



## 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: \*

Edgecombe

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:

BR-0111

WBS # \*

48820.1.1

(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:

14 - Linear transportation

NWP Numbers (for multiple NWPS):

List all NWP 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

BR-0111 - RW - TP 01.pdf

71.21KB

FILE TYPE 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: \*

jldilday@ncdot.gov

1c. Primary Contact Phone: \*

(xxx)xxx-xxxx

(919)707-6111

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)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: \*

pharris@ncdot.gov

## C. Project Information and Prior Project History

### 1. Project Information

1a. Name of project: \*

Bridges 3,4 and 5 over Swift Creek on SR 1404 (BR-0111 Central)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: \*

Battleboro

### 2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

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: \*

36.058323  
ex: 34.208504

Longitude: \*

-77.681421  
-77.796371

3. Surface Waters

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

Swift Creek

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

C; ORW; NSW

[Surface Water Lookup](#)

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

Tar-Pamlico

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

030201010803

[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 forested floodplains and agricultural fields and minor residential development.

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:

24

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

(intermittent and perennial)

1000

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

The purpose of this project is to replace three structurally deficient bridges.

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

This project involves replacing 2- 125 foot, 5 span bridges and 1- 50 foot, 2 span bridge with 2- 165 foot, 3 span and 1- 100 foot, 2 span bridges respectively. Traffic will be maintained on an off-site detour. Standard road building equipment, such as trucks, dozers and cranes 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](#)

BR-0111\_BufferDrawing.pdf

1.54MB

BR-0111\_PermitDrawing.pdf

10.26MB

BR0111\_utilitiesBUFFER.pdf

1001.67KB

BR0111\_utilitiesPERMITDRAWINGS.pdf

1.21MB

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:

Preliminary JD request sent on 4/29/2019. Written JD not received at this time.

#### 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

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

Name (if known): James Mason

Agency/Consultant Company: Three Oaks Engineering

Other:

#### 5d1. Jurisdictional determination upload

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

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 *
Site 1	Fill/Excavation	P	Riverine Swamp Forest	WA	Yes	Both	0.070 (acres)
Site 2	Fill/Excavation	P	Riverine Swamp Forest	WA	Yes	Both	0.040 (acres)
Site 3	Fill/Excavation	P	Riverine Swamp Forest	WA	Yes	Both	0.010 (acres)

#### 2g. Total Temporary Wetland Impact

0.000

#### 2g. Total Permanent Wetland Impact

0.120

#### 2g. Total Wetland Impact

0.120

#### 2h. Comments:

There will be an additional 0.94 acre of hand clearing at the three bridge sites due to construction and aerial utility line relocations. Additionally, there will be 0.04 ac of temporary fill for erosion control in the hand clearing areas.

### 3. Stream Impacts

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

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

3a. Reason for impact * (?)	3b. Impact type *	3c. Type of impact *	3d. S. name *	3e. Stream Type * (?)	3f. Type of Jurisdiction *	3g. S. width *	3h. Impact length *



S1	Bent Placement/Abutment	Temporary	Dewatering	Swift Creek	Perennial	Both	40 Average (feet)	50 (linear feet)
S2	Bent Placement/Abutment	Temporary	Dewatering	Swift Creek	Perennial	Both	60 Average (feet)	50 (linear feet)
S3	Bent Placement/Abutment	Temporary	Dewatering	Swift Creek	Perennial	Both	60 Average (feet)	50 (linear feet)

\*\* 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:

150

3i. Total stream and ditch impacts:

150

3j. Comments:

Temporary stream impacts due to construction of bridge abutments and setting of interior bents.

6. Buffer Impacts (for DWR)

If project will impact a protected riparian buffer, then complete the chart below. Individually list all buffer impacts below.

6a. Project is in which protect basin(s)? \*

Check all that apply.

- ☐ Neuse
- ☐ Catawba
- ☐ Goose Creek
- ☐ Other
- ☒ Tar-Pamlico
- ☐ Randleman
- ☐ Jordan Lake

6b. Impact Type * (?)	6c. Per or Temp * (?)	6d. Stream name *	6e. Buffer mitigation required? *	6f. Zone 1 impact *	6g. Zone 2 impact *
Site 1-Road Crossing-Allowable	P	Swift Creek	No	1,653 (square feet)	2,345 (square feet)
Site 1-Bridge-Allowable	P	Swift Creek	No	1,384 (square feet)	0 (square feet)
Site 2-Road Crossing-Allowable	P	Swift Creek	No	2,607 (square feet)	2,491 (square feet)
Site 2-Bridge-Allowable	P	Swift Creek	No	1,157 (square feet)	0 (square feet)
Site 3-Road Crossing-Allowable	P	Swift Creek	No	990 (square feet)	1,368 (square feet)
Site 3-Bridge-Allowable	P	Swift Creek	No	2,955 (square feet)	1,374 (square feet)
Site U1/U2-Utilities-Allowable	P	Swift Creek	No	1,356 (square feet)	848 (square feet)
Site U3/U4-Utilities-Allowable	P	Swift Creek	No	539 (square feet)	410 (square feet)
Site U5/U6-Utilities-Allowable	P	Swift Creek	No	219 (square feet)	143 (square feet)

6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	0.00	0.00

	Zone 1	Zone 2
Total Permanent impacts:	12,860.00	8,979.00

	Zone 1	Zone 2
Total combined buffer impacts:	12,860.00	8,979.00

6i. Comments:

Buffer impacts are for three separate bridge crossings of Swift Creek. Impacts at each individual site are considered allowable without mitigation.

#### Supporting Documentation - i.e. Impact Maps, Plan Sheet, etc.

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

File must be PDF

## 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:\*

Bridges will be replaced on the existing alignments. Two of the three bridges will result in the reduction of in-water bents. The project was designed so that grade of road was minimally raised to reduce fill in adjacent wetlands. See stormwater management plan for additional minimization measures.

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

An off-site detour will be used during construction. NCDOT's Design Standards in Sensitive Watersheds will be adhered to.

### 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)

0

#### 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.

#### 4d. Buffer mitigation requested (DWR only):

(square feet)

0

#### 4e. Riparian wetland mitigation requested:

(acres)

0.12

#### 4f. Non-riparian wetland mitigation requested:

(acres)

0

#### 4g. Coastal (tidal) wetland mitigation requested:

(acres)

0

#### 4h. Comments

## 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

1b. All buffer impacts and high ground impacts require diffuse flow or other form of stormwater treatment. If the project is subject to a state implemented riparian buffer protection program, include a plan that fully documents how diffuse flow will be maintained.

All Stormwater Control Measures (SCM)s must be designed in accordance with the [NC Stormwater Design Manual](#). Associated supplement forms and other documentation shall be provided.

#### What type of SCM are you providing?

☐ Level Spreader  
☐ Vegetated Conveyance (lower SHWT)  
☐ Wetland Swale (higher SHWT)  
☐ Other SCM that removes minimum 30% nitrogen  
☒ Proposed project will not create concentrated stormwater flow through the buffer  
(check all that apply)

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

#### Diffuse Flow Documentation

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

File type must be PDF

## 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

NEPA or SEPA Final Approval Letter

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

FILE TYPE MUST BE PDF

### 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 the minimal transportation impact resulting from this bridge replacement, this project will neither influence land use nor stimulate growth. Therefore, a detailed indirect and 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? \*

N.C. Natural Heritage Program database; USFWS-Raleigh Field Office website; biological surveys for protected species listed for Edgecombe County, which include Tar River spiny mussel, yellow lance, dwarf wedgemussel, red-cockaded woodpecker. Biological conclusion of "No Effect" were rendered for dwarf wedgemussel and red-cockaded woodpecker. This project occurs within an identified stream reach for the yellow lance and Tar River spiny mussel. NCDOT proposes to satisfy impacts to Section 7 for the species by making payment to the N.C. Non-game Aquatic Species Fund as set in the Programmatic Biological Opinion for freshwater mussels.

Consultation Documentation Upload

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

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 County Index

## 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/hpoweb/>)

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? \*

NEPA documentation

### 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:

Hydraulics Unit coordination with FEMA.

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

FEMA maps

## 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. Rivenbark, III*

Date

12/17/2019



## North Carolina Department of Transportation

Highway Stormwater Program  
STORMWATER MANAGEMENT PLAN  
FOR NCDOT PROJECTS

(Version 2.08; Released April 2018)

WBS Element: 67111.1.1 TIP No.: BR-0111 County(ies): Edgecombe Page 1 of 1

## General Project Information

WBS Element:	67111.1.1	TIP Number:	BR-0111	Project Type:	Bridge Replacement	Date:	10/10/2019
NCDOT Contact:	Chad Coggins			Contractor / Designer:	Wetherill Engineering, Inc. / Harinder Singh, PE		
Address:	Highway Division 4 509 Ward Blvd., PO Box 3165 Wilson, NC 27895			Address:	1223 Jones Franklin Rd.  Raleigh, NC 27606		
	Phone: 252-237-6164				Phone: 919-851-8077		
	Email: <a href="mailto:ccoggins@ncdot.gov">ccoggins@ncdot.gov</a>				Email: <a href="mailto:hsingh@wetherilleng.com">hsingh@wetherilleng.com</a>		
City/Town:	N/A			County(ies):	Edgecombe		
River Basin(s):	Tar-Pamlico			CAMA County?	No		
Wetlands within Project Limits?	Yes						

## Project Description

Project Length (lin. miles or feet):	0.44	Surrounding Land Use:	Rural, Wooded, Swampy
Proposed Project		Existing Site	
Project Built-Up Area (ac.)	1.5 ac.	1.1 ac.	
Typical Cross Section Description:	The proposed section consists of two 11' width lanes. Paved shoulders on bridge approach a variable from 4.4' to 5.4'.  Existing road consists of two 10' lanes with variable width grass shoulders.		
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 882	Year: 2040	Existing: 670 Year: 2019
General Project Narrative: (Description of Minimization of Water Quality Impacts)	Existing drainage will be maintained. There will be no deck drains on the bridges. Bridge runoff will be intercepted outside of the bridge limits by drainage inlets and will be discharged onto rip rap pads outside the buffer zones.		

## Waterbody Information

Surface Water Body (1):	Swift Creek		NCDWR Stream Index No.:	28-78-(2.5)	
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C			
	Supplemental Classification:	Nutrient Sensitive Waters (NSW)			
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:				Buffer Rules in Effect:	Tar-Pamlico
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	N/A
Deck Drains Discharge Over Water Body?	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)					

**PROJECT: BR-0111**



***EDGECOMBE COUNTY***

**TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE**

## WETLAND AND SURFACE WATER IMPACTS PERMIT

**WETHERILL ENGINEERING**

1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

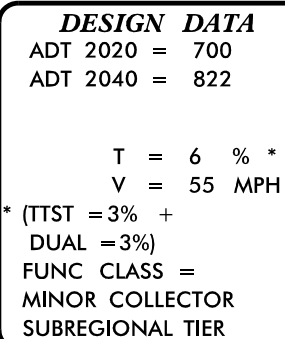
*TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN*  
*CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION*

**BRIDGE #320003**  
**BRIDGE #320004**  
**BRIDGE #320005**

PERMIT DRAWING  
SHEET 1 OF 17



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



LENGTH ROADWAY PROJECT BR-0111 =	0.361 MILES
LENGTH STRUCTURE PROJECT BR-0111 =	0.083 MILES
<b>TOTAL LENGTH PROJECT BR-0111 =</b>	<b>0.444 MILES</b>

Prepared for:  
**DIVISION OF HIGHWAYS**  
**STRUCTURES MANAGEMENT UNIT**  
 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610

EDWARD G. WETHERILL, PE  
PROJECT ENGINEER

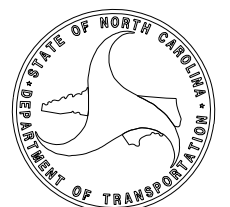
**HYDRAULICS ENGINEER**

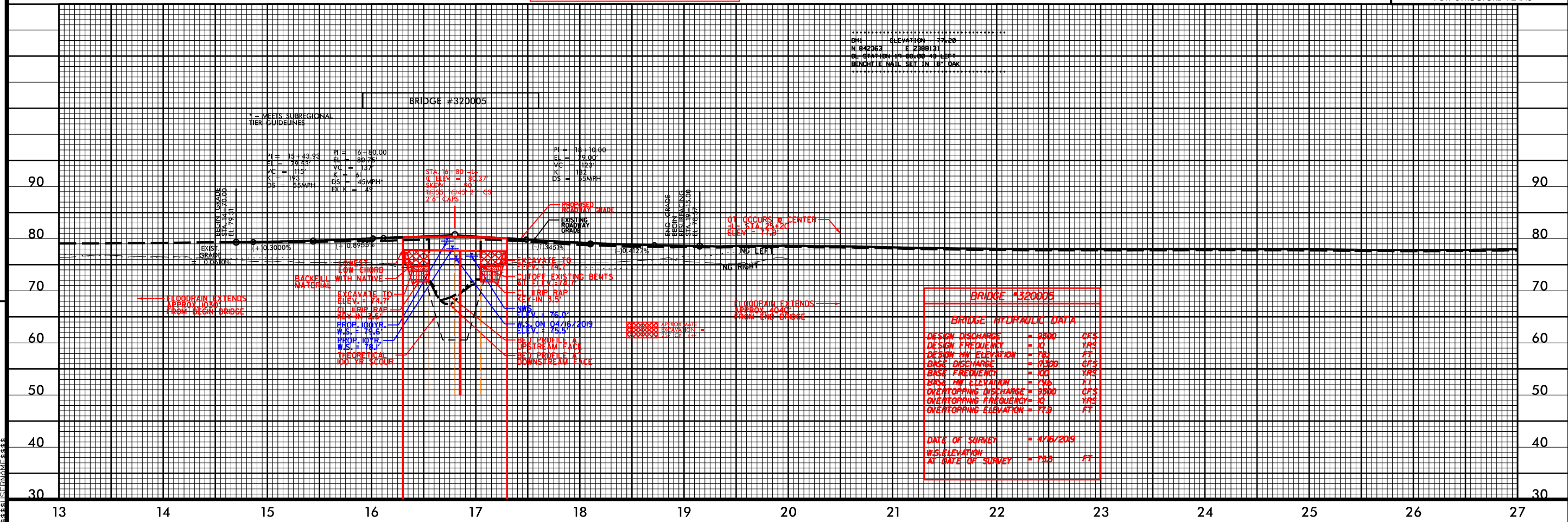
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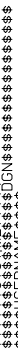
**ROADWAY DESIGN  
ENGINEER**

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

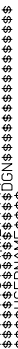








MATCHLINE SHEET 5 -L- STA. 27+00.00





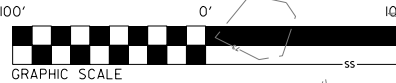
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DGN\$\$\$\$\$





8/17/99

PERMIT DRAWING  
SHEET 6 OF 17



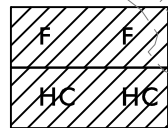
PERRY PROPERTIES FARMS LLC



DENOTES TEMPORARY  
IMPACTS IN SURFACE WATER



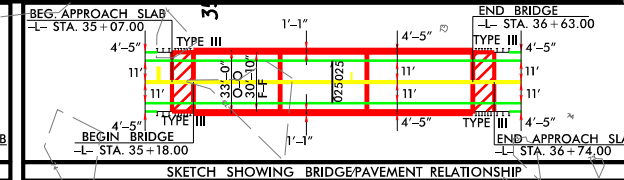
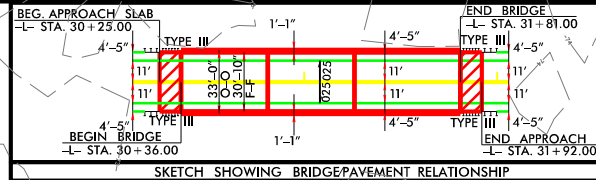
DENOTES EXCAVATION  
IN WETLAND



DENOTES FILL IN  
WETLAND

DENOTES HAND  
CLEARING

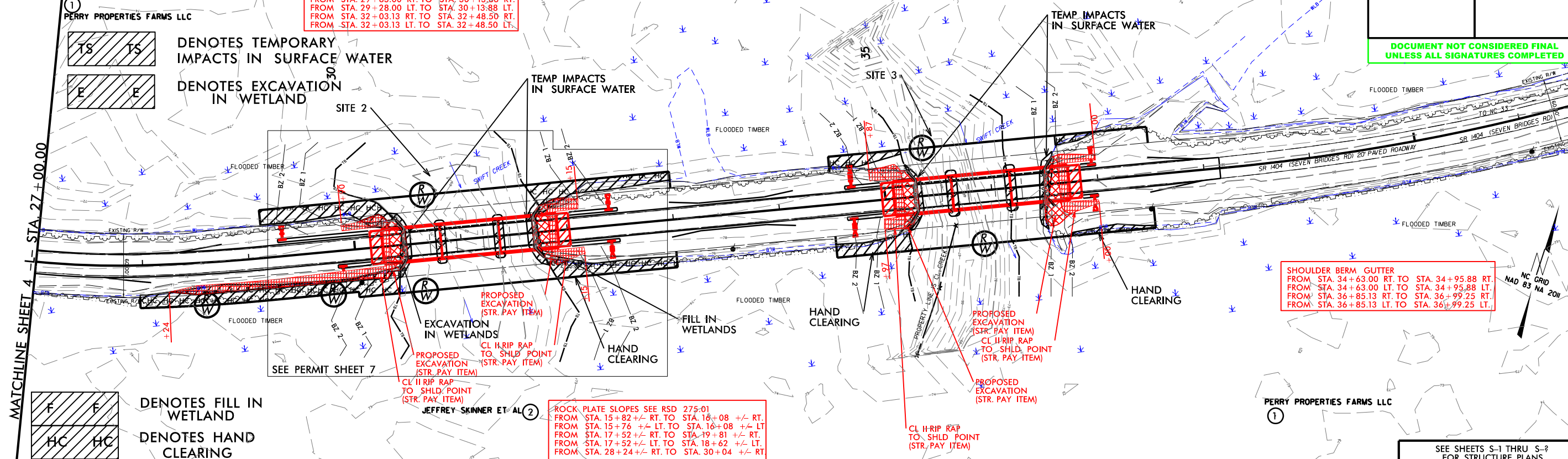
SHOULDER BERM GUTTER  
FROM STA. 29+83.00 RT. TO STA. 30+13.88 RT.  
FROM STA. 29+28.00 LT. TO STA. 30+13.88 LT.  
FROM STA. 32+03.13 RT. TO STA. 32+48.50 RT.  
FROM STA. 32+03.13 LT. TO STA. 32+48.50 LT.



WETHERILL  
ENGINEERING  
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION  
PERRY PROPERTIES FARMS LLC

PROJECT REFERENCE NO. **BR-0111**  
SHEET NO. **5**  
RW SHEET NO.  
ROADWAY DESIGN ENGINEER  
HYDRAULICS ENGINEER  
**INCOMPLETE PLANS**  
DO NOT USE FOR A/W ACQUISITION

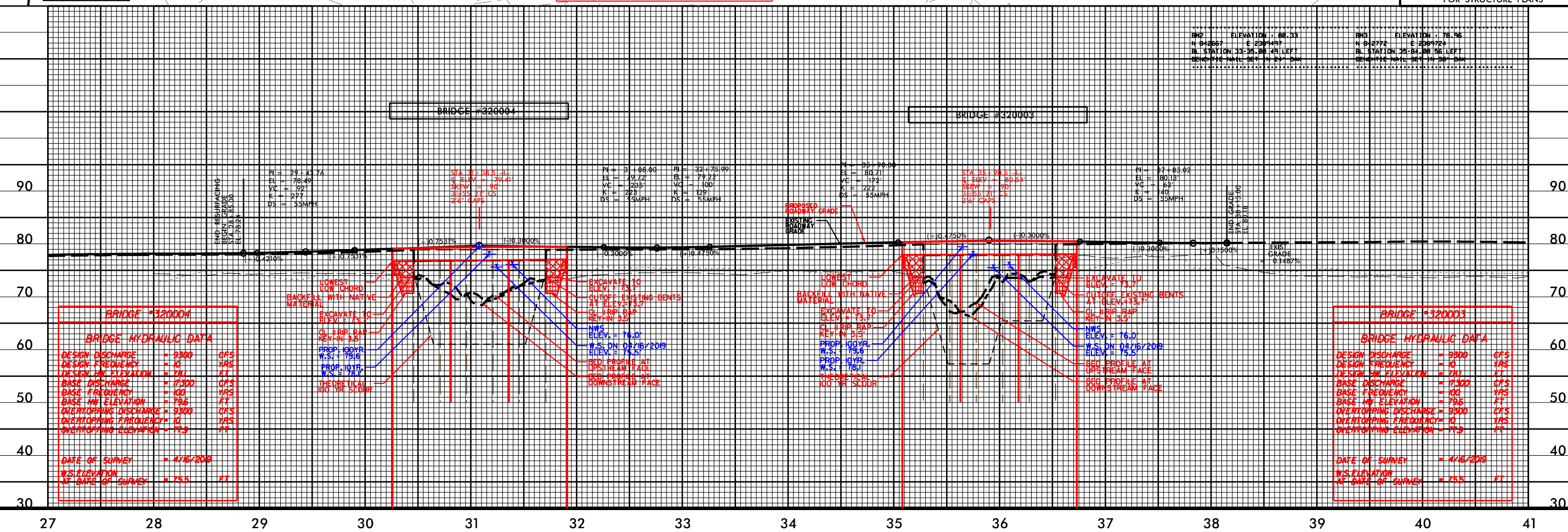
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



ROCK PLATE SLOPES SEE RSD 275-01  
FROM STA. 15+82 +/- RT. TO STA. 16+08 +/- RT.  
FROM STA. 15+76 +/- LT. TO STA. 16+08 +/- LT.  
FROM STA. 17+52 +/- RT. TO STA. 19+81 +/- RT.  
FROM STA. 17+52 +/- LT. TO STA. 18+62 +/- LT.  
FROM STA. 28+24 +/- RT. TO STA. 30+04 +/- RT.

SHOULDER BERM GUTTER  
FROM STA. 34+63.00 RT. TO STA. 34+95.88 RT.  
FROM STA. 34+63.00 LT. TO STA. 34+95.88 LT.  
FROM STA. 36+85.13 RT. TO STA. 36+99.25 RT.  
FROM STA. 36+85.13 LT. TO STA. 36+99.25 LT.

SEE SHEETS S-1 THRU S-2  
FOR STRUCTURE PLANS

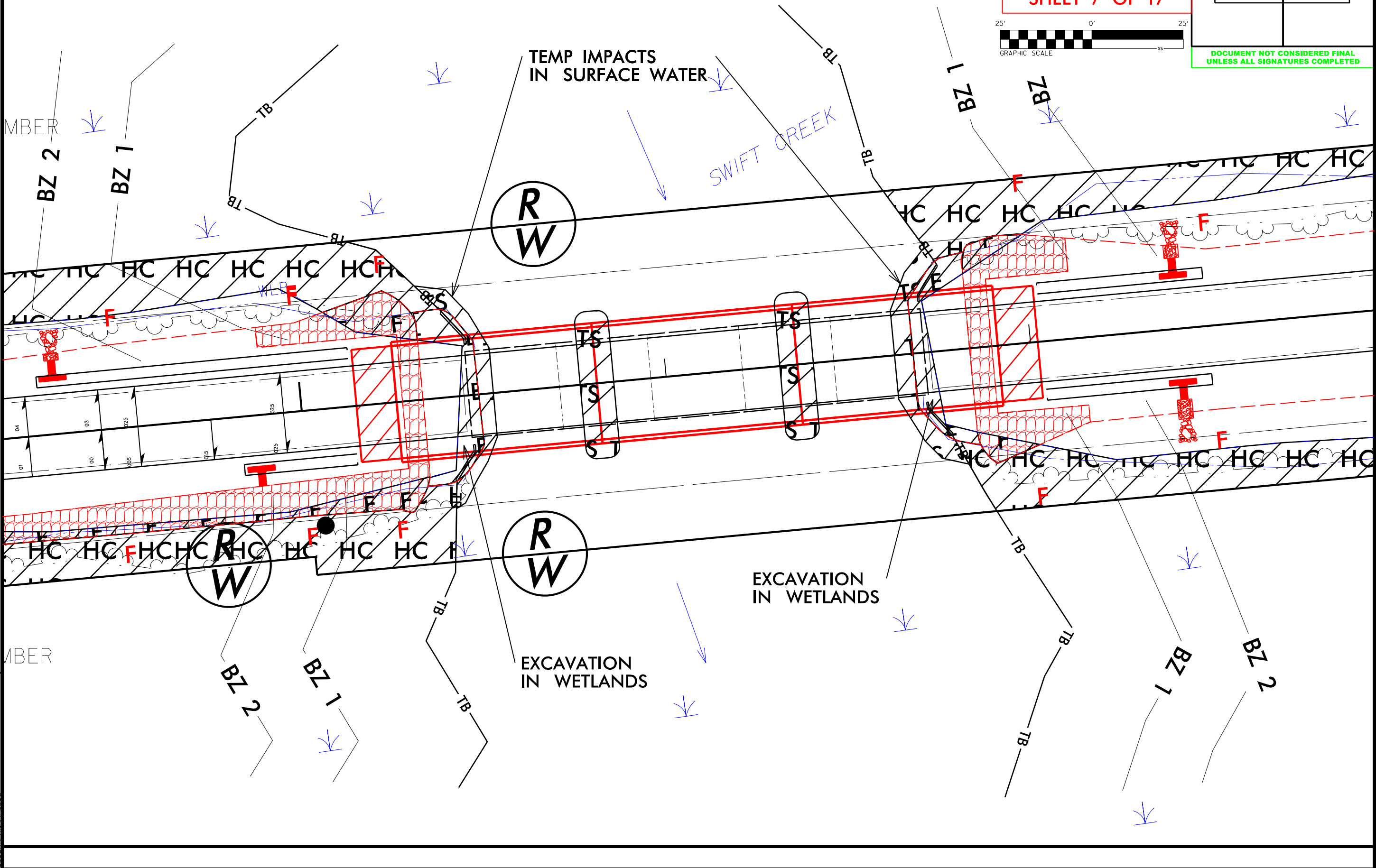


**BRIDGE #320001**  
**BRIDGE HYDRAULIC DATA**  
DESIGN DISCHARGE = 9300 CFS  
DESIGN FREQUENCY = 10 YRS  
DESIGN HW ELEVATION = 72.1 FT  
BASE DISCHARGE = 17300 CFS  
BASE FREQUENCY = 100 YRS  
BASE HW ELEVATION = 79.6 FT  
OVERTOPPING DISCHARGE = 9300 CFS  
OVERTOPPING FREQUENCY = 10 YRS  
OVERTOPPING ELEVATION = 77.9 FT  
DATE OF SURVEY = 4/16/2008  
W.S. ELEVATION AT DATE OF SURVEY = 75.5 FT

EXCAVATE TO ELEV. = 73.7  
CUT OFF EXISTING BENTS AT ELEV. = 73.7  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)

EXCAVATE TO ELEV. = 73.7  
CUT OFF EXISTING BENTS AT ELEV. = 73.7  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)  
CL II RIP RAP TO SHLD. POINT (STR. PAY ITEM)  
PROPOSED EXCAVATION (STR. PAY ITEM)

**BRIDGE #320003**  
**BRIDGE HYDRAULIC DATA**  
DESIGN DISCHARGE = 9300 CFS  
DESIGN FREQUENCY = 10 YRS  
DESIGN HW ELEVATION = 72.1 FT  
BASE DISCHARGE = 17300 CFS  
BASE FREQUENCY = 100 YRS  
BASE HW ELEVATION = 79.6 FT  
OVERTOPPING DISCHARGE = 9300 CFS  
OVERTOPPING FREQUENCY = 10 YRS  
OVERTOPPING ELEVATION = 77.9 FT  
DATE OF SURVEY = 4/16/2008  
W.S. ELEVATION AT DATE OF SURVEY = 75.5 FT

[illegible]


## REVISIONS

1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

**TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN**  
**CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION**

**PERMIT DRAWING**  
**SHEET 7 OF 17**

25' 0' 25'



GRAPHIC SCALE

PROJECT REFERENCE NO.		SHEET NO.	
BR-0111		4	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><b>INCOMPLETE PLANS</b></p> <p><b>DO NOT USE FOR R/W ACQUISITION</b></p> </div>			
<p style="color: green; text-align: center;"><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>			

WETLAND PERMIT IMPACT SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 16+30 to 17+30	100' Bridge	0.05		0.02		0.19		0.02			
2	-L- 30+25 to 31+91	165' Bridge	0.03		0.01		0.18		0.03			
3	-L- 35+08 to 36+72	165' Bridge	< 0.01		< 0.01		0.05		0.03			
TOTALS*:			0.08		0.04		0.42		0.08	0	0	0

NOTES:

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
BR-0111  
EDGEcombe CO.  
11/13/2019

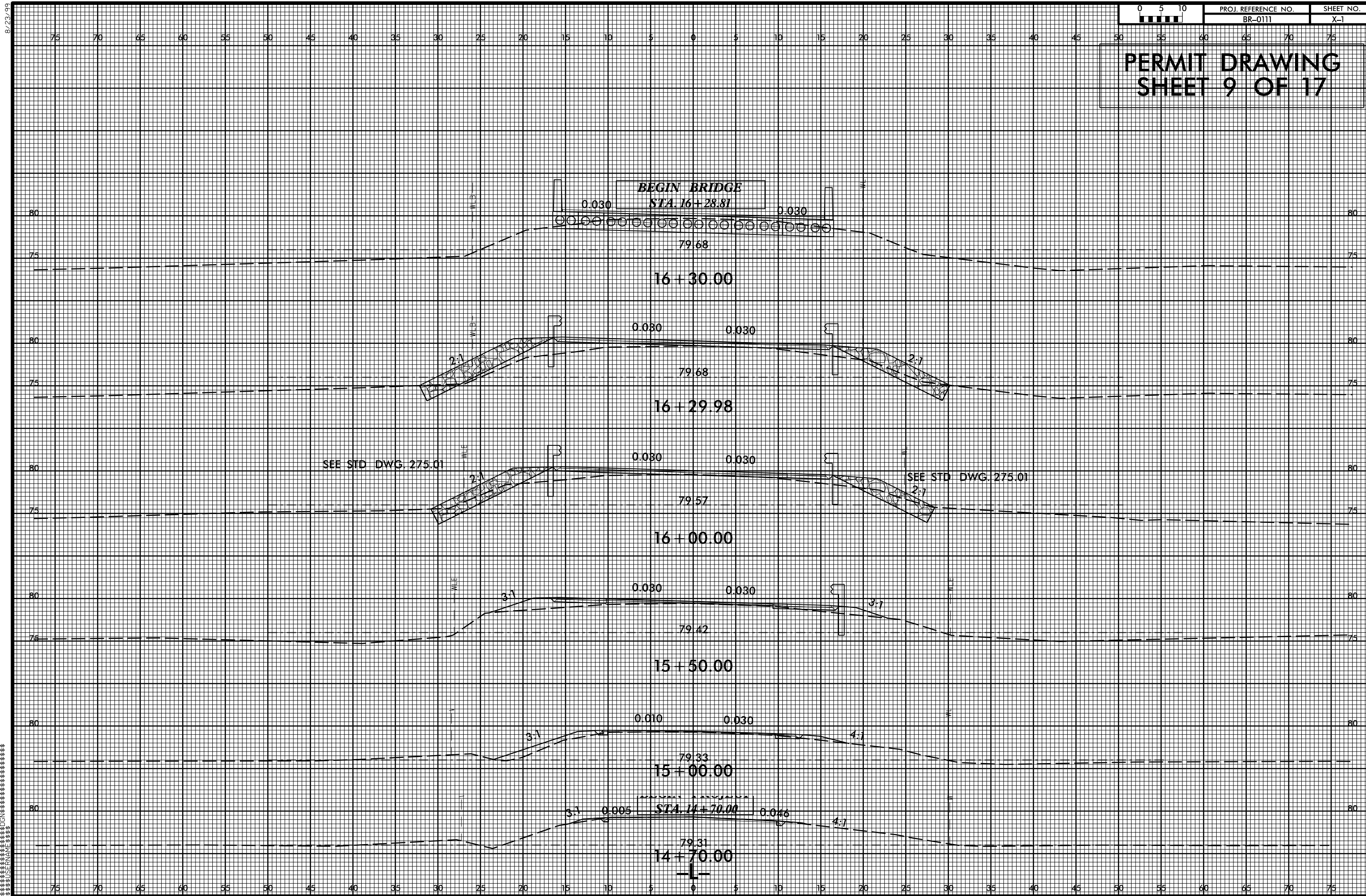
8/23/99

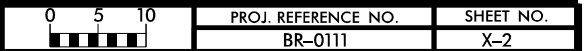


PROJ. REFERENCE NO.  
BR-0111

SHEET NO.  
X-1

# PERMIT DRAWING SHEET 9 OF 17







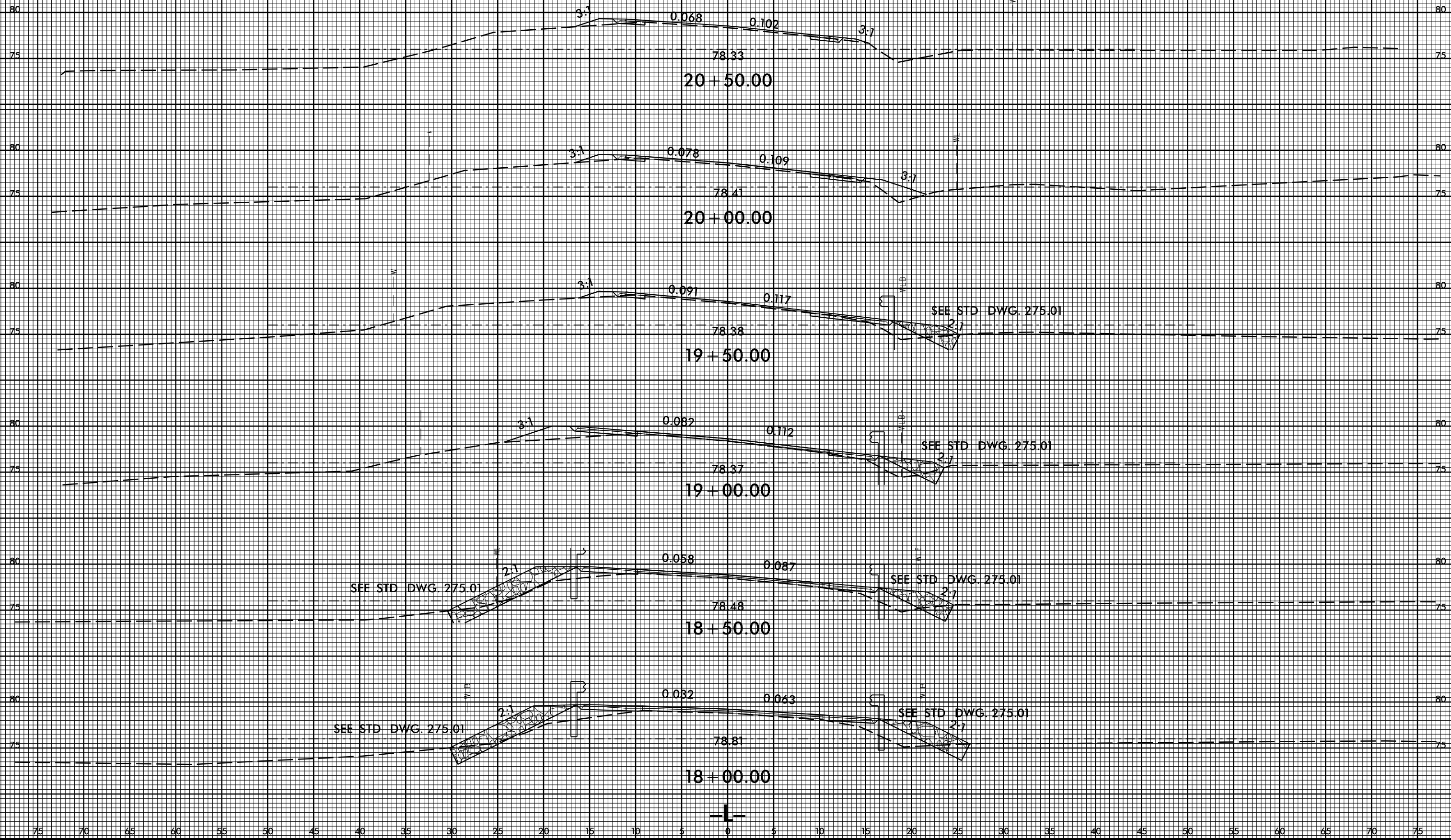
8/23/99



PROJ. REFERENCE NO.  
BR-0111

SHEET NO.  
X-3

# PERMIT DRAWING SHEET 11 OF 17

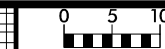




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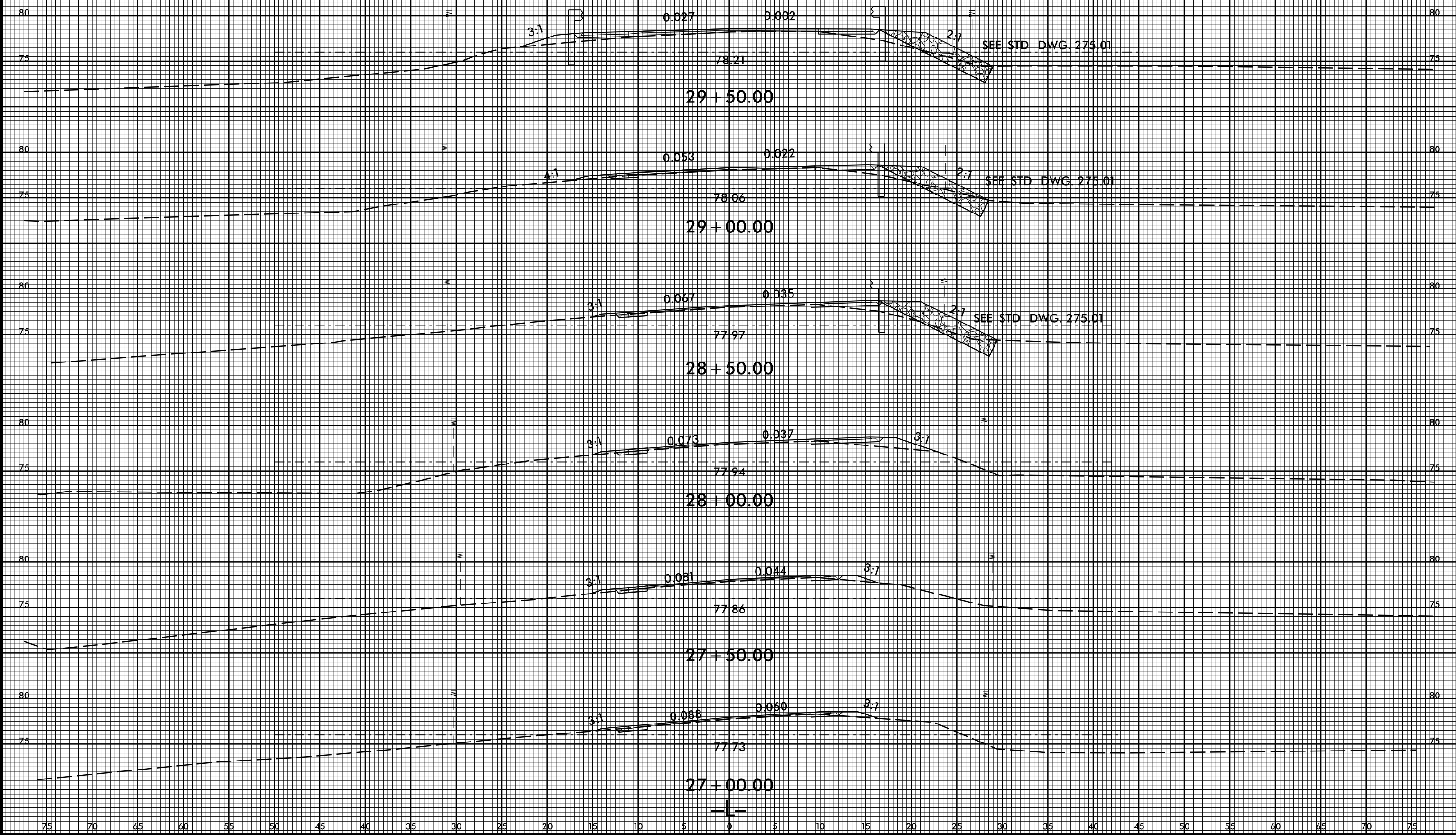
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BR-0111	X-6

PERMIT DRAWING  
SHEET 12 OF 17



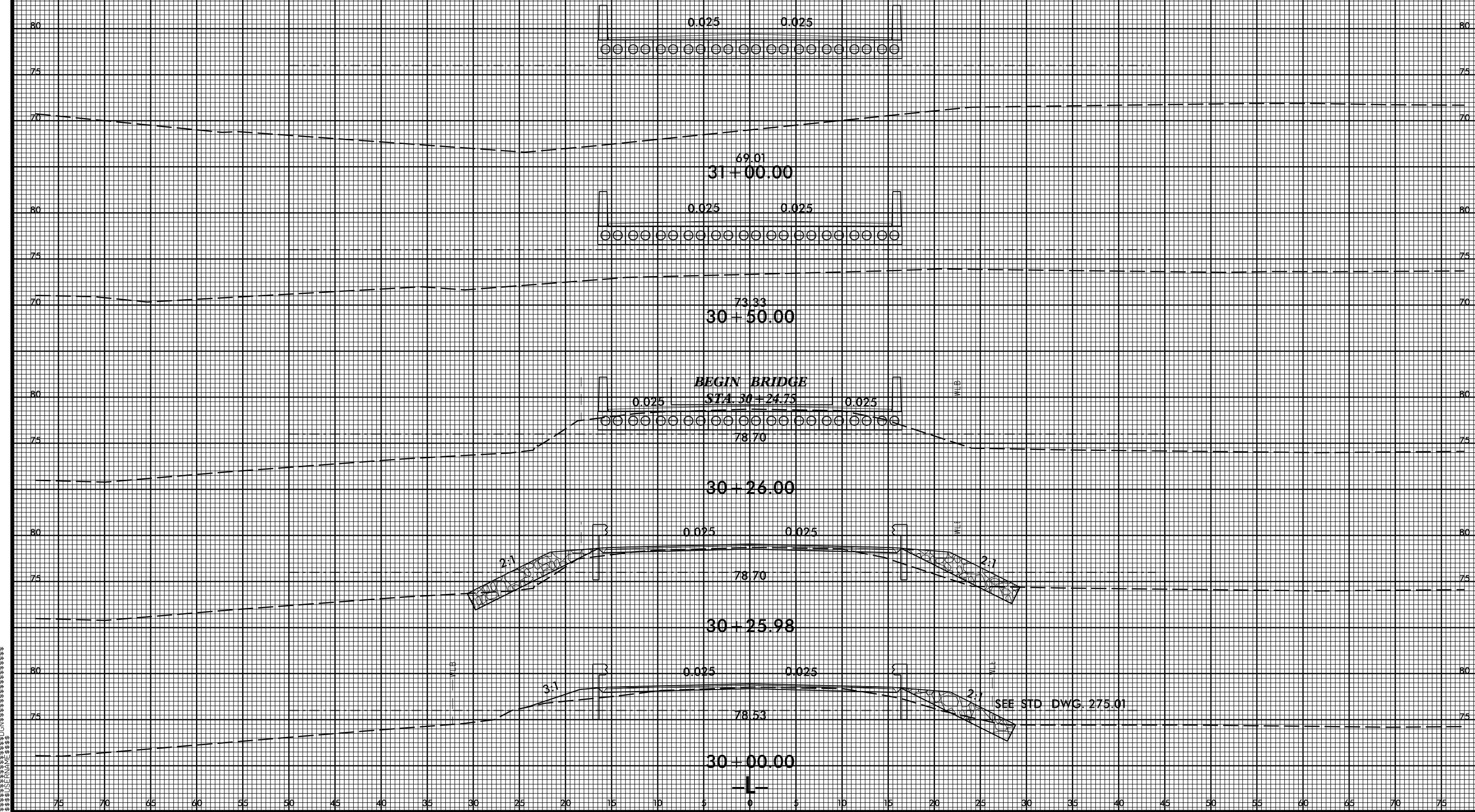
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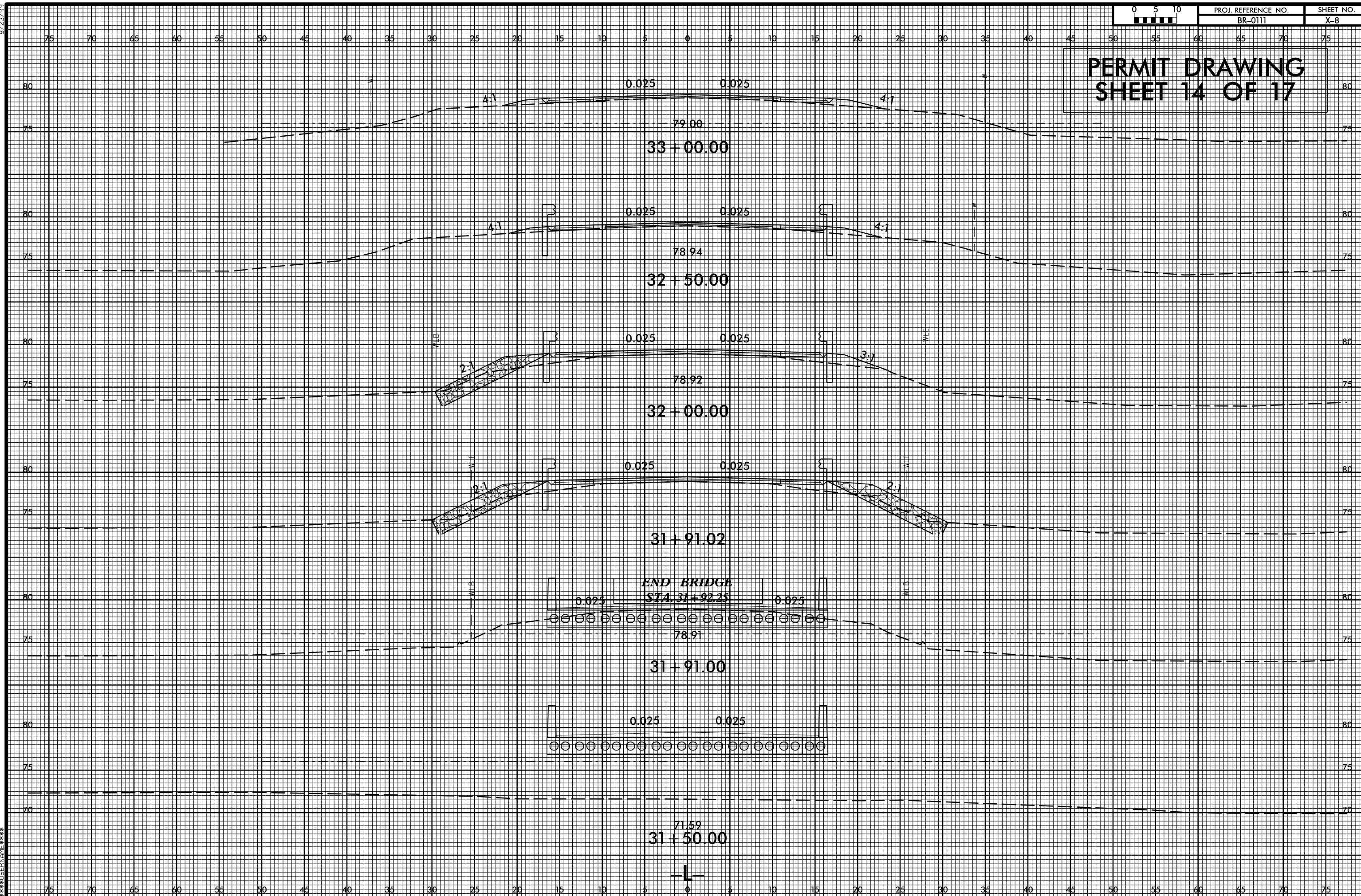


PROJ. REFERENCE NO.  
BR-0111

SHEET NO.  
X-7

PERMIT DRAWING  
SHEET 13 OF 17





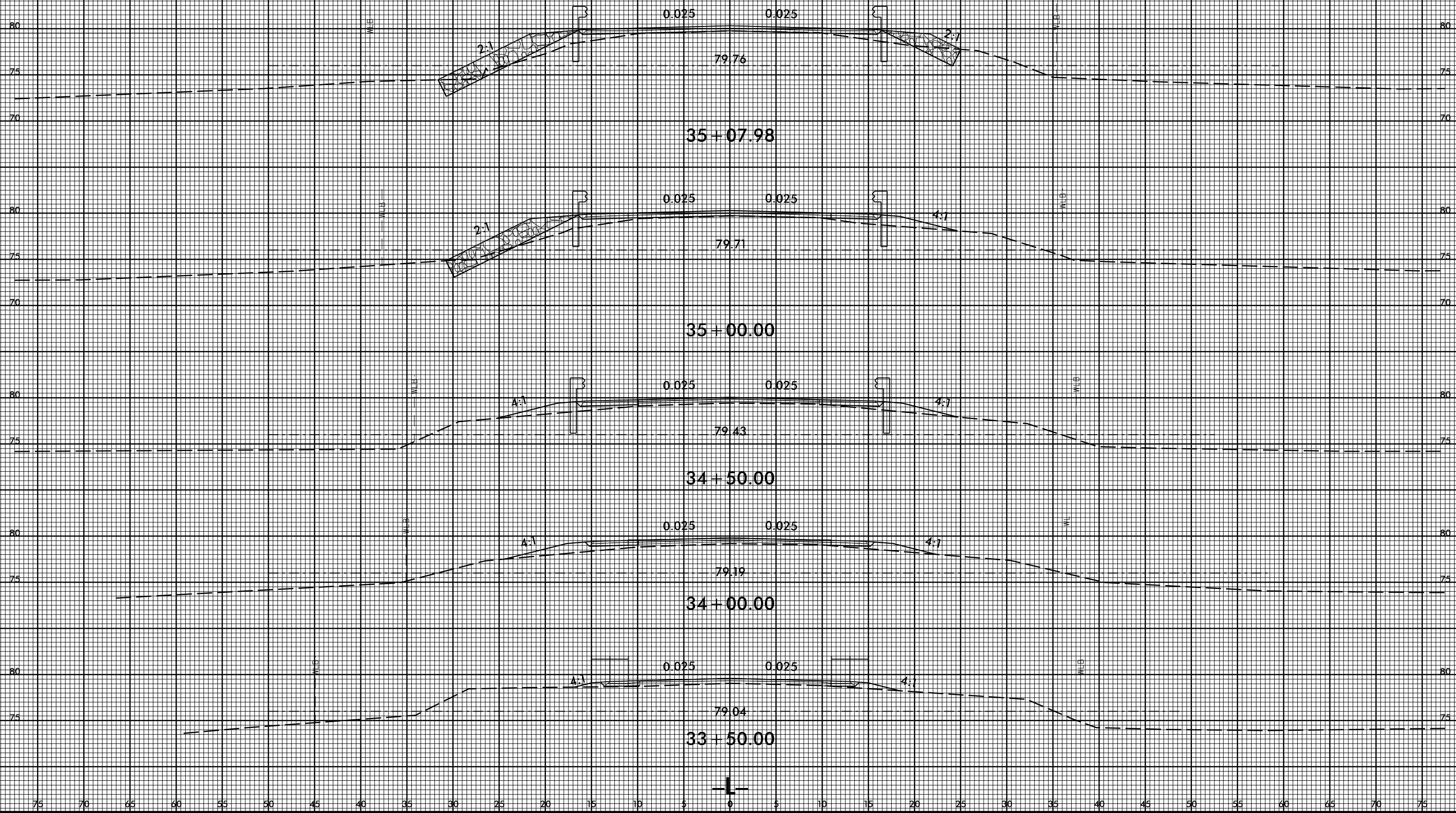
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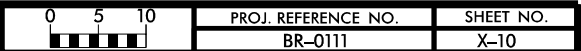


PROJ. REFERENCE NO.  
BR-0111

SHEET NO.  
X-9

# PERMIT DRAWING SHEET 15 OF 17





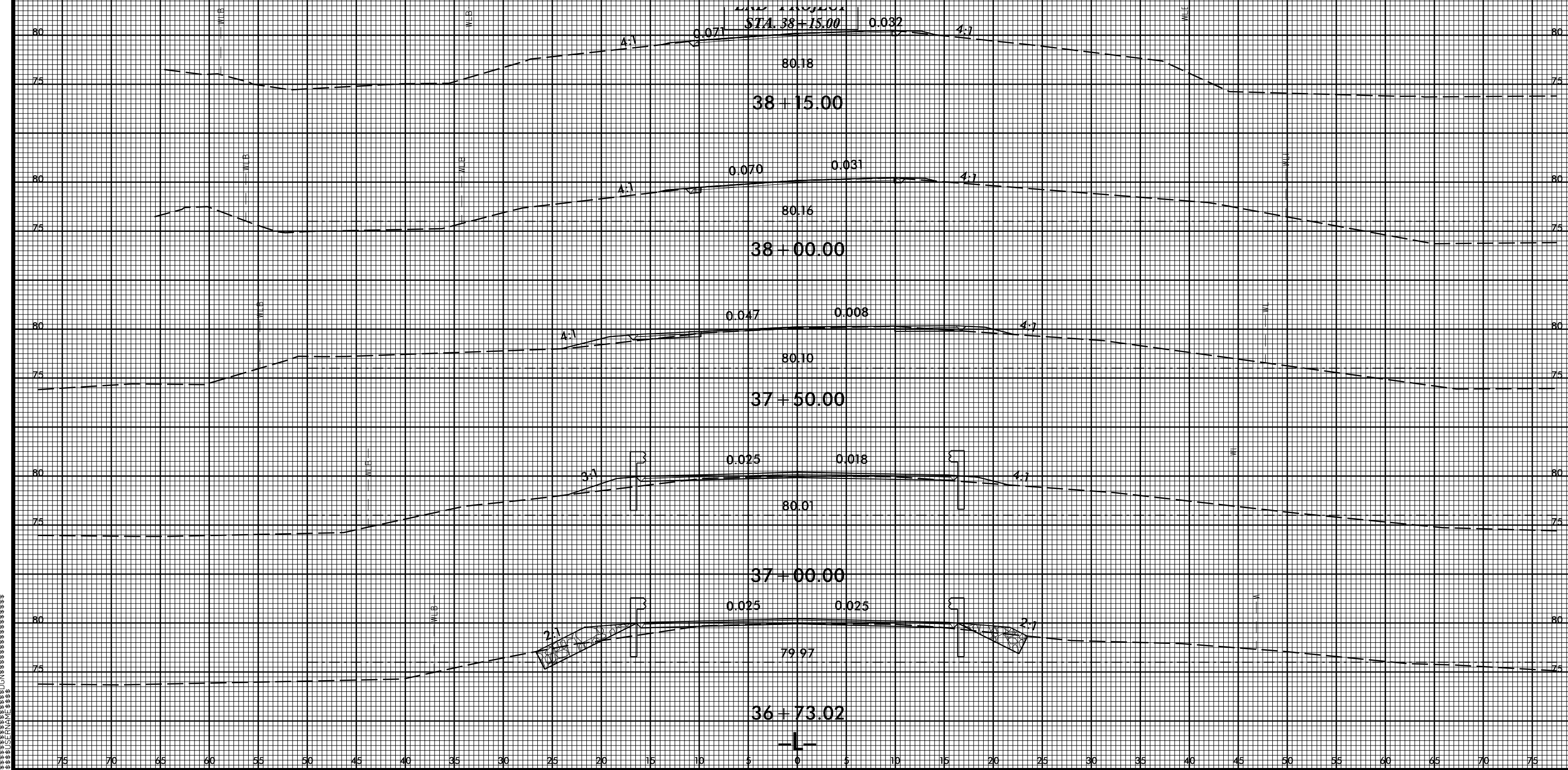
8/23/99



PROJ. REFERENCE NO.  
BR-0111

SHEET NO.  
X-11

# PERMIT DRAWING SHEET 17 OF 17



=====SYTIME=====  
=====DRAWING=====  
=====DATE=====

**PROJECT: BR-0111**

# BUFFER IMPACTS PERMIT

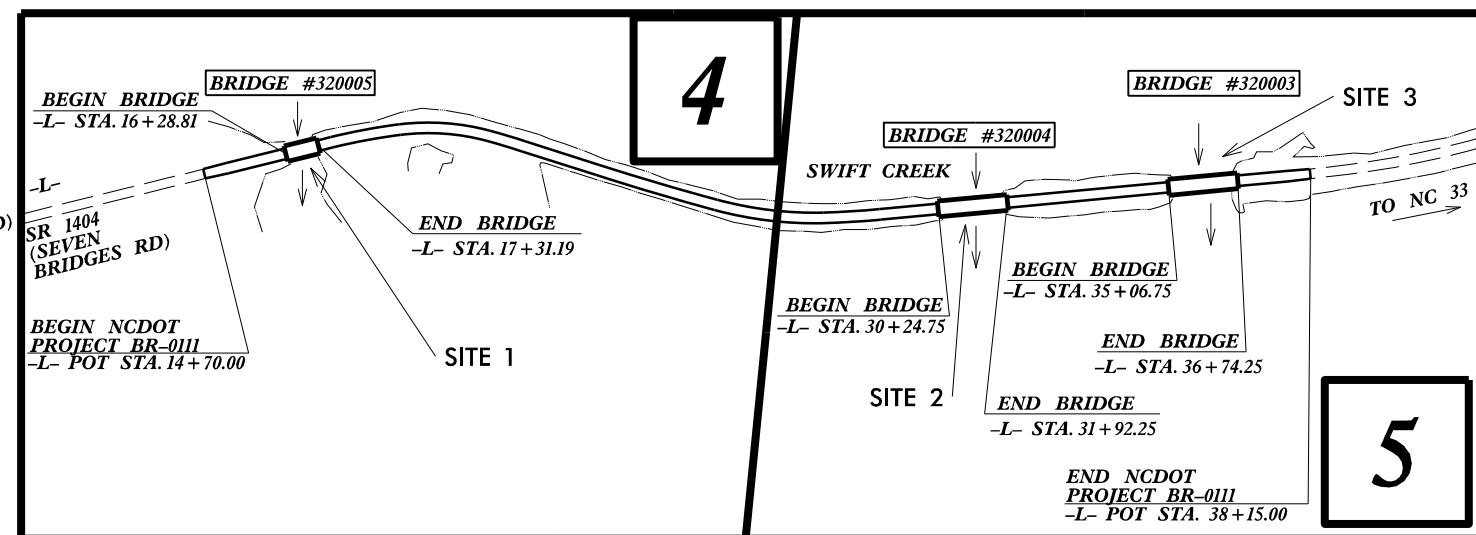
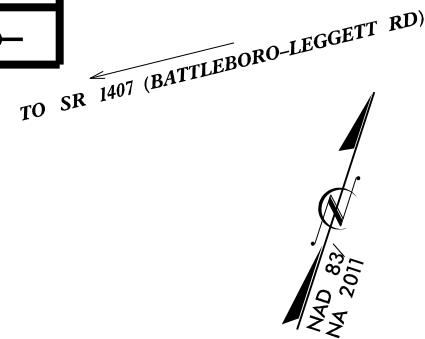


**WETHERILL  
ENGINEERING**

1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

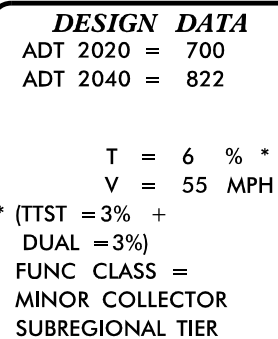
*TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN*  
*CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION*

# BUFFER DRAWING SHEET 1 OF 5



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

**CONTRACT:**

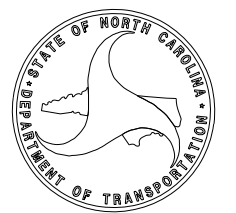


<i>PROJECT LENGTH</i>	
LENGTH ROADWAY PROJECT BR-0111 =	0.361 MILES
LENGTH STRUCTURE PROJECT BR-0111 =	0.083 MILE
TOTAL LENGTH PROJECT BR-0111 =	0.444 MILE

*NCDOT CONTACT:*      DAVID STUTTS, PE  
*PROJECT ENGINEER - PEEPROGRAM MGT.*

Prepared for: <b><i>DIVISION OF HIGHWAYS</i></b> <b><i>STRUCTURES MANAGEMENT UNIT</i></b> 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610	
2018 STANDARD SPECIFICATIONS  <b><i>RIGHT OF WAY DATE:</i></b> <u>OCTOBER 23, 2019</u>	<u>EDWARD G. WETHERILL, PE</u> PROJECT ENGINEER  <u>GREG S. PURVIS, PE</u> PROJECT DESIGN ENGINEER
<b><i>LETTING DATE:</i></b> <u>MAY 19, 2020</u>	

	<b>HYDRAULICS ENGINEER</b>
<b>SIGNATURE:</b> _____	_____ <b>P.E.</b>
<b>SIGNATURE:</b> _____	<b>ROADWAY DESIGN ENGINEER</b>
<b>SIGNATURE:</b> _____	_____ <b>P.E.</b>



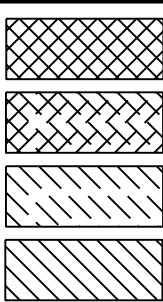
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 \$\$\$DGN\$\$\$  
 \$\$\$USERNAME\$\$\$





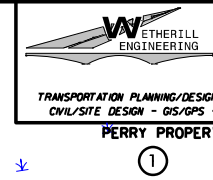
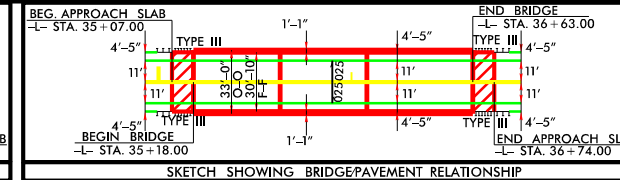
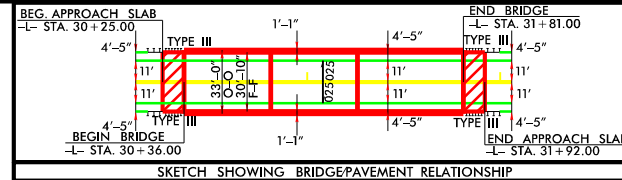


8/17/99



ALLOWABLE IMPACTS ZONE 1 (BRIDGE)  
ALLOWABLE IMPACTS ZONE 1 (ROADWAY)  
ALLOWABLE IMPACTS ZONE 2 (BRIDGE)  
ALLOWABLE IMPACTS ZONE 2 (ROADWAY)

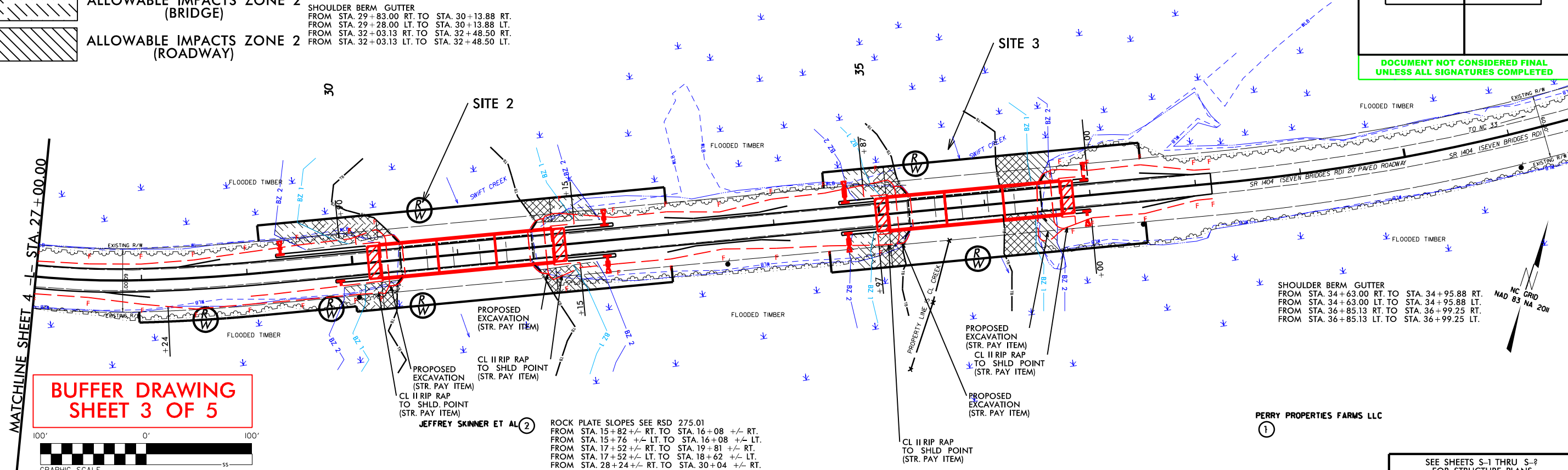
SHOULDER BERM, GUTTER  
FROM STA. 29+83.00 RT. TO STA. 30+13.88 RT.  
FROM STA. 29+28.00 LT. TO STA. 30+13.88 LT.  
FROM STA. 32+03.13 RT. TO STA. 32+48.50 RT.  
FROM STA. 32+03.13 LT. TO STA. 32+48.50 LT.



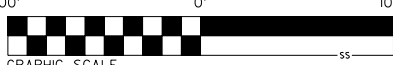
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

PROJECT REFERENCE NO.	SHEET NO.
BR-0111	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



BUFFER DRAWING  
SHEET 3 OF 5

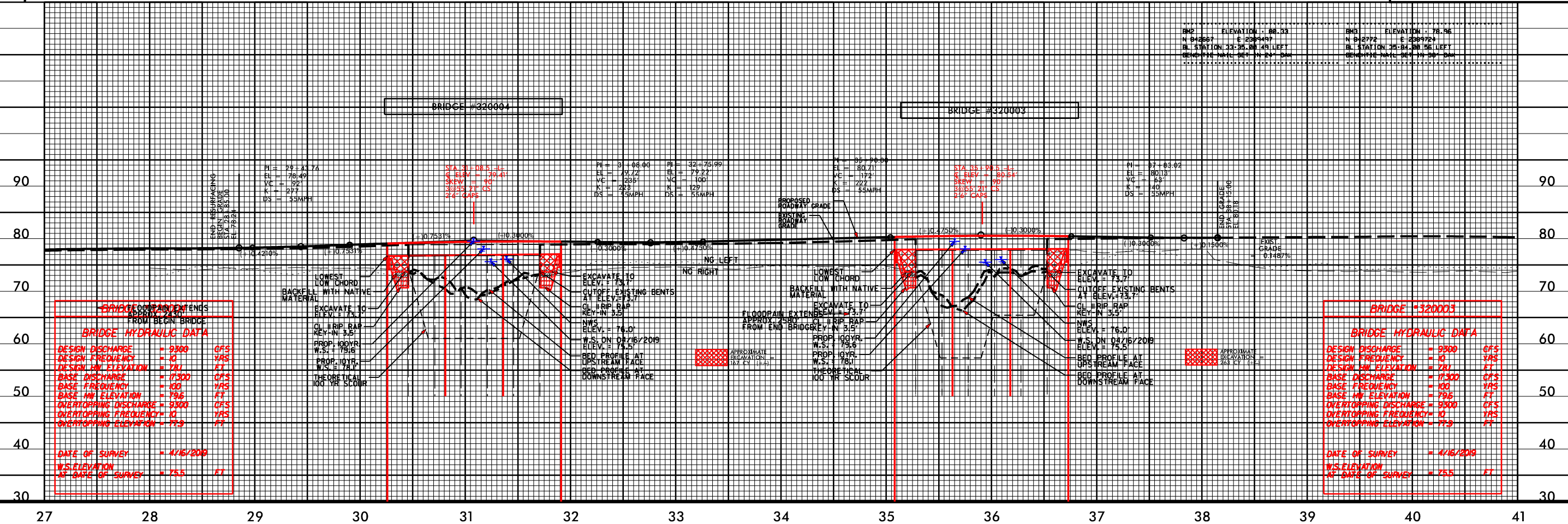


JEFFREY SKINNER ET AL  
ROCK PLATE SLOPES SEE RSD 275.01  
FROM STA. 15+82 +/- RT. TO STA. 16+08 +/- RT.  
FROM STA. 15+76 +/- LT. TO STA. 16+08 +/- LT.  
FROM STA. 17+52 +/- RT. TO STA. 19+81 +/- RT.  
FROM STA. 17+52 +/- LT. TO STA. 18+62 +/- LT.  
FROM STA. 28+24 +/- RT. TO STA. 30+04 +/- RT.

SHOULDER BERM, GUTTER  
FROM STA. 34+63.00 RT. TO STA. 34+95.88 RT.  
FROM STA. 34+63.00 LT. TO STA. 34+95.88 LT.  
FROM STA. 36+85.13 RT. TO STA. 36+99.25 RT.  
FROM STA. 36+85.13 LT. TO STA. 36+99.25 LT.

PERRY PROPERTIES FARMS LLC

SEE SHEETS S-1 THRU S-2  
FOR STRUCTURE PLANS



BRIDGE #320001  
BRIDGE HYDRAULIC DATA  
DESIGN DISCHARGE = 9300 CFS  
DESIGN FREQUENCY = 10 YRS  
DESIGN HW ELEVATION = 72.1 FT  
BASE DISCHARGE = 17300 CFS  
BASE FREQUENCY = 100 YRS  
BASE HW ELEVATION = 73.6 FT  
OVERTOPPING DISCHARGE = 9300 CFS  
OVERTOPPING FREQUENCY = 10 YRS  
OVERTOPPING ELEVATION = 72.9 FT  
DATE OF SURVEY = 4/16/2009  
W.S. ELEVATION AT DATE OF SURVEY = 75.5 FT

BRIDGE #320003  
BRIDGE HYDRAULIC DATA  
DESIGN DISCHARGE = 9300 CFS  
DESIGN FREQUENCY = 10 YRS  
DESIGN HW ELEVATION = 72.1 FT  
BASE DISCHARGE = 17300 CFS  
BASE FREQUENCY = 100 YRS  
BASE HW ELEVATION = 73.6 FT  
OVERTOPPING DISCHARGE = 9300 CFS  
OVERTOPPING FREQUENCY = 10 YRS  
OVERTOPPING ELEVATION = 72.9 FT  
DATE OF SURVEY = 4/16/2009  
W.S. ELEVATION AT DATE OF SURVEY = 75.5 FT

12/12/2009 3:36:35 PM  
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PERRY PROPERTIES FARMS LLC

## BUFFER IMPACTS SUMMARY

[illegible]

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS

EDGECOMBE CO.  
BR-0111

4 of 5

10/24/2019

## WETLANDS IN BUFFER IMPACTS SUMMARY

			WETLANDS IN BUFFERS	
SITE NO.	STATION (FROM/TO)		ZONE 1	ZONE 2
			(ft <sup>2</sup> )	(ft <sup>2</sup> )
1	-L- 15+50 to 18+17		2636	1864
2	-L- 29+30 to 32+40		3046	1269
3	-L- 34+65 to 36+70		2804	692
<b>TOTAL:</b>			9564	3825

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS

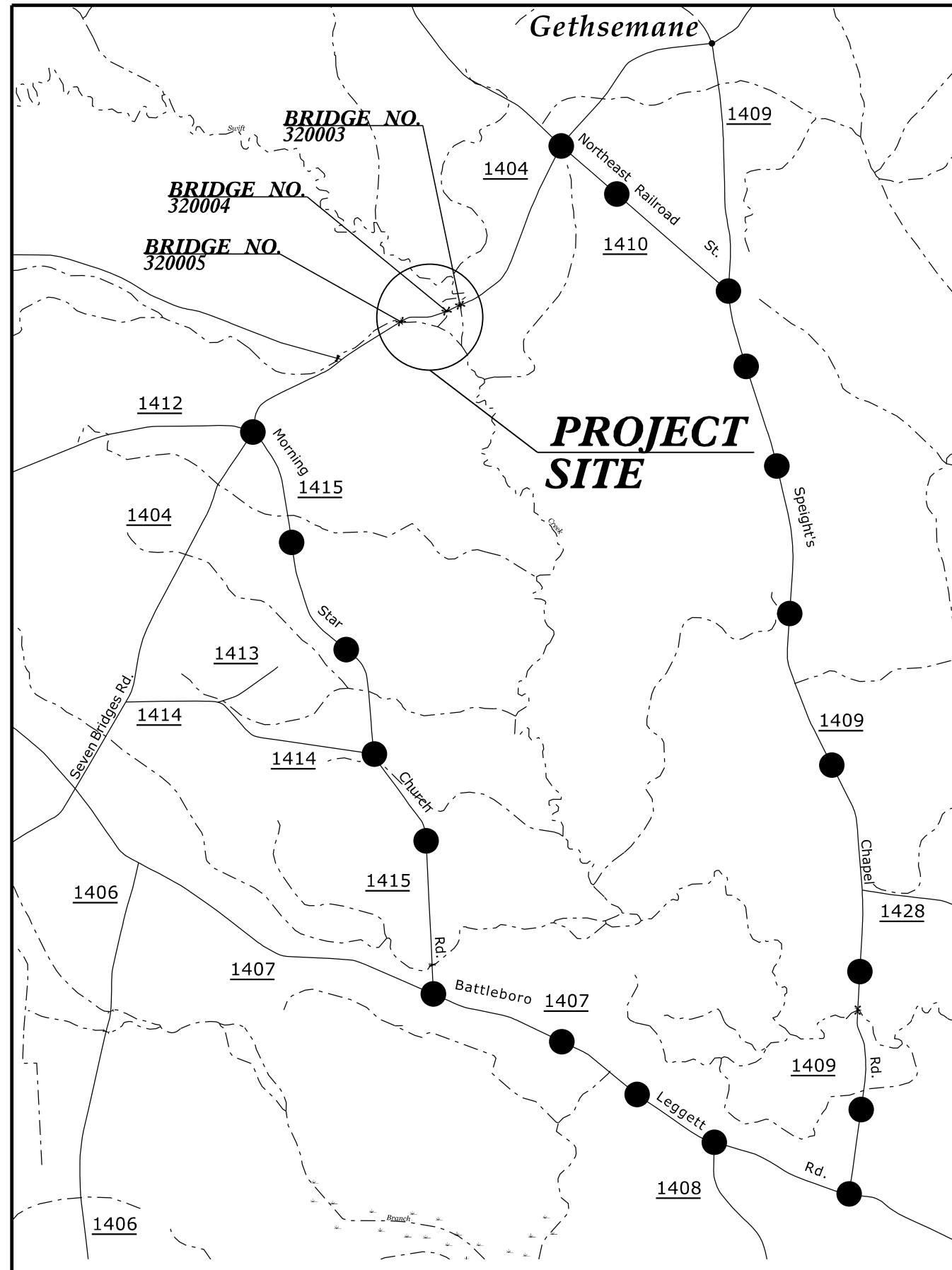
BR-0111  
EDGEcombe CO.

10/24/2019  
SHEET 5 OF 5

09/08/2011

See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols  
See Sheet 1C-1 TO 1C-2 For Survey Control Sheets

TIP PROJECT: BR-0111



## VICINITY MAP

OFF-SITE DETOUR ●●●●●

TO SR 1407 (BATTLEBORO-LEGETT RD)



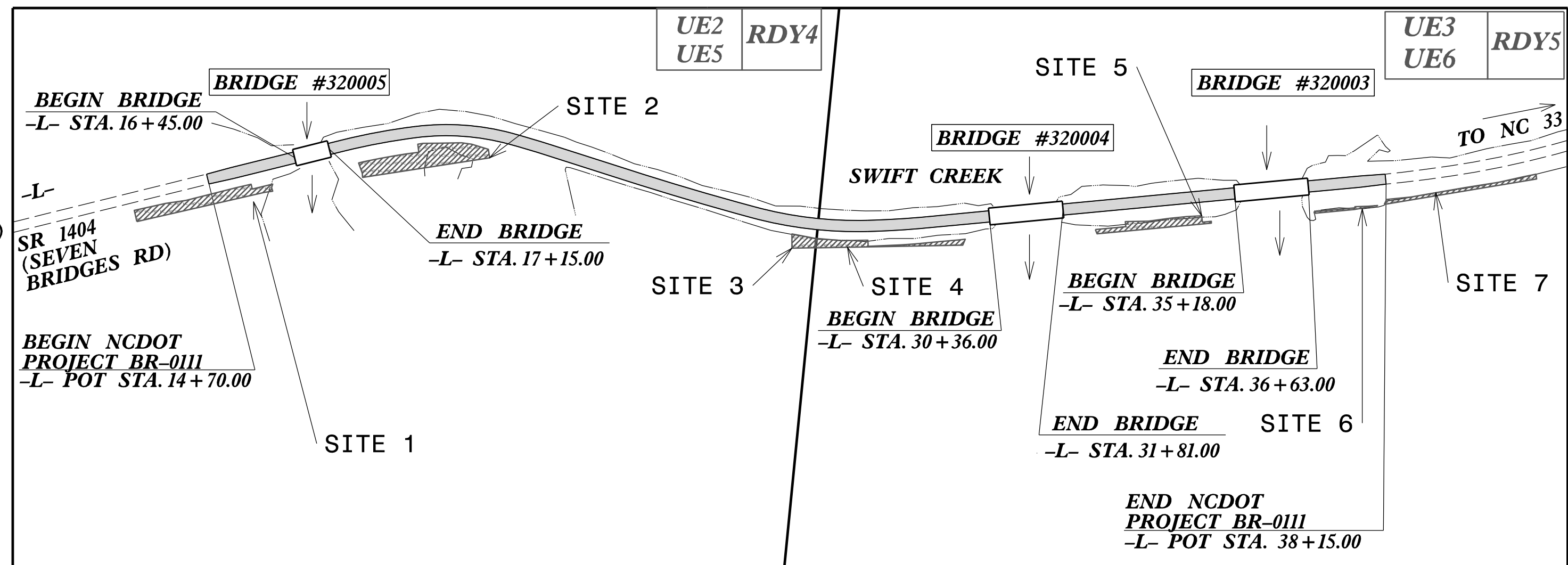
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITY PERMIT DRAWINGS EDGECOMBE COUNTY

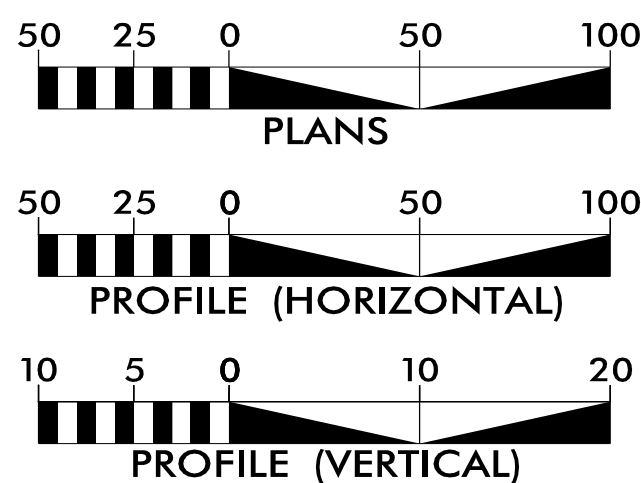
LOCATION: BRIDGE NO. 320003, 320004, AND 320005 OVER SWIFT CREEK  
ON SR 1404 (SEVEN BRIDGES RD.)

TYPE OF WORK: RELOCATION OF POWER AND COMMUNICATION LINES

### WETLAND IMPACTS



### GRAPHIC SCALES



### INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UE-1	UE BUFFER IMPACTS TITLE SHEET
UE-2 THRU UE-3	UE BUFFER IMPACTS PLAN SHEETS
UE-4	UE WETLAND IMPACTS TITLE SHEET
UE-5 THRU UE-6	UE WETLAND IMPACTS PLAN SHEETS

### UTILITY OWNERS WITH CONFLICTS

- (A) POWER - EDGECOMBE-MARTIN CO EMC  
(B) COMMUNICATION - SUDDENLINK

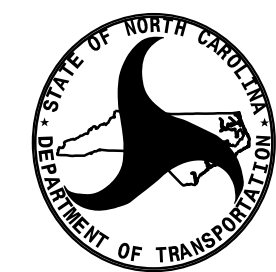
PREPARED IN THE OFFICE OF:



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

Tyron Stallings PROJECT UTILITY COORDINATOR




DIVISION OF HIGHWAYS  
UTILITIES UNIT  
1555 MAIL SERVICES CENTER  
RALEIGH NC 27699-1555  
PHONE (919) 707-5690  
FAX (919) 250-4151

Nabil Hamdan	UTILITIES REGIONAL ENGINEER
Kelvin Martin EI	UTILITIES ENGINEER
Kyle Pleasant	UTILITIES AREA COORDINATOR
Larry James	UTILITIES COORDINATOR



UTILITIES BY OTHERS

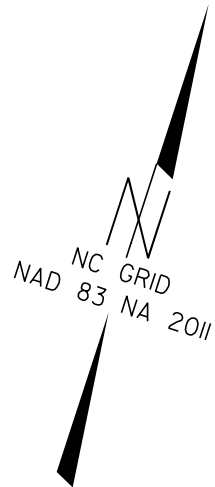
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



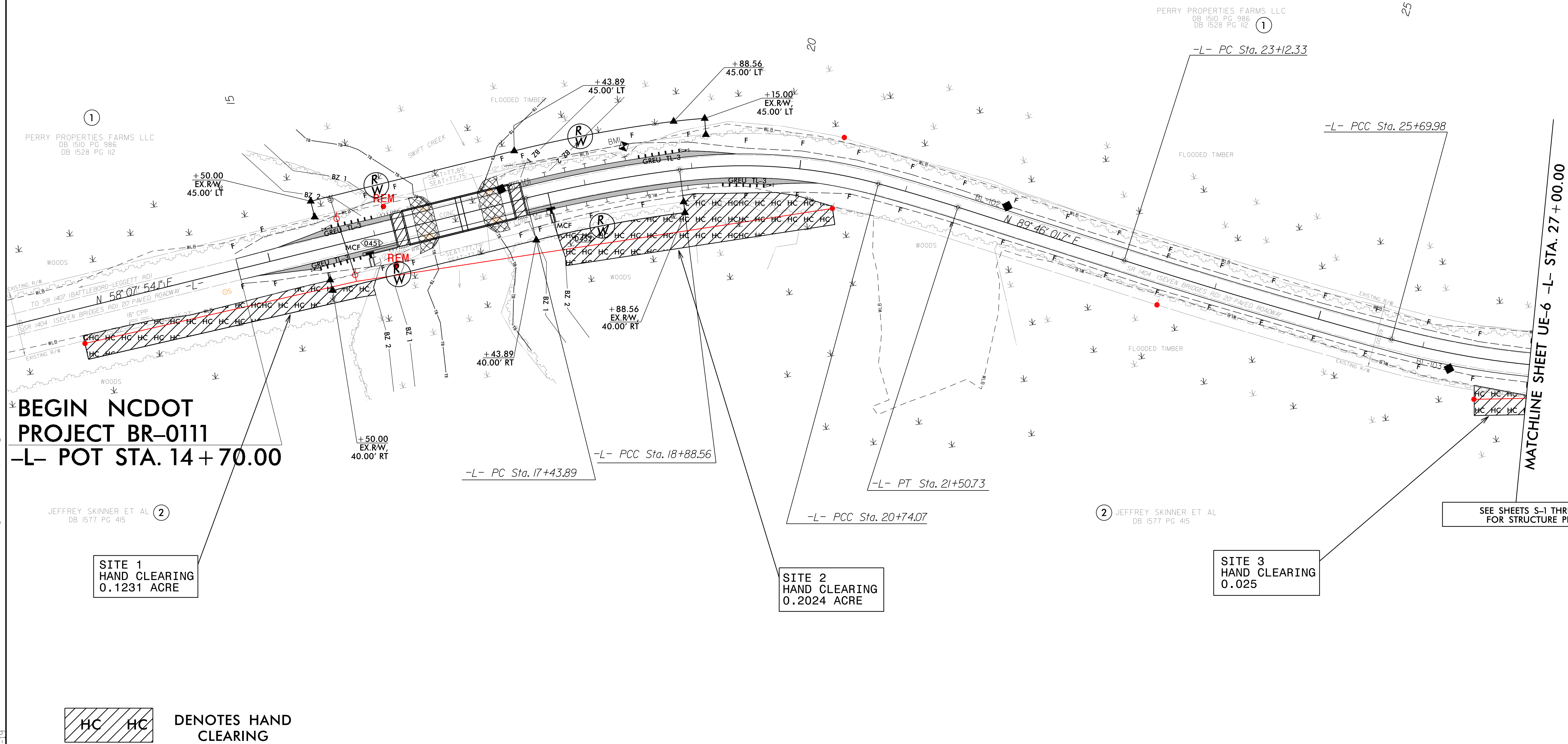
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PERMIT DRAWING  
SHEET 2 OF 3  
UTILITIES



UTILITY PERMIT PLANS  
WETLAND IMPACTS



5/14/99  
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5/14/99

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Jes Engineers

PROJECT REFERENCE NO.	SHEET NO.
BR-0111	UE-6
THIS SHEET CORRESPONDS TO RDY-5	

## UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

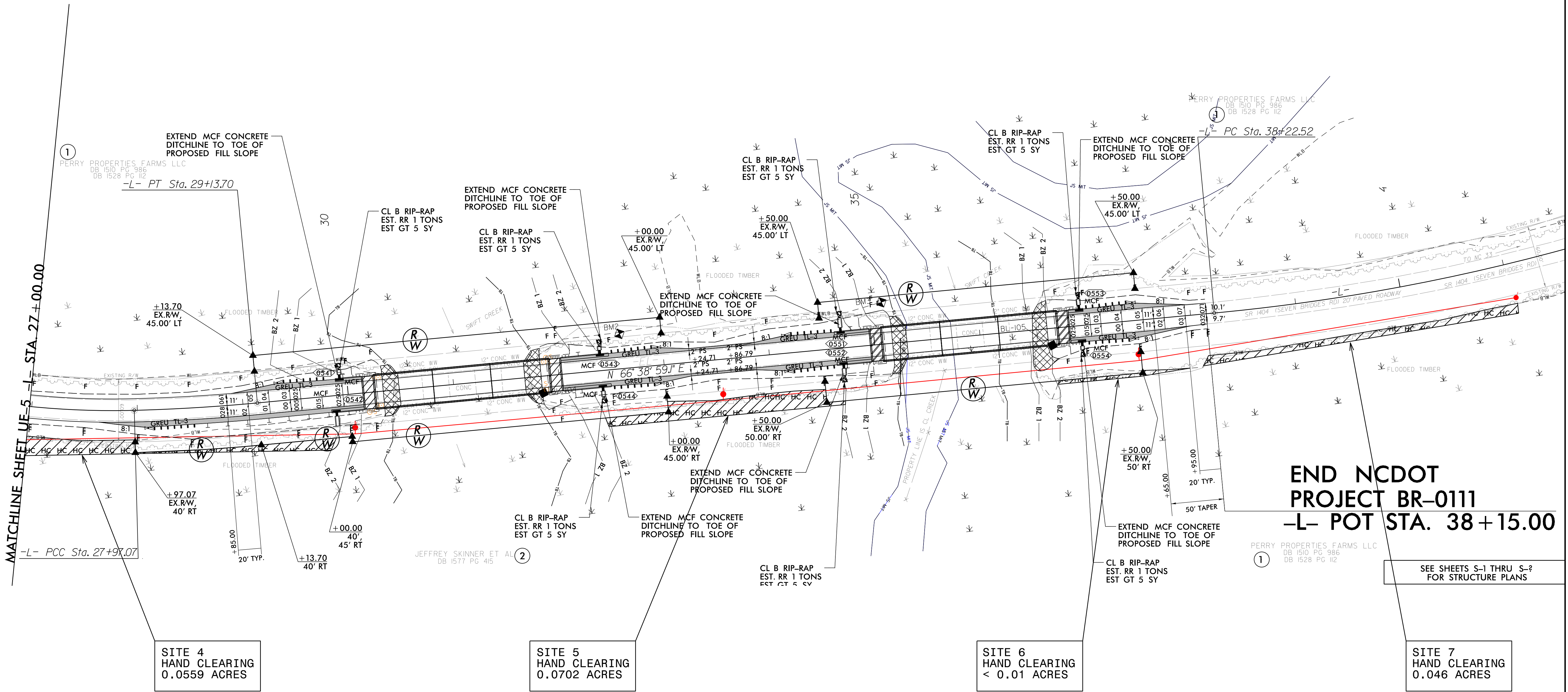
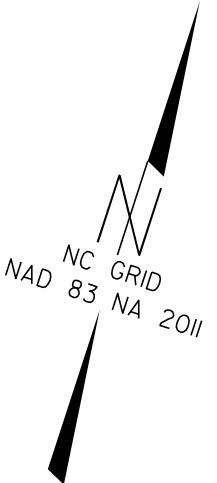


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Raleigh, N.C. 27606  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PERMIT DRAWING  
SHEET 3 OF 3  
UTILITIES

# UTILITY PERMIT PLANS WETLAND IMPACTS

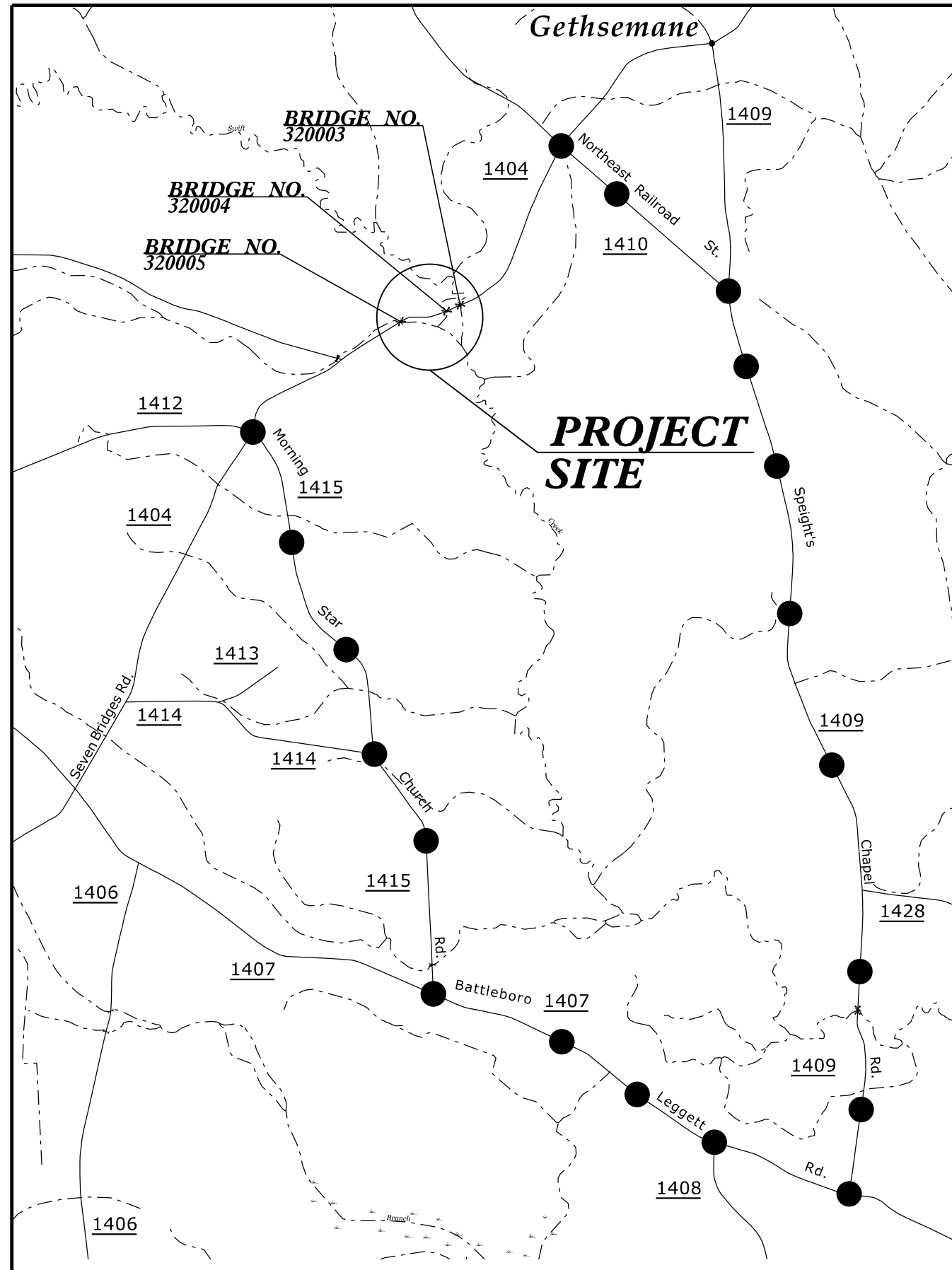




09/08/2011

See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols  
See Sheet 1C-1 TO 1C-2 For Survey Control Sheets

TIP PROJECT: BR-0111



## VICINITY MAP

OFF-SITE DETOUR ●●●●●

TO SR 1407 (BATTLEBORO-LEGETT RD)



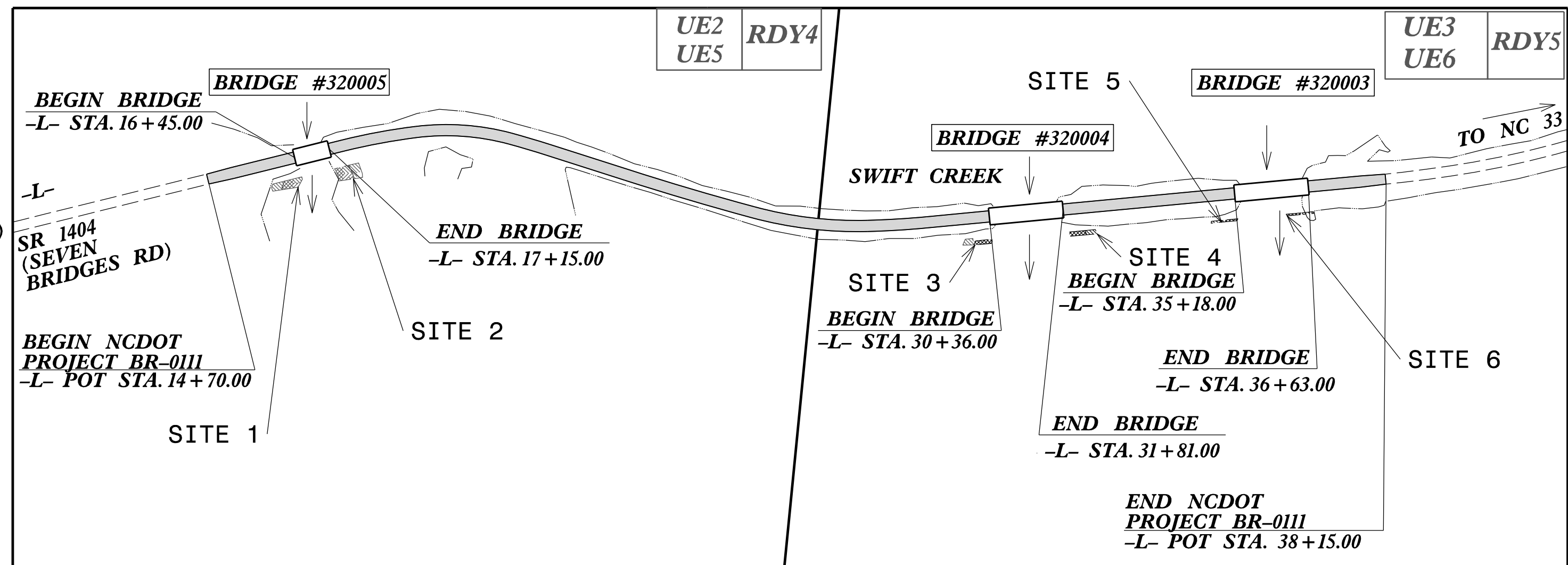
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITY PERMIT DRAWINGS EDGECOMBE COUNTY

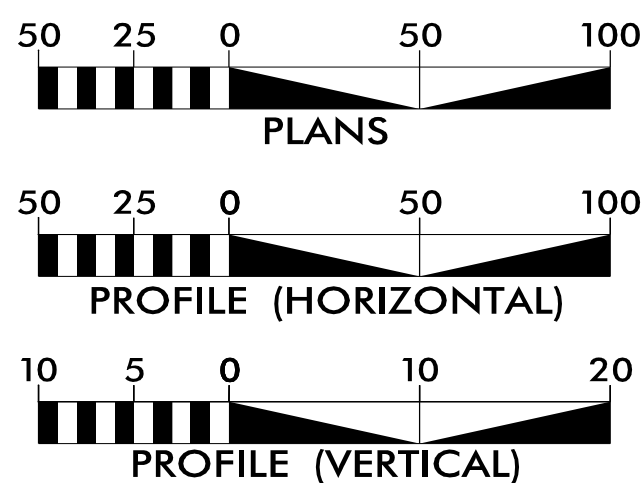
LOCATION: BRIDGE NO. 320003, 320004, AND 320005 OVER SWIFT CREEK  
ON SR 1404 (SEVEN BRIDGES RD.)

TYPE OF WORK: RELOCATION OF POWER AND COMMUNICATION LINES

### BUFFER IMPACTS



### GRAPHIC SCALES



### INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UE-1	UE BUFFER IMPACTS TITLE SHEET
UE-2 THRU UE-3	UE BUFFER IMPACTS PLAN SHEETS
UE-4	UE WETLAND IMPACTS TITLE SHEET
UE-5 THRU UE-6	UE WETLAND IMPACTS PLAN SHEETS

### UTILITY OWNERS WITH CONFLICTS

- (A) POWER - EDGECOMBE-MARTIN CO EMC  
(B) COMMUNICATION - SUDDENLINK

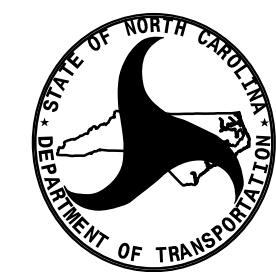
PREPARED IN THE OFFICE OF:



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

Tyron Stallings PROJECT UTILITY COORDINATOR



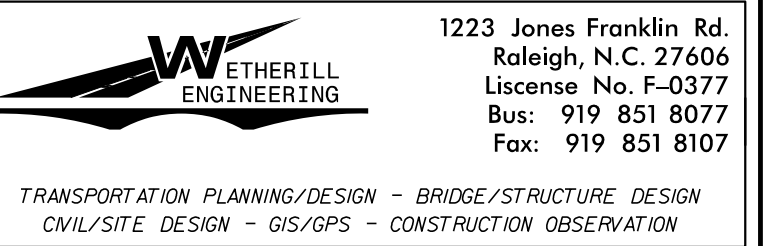
DIVISION OF HIGHWAYS  
UTILITIES UNIT  
1555 MAIL SERVICES CENTER  
RALEIGH NC 27699-1555  
PHONE (919) 707-5690  
FAX (919) 250-4151

Nabil Hamdan	UTILITIES REGIONAL ENGINEER
Kelvin Martin EI	UTILITIES ENGINEER
Kyle Pleasant	UTILITIES AREA COORDINATOR
Larry James	UTILITIES COORDINATOR

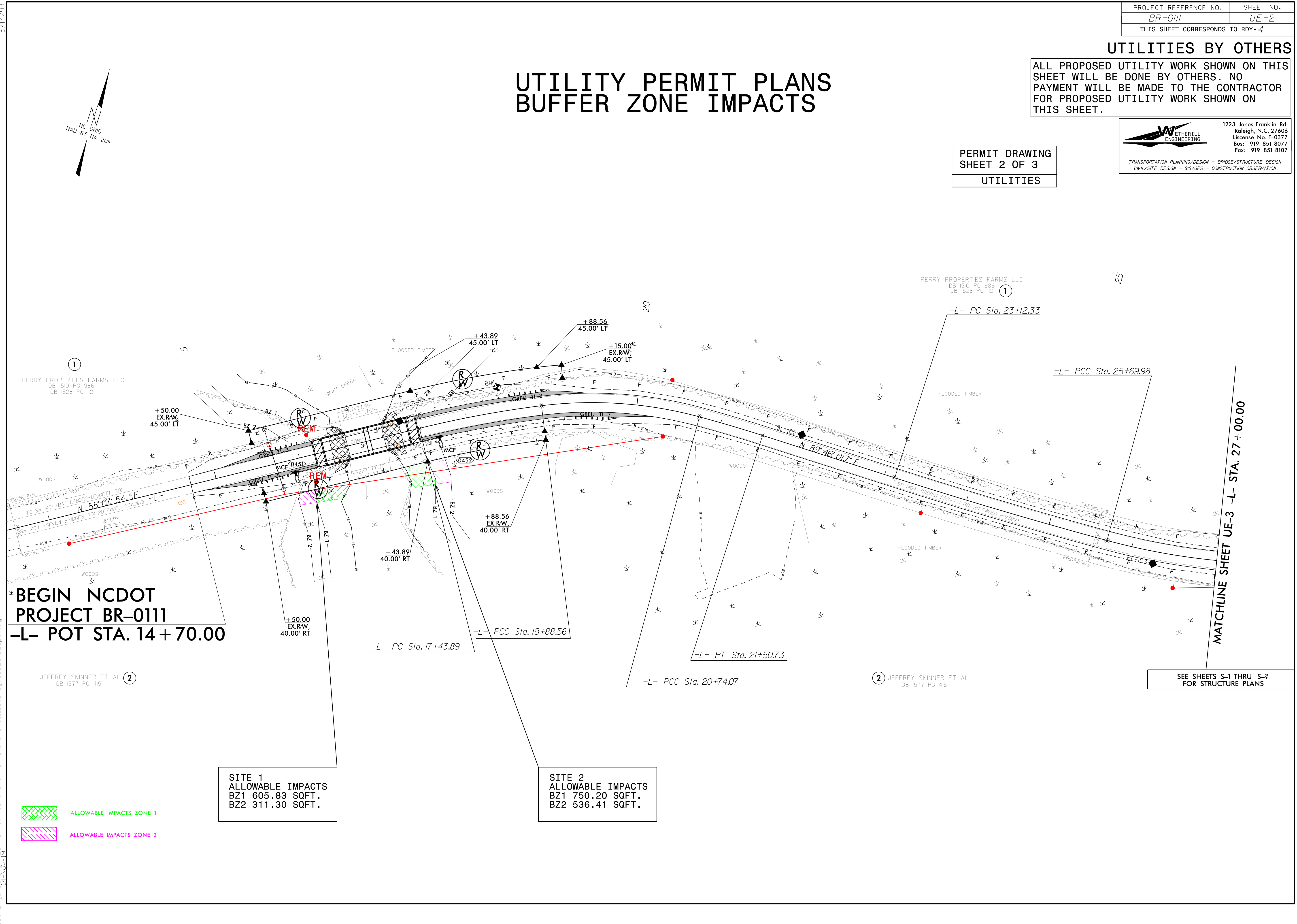


## UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



PERMIT DRAWING SHEET 2 OF 3
UTILITIES



5/14/99

5:22:45 PM  
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PROJECT REFERENCE NO.	SHEET NO.
BR-0111	UE-3
THIS SHEET CORRESPONDS TO RDY-5	

# UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

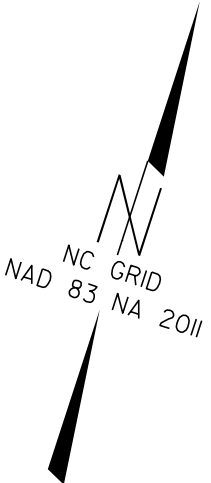


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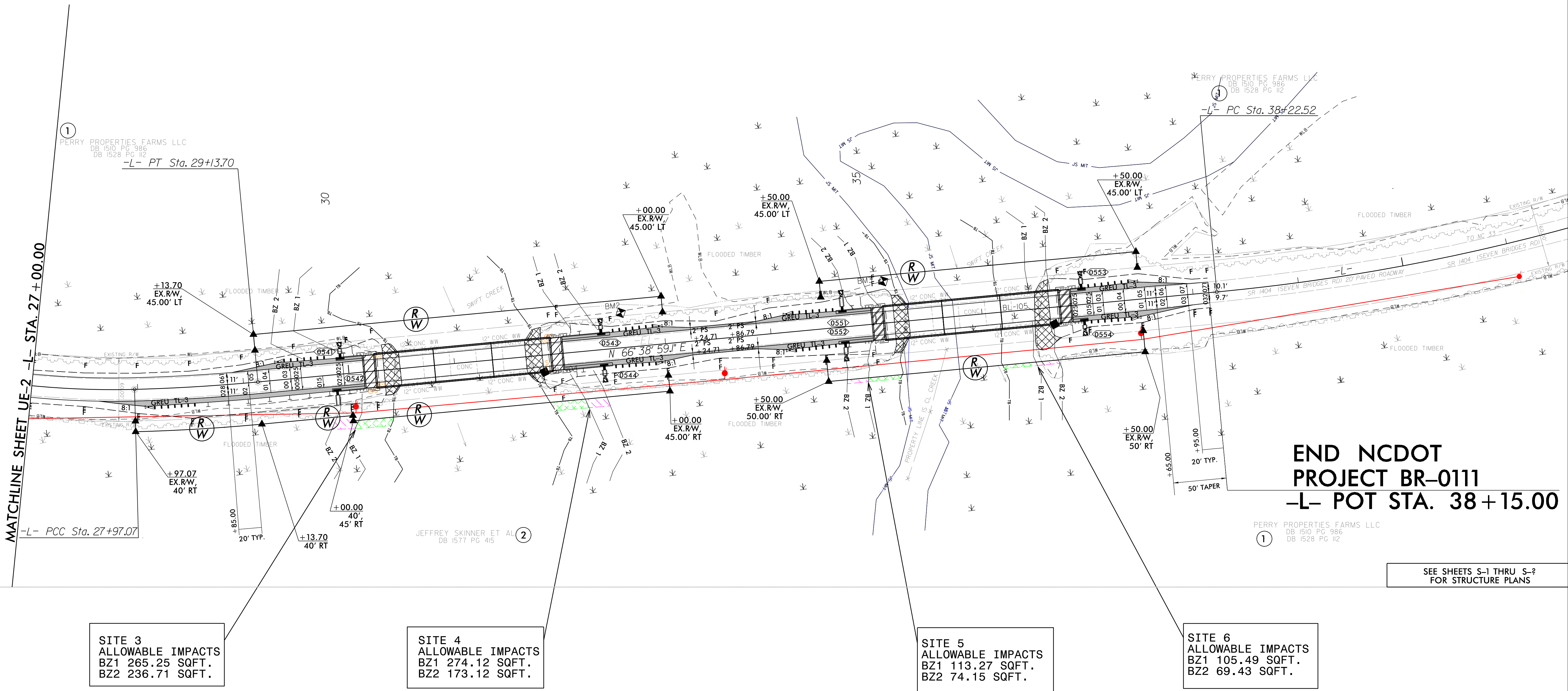
PERMIT DRAWING  
SHEET 3 OF 3  
UTILITIES

# UTILITY PERMIT PLANS BUFFER ZONE IMPACTS



ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2





UTILITY BUFFER IMPACTS SUMMARY	
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[illegible]

N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

EDGECOMBE COUNTY  
PROJECT: 67111.1.1 (BR-0111)

15-Nov-2019  
SHEET 1 OF 1