulevard, Raleigh, NC 27616 Tel 919-878-7466

VERTICAL SCALE



HORIZONTAL SCALE



PROJECT REFERENCE NO. SHEET NO.

B-5639 UE-4

DESIGNED BY: CBT

DRAWN BY: WAW

CHECKED BY: CMG

APPROVED BY:

REVISED:

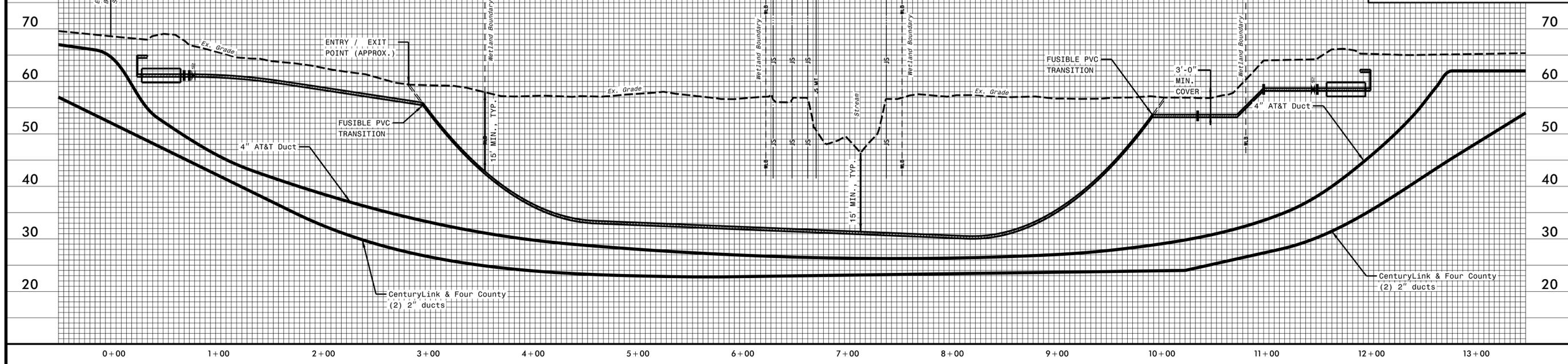
**NORTH CAROLINA  
DEPARTMENT OF  
TRANSPORTATION**

UTILITIES ENGINEERING SEC.  
PHONE: (919) 707-6690  
FAX: (919) 250-4151

Document Not Considered Final  
Unless All Signatures Completed  
UTILITY CONSTRUCTION  
PLANS ONLY

## UTILITY ENVIROMENTAL

### 6" Water Line 4" Telephone duct (2) 2" Telephone duct



5/28/99

**WETLAND PERMIT DUE TO UTILITIES IMPACTS SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
Site 1	L 26+36 TO 26+46 LT	Bore pit			0.002							
	L 26+36 TO 27+50 LT	water line			0.020							
<b>TOTALS*:</b>					0.022					0	0	0

\*Rounded totals are sum of actual impacts

NOTES:  
Site 1: Backfilling in the excavated area will be performed with the same excavated soil.

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
April 2, 2020  
Duplin County  
B-5639  
38446.1.2  
SHEET 1 OF 1