



Pre-Construction Notification (PCN) Form

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

October 2, 2023 Ver 4.3

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/DocView.aspx?dbid=0&id=2196924>

A. Processing Information



Pre-Filing Meeting Date Request was submitted on: *

6/30/2023

If this is a courtesy copy, please fill in this with the submission date.

Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity? *

Yes No

Is this project connected with ARPA funding? *

Yes No

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

Beaufort

Is this a NCDMS Project? *

Yes No

Click Yes, only if NCDMS is the applicant or co-applicant.

DON'T CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT.

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-0005

WBS # *

67005.1.1

(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)

Has this PCN previously been submitted? *

Yes
 No

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

- Nationwide Permit (NWP)
- Regional General Permit (RGP)
- Standard (IP)

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

Yes No

Regional General Permit (RGP) Number:

201902350 - Work associated with bridge construction, widening, replacement, and interchanges

RGP Numbers (for multiple RGPS):

List all RGP 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 401 Water Quality Certification
- 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

FILE TYPE MUST BE PDF

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

Yes No

1i. Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

Yes No Unknown

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? *

Deanna Riffey

1b. Primary Contact Email: *

driffey@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6151

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. Contact Person:

(for Corporations)

2d. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6151

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

jdilday@ncdot.gov

3. Applicant Information (if different from owner)

3a. Name: *

Deanna Riffey

3b. Business Name:

(if applicable)

3c. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

3d. Telephone Number: *

(919)707-6151

(xxx)xxx-xxxx

3e. Fax Number:

(xxx)xxx-xxxx

3f. Email Address: *

driffey@ncdot.gov

C. Project Information and Prior Project History



1. Project Information



1a. Name of project: *

BR-0005

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Chocowinity

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

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: *

35.501797

ex: 34.208504

Longitude: *

-77.080512

-77.796371

3. Surface Waters

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

Chocowinity Creek

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

C;SW, NSW (Upstream side of bridge) SC, NSW (Downstream)

[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. *

030201040102

[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: *

Project No. BR-0005 proposes to replace Bridge No. 75 on NC 33 over Chocowinity Creek.

The existing bridge is a 4 span two lane concrete bridge that is 169 feet long and 11 to 12 foot wide lanes with 1 to 2 foot shoulders.

Land use in the project study area is a combination of maintained roadsides, several residential homes, agriculture, and undeveloped natural areas. The project study area is rural with maintained/mowed road right-of-way, open stream channel flanked by floodplain and several wetlands with interspersed residential homes and one gas station.

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

Yes No Unknown

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

13.92

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

(intermittent and perennial)

1,148

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

The purpose of the proposed project is to replace bridge #75 that is functionally obsolete.

The purpose of the additional road improvements is to improve traffic operations and safety at the NC 33/SR 1114 (Old Blounts Creek Road) intersection by providing dedicated turn lanes and an additional westbound lane along NC 33. There is a large volume of vehicles that turn right onto NC 33 westbound from SR 1114 (Old Blounts Creek Road).

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

The bridge will be replaced on the existing alignment while detouring traffic onsite during construction utilizing a detour bridge that will be located south of the existing bridge. The detour bridge will be approximately 300 foot long and temporary impacts are anticipated for the detour bridge bents.

Improvements include widening the bridge and roadway section along with adding guardrail. The new bridge will be a 4 span three lane concrete bridge with 12 foot wide lanes that is 220 feet long. There is an additional westbound lane that is proposed along with and a variable turn lane that is located on both sides of the bridge location.

It is anticipated that Bridge #75 can be demolished and constructed using a combination of top down methods and a work bridge located in the footprint of the existing bridge to remove and install the center bent.

Standard road building equipment, such as trucks, bulldozers, and cranes will be used.

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

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

Name (if known): Connor Makepeace

Agency/Consultant Company: Mead & Hunt

Other:

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

After Field Scoping Meeting on November 28, 2018, jurisdictional features were verified by Tom Steffens (USACE) and Garcy Ward (DWR).

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	Roadway fill	P	Riverine Swamp Forest	WB	Yes	Both	0.001 (acres)
Site 2	Work Bridge	T	Riverine Swamp Forest	WB	Yes	Both	0.061 (acres)
Site 2	Detour Bridge	T	Riverine Swamp Forest	WB	Yes	Both	0.055 (acres)
Site 2	Power Pole Install	P	Riverine Swamp Forest	WC	Yes	Both	0.010 (acres)
Site 3	Excavation	P	Riverine Swamp Forest	WC	Yes	Both	0.003 (acres)
Site 4	Roadway Fill	P	Riverine Swamp Forest	WB & WE	Yes	Both	0.294 (acres)
Site 4	Detour Fill	T	Riverine Swamp Forest	WB & WE	Yes	Both	0.306 (acres)

2g. Total Temporary Wetland Impact

0.422

2g. Total Permanent Wetland Impact

0.308

2g. Total Wetland Impact

0.730

2i. Comments:

There will be hand clearing in wetlands at Site 1 (WB): 0.004 ac to get to fill area for roadway & Utilities: 0.34 ac for clearing for overhead power line and potential temporary matting, Site 2 Utilities (WC): 0.14 ac for clearing for overhead power line, Site 3 (WC): 0.004 ac for base ditch, Site 3 Utilities (WE): 0.06 ac for clearing for overhead power line, Site 4 (WE): 0.034 ac for roadway embankment area, and Site 4 (WE): 0.006 ac for RCP outfall install, and Site 4(WB) Detour: 0.071 ac to get to fill area for detour roadway.

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 [*]	3h. Impact length [*]
S1	Site 3	Permanent	Fill	Chocowinity Creek	Perennial	DWR	114 Average (feet)	23 (linear feet)
S2	Site 3	Temporary	Other	Chocowinity Creek	Perennial	DWR	114 Average (feet)	14 (linear feet)
S3	Site 4 -Detour	Temporary	Other	Chocowinity Creek	Perennial	DWR	49 Average (feet)	31 (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:

23

3i. Total temporary stream impacts:

45

3i. Total stream and ditch impacts:

68

3j. Comments:

Other = Bank Reconstruction above the permanent bridge and below the detour bridge. Bank reconstruction will use native materials to replace bank areas if necessary.

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Site # [*] (?)	4a1. Impact Reason	4b. Impact type [*] (?)	4c. Name of waterbody (?)	4d. Activity type [*]	4e. Waterbody type [*]	4f. Impact area [*]
Site 2	Work Bridge	T	Chocowinity Creek	Bridge	Tributary	0 (acres)
Site 2	Detour bridge	T	Chocowinity Creek	Bridge	Tributary	0 (acres)

4g. Total temporary open water Impacts:

0.00

4g. Total permanent open water impacts:

0.00

4g. Total open water impacts:

0.00

4h. Comments:

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 [*]
Allowable- Bridge	P	Chocowinity	No	5,215 (square feet)	2,673 (square feet)
Allowable - Drainage Conveyance	P	Chocowinity	No	1,665 (square feet)	1,049 (square feet)
Allowable - Matting for Pole Removal	T	Chocowinity	No	124 (square feet)	12 (square feet)
Allowable- Aerial Line	T	Chocowinity	No	1,413 (square feet)	833 (square feet)
Allowable- Detour Bridge	T	Chocowinity	No	3,893 (square feet)	1,290 (square feet)

6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	5,430.00	2,135.00

	Zone 1	Zone 2
Total Permanent impacts:	6,880.00	3,722.00

	Zone 1	Zone 2
Total combined buffer impacts:	12,310.00	5,857.00

6i. 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: *

Design Standards in Sensitive Watersheds will be implemented.

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

Swales will be used for stormwater treatment as well as riprap energy dissapator basins for treatment prior to going offsite. 4:1 slopes are used throughout the majority of the project along with use of 3:1 slopes in the vicinity of the bridge to minimize wetland impacts. Sheet piling will be used in the construction of the on-site detour and for the detour bridge to minimize the temporary fill in wetlands. There is an anadromous fish in water work moratorium identified for February 15th - June 30th.

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)

23

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

warm

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)

4e. Riparian wetland mitigation requested:

(acres)

0.31

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

6. Buffer mitigation (State Regulated Riparian Buffer Rules) - required by DWR

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation? If yes, you must fill out this entire form - please contact DWR for more information.

Yes No

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](#).

2. Stormwater Management Plan

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

Yes No

2b. Does this project meet the requirements for low density projects as defined in 15A NCAC 02H .1003(2)? *

Yes No

To look up low density requirement click here [15A NCAC 02H .1003\(2\)](#).

2c. Does this project have a stormwater management plan (SMP) reviewed and approved under a state stormwater program or state-approved local government stormwater program? *

Yes No
 N/A - project disturbs < 1 acre

Hint: projects that have vested rights, exemptions, or grandfathering from state or locally implemented stormwater programs or projects that satisfy state or locally-implemented stormwater programs through use of community in-lieu programs should answer no to this question.

2d. Which of the following stormwater management program(s) apply (check all that apply): *

Local Government State

If you have a local government approval please include the SMP on their overall impact map.

State Stormwater Programs *

Phase II
 HWQ or ORW

Coastal Counties

Other

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

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, this project will neither influence nearby land uses nor stimulate growth.

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? *

NC Natural Heritage Program database, USFWS Raleigh Field Office and IPaC (Information for Planning and Consultation) website.

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 - EFH Fish Mapper

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? *

Historic Architecture and Landscapes No survey Required Form 1/22/2018 and No National Register of Historic places eligible or listed Archaeological Sites Present Form 8/17/2018.

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:

Project falls in the designated Zone AE . Coordination between NCDOT Hydraulics Unit and FEMA.

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

FEMA Floodplain Mapping

Miscellaneous

Comments

There is an anadromous fish in water work moratorium identified for February 15th - June 30th. The Programmatic Biological Opinion (PBO) will be used for Northern long-eared bat due to project location in Divisions 1-8. Construction activities will adhere to the guidelines outlined in Guidelines for Avoiding Impacts to the West Indian Manatee Precautionary Measures for Construction Activities in North Carolina Waters (2003 USFWS).

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

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

BR-0005_attachments.pdf

24.16MB

File must be PDF or KMZ

Signature

*

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

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- 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: *

Jason L Dilday

Signature *

Jason L Dilday

Date

11/17/2023



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

November 17, 2023

NC Dept. of Environmental Quality
Division of Coastal Management
400 Commerce Street
Morehead City, NC 28557

ATTN: Mr. Stephen Lane, NCDOT Coordinator

Subject: **Application for CAMA Major Permit** for the proposed replacement of Bridge Number 75 on US 33 over Chocowinity Creek in Beaufort County; TIP No. BR-0005; Debit \$475 from WBS No. 67005.1.1

Dear Mr. Lane:

The Department requests authorization for the proposed replacement of Bridge Numbers 75 on US 33 over Chocowinity Creek.

Please see enclosed copies of the Division of Coastal Management Major Permit Forms 1, 2, and 5 along with and permit plans and roadway plans for the above referenced project.

A Categorical Exclusion was completed in May 2022 and distributed shortly thereafter. A digital copy is available at the NCDOT website:

https://xfer.services.ncdot.gov/pdea/EnvironmentalDocs/Documents/STIP_BR_Projects/BR-0005%20Beaufort%2075_CE.pdf

NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Permit. Adjacent riparian landowner certified mail return receipts will be provided once they are received.

A copy of this permit application will be posted on the NCDOT Website at <https://xfer.services.ncdot.gov/pdea/PermApps/>. Should you have any questions regarding this application, please contact me at (919) 707-6111 or jldilday@ncdot.gov.

Sincerely,

A handwritten signature in cursive script that reads "Jason L. Dilday".

Jason Dilday, Eastern Regional Team Lead
Environmental Coordination and Permitting Group

APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information				
Business Name		Project Name (if applicable) BR-0005		
Applicant 1: First Name Deanna		MI	Last Name Riffey	
Applicant 2: First Name N/A		MI N/A	Last Name N/A	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>				
Mailing Address Environmental Analysis Unit, 1598 Mail Service Center		PO Box	City Raleigh	State NC
ZIP 27610	Country USA	Phone No. 919 - 707 - 6151 ext.		FAX No. - -
Street Address (if different from above) EAU - Centery Center A, 1000 Birch Ridge Drvie		City Raleigh	State NC	ZIP 27610-
Email driffey@ncdot.gov				

2. Agent/Contractor Information				
Business Name N/A				
Agent/ Contractor 1: First Name		MI	Last Name	
Agent/ Contractor 2: First Name		MI	Last Name	
Mailing Address		PO Box	City	State
ZIP		Phone No. 1 - - ext.		Phone No. 2 - - ext.
FAX No.		Contractor #		
Street Address (if different from above)		City	State	ZIP -
Email				

<Form continues on back>

3. Project Location			
County (can be multiple) Beaufort County	Street Address NC 33	State Rd. #	
Subdivision Name NA	City Chocowinity	State NC	Zip 27817 -
Phone No. - - ext.		Lot No.(s) (if many, attach additional page with list) , , , ,	
a. In which NC river basin is the project located? Tar-Pamlico Basin		b. Name of body of water nearest to proposed project Chocowinity Creek	
c. Is the water body identified in (b) above, natural or manmade? <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Manmade <input type="checkbox"/> Unknown		d. Name the closest major water body to the proposed project site. Chocowinity Bay	
e. Is proposed work within city limits or planning jurisdiction? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. Chocowinity	

4. Site Description	
a. Total length of shoreline on the tract (ft.) 246	b. Size of entire tract (sq.ft.) 562,222
c. Size of individual lot(s) N/A, (If many lot sizes, please attach additional page with a list)	d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 7ft <input checked="" type="checkbox"/> NHW or <input type="checkbox"/> NWL
e. Vegetation on tract Maintained/Disturbed and Agriculture: Lawns, fields, and roadside shoulders are mostly open areas of with bluegrass, corn, tobacco, soybeans, and fescue; Mixed Hardwood/Pine Forest consisting of loblolly pine, tulip poplar, and mockernut hickory; Blackwater River Floodplain Forest: consisting of bald cypress, black tupelo, and red maple.	
f. Man-made features and uses now on tract Features are: NC 33, Bridge BR-0005, electric, cable, sewer, and water utility lines. Uses are: transportation.	
g. Identify and describe the existing land uses adjacent to the proposed project site. Land use in the project study area is a combination of maintained roadsides, residential, farmland, and undeveloped natural areas.	
h. How does local government zone the tract? Residential	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
j. Is the proposed activity part of an urban waterfront redevelopment proposal? <input type="checkbox"/>Yes <input checked="" type="checkbox"/>No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. <input checked="" type="checkbox"/>Yes <input type="checkbox"/>No <input type="checkbox"/>NA If yes, by whom? NCDOT Cultural Resources	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? <input type="checkbox"/>Yes <input checked="" type="checkbox"/>No <input type="checkbox"/>NA	

<Form continues on next page>

m. (i) Are there wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(ii) Are there coastal wetlands on the site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

n. Describe existing wastewater treatment facilities. N/A
o. Describe existing drinking water supply source. N/A
p. Describe existing storm water management or treatment systems. NA - no existing storm water management or treatment systems

5. Activities and Impacts	
a. Will the project be for commercial, public, or private use?	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Public/Government <input type="checkbox"/> Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. Replace Bridge No. 75 over Chocowinity Creek on NC 33 and add an additional westbound lane to NC 33 from Old Blounts Creek Road to Gray Road/Poore Farm Road intersection to tie into the existing lane at US 17 interchange.	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. Standard construction machinery for a bridge replacement project will be determined by the contractor. Number of pieces of equipment and laydown area to be determined by the contractor but it would not be within wetland boundaries.	
d. List all development activities you propose. Roadway widening, bridge replacement, drainage improvements, erosion control measures, utility relocation and signal installation.	
e. Are the proposed activities maintenance of an existing project, new work, or both?	New work.
f. What is the approximate total disturbed land area resulting from the proposed project?	12.8 <input type="checkbox"/> Sq.Ft or <input checked="" type="checkbox"/> Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
h. Describe location and type of existing and proposed discharges to waters of the state. A roadway ditch discharges directly into Chocowinity Creek in the northern quadrant of the bridge with non-erosive velocities, replacing an existing ditch and maintaining existing flow patterns. A roadway ditch in the eastern quadrant of the bridge daylights prior to direct discharge into Chocowinity Creek, replacing an existing ditch and maintaining existing flow patterns.	
i. Will wastewater or stormwater be discharged into a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
If yes, will this discharged water be of the same salinity as the receiving water?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
j. Is there any mitigation proposed? If yes, attach a mitigation proposal.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

<Form continues on back>

6. Additional Information	
<i>In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.</i>	
a. A project narrative.	
b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.	
c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.	

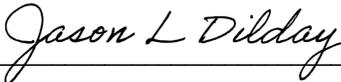
d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
e. The appropriate application fee. Check or money order made payable to DENR.
f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management. Name See Attached List Phone No. Address Name Phone No. Address Name Phone No. Address
g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.
h. Signed consultant or agent authorization form, if applicable.
i. Wetland delineation, if necessary.
j. A signed AEC hazard notice for projects in oceanfront and inlet areas. <i>(Must be signed by property owner)</i>
k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.

I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date 11/17/2023 Print Name Jason L Dilday
 Signature 

Please indicate application attachments pertaining to your proposed project.

- DCM MP-2 Excavation and Fill Information
 DCM MP-5 Bridges and Culverts
 DCM MP-3 Upland Development
 DCM MP-4 Structures Information

EXCAVATION and FILL

(Except for bridges and culverts)

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

Describe below the purpose of proposed excavation and/or fill activities. **All values should be given in feet.**

	Access Channel (NLW or NWL)	Canal	Boat Basin	Boat Ramp	Rock Groin	Rock Breakwater	Other (excluding shoreline stabilization)
Length							
Width							
Avg. Existing Depth					NA	NA	
Final Project Depth					NA	NA	

1. EXCAVATION This section not applicable

- a. Amount of material to be excavated from below NHW or NWL in cubic yards. _____
- b. Type of material to be excavated. _____
- c. (i) Does the area to be excavated include coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL _____ None _____
- d. High-ground excavation in cubic yards. _____
- (ii) Describe the purpose of the excavation in these areas:

2. DISPOSAL OF EXCAVATED MATERIAL This section not applicable

- a. Location of disposal area. _____
- b. Dimensions of disposal area. _____
- c. (i) Do you claim title to disposal area?
 Yes No NA
- d. (i) Will a disposal area be available for future maintenance?
 Yes No NA
- (ii) If no, attach a letter granting permission from the owner. _____
- (ii) If yes, where? _____
- e. (i) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL _____ None _____
- f. (i) Does the disposal include any area in the water?
 Yes No NA
- (ii) If yes, how much water area is affected? _____
- (ii) Describe the purpose of disposal in these areas:

3. SHORELINE STABILIZATION

This section not applicable

(If development is a wood groin, use MP-4 – Structures)

- a. Type of shoreline stabilization:
 Bulkhead Riprap Breakwater/Sill Other: Bank Reconstruction
- b. Length: Bridge - 346 ft ; Detour Bridge - 245
 Width: Avg 5 ft
- c. Average distance waterward of NHW or NWL: _____
- d. Maximum distance waterward of NHW or NWL: 5ft
- e. Type of stabilization material:
 Bank reconstruction following construction activities - native bank material will be utilized to repair any damage due to construction activities to the extent practicable. No fill material is to be placed below the normal high water level.
- f. (i) Has there been shoreline erosion during preceding 12 months?
 Yes No NA
 (ii) If yes, state amount of erosion and source of erosion amount information.
 Site not monitored/surveyed for erosion. No reports of erosion received.
- g. Number of square feet of fill to be placed below water level.
 Bulkhead backfill _____ Riprap _____
 Breakwater/Sill _____ Other _____
- h. Type of fill material.
N/A
- i. Source of fill material.
N/A

4. OTHER FILL ACTIVITIES

This section not applicable

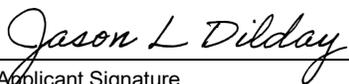
(Excluding Shoreline Stabilization)

- a. (i) Will fill material be brought to the site? Yes No NA
 If yes,
 (ii) Amount of material to be placed in the water _____
 (iii) Dimensions of fill area _____
 (iv) Purpose of fill _____
- b. (i) Will fill material be placed in coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL _____ None
 (ii) Describe the purpose of the fill in these areas: _____

5. GENERAL

- a. How will excavated or fill material be kept on site and erosion controlled?
 A combination of silt fence and erosion control devices will be used to control sediments.
- b. What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)?
cranes, excavators, bulldozer
- c. (i) Will navigational aids be required as a result of the project?
 Yes No NA
 (ii) If yes, explain what type and how they will be implemented.
- d. (i) Will wetlands be crossed in transporting equipment to project site? Yes No NA
 (ii) If yes, explain steps that will be taken to avoid or minimize environmental impacts.

11/17/2023
 Date
 BR-0005
 Project Name

Jason L Dilday
 Applicant Name

 Applicant Signature

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1. BRIDGES This section not applicable

a. Is the proposed bridge:
 Commercial Public/Government Private/Community

c. Type of bridge (construction material):
Superstructure - Prestressed concrete girders with a concrete deck. Substructure - End bents are concrete caps on steel H-piles; Bents are concrete caps on prestressed concrete piles

e. (i) Will proposed bridge replace an existing bridge? Yes No
If yes,
(ii) Length of existing bridge: 169'
(iii) Width of existing bridge: 28'
(iv) Navigation clearance underneath existing bridge: 4.2'
(v) Will all, or a part of, the existing bridge be removed?
(Explain) Yes, entire existing bridge will be removed and replaced. Contractor may use a workbridge within the footprint of the bridge to assist with demo or interior bent installation.

g. Length of proposed bridge: 220'
i. Will the proposed bridge affect existing water flow? Yes No
If yes, explain: 50-year (design year) WSE is not affected. 100-year WSE is reduced due to increased flow area.

k. Navigation clearance underneath proposed bridge: 4.5'

m. Will the proposed bridge cross wetlands containing no navigable waters? Yes No
If yes, explain:

b. Water body to be crossed by bridge:
Chocowinity Creek

d. Water depth at the proposed crossing at NLW or NWL:
5.1'

f. (i) Will proposed bridge replace an existing culvert? Yes No
If yes,
(ii) Length of existing culvert: _____
(iii) Width of existing culvert: _____
(iv) Height of the top of the existing culvert above the NHW or NWL: _____
(v) Will all, or a part of, the existing culvert be removed?
(Explain)

h. Width of proposed bridge: 52.8'
j. Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? Yes No
If yes, explain: The navigable opening will be increased in width and height. The proposed low steel is a couple hundredths of a foot above existing low steel.

l. Have you contacted the U.S. Coast Guard concerning their approval? Yes No
If yes, explain: NCDOT received an Advance Approval from the Coast Guard.

n. Height of proposed bridge above wetlands: N/A

2. CULVERTS This section not applicable

a. Number of culverts proposed: _____ b. Water body in which the culvert is to be placed:

< Form continues on back >

Form DCM MP-5 (Bridges and Culverts, Page 2 of 4)

c. Type of culvert (construction material):

d. (i) Will proposed culvert replace an existing bridge? Yes No

If yes,

(ii) Length of existing bridge: _____

(iii) Width of existing bridge: _____

(iv) Navigation clearance underneath existing bridge: _____

(v) Will all, or a part of, the existing bridge be removed? (Explain)

e. (i) Will proposed culvert replace an existing culvert? Yes No

If yes,

(ii) Length of existing culvert(s): _____

(iii) Width of existing culvert(s): _____

(iv) Height of the top of the existing culvert above the NHW or NWL: _____

(v) Will all, or a part of, the existing culvert be removed? (Explain)

f. Length of proposed culvert: _____

h. Height of the top of the proposed culvert above the NHW or NWL.

g. Width of proposed culvert: _____

i. Depth of culvert to be buried below existing bottom contour.

j. Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? Yes No

If yes, explain:

k. Will the proposed culvert affect existing water flow? Yes No

If yes, explain:

3. EXCAVATION and FILL

This section not applicable

a. (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? Yes No

If yes,

(ii) Avg. length of area to be excavated: _____

(iii) Avg. width of area to be excavated: _____

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

b. (i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

CW _____ SAV _____ SB _____

WL 116 sq. ft. None

(ii) Describe the purpose of the excavation in these areas:

The proposed bridge approach fill slope covers an existing ditch in the northwest quadrant of the bridge. The proposed ditch that replaces conveyance to Chocowinity Creek traverses through a sliver of wetland at the confluence with Chocowinity Creek.

c. (i) Will the placement of the proposed bridge or culvert require any high-ground excavation? Yes No

If yes,

(ii) Avg. length of area to be excavated: 60ft at EB1 and 60ft at EB2

(iii) Avg. width of area to be excavated: 25'

(iv) Avg. depth of area to be excavated: 5'

(v) Amount of material to be excavated in cubic yards: 560

Form DCM MP-5 (Bridges and Culverts, Page 3 of 4)

d. If the placement of the bridge or culvert involves any excavation, please complete the following:

(i) Location of the spoil disposal area: To be determined by Contractor

(ii) Dimensions of the spoil disposal area: To be determined by Contractor

(iii) Do you claim title to the disposal area? Yes No (If no, attach a letter granting permission from the owner.)

(iv) Will the disposal area be available for future maintenance? Yes No

(v) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAVs), other wetlands (WL), or shell bottom (SB)?

CW SAV WL SB None

If any boxes are checked, give dimensions if different from (ii) above.

(vi) Does the disposal area include any area below the NHW or NWL? Yes No

If yes, give dimensions if different from (ii) above.

e. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? Yes No

If yes,

(ii) Avg. length of area to be filled: _____

(iii) Avg. width of area to be filled: _____

(iv) Purpose of fill: _____

f. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

CW _____ SAV _____ SB _____

WL 31,363.2 sq. ft. None

(ii) Describe the purpose of the excavation in these areas:

Roadway fill for proposed roadway and proposed temporary detour.

g. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? Yes No

If yes,

(ii) Avg. length of area to be filled: 2725 ft

(iii) Avg. width of area to be filled: 25 ft

(iv) Purpose of fill: Proposed roadway embankment. Average width is average proposed roadway widening width beyond existing roadway embankment, average length is along the total length of proposed roadway widening.

4. GENERAL

a. Will the proposed project require the relocation of any existing utility lines? Yes No

If yes, explain: Underground - 2 water lines, 2 sanitary sewer lines; Above Ground - Power and communication lines.

If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

b. Will the proposed project require the construction of any temporary detour structures? Yes No

If yes, explain: Detour bridge will be utilized to the south of the existing bridge. It will be 300ft long and 36ft wide. The detour bridge is 0.37' lower at the location of the end bent of the existing bridge at -LDET- Sta 38+98 +/- . It is 0.66' lower at the beginning of the detour bridge at -LDET- Sta. 38+00 which is before the limits of the stream. It is designed to meet the minimum freeboard requirements for the 10 yr. storm and not adversely affect the 100 yr. storm when in place. There will most likely be bents in stream/wetland with detour bridge being 300ft long. The contractor is responsible for the design and construction of the detour bridge. Temp. wetland & stream impacts for all areas within footprint of the detour bridge are shown as recommended by

Division 2 area construction engineer. Geotextile will be placed prior to the detour fill. Temporary shoring will be used for the detour slopes as noted on permit plans 2-6 of 30.

< Form continues on back >

c. Will the proposed project require any work channels?
 Yes No
If yes, complete Form DCM-MP-2.

d. How will excavated or fill material be kept on site and erosion controlled?
Contractor to manage material as required by state and federal specifications and regulations.

e. What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?
Standard construction machinery for a bridge replacement project will be determined by the contractor.

f. Will wetlands be crossed in transporting equipment to project site?
 Yes No
If yes, explain steps that will be taken to avoid or minimize environmental impacts.

g. Will the placement of the proposed bridge or culvert require any shoreline stabilization?
 Yes No
If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

11/17/2023

Date

BR-0005

Project Name

Jason L Dilday

Applicant Name

Jason L Dilday

Applicant Signature

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS					
(Version 3.00; Released August 2021)							
WBS Element: 67005.1.1		TIP/Proj No: BR-0005		County(ies): Beaufort		Page 1 of 4	
General Project Information							
WBS Element: 67005.1.1		TIP Number: BR-0005		Project Type: Bridge Replacement		Date: 10/6/2023	
NCDOT Contact: David Stutts		Contractor / Designer: Mead & Hunt/ Brad Smith, PE					
Address: Structures Management Unit 1000 Birch Ridge Drive Raleigh, NC 27610 Phone: (919)-707-6442 Email: dstutts@ncdot.gov		Address: 111 E Hargett St., Suite 300 Raleigh, NC 27601 Phone: (919)-355-0599 Email: brad.smith@meadhunt.com					
City/Town: Town of Chocowinity		County(ies): Beaufort					
River Basin(s): Tar-Pamlico		CAMA County?: Yes					
Wetlands within Project Limits? Yes							
Project Description							
Project Length (lin. miles or feet): 0.63		Surrounding Land Use: Mostly Rural/Agricultural with some development and single family homes					
Proposed Project				Existing Site			
Project Built-Upon Area (ac.): 3.9 ac.				2.6 ac.			
Typical Cross Section Description:		4 lane NC route with 3 12' lanes and a variable turn lane. It includes 4' full depth paved shoulders. Guardrail is connected to both ends of the bridge. Fill slopes vary 3:1 to 4:1. The main bridge has 6' and 7.5' shoulders, and the detour has 4' shoulders.			2 lane NC route with about 11'-12' wide lanes with 1'-2' shoulder widths.		
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 11310		Year: 2042		Existing: 4400	
						Year: 2017	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		The proposed project (BR-0005) involves replacing the main bridge (060075) along route NC 33 in Beaufort County. Improvements include a proposed widened bridge and roadway section along with adding guardrail. No deck drains will be placed on the proposed bridge. The project starts between SR 1131 (Poore Farm Rd.) and SR 1123 (Old Blounts Creek Rd.). The total length of the project is 0.63 miles. During this stretch, the stormwater will be conveyed through storm systems and ditches. Swales will be utilized for stormwater treatment. There is one swale that is located in the buffer zones to convey stormwater to Chocowinity Creek at a non-erosive velocity. Riprap energy dissipator basins are utilized to provide non-erosive velocities of stormwater leaving the project site. The typical roadway section utilizes 4:1 fill slopes instead of 6:1 fill slopes throughout the majority of the project along with using 3:1 slopes and guardrail around the vicinity of the bridge to minimize wetland impacts. Sheet piling is also used with the construction of the on-site detour and the detour bridge was proposed at a length of 300' in order to minimize the temporary fill in wetlands impacts to construct it. Expressway Gutter was also used from -L- Sta. 46+05 to -L- Sta. 51+00 RT to avoid/minimize impacts to the adjacent residences (parcels 16 & 17).					



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
 FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 67005.1.1 TIP/Proj No.: BR-0005 County(ies): Beaufort Page 2 of 4

General Project Information

Waterbody Information

Surface Water Body (1):	Chocowinity Creek		NCDWR Stream Index No.:	29-6-2-1-(8)	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class SC		
	Supplemental Classification:		Nutrient Sensitive Waters (NSW)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	29-6-2-(1) & 29-6-2-1-(8)		Buffer Rules in Effect:	Tar-Pamlico	
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	No
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)					
Surface Water Body (2):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?		Comments:			
NRTR Stream ID:			Buffer Rules in Effect:		
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					
Surface Water Body (3):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?		Comments:			
NRTR Stream ID:			Buffer Rules in Effect:		
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					



Swale																				
Sheet No.	Line	Station	Location (LT,RT,CL)	Latitude	Longitude	Surface Water Body	Base Width (ft)	Front Slope (H:1)	Back Slope (H:1)	Drainage Area (ac)	Recommended Treatm't Length (ft)	Actual Length (ft)	Longitudinal Slope (%)	Q2 (cfs)	V2 (fps)	Q10 (cfs)	V10 (fps)	Rock Checks Used	BMP Associated w/ Buffer Rules?	
4	L	21+50	RT	35.50452452	-77.085573	(1)Chocowinity Creek	0.0	6.0	6.0	0.4	39	150	2.00%	1.0	1.7	1.3	1.8	No	No	
6	L	52+00	LT	35.49954335	-77.077348	(1)Chocowinity Creek	0.0	4.0	6.0	0.4	36	50	0.62%	0.6	1.0	0.8	1.1	No	No	
5	L	39+00	LT	35.50189266	-77.080443	(1)Chocowinity Creek	4.0	3.0	3.0	29.9	2986	150	0.00%	27.0	1.4	37.8	1.6	No	Yes	
6	L	43+50	LT	35.5012415	-77.079358	(1)Chocowinity Creek	0.0	4.0	3.0	0.5	48	150	0.97%	0.8	1.4	1.0	1.5	No	No	
6	L	46+00	LT	35.5008367	-77.078667	(1)Chocowinity Creek	0.0	4.0	3.0	0.5	48	100	1.46%	0.8	1.6	1.0	1.7	No	No	

Additional Comments

There is a swale that goes through the buffer zone of Chocowinity Creek that is replacing the existing swale/ditch.

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

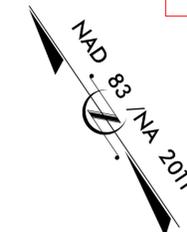
BEAUFORT COUNTY

LOCATION: BRIDGE 060075 ON NC 33 OVER CHOCOWINITY CREEK
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNAL, AND STRUCTURE

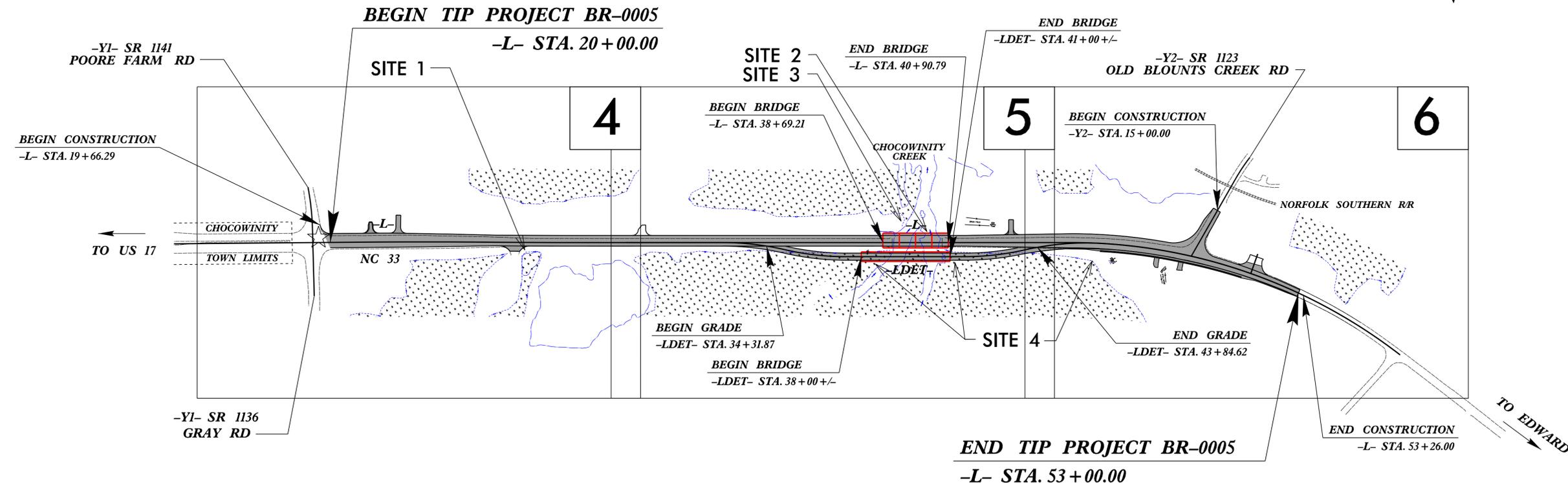
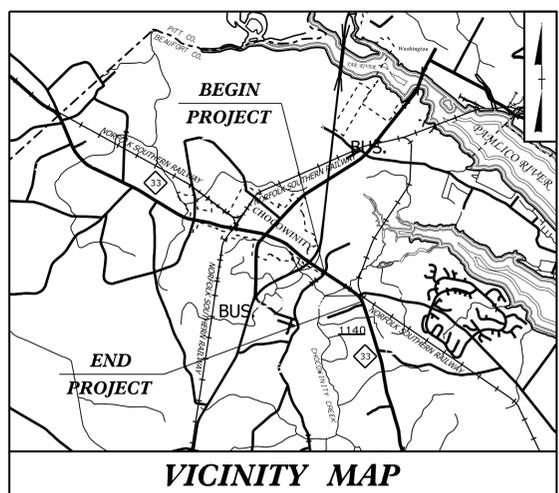
WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0005	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67005.1.1	N/A	PE	

PERMIT DRAWING
SHEET 1 OF 30



TIP PROJECT: BR-0005



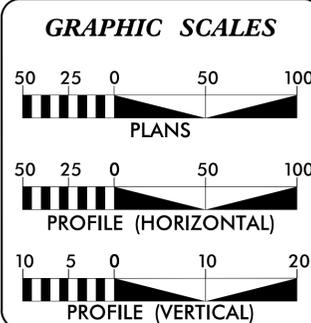
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

★ RELOCATE EXISTING SIGNAL

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2023 =	10,280
ADT 2043 =	11,370
K =	12 %
D =	60 %
T =	13 % *
V =	60 MPH
* TTST = 7% DUAL = 6%	
FUNC CLASS = MAJOR COLLECTOR REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0005	=	0.583 MILES
LENGTH STRUCTURE TIP PROJECT BR-0005	=	0.042 MILES
TOTAL LENGTH TIP PROJECT BR-0005	=	0.625 MILES

Prepared for NCDOT in the Office of:

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Raleigh, North Carolina 27601
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NC License No. F-1235

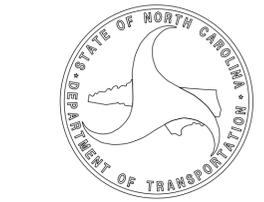
2018 STANDARD SPECIFICATIONS	RICK DECOLA, PE PROJECT ENGINEER
RIGHT OF WAY DATE: APRIL 19, 2022	TRAVIS COOK, PE PROJECT DESIGN ENGINEER
LETTING DATE: MARCH 21, 2023	DAVID STUTTS, PE NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



24-MAY-2023 2:35:55
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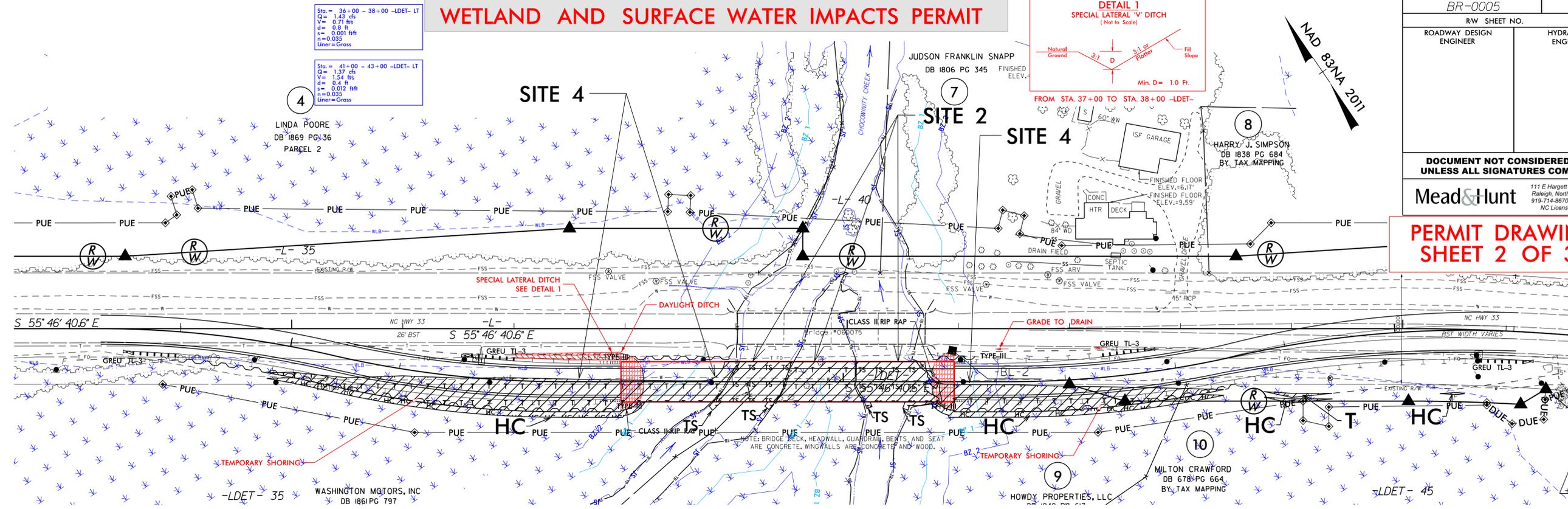
WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. BR-0005	SHEET NO. 2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

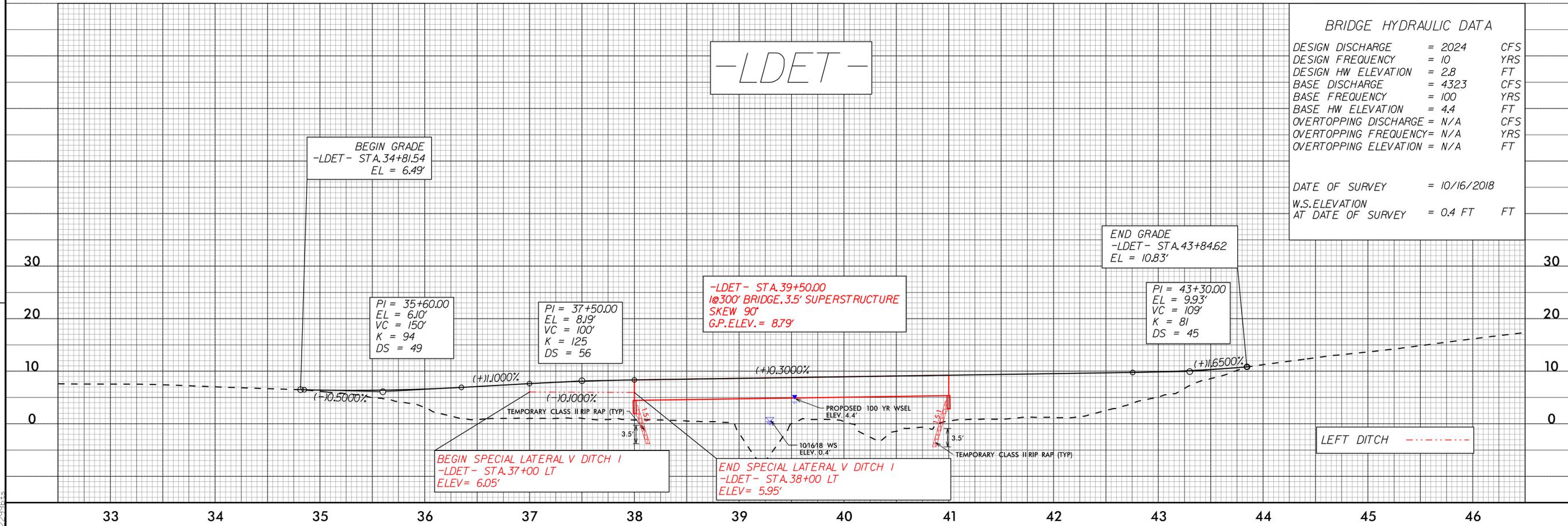
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PERMIT DRAWING SHEET 2 OF 30



-  TEMPORARY FILL IN WETLAND
-  TEMPORARY SURFACE WATER IMPACTS
-  HAND CLEARING

FOR -L- DESIGN, SEE SHEETS 5 & 6



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 2024	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 2.8	FT
BASE DISCHARGE	= 4323	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 4.4	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING ELEVATION	= N/A	FT

DATE OF SURVEY = 10/16/2018
W.S. ELEVATION AT DATE OF SURVEY = 0.4 FT FT

REVISIONS
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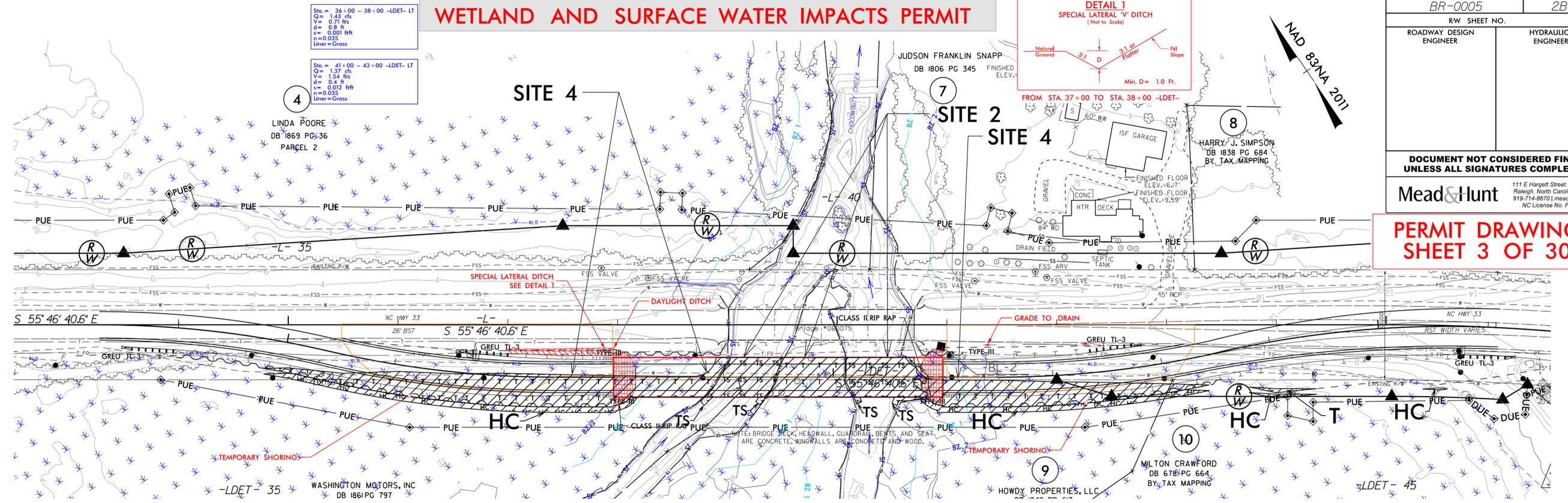
WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. BR-0005	SHEET NO. 2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

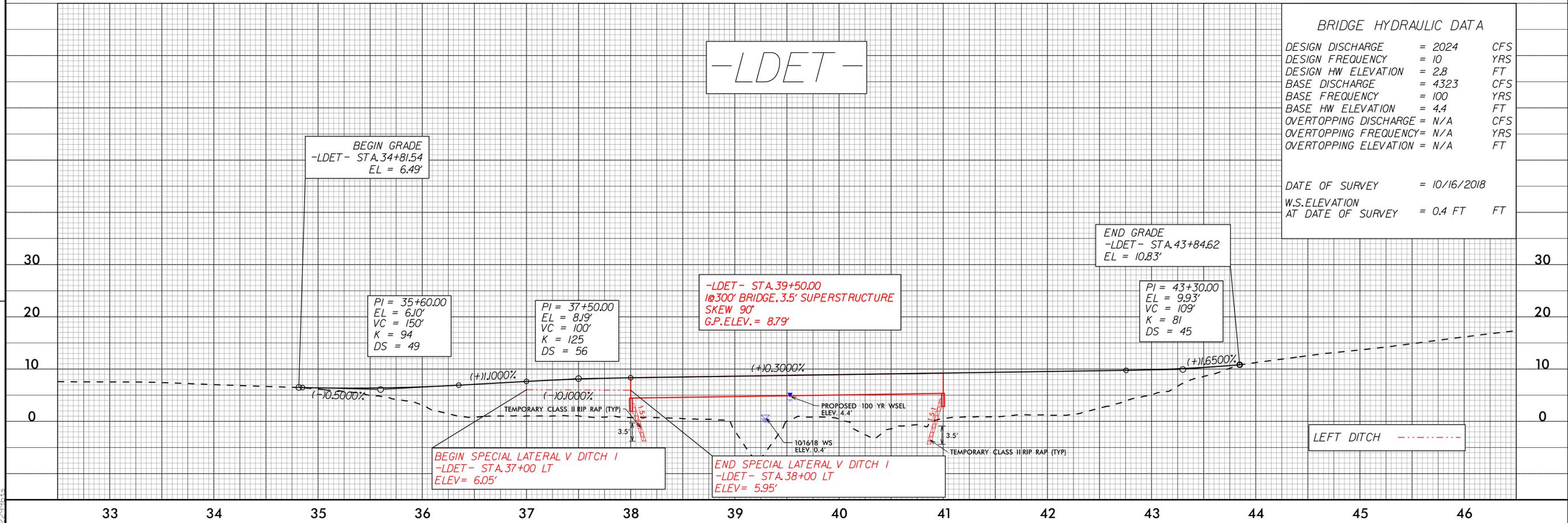
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PERMIT DRAWING SHEET 3 OF 30



- TEMPORARY FILL IN WETLAND
- TEMPORARY SURFACE WATER IMPACTS
- HAND CLEARING

FOR -L- DESIGN, SEE SHEETS 5 & 6



BRIDGE HYDRAULIC DATA

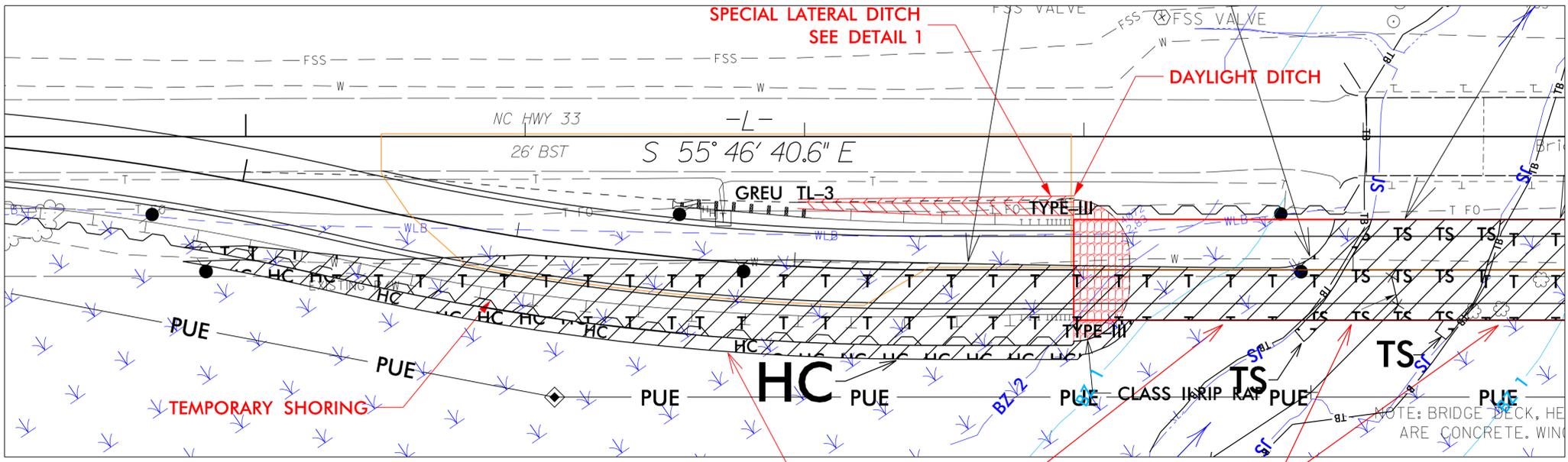
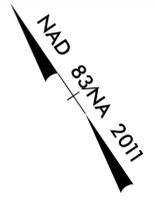
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DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 2.8	FT
BASE DISCHARGE	= 4323	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 4.4	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING ELEVATION	= N/A	FT

DATE OF SURVEY = 10/16/2018
W.S. ELEVATION AT DATE OF SURVEY = 0.4 FT FT

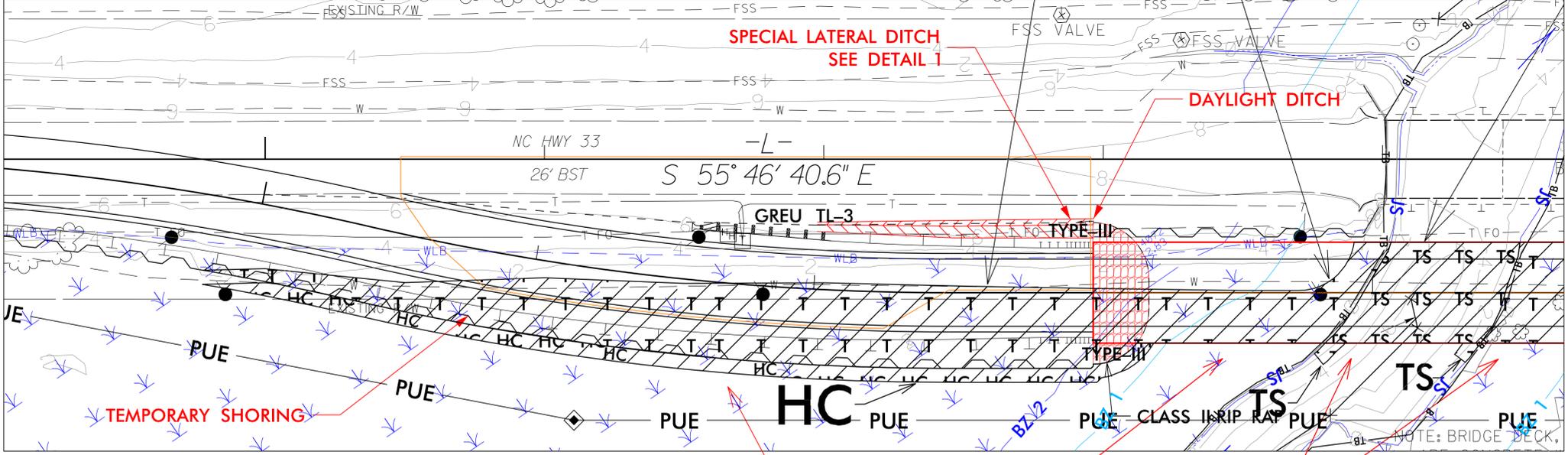
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PROJECT REFERENCE NO. BR-0005	SHEET NO. 2B-INSET A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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**PERMIT DRAWING
SHEET 4 OF 30**

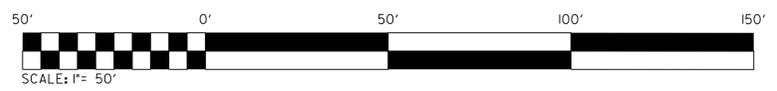


WETLAND AND SURFACE WATER IMPACTS



WETLAND AND SURFACE WATER IMPACTS

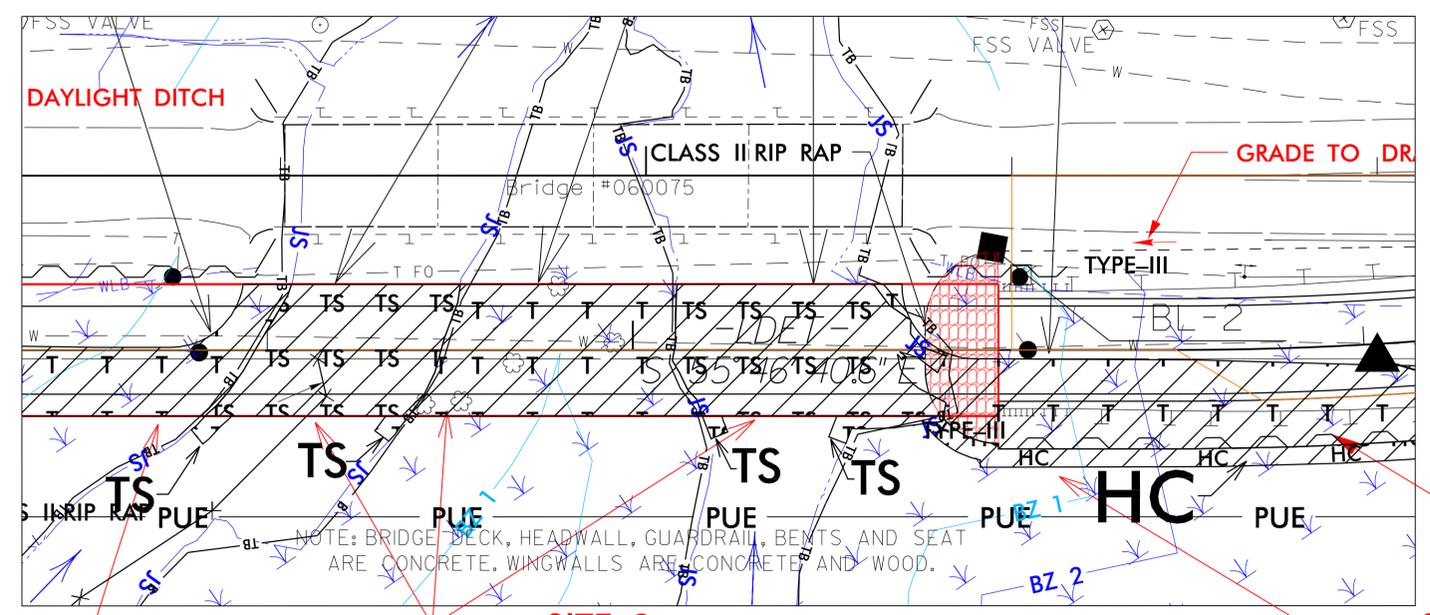
- TEMPORARY FILL IN WETLAND
- TEMPORARY SURFACE WATER IMPACTS
- HAND CLEARING



REVISIONS
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PROJECT REFERENCE NO. BR-0005	SHEET NO. 2B-INSET B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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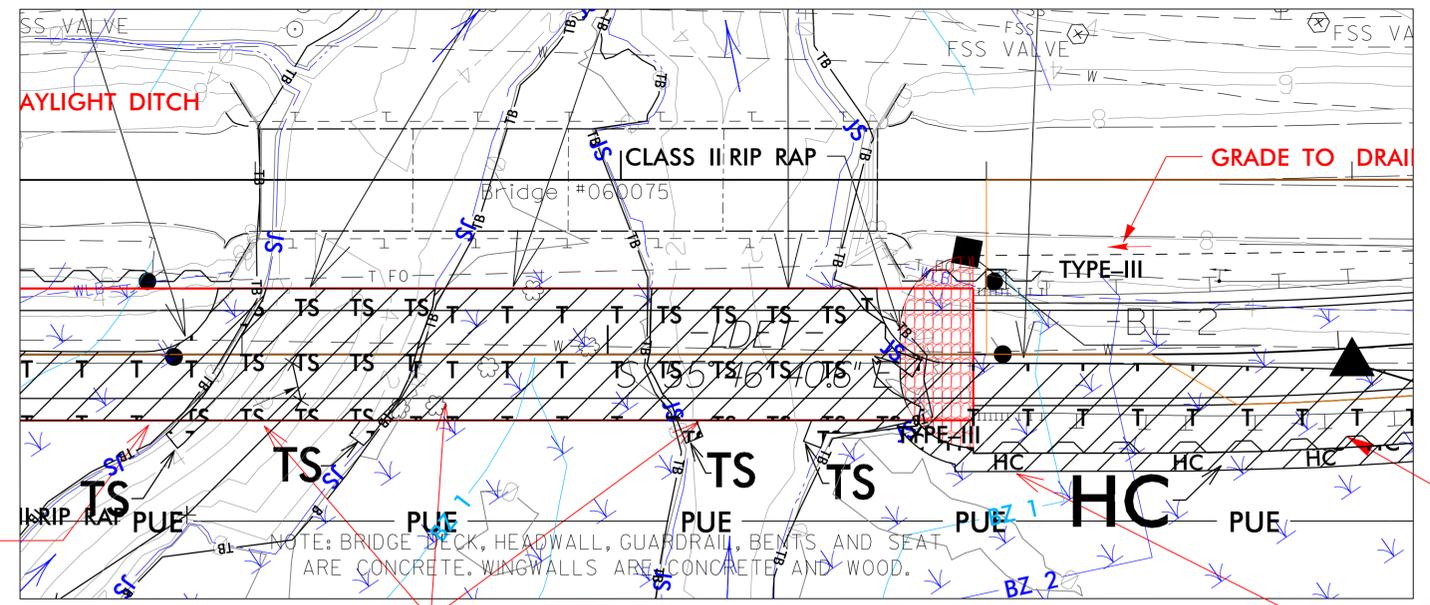
**PERMIT DRAWING
SHEET 5 OF 30**



**SITE 4
WETLAND AND
SURFACE
WATER IMPACTS**

**SITE 2
WETLAND AND SURFACE WATER IMPACTS**

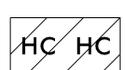
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WETLAND AND SURFACE WATER IMPACTS**

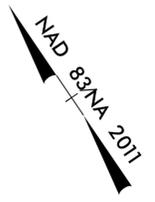
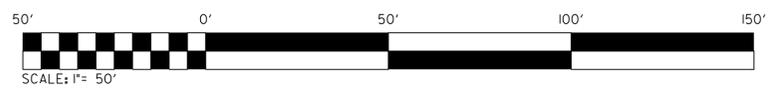


**SITE 4
WETLAND AND
SURFACE WATER IMPACTS**

**SITE 2
WETLAND AND SURFACE WATER IMPACTS**

**SITE 4
WETLAND AND SURFACE WATER IMPACTS**

-  TEMPORARY FILL IN WETLAND
-  TEMPORARY SURFACE WATER IMPACTS
-  HAND CLEARING

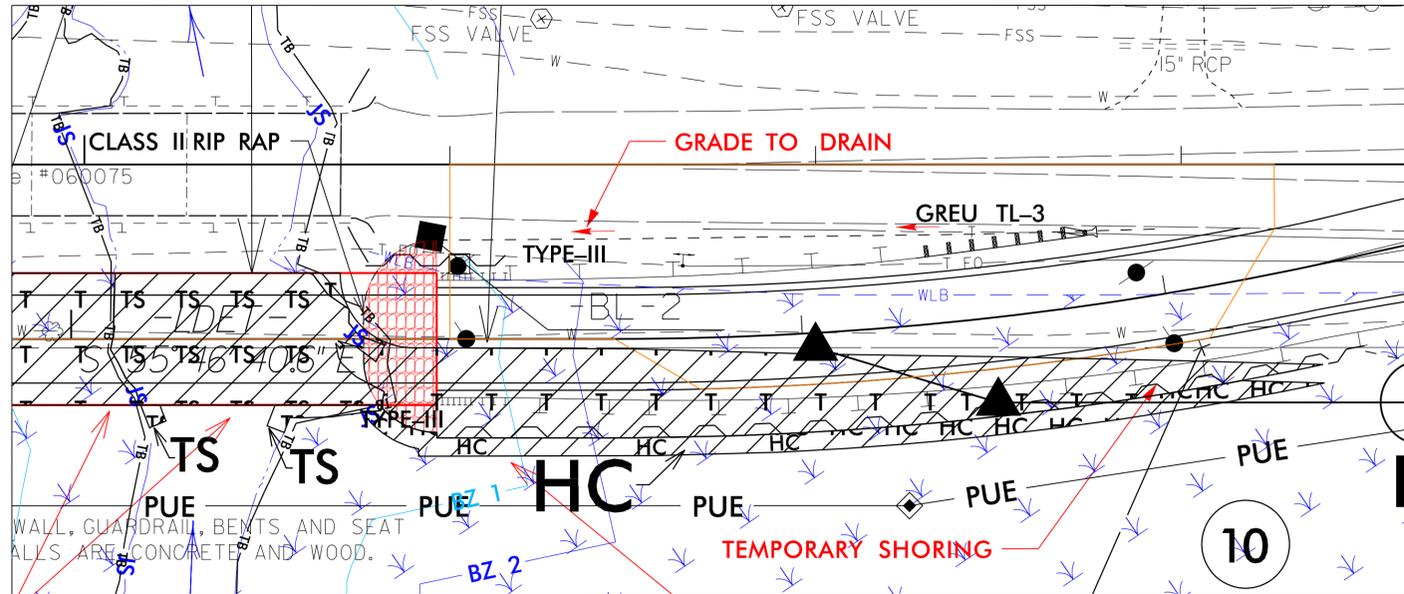
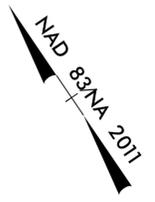


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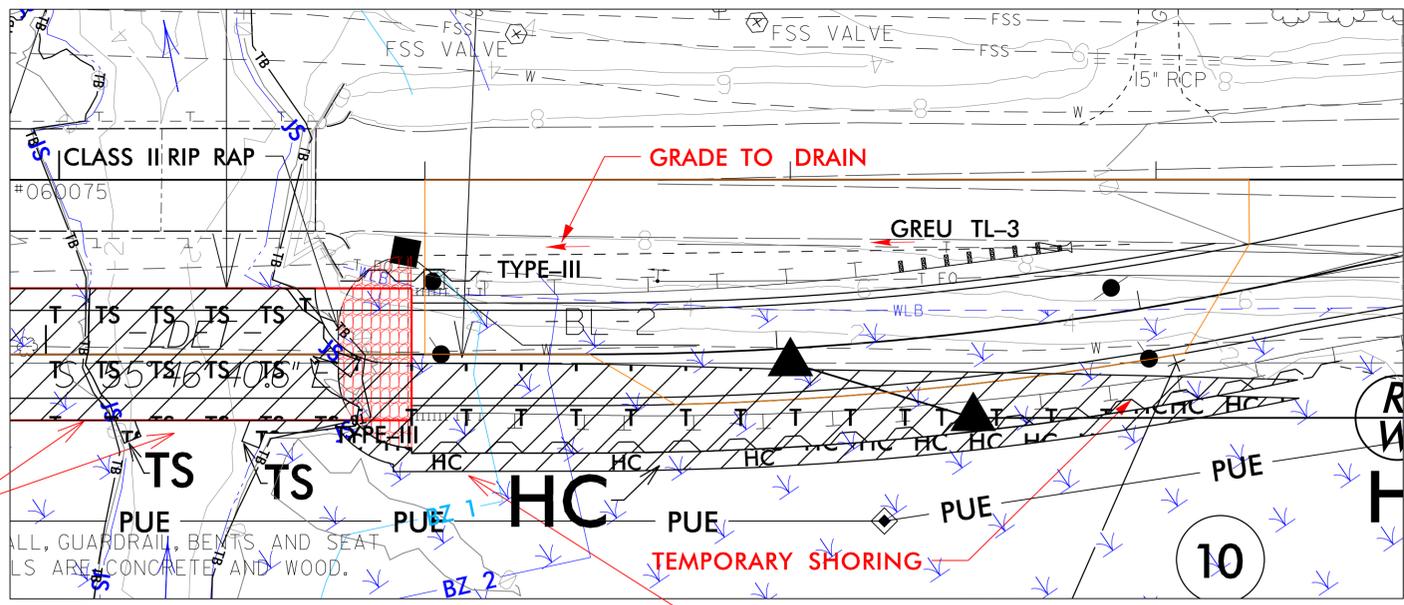
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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**PERMIT DRAWING
SHEET 6 OF 30**



**SITE 2
WETLAND AND
SURFACE WATER
IMPACTS**

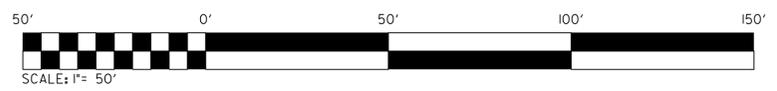
**SITE 4
WETLAND AND SURFACE WATER IMPACTS**



**SITE 2
WETLAND AND
SURFACE WATER
IMPACTS**

**SITE 4
WETLAND AND SURFACE WATER IMPACTS**

- TEMPORARY FILL IN WETLAND
- TEMPORARY SURFACE WATER IMPACTS
- HAND CLEARING



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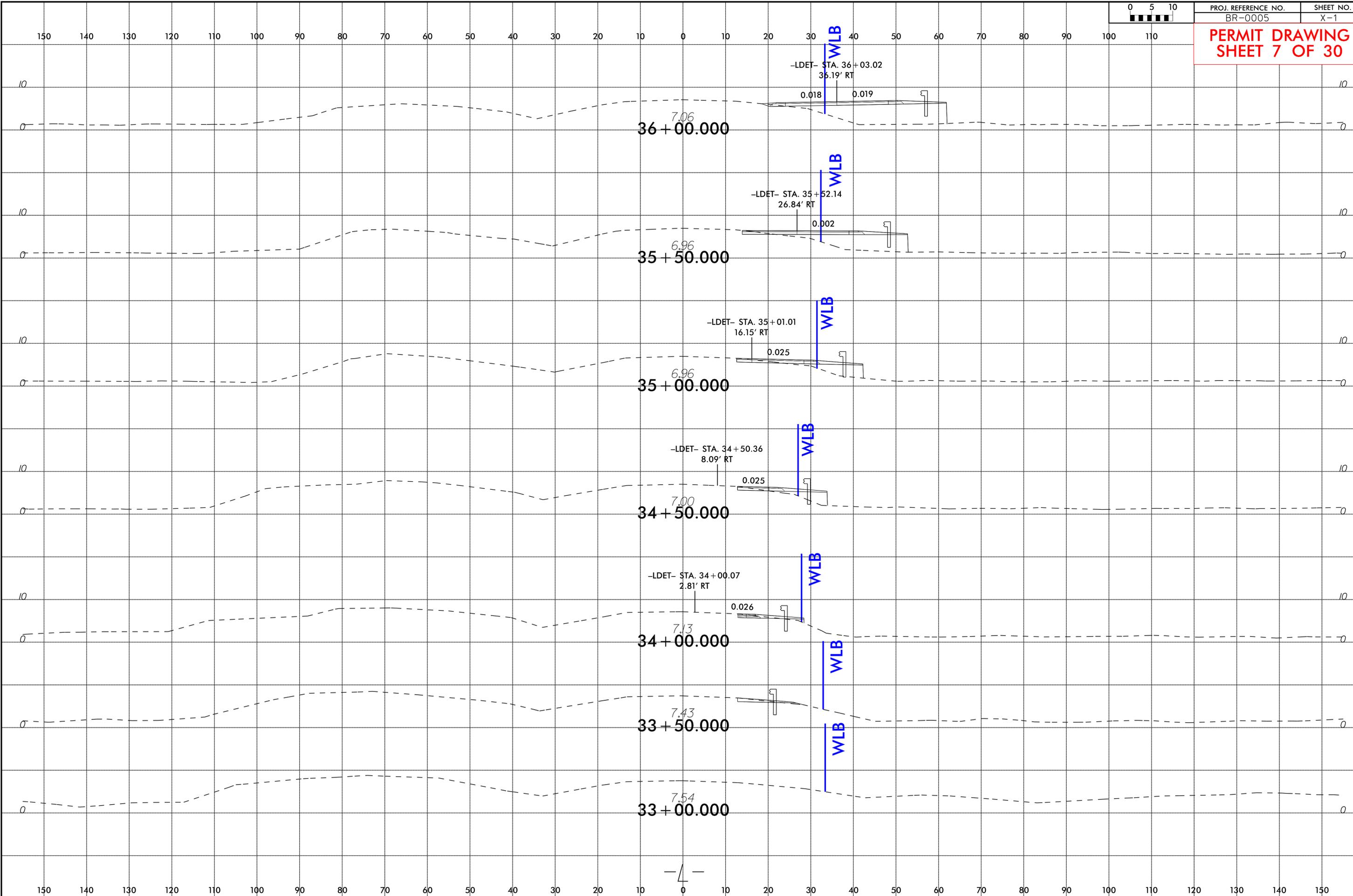
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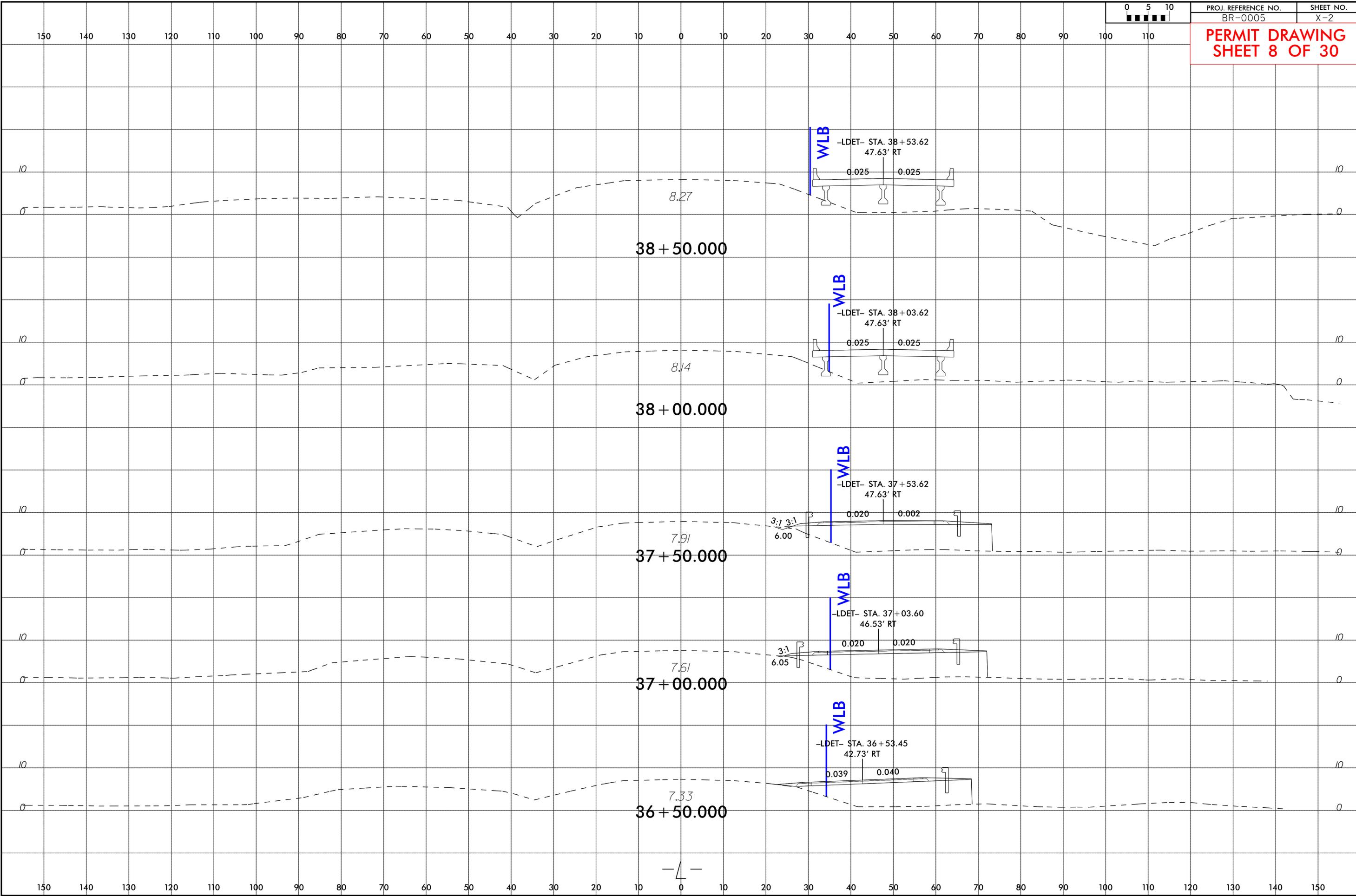
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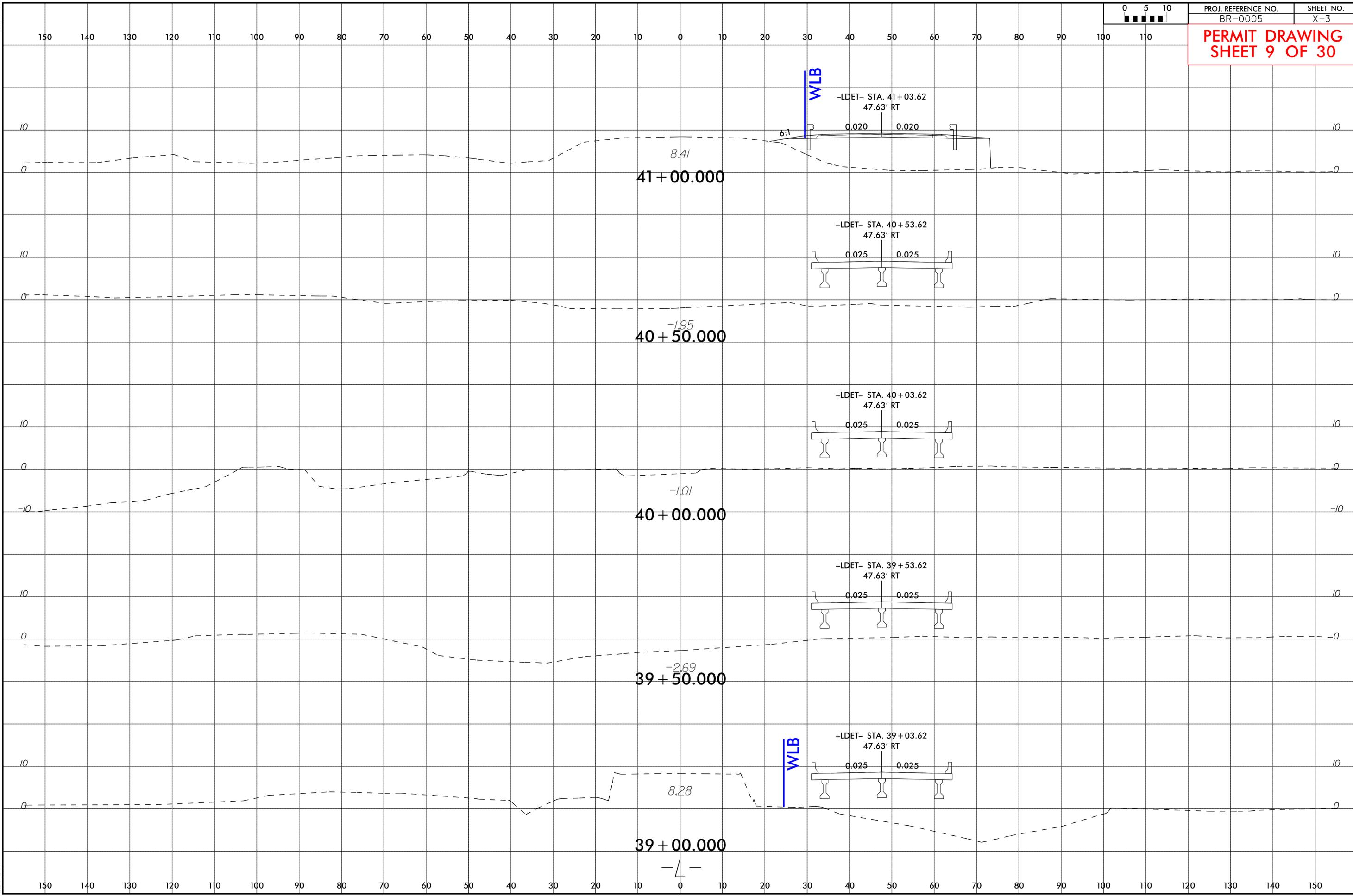
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

10 10

0 0

41 + 00.000

8.41

6:1

-LDET- STA. 41 + 03.62
47.63' RT

0.020 0.020

-LDET- STA. 40 + 53.62
47.63' RT

0.025 0.025

40 + 50.000

-1.95

-LDET- STA. 40 + 03.62
47.63' RT

0.025 0.025

40 + 00.000

-1.01

-LDET- STA. 39 + 53.62
47.63' RT

0.025 0.025

39 + 50.000

-2.69

-LDET- STA. 39 + 03.62
47.63' RT

0.025 0.025

39 + 00.000

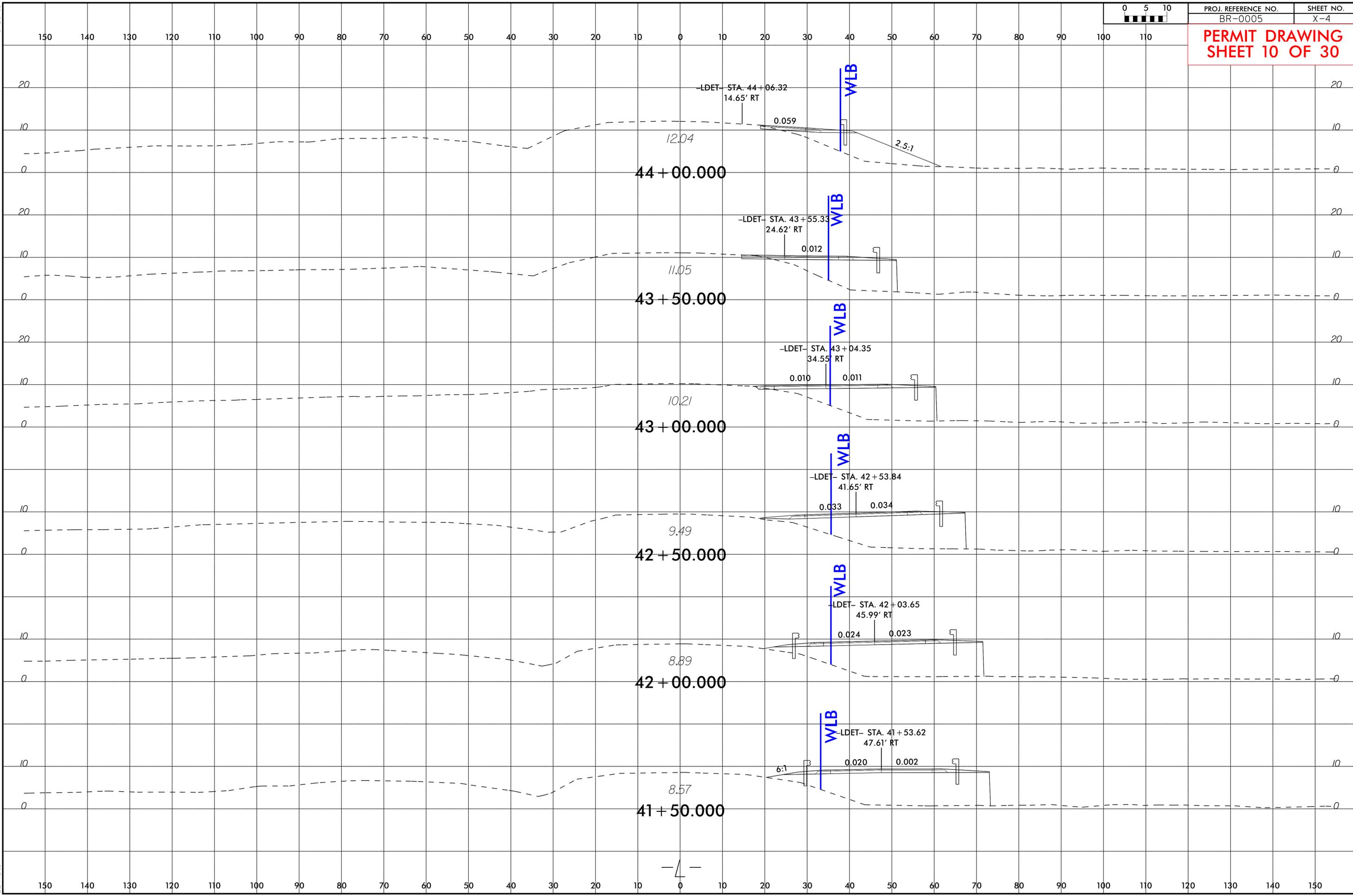
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WLB

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6/23/16
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229/bts



44 + 00.000
12.04
-LDET- STA. 44 + 06.32
14.65' RT
0.059
2.5:1

43 + 50.000
11.05
-LDET- STA. 43 + 55.33
24.62' RT
0.012

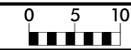
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10.21
-LDET- STA. 43 + 04.35
34.55' RT
0.010 0.011

42 + 50.000
9.49
-LDET- STA. 42 + 53.84
41.65' RT
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42 + 00.000
8.89
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45.99' RT
0.024 0.023

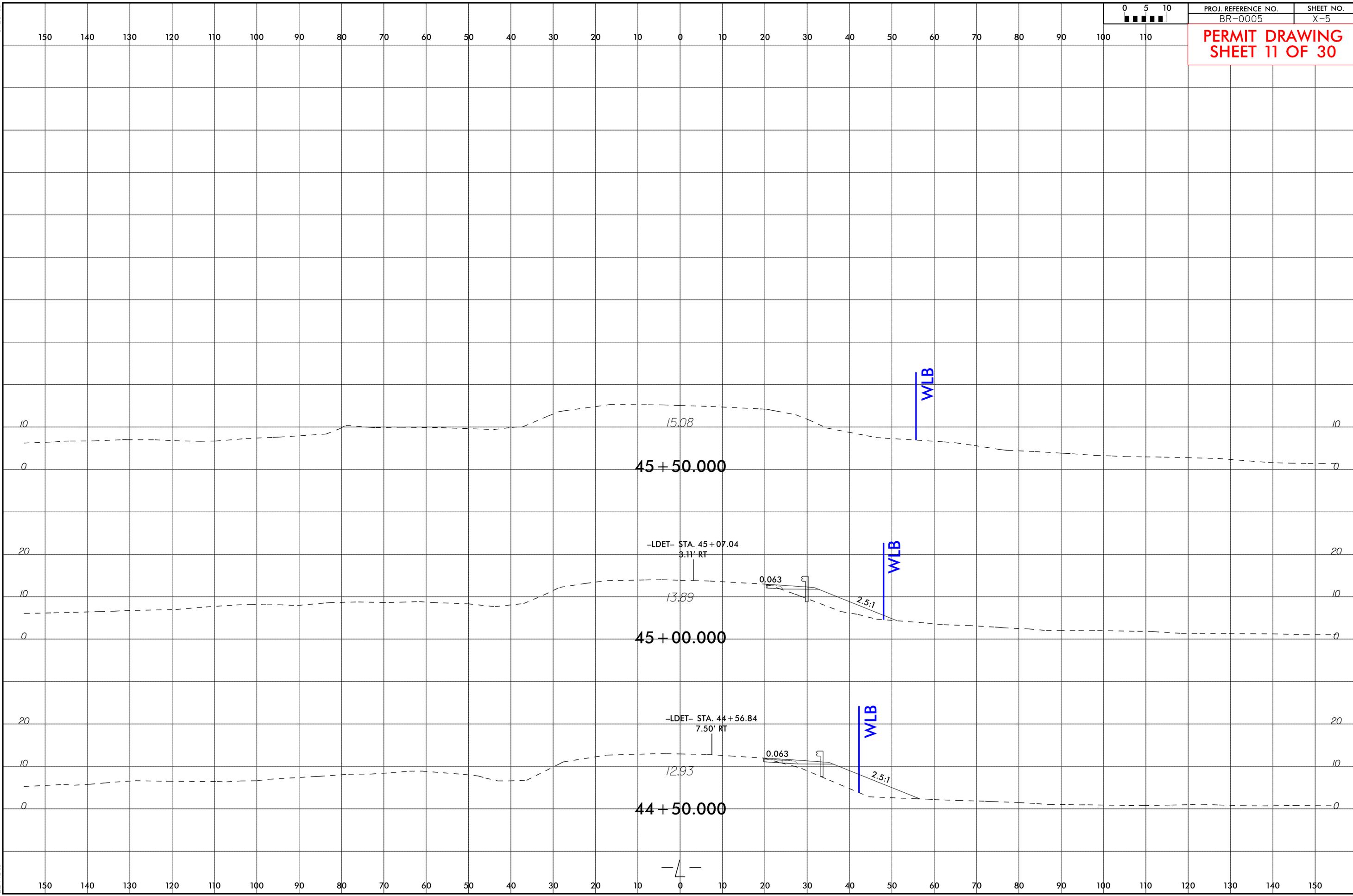
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-LDET- STA. 41 + 53.62
47.61' RT
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— 4 —

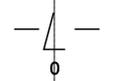


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**PERMIT DRAWING
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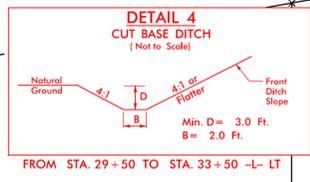
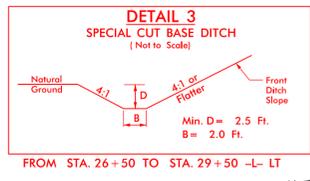
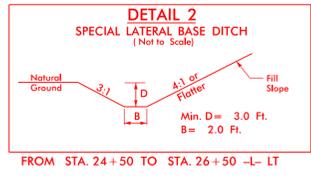
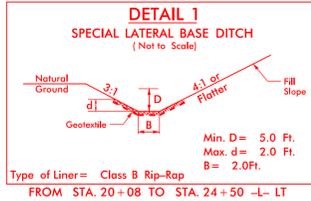
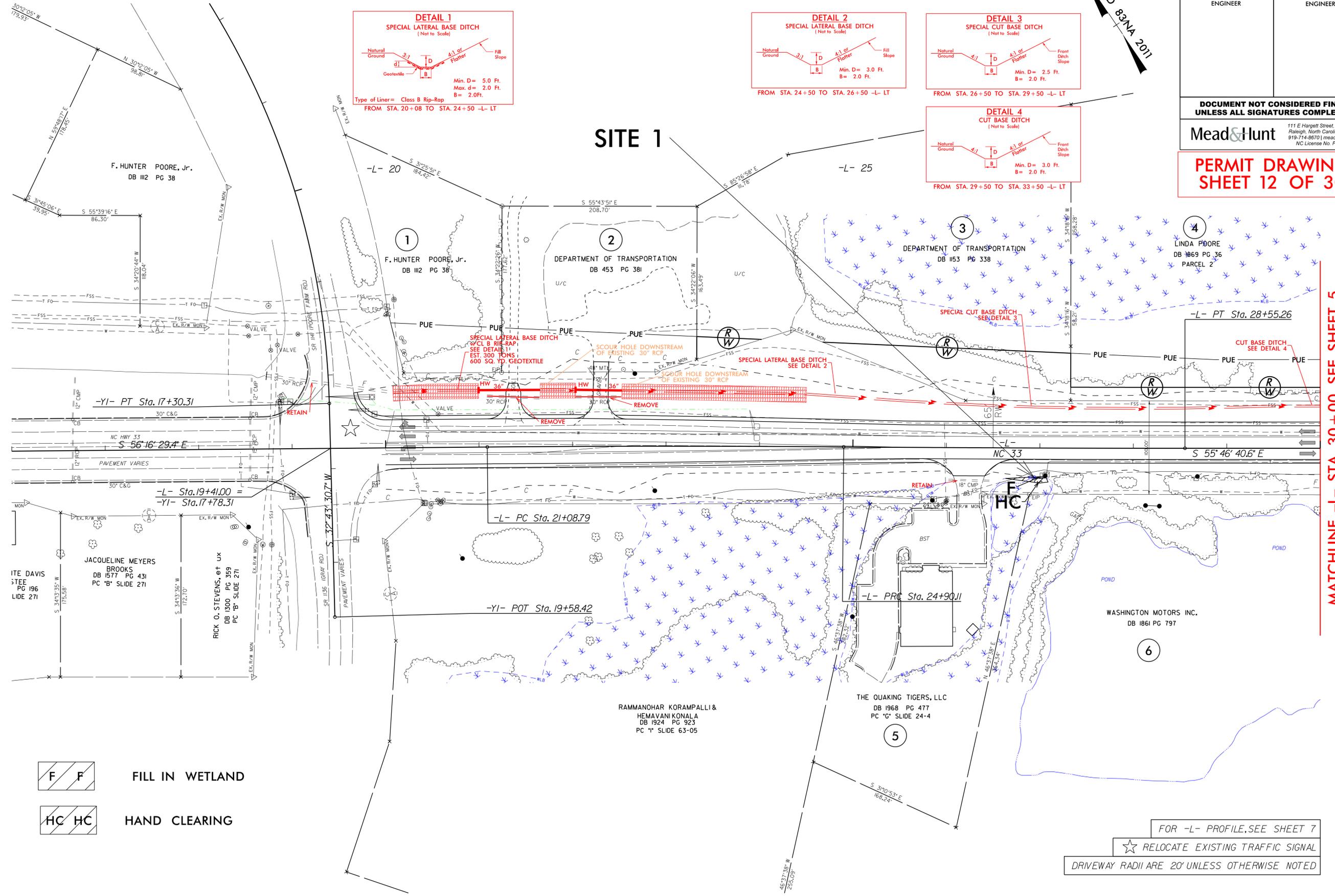
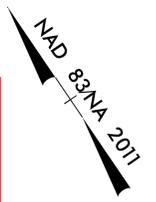
WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. BR-0005	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PERMIT DRAWING SHEET 12 OF 30



F F FILL IN WETLAND

HC HC HAND CLEARING

FOR -L- PROFILE, SEE SHEET 7

★ RELOCATE EXISTING TRAFFIC SIGNAL

DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

MATCHLINE -L- STA. 30+00 SEE SHEET 5

REVISIONS

06-OCT-2023 16:20
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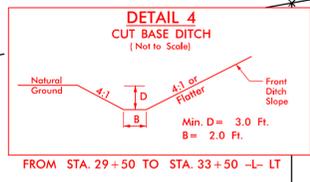
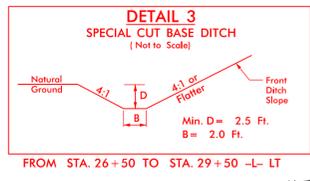
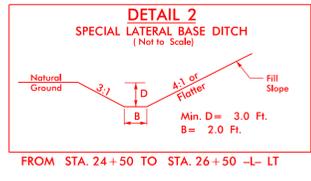
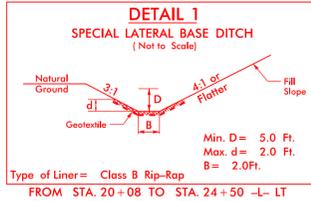
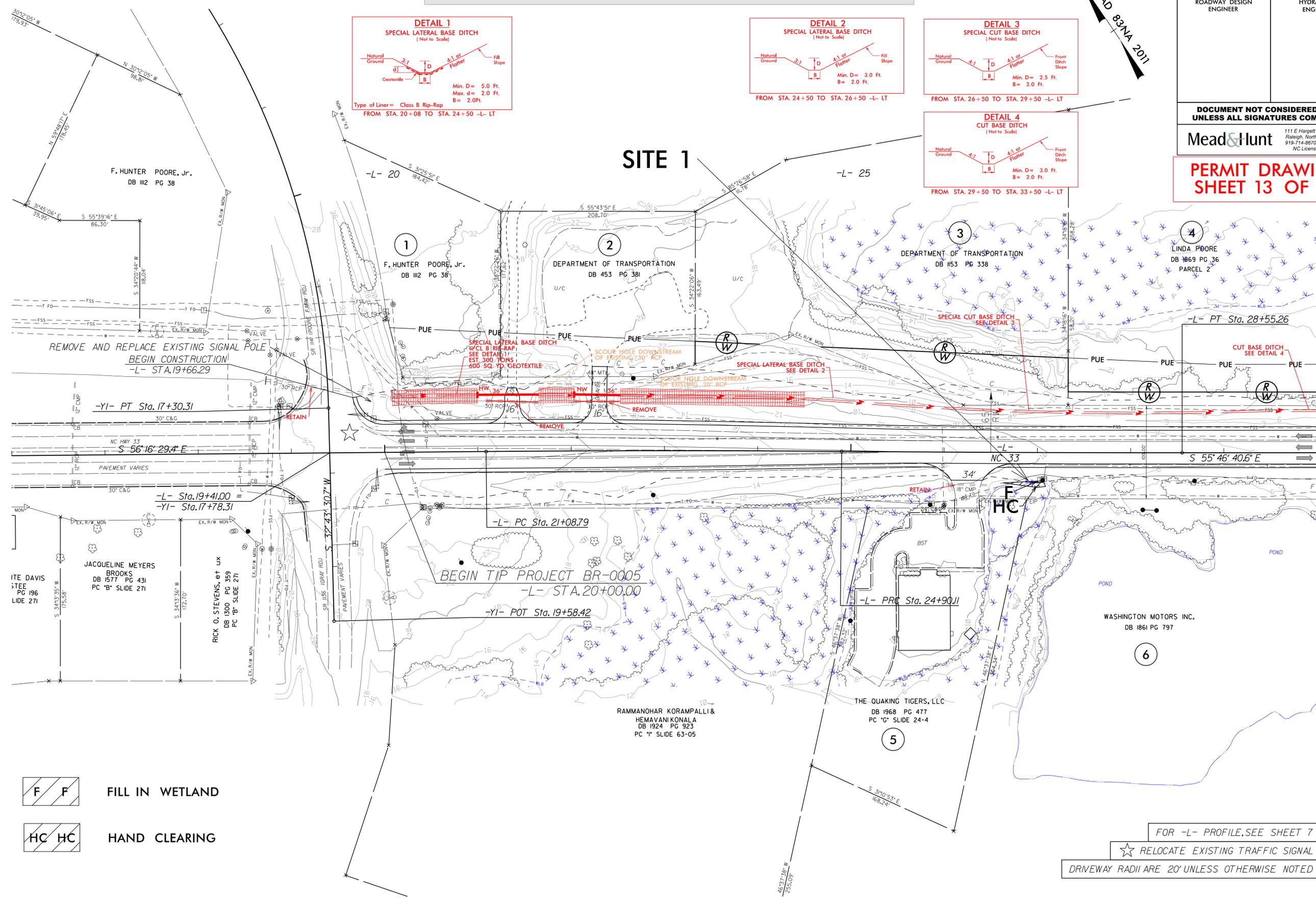
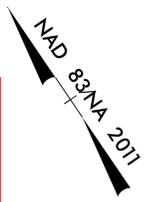
WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. BR-0005	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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MATCHLINE -L- STA. 30+00 SEE SHEET 5

FOR -L- PROFILE, SEE SHEET 7

★ RELOCATE EXISTING TRAFFIC SIGNAL

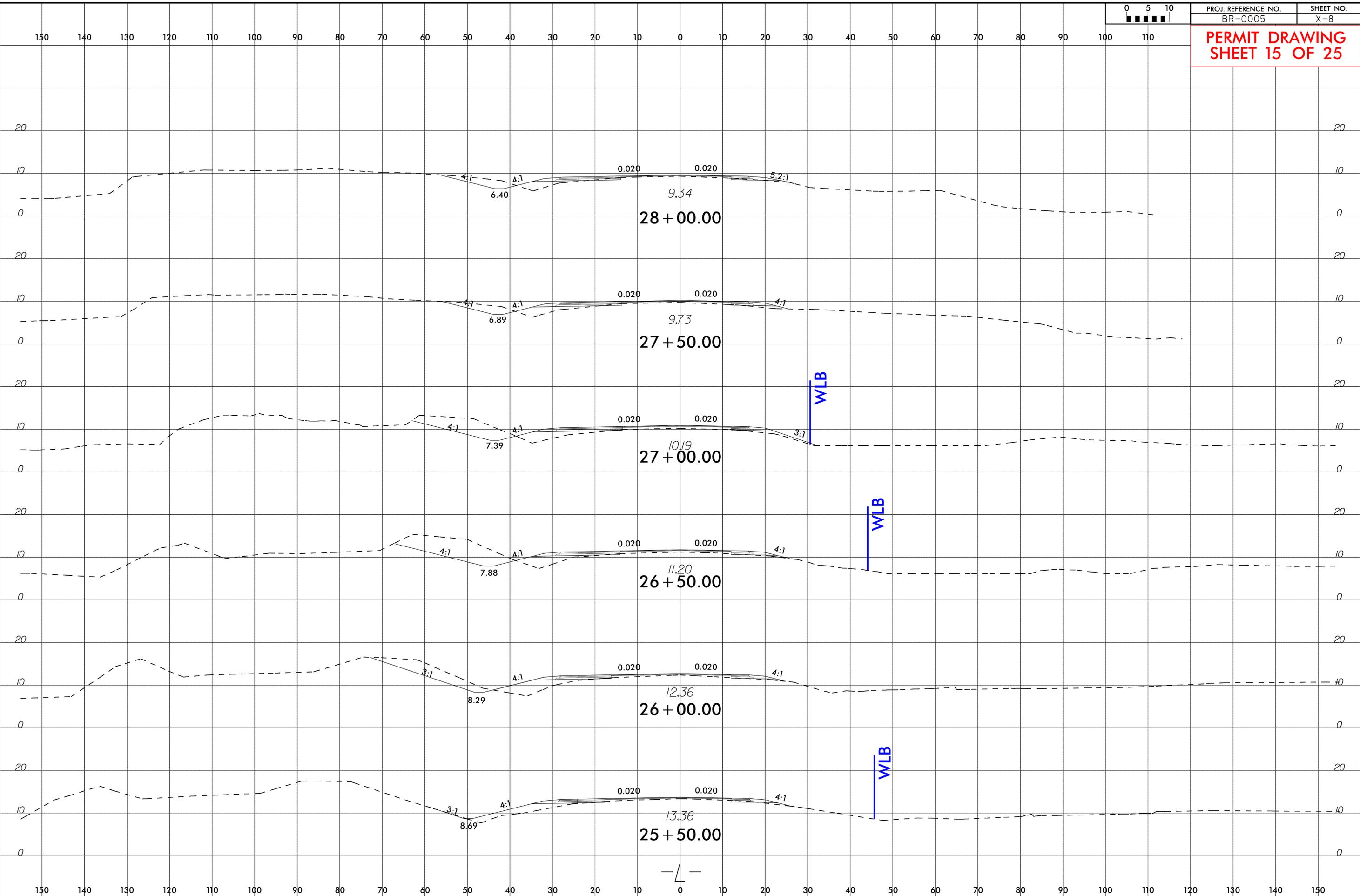
DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

6/23/16
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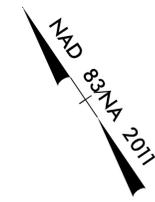


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BR-0005	X-8

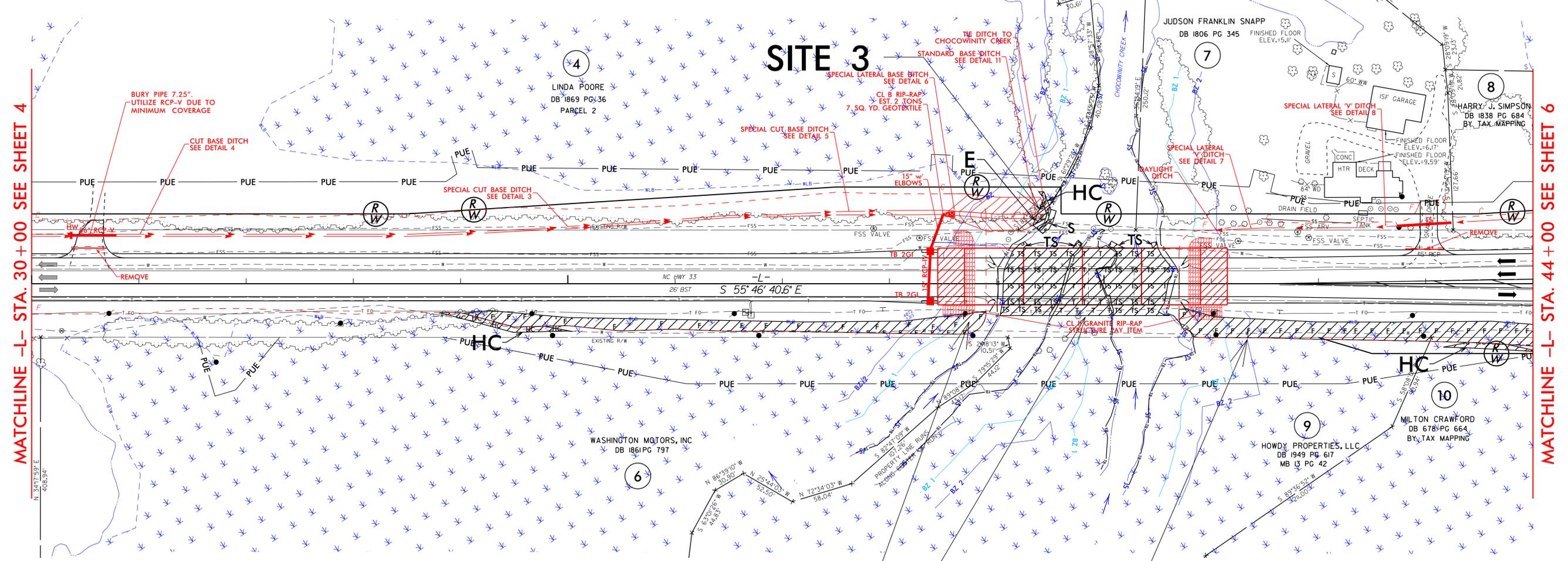
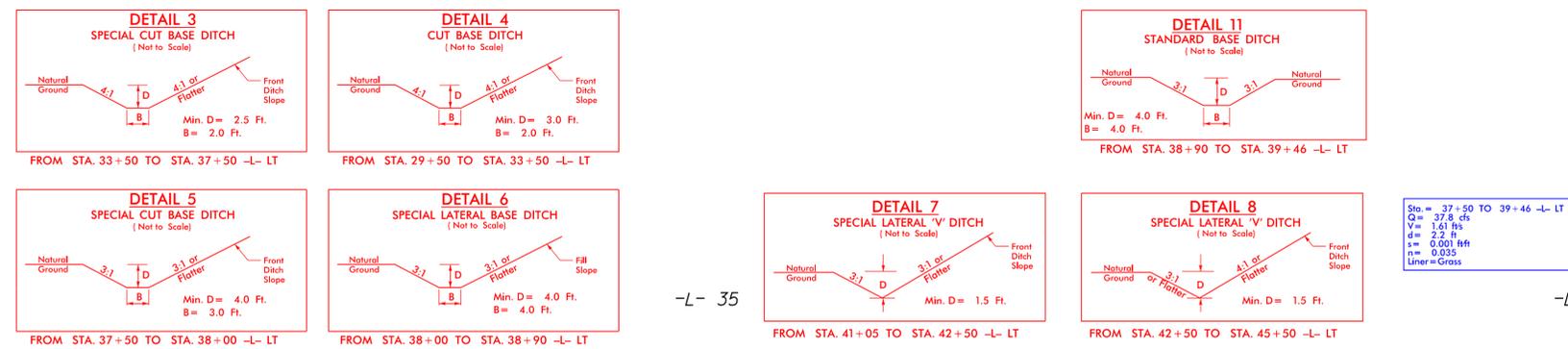
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SHEET 15 OF 25



WETLAND AND SURFACE WATER IMPACTS PERMIT



PROJECT REFERENCE NO. BR-0005		SHEET NO. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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PERMIT DRAWING SHEET 16 OF 30			



MATCHLINE -L- STA. 30+00 SEE SHEET 4

MATCHLINE -L- STA. 44+00 SEE SHEET 6

- FILL IN WETLAND
- TEMPORARY FILL IN WETLAND
- WETLAND EXCAVATION
- HAND CLEARING
- TEMPORARY SURFACE WATER IMPACTS

NOTE: NO MORE THAN 50% OF THE STREAM CHANNEL SHALL BE BLOCKED AT ANY TIME DURING CONSTRUCTION/DEMOLITION

FOR -L- PROFILE, SEE SHEET 7
BRIDGE APPROACH SLAB
FOR DETOUR DESIGN, SEE SHEET 2B-I
DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

24-MAY-2023 2:31:56
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REVISIONS

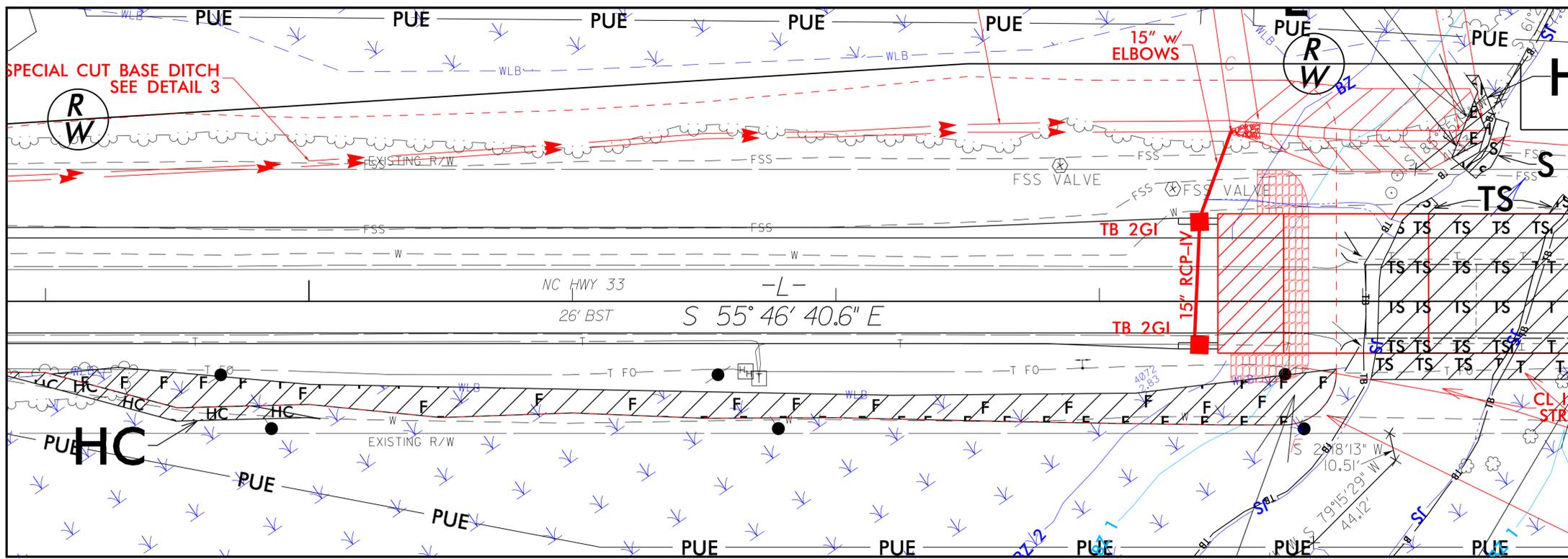
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PROJECT REFERENCE NO. BR-0005	SHEET NO. 5-INSET A
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

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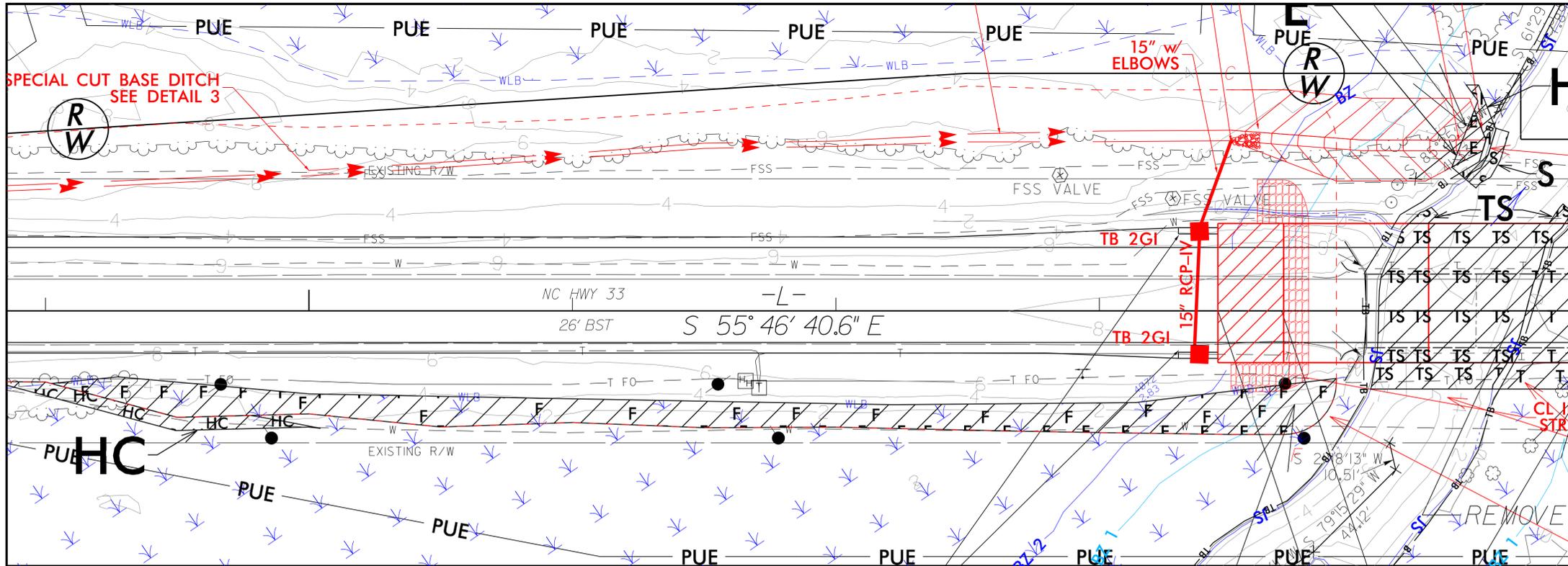
**PERMIT DRAWING
SHEET 18 OF 30**



**SITE 3
WETLAND
IMPACTS**

**SITE 2
WETLAND AND
SURFACE WATER
IMPACTS**

**SITE 4
WETLAND
IMPACTS**

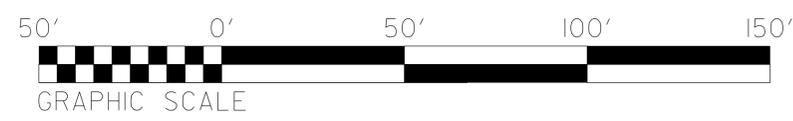


**SITE 3
WETLAND
IMPACTS**

**SITE 2
WETLAND AND
SURFACE WATER
IMPACTS**

**SITE 4
WETLAND
IMPACTS**

	FILL IN WETLAND		TEMPORARY FILL IN WETLAND
	TEMPORARY SURFACE WATER IMPACTS		WETLAND EXCAVATION
	HAND CLEARING		



REVISIONS

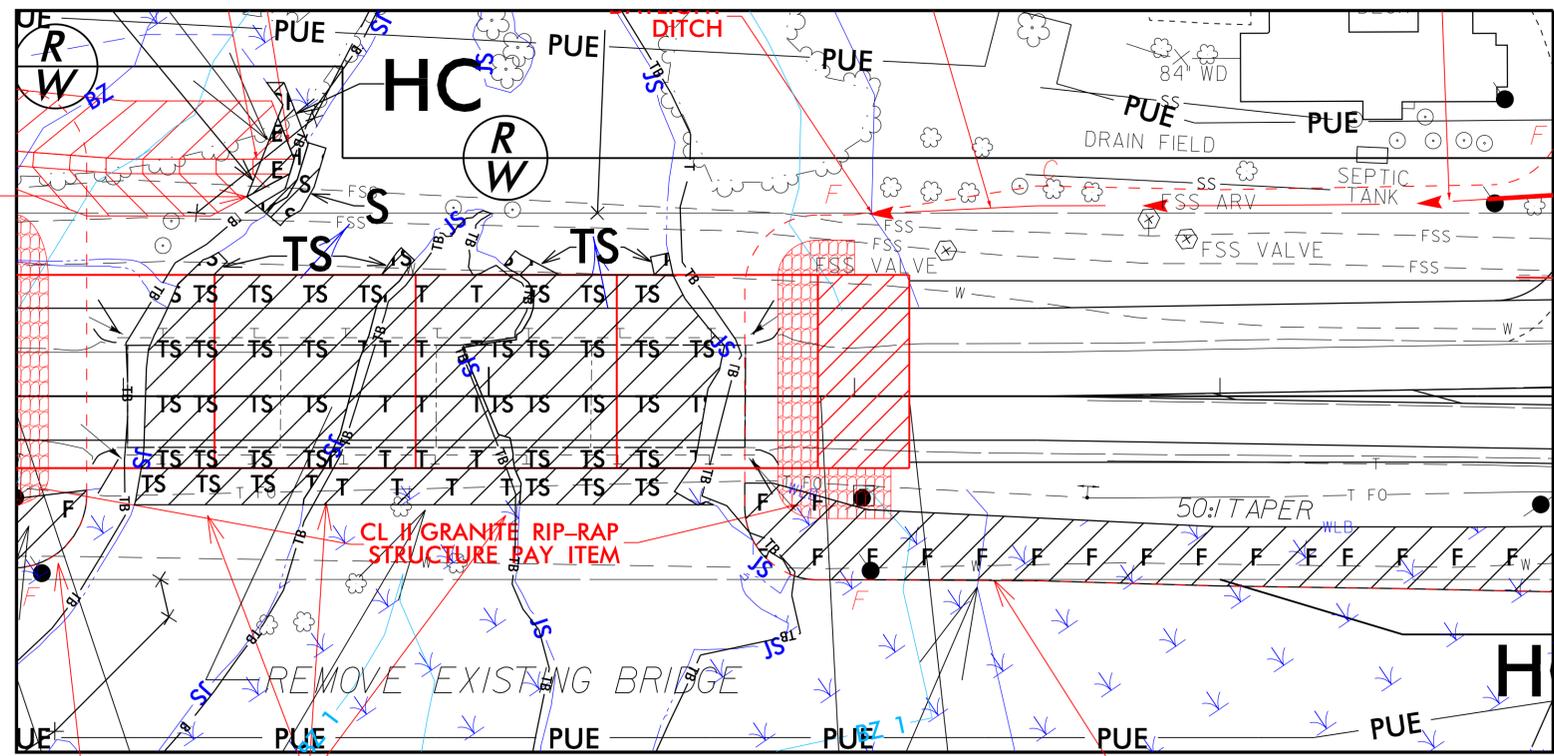
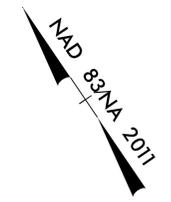
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PROJECT REFERENCE NO. BR-0005	SHEET NO. 5-INSET B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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**PERMIT DRAWING
SHEET 19 OF 30**

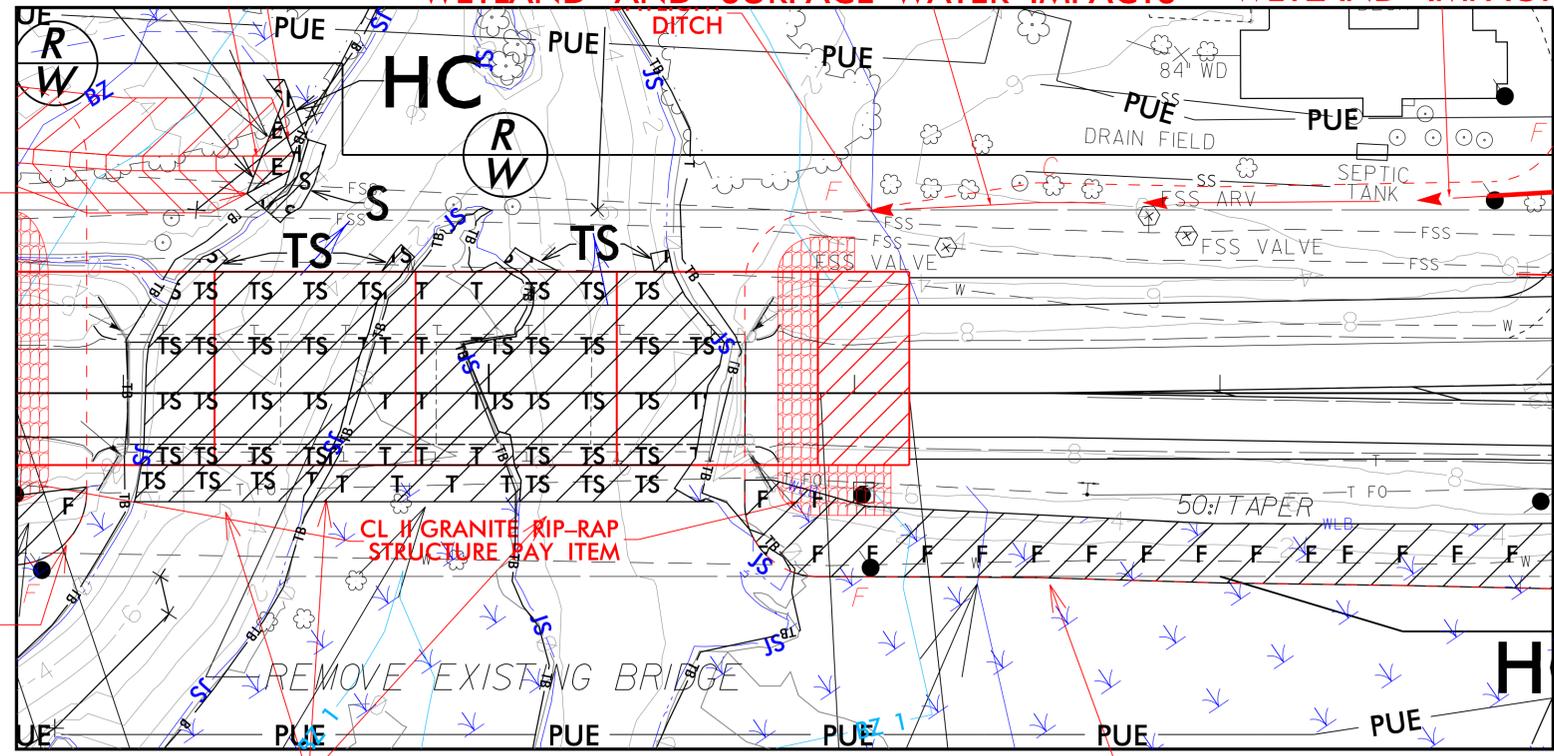


**SITE 3
WETLAND
IMPACTS**

**SITE 4
WETLAND
IMPACTS**

**SITE 2
WETLAND AND SURFACE WATER IMPACTS**

**SITE 4
WETLAND IMPACTS**



**SITE 3
WETLAND
IMPACTS**

**SITE 4
WETLAND
IMPACTS**

**SITE 2
WETLAND AND SURFACE WATER IMPACTS**

**SITE 4
WETLAND IMPACTS**

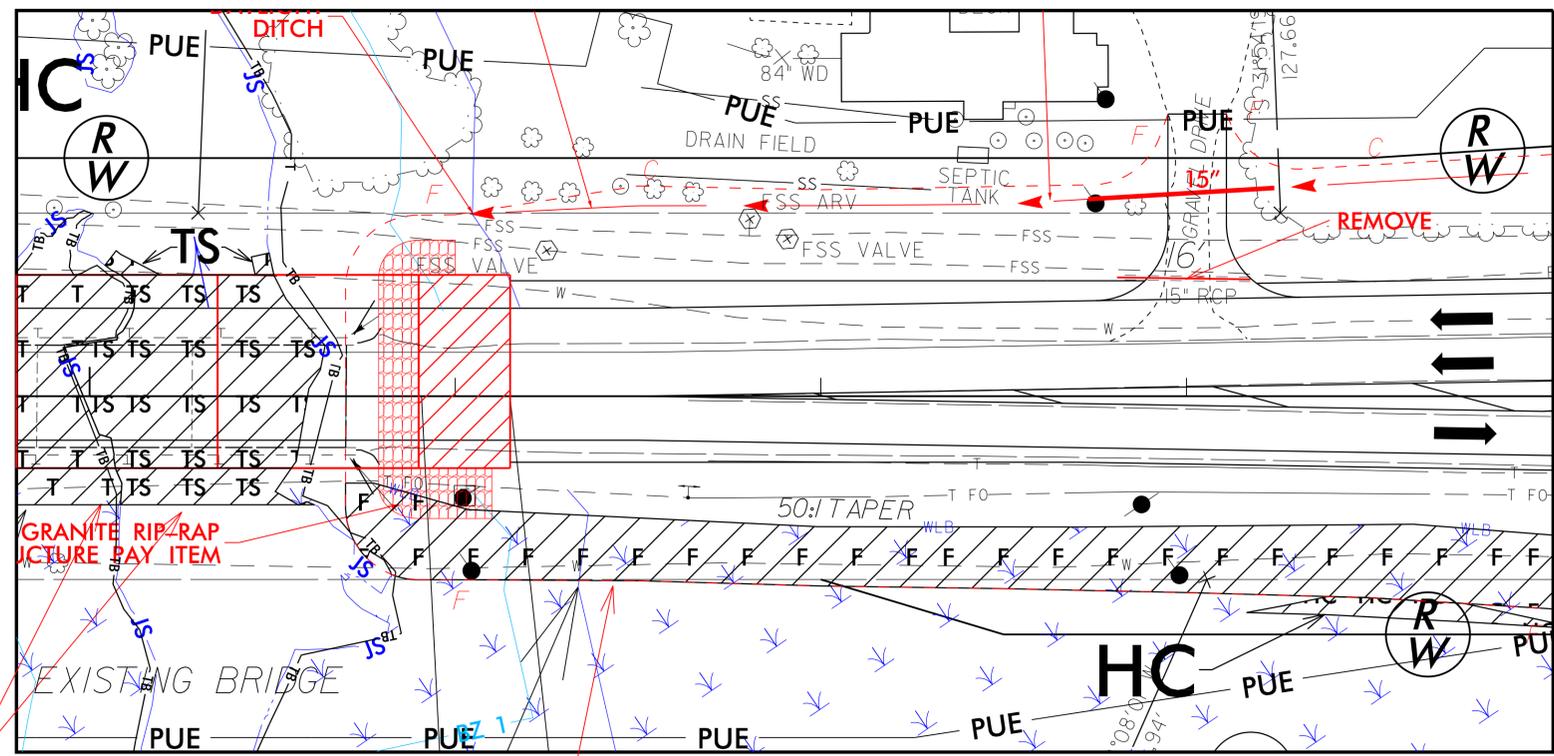
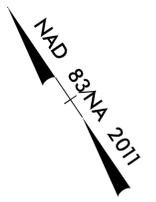
- F F FILL IN WETLAND
- TS TS TEMPORARY SURFACE WATER IMPACTS
- HC HC HAND CLEARING
- T T TEMPORARY FILL IN WETLAND
- E E WETLAND EXCAVATION



REVISIONS

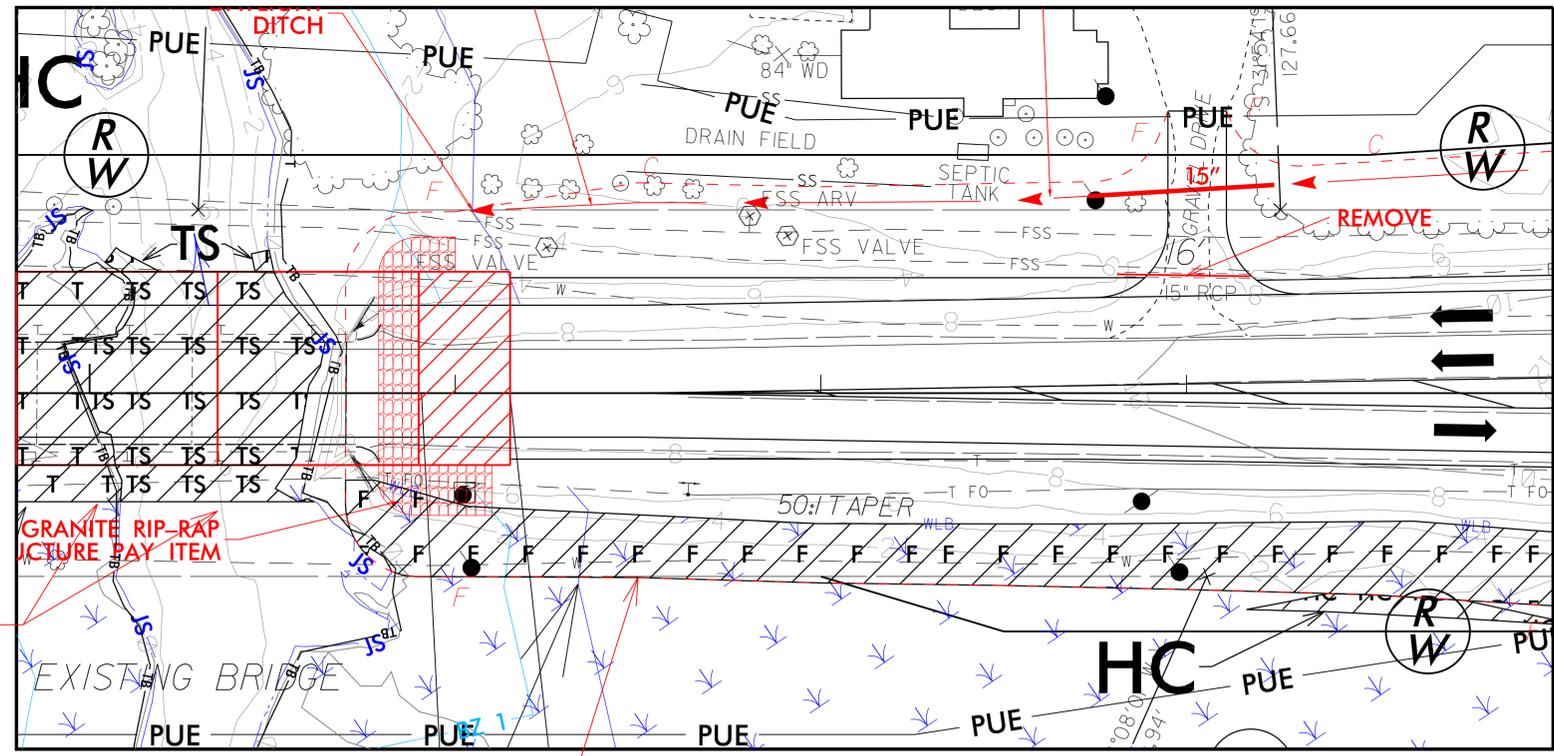
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PROJECT REFERENCE NO. BR-0005	SHEET NO. 5-INSET C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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PERMIT DRAWING SHEET 20 OF 30	



**SITE 2
WETLAND AND
SURFACE WATER
IMPACTS**

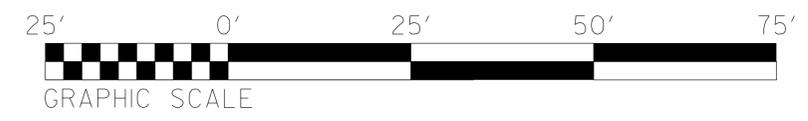
**SITE 4
WETLAND IMPACTS**



**SITE 2
WETLAND AND
SURFACE WATER
IMPACTS**

**SITE 4
WETLAND IMPACTS**

- F F FILL IN WETLAND
- TS TS TEMPORARY SURFACE WATER IMPACTS
- HC HC HAND CLEARING
- T T TEMPORARY FILL IN WETLAND



REVISIONS

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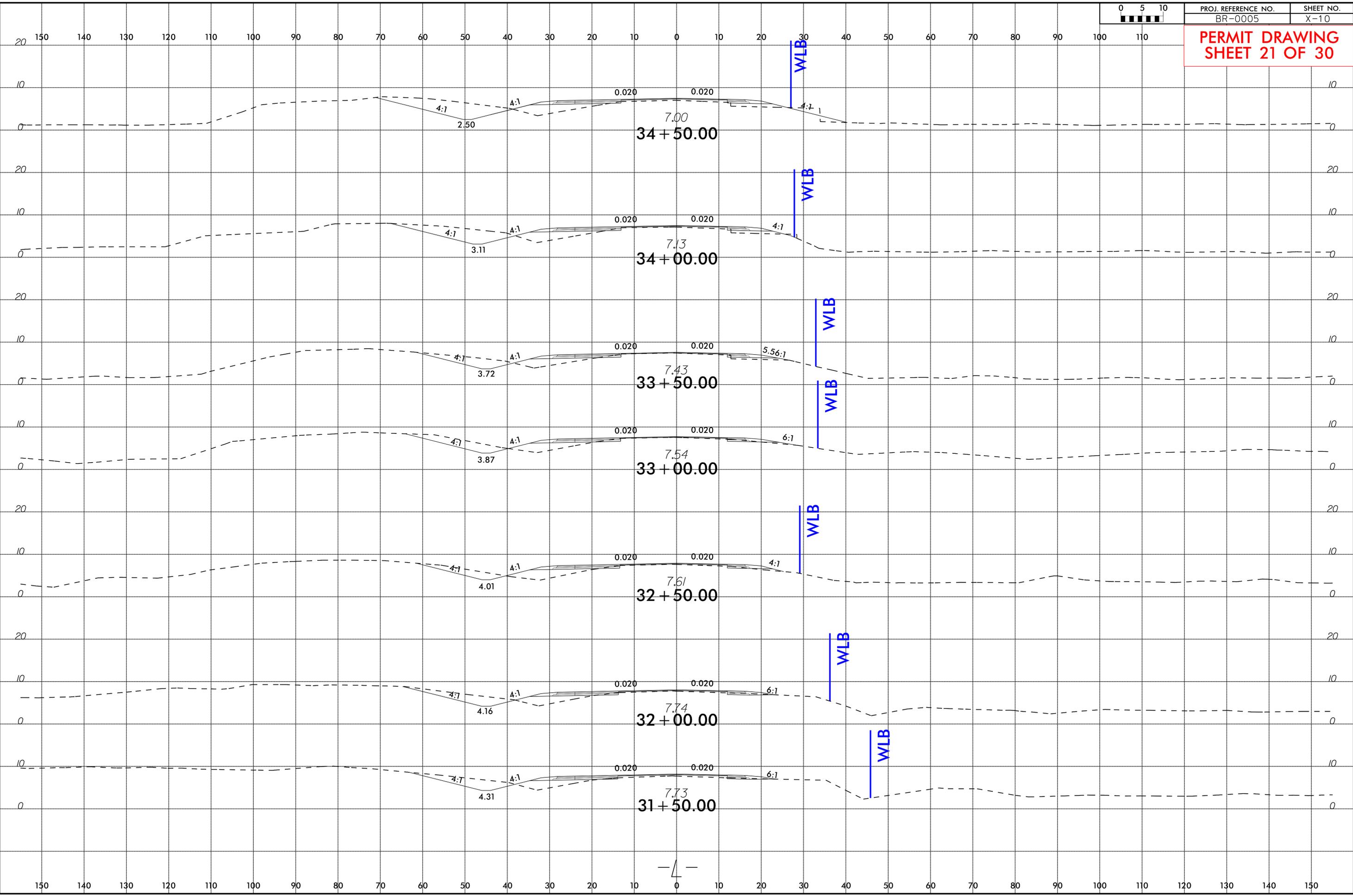
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PROJ. REFERENCE NO. BR-0005	SHEET NO. X-10
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PERMIT DRAWING
SHEET 21 OF 30

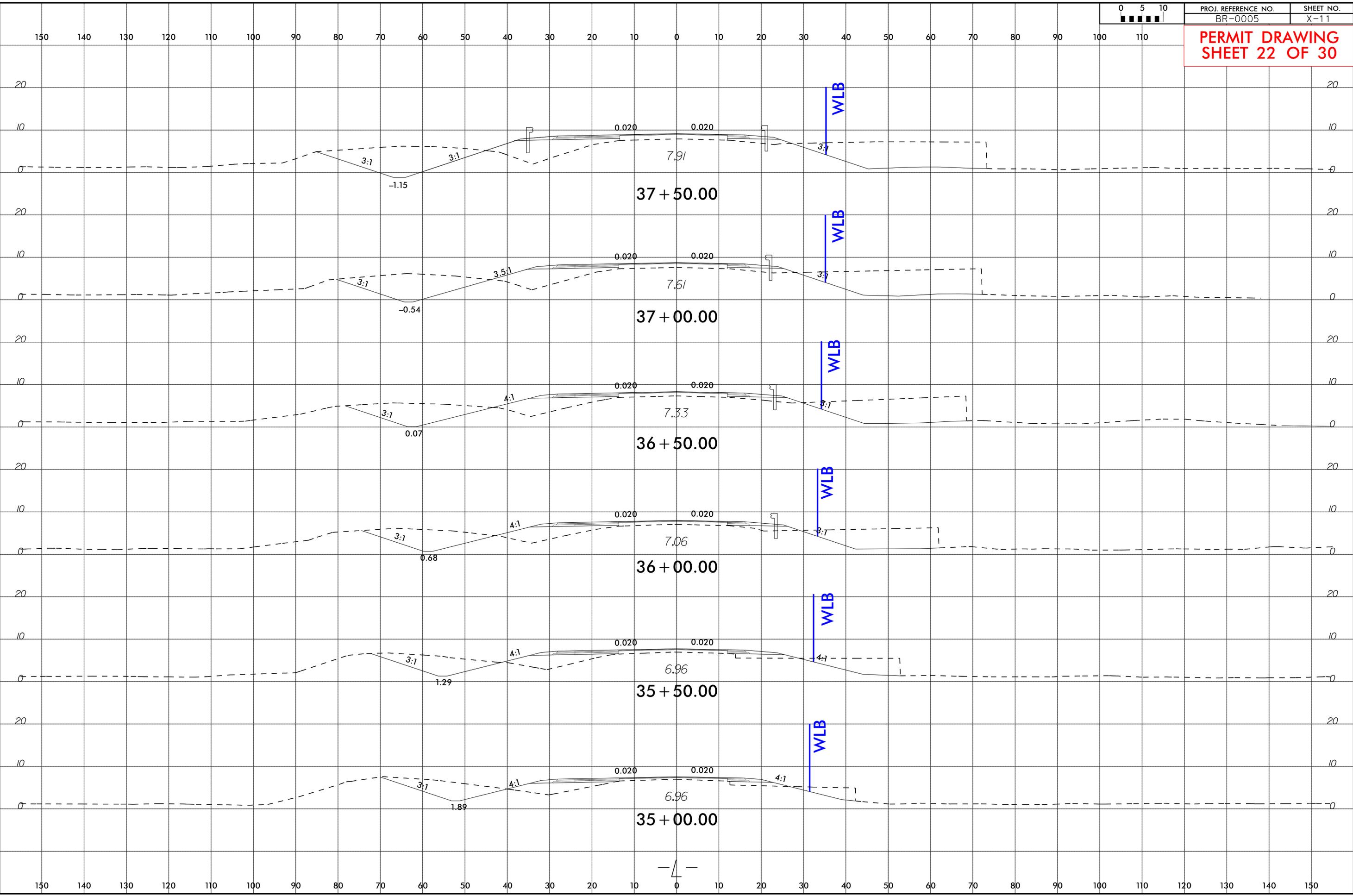


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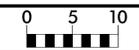


PROJ. REFERENCE NO.	SHEET NO.
BR-0005	X-11

**PERMIT DRAWING
SHEET 22 OF 30**

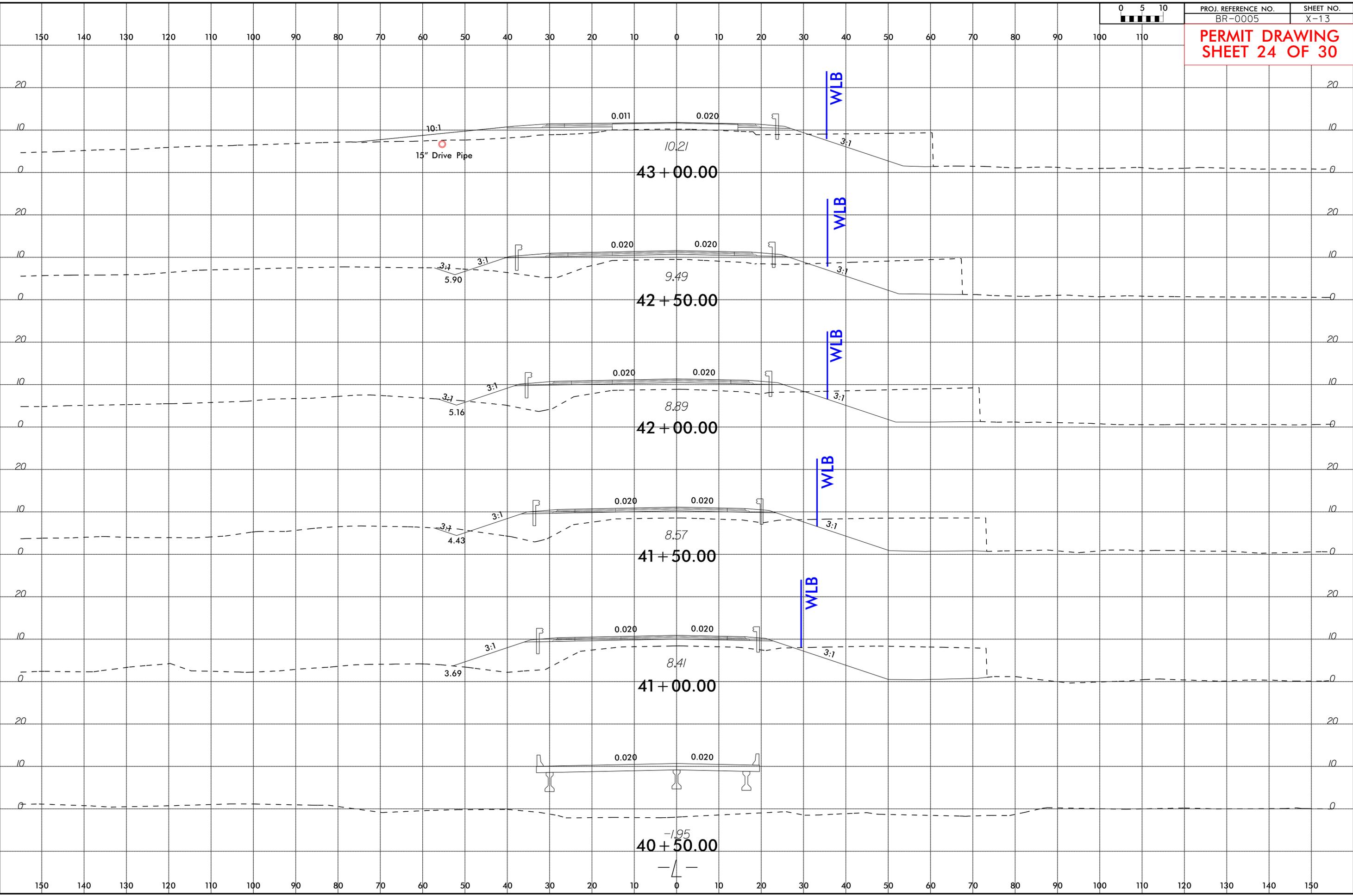


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PROJ. REFERENCE NO. BR-0005	SHEET NO. X-13
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**PERMIT DRAWING
SHEET 24 OF 30**



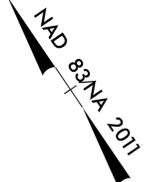
WETLAND AND SURFACE WATER IMPACTS PERMIT

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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

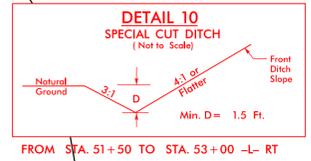
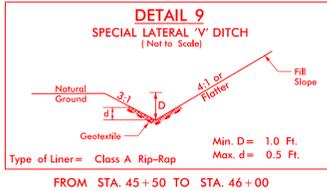
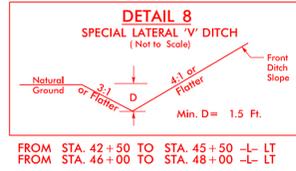
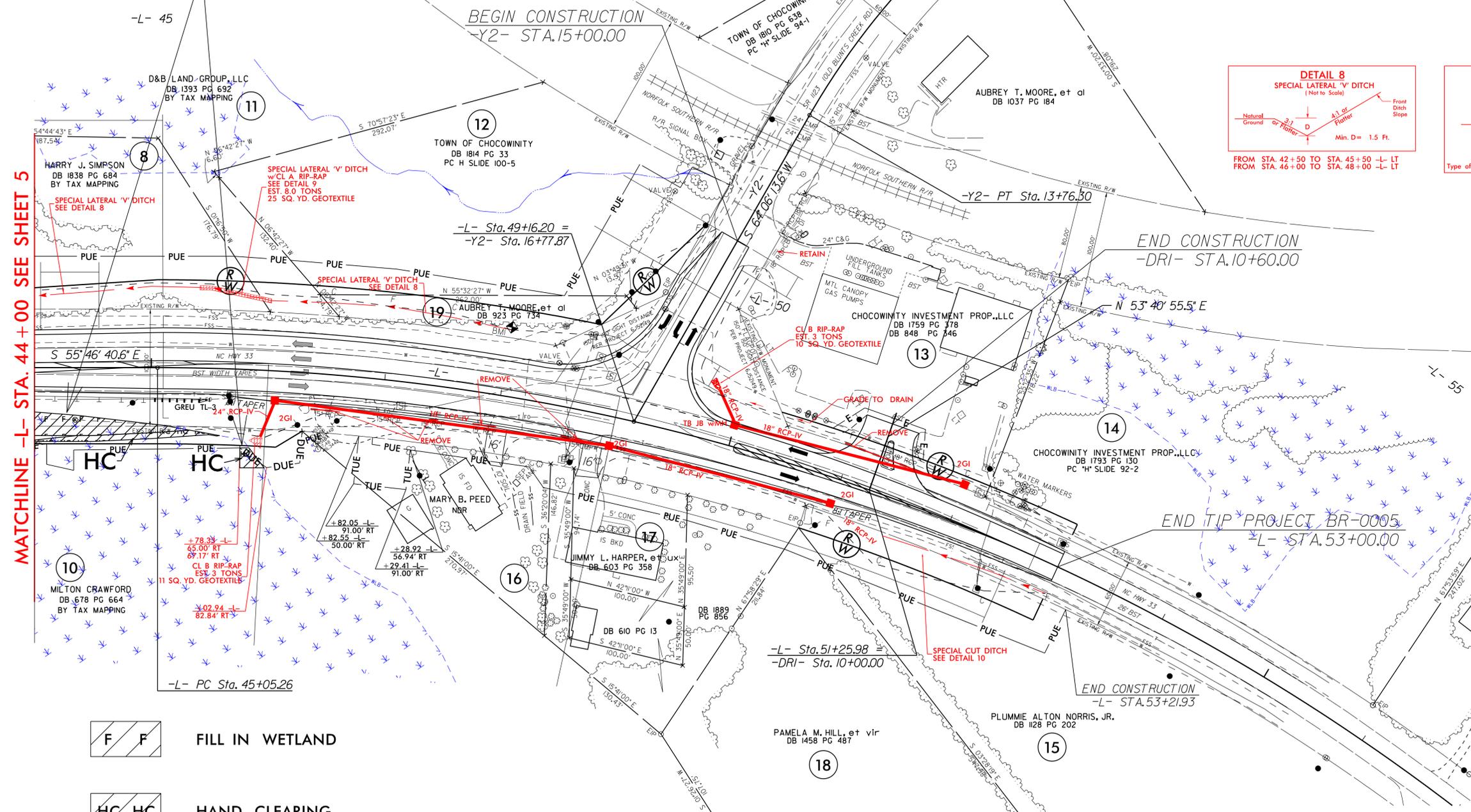
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PERMIT DRAWING SHEET 26 OF 30



SITE 4



F F FILL IN WETLAND

HC HC HAND CLEARING

REVISIONS

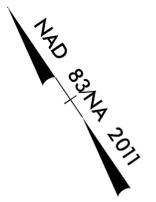
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WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. BR-0005	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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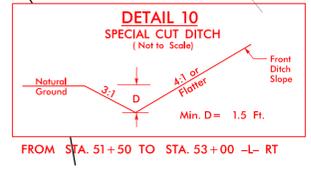
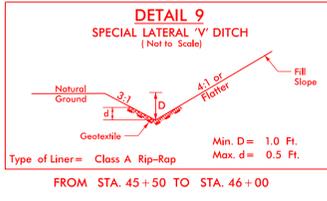
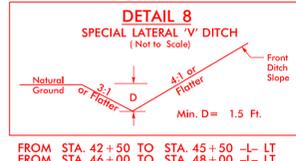
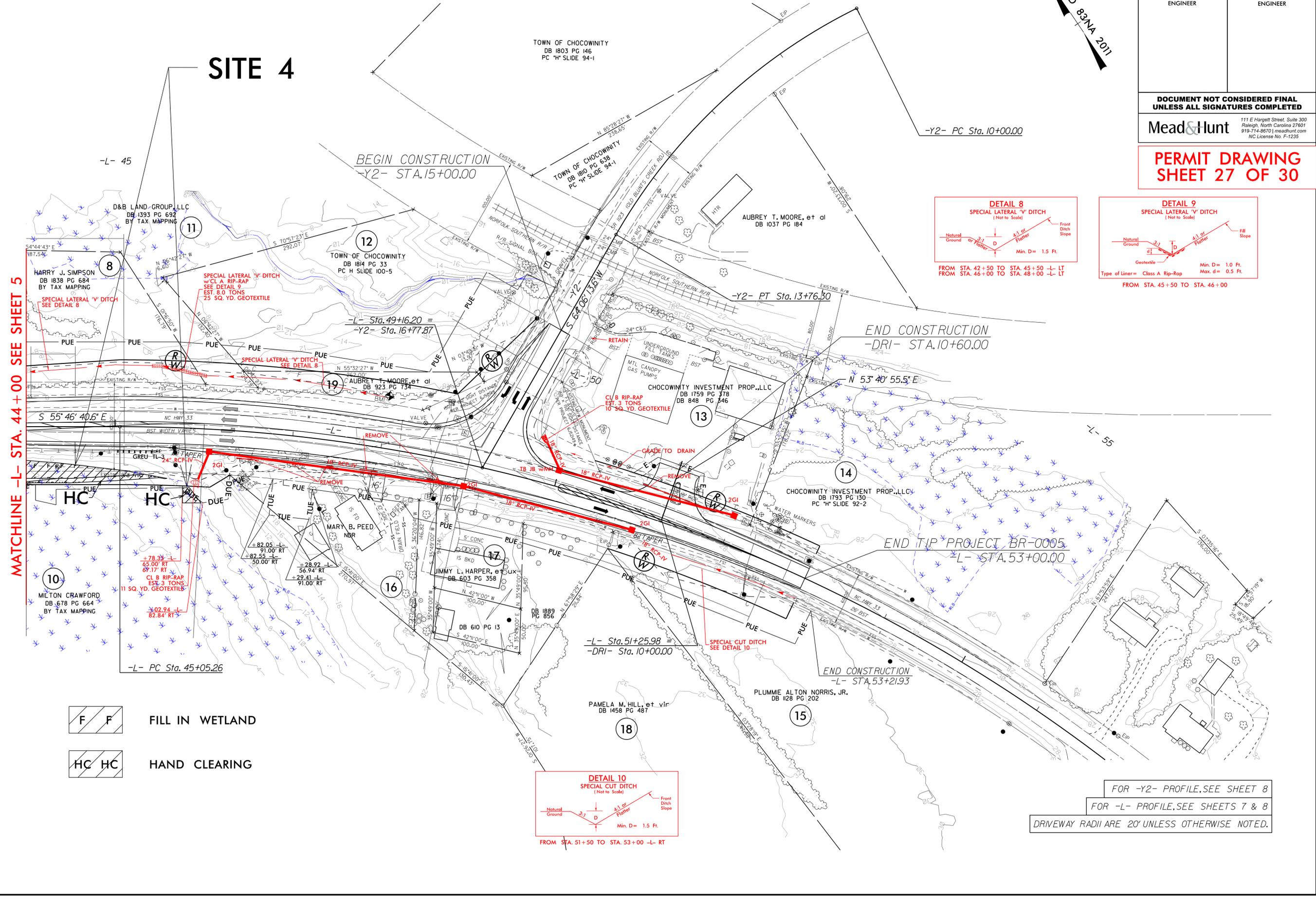
PERMIT DRAWING SHEET 27 OF 30

SITE 4



MATCHLINE -L- STA. 44+00 SEE SHEET 5

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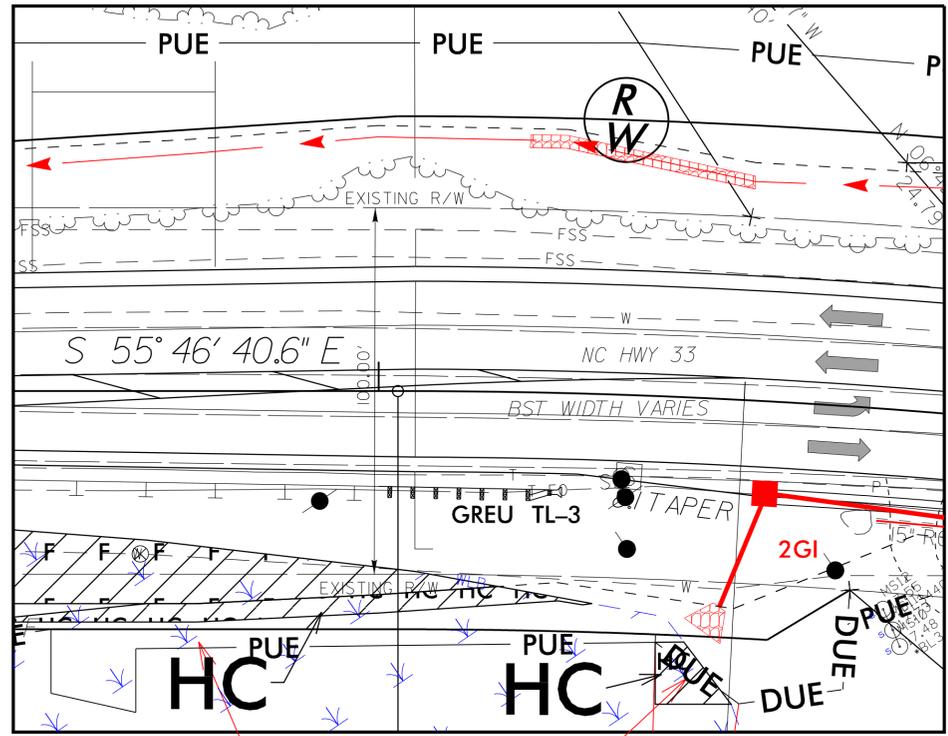
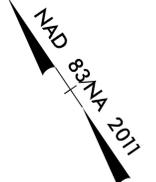
- F F FILL IN WETLAND
- HC HC HAND CLEARING

FOR -Y2- PROFILE, SEE SHEET 8

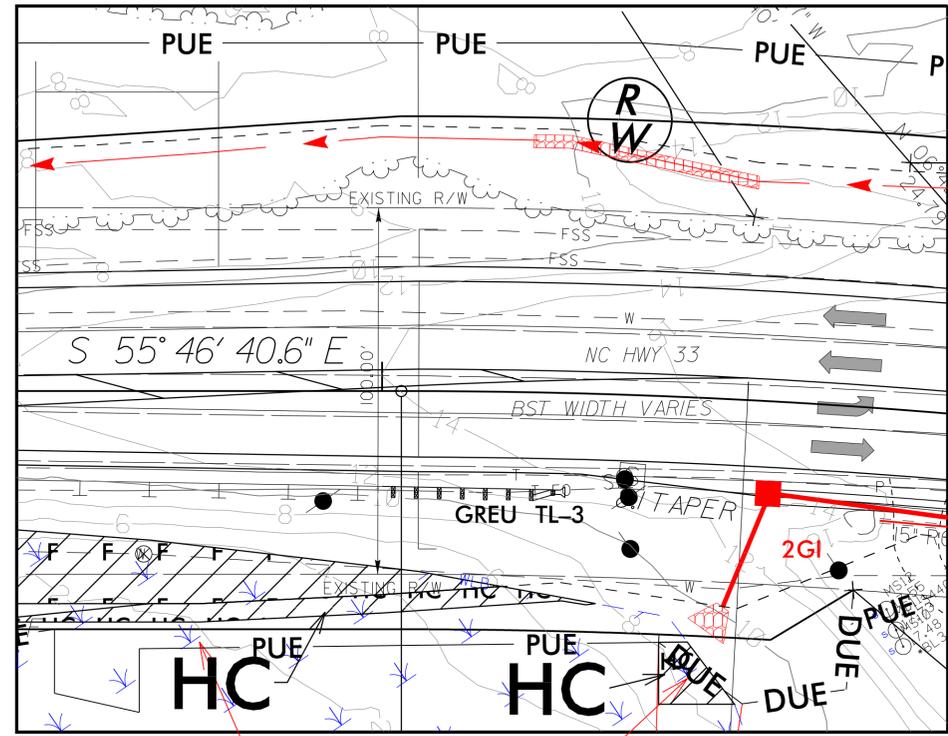
FOR -L- PROFILE, SEE SHEETS 7 & 8

DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED.

PROJECT REFERENCE NO. BR-0005	SHEET NO. 6-INSET
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
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PERMIT DRAWING SHEET 28 OF 30	

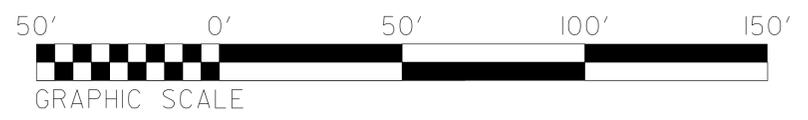


SITE 4
WETLAND IMPACTS



SITE 4
WETLAND IMPACTS

-  F F FILL IN WETLAND
-  HC HC HAND CLEARING

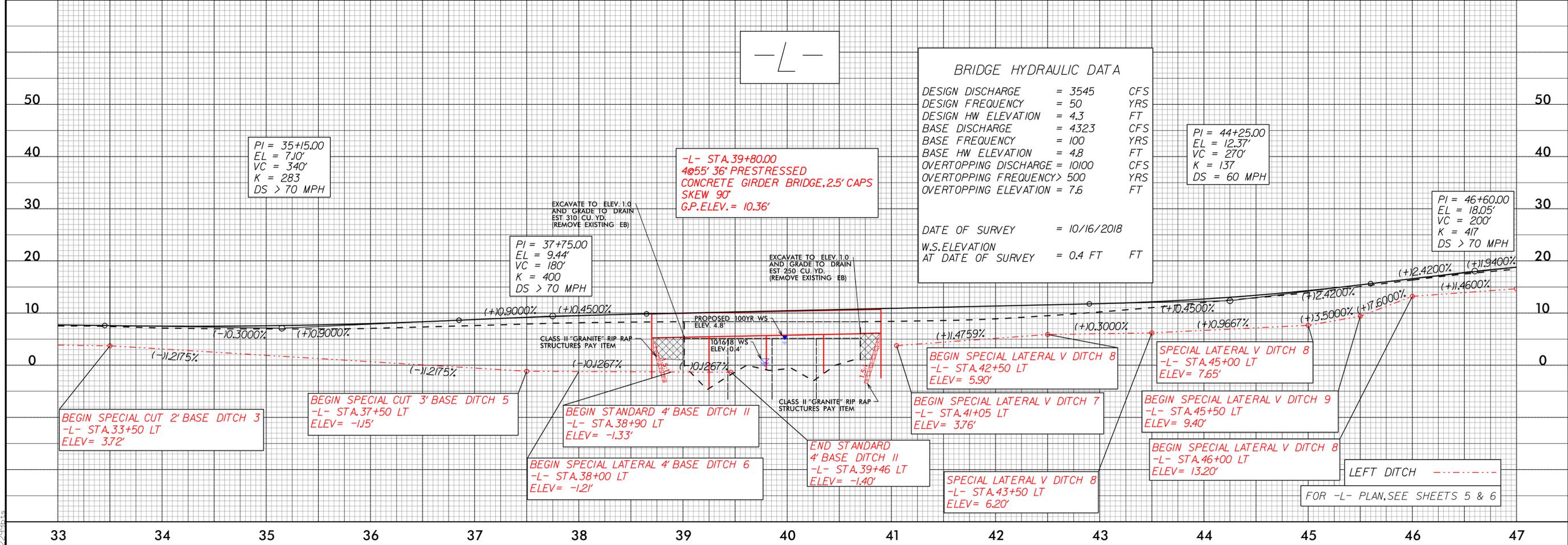
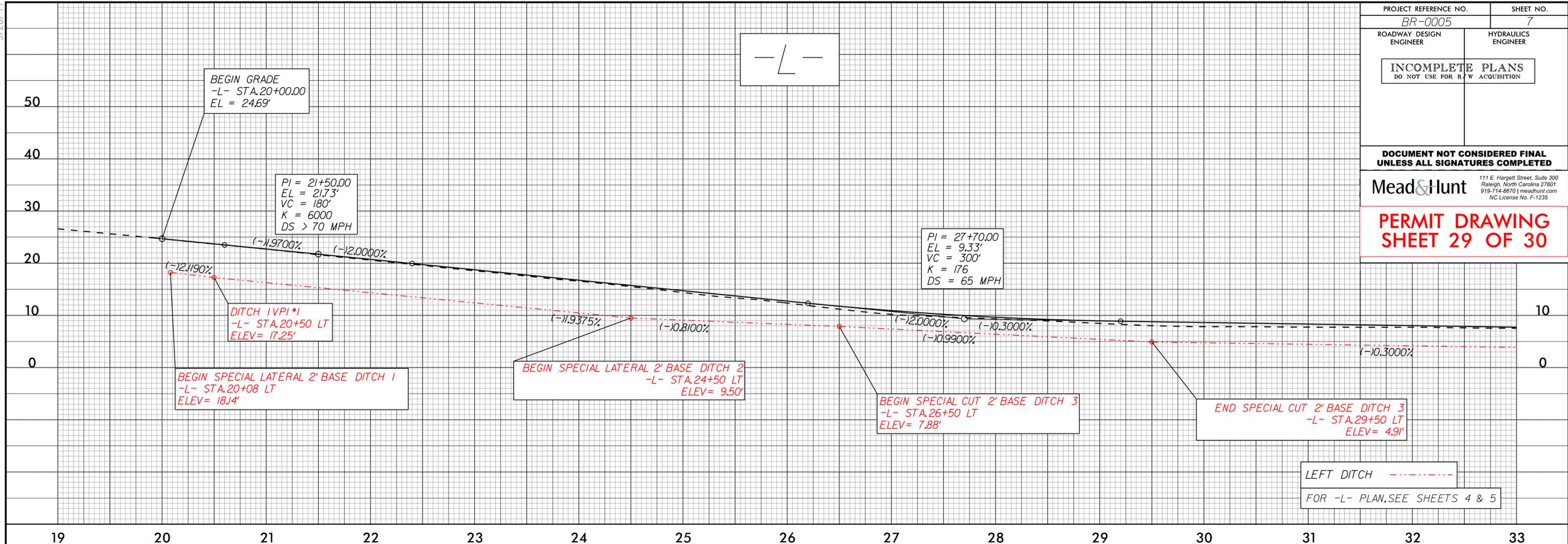


REVISIONS

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5/28/24

PROJECT REFERENCE NO. BR-0005	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
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PERMIT DRAWING SHEET 29 OF 30	



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WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 26+78 to 27+11 RT	Roadway	< 0.01				< 0.01					
2	-L- 39+05 to 40+64	Work Bridge		0.06					0.16		93	
3	-L- 39+34 to 39+51 LT	Roadway			< 0.01		< 0.01	< 0.01		23		
	-L- 39+18 to 40+50 LT	Bank Reconstruction							< 0.01		14	
4	-L- 33+80 to 45+50 RT	Roadway	0.29				0.03					
	-L- 45+75 to 45+98 RT	Roadway-Outfall Installation					< 0.01					
2	-LDET- 38+83 to 40+86 RT	Detour Bridge		0.06					0.10		77	
4	-LDET- 34+83 to 43+02 RT	Detour		0.31			0.07					
	-LDET- 38+79 to 40+85 RT	Bank Reconstruction							< 0.01		31	
TOTALS*:			0.29	0.42	< 0.01		0.12	< 0.01	0.26	23	215	0

*Rounded totals are sum of actual impacts

NOTES:

Bents in open water - 48 SF
 Bent in wetlands - 24 SF

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 11/8/2023
 BEAUFORT COUNTY
 BR-0005
 67005.1.1
 SHEET 30 OF 30

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

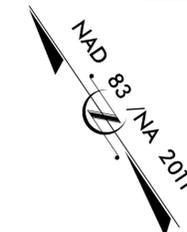
BEAUFORT COUNTY

LOCATION: BRIDGE 060075 ON NC 33 OVER CHOCOWINITY CREEK
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNAL, AND STRUCTURE

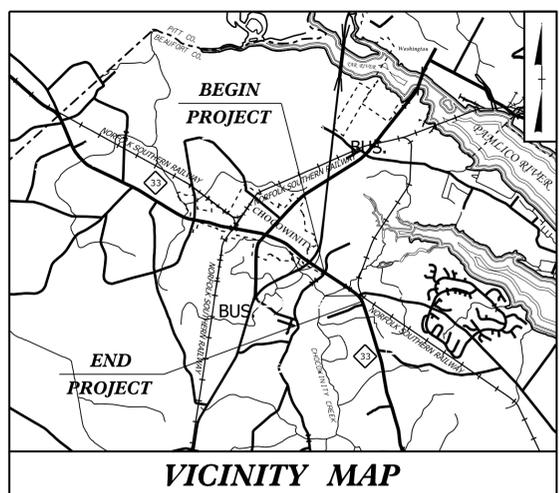
BUFFER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
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STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67005.1.1	N/A	PE	

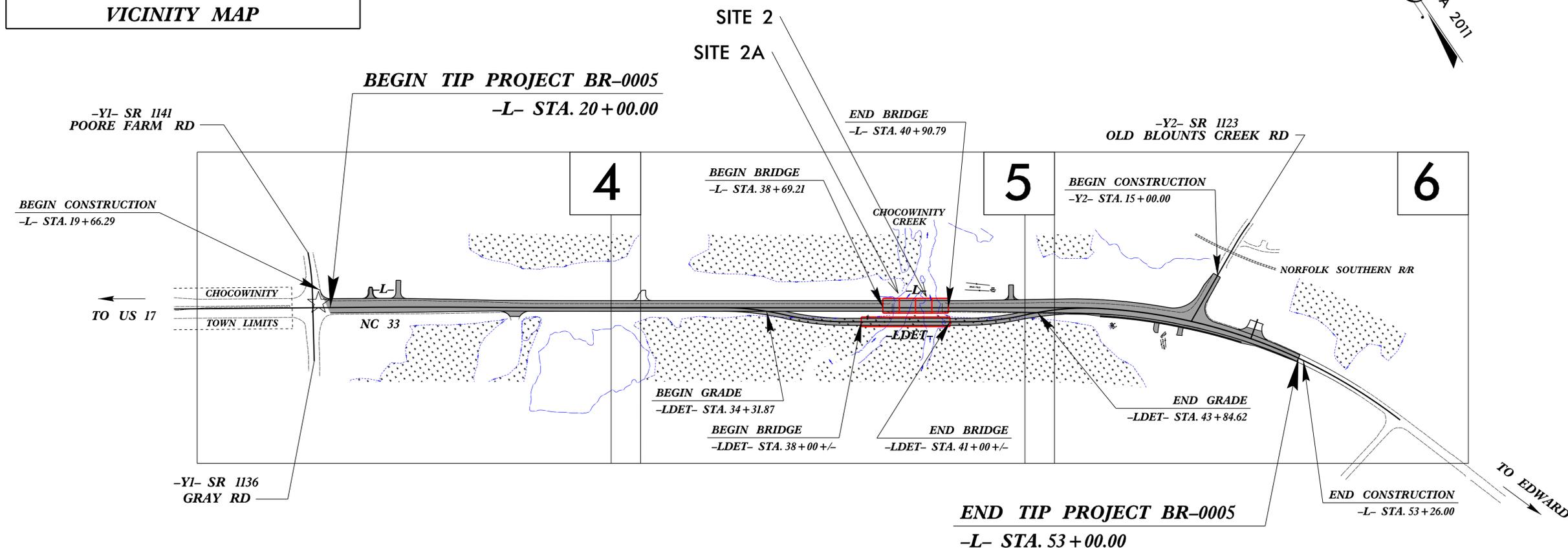
**BUFFER DRAWING
SHEET 1 OF 7**



TIP PROJECT: BR-0005



VICINITY MAP



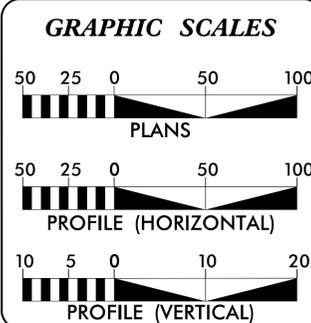
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

★ RELOCATE EXISTING SIGNAL

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2023 =	10,280
ADT 2043 =	11,370
K =	12 %
D =	60 %
T =	13 % *
V =	60 MPH
* TTST = 7% DUAL = 6%	
FUNC CLASS =	
MAJOR COLLECTOR	
REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0005	=	0.583 MILES
LENGTH STRUCTURE TIP PROJECT BR-0005	=	0.042 MILES
TOTAL LENGTH TIP PROJECT BR-0005	=	0.625 MILES

Prepared for NCDOT in the Office of:

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Raleigh, North Carolina 27601
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NC License No. F-1235

2018 STANDARD SPECIFICATIONS	RICK DECOLA, PE PROJECT ENGINEER
RIGHT OF WAY DATE: APRIL 19, 2022	TRAVIS COOK, PE PROJECT DESIGN ENGINEER
LETTING DATE: MARCH 21, 2023	DAVID STUTTS, PE NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



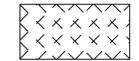
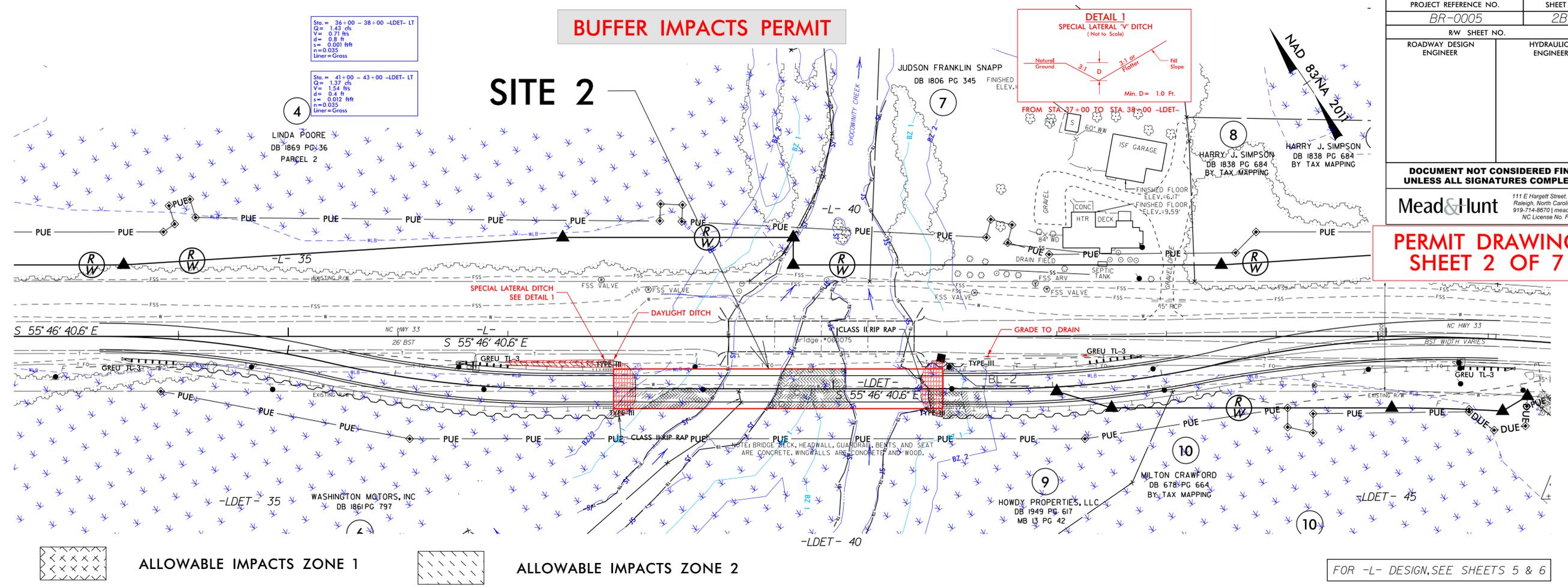
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BUFFER IMPACTS PERMIT

SITE 2

PROJECT REFERENCE NO. BR-0005	SHEET NO. 2B-1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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PERMIT DRAWING SHEET 2 OF 7



ALLOWABLE IMPACTS ZONE 1



ALLOWABLE IMPACTS ZONE 2

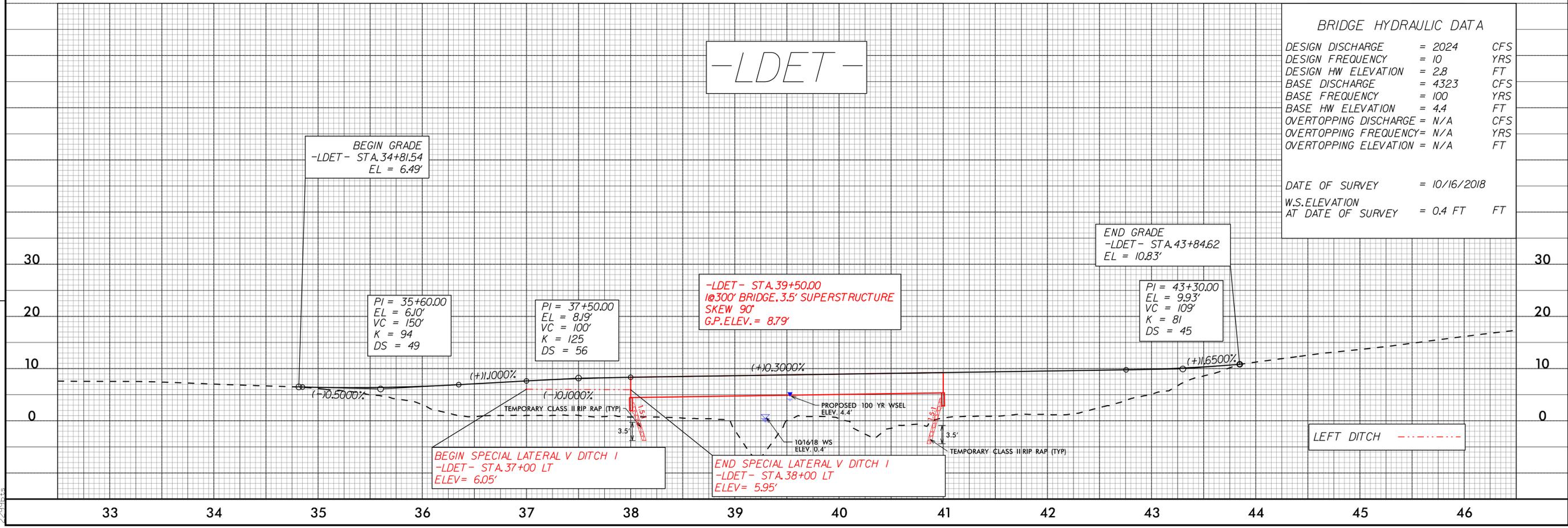
FOR -L- DESIGN, SEE SHEETS 5 & 6

-LDET-

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 2024	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 2.8	FT
BASE DISCHARGE	= 4323	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 4.4	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING ELEVATION	= N/A	FT

DATE OF SURVEY = 10/16/2018
 W.S. ELEVATION AT DATE OF SURVEY = 0.4 FT FT



REVISIONS

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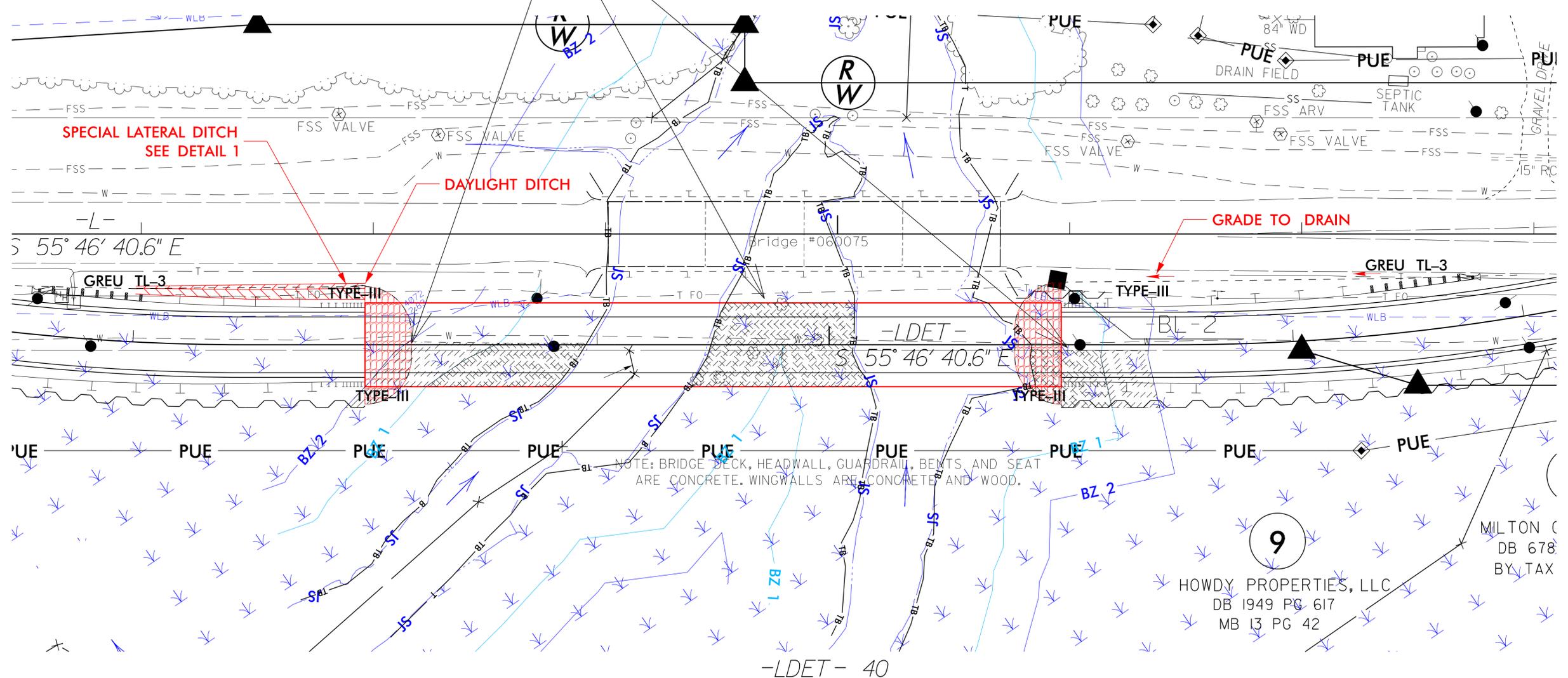
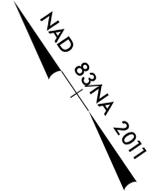
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

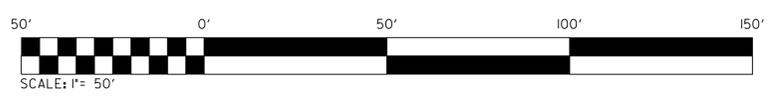
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BUFFER DRAWING SHEET 3 OF 7

SITE 2



-  ALLOWABLE IMPACTS ZONE 1
-  ALLOWABLE IMPACTS ZONE 2



9
 HOWDY PROPERTIES, LLC
 DB 1949 PG 617
 MB 13 PG 42
 MILTON C DB 678 BY TAX

BRIDGE APPROACH SLAB
 FOR -LREV- PROFILE, SEE SHEET 5
 FOR -DET- DESIGN, SEE SHEET 2-B

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-23

REVISIONS

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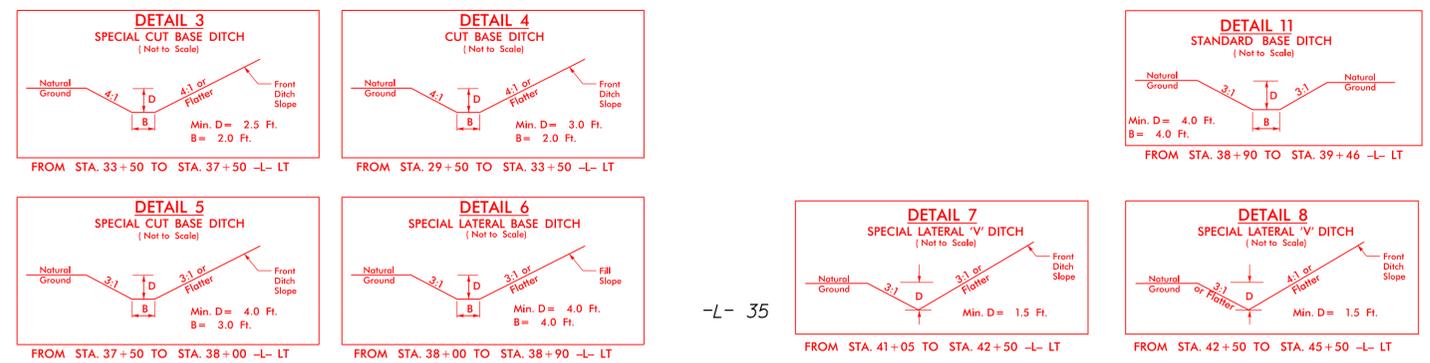
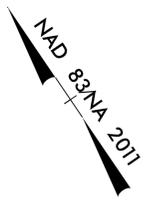
BUFFER IMPACTS PERMIT

PROJECT REFERENCE NO. BR-0005	SHEET NO. 5
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

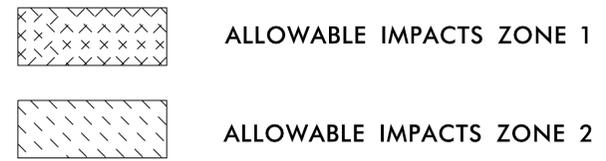
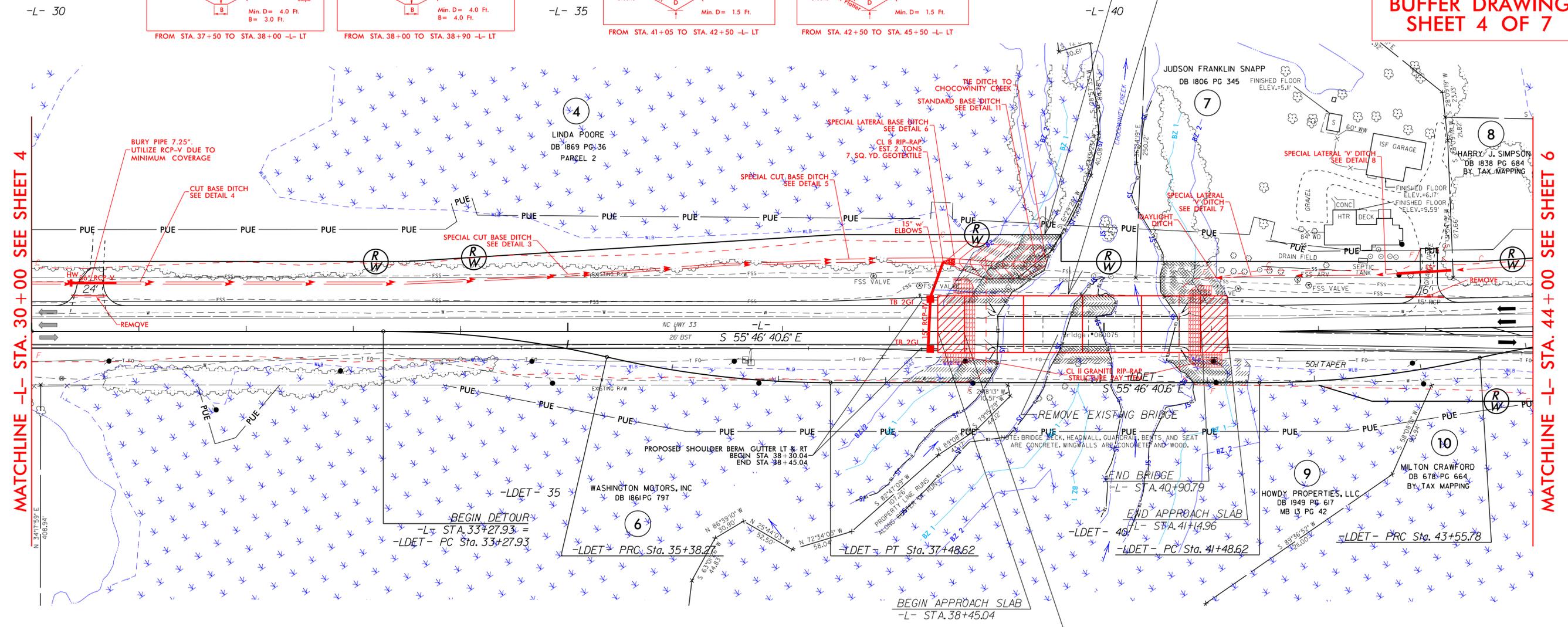
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Raleigh, North Carolina 27601
919-714-8870 | meadandhunt.com
NC License No. F-1235

BUFFER DRAWING SHEET 4 OF 7



Sta. = 37+50 TO 39+46 -L- LT
Q = 37.8 cfs
V = 1.61 ft/s
d = 2.2 ft
n = 0.001 ft/s
r = 0.035
Liner = Grass

SITE 2A SITE 2



FOR -L- PROFILE, SEE SHEET 7

BRIDGE APPROACH SLAB

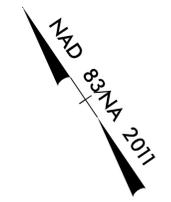
FOR DETOUR DESIGN, SEE SHEET 2B-I

DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

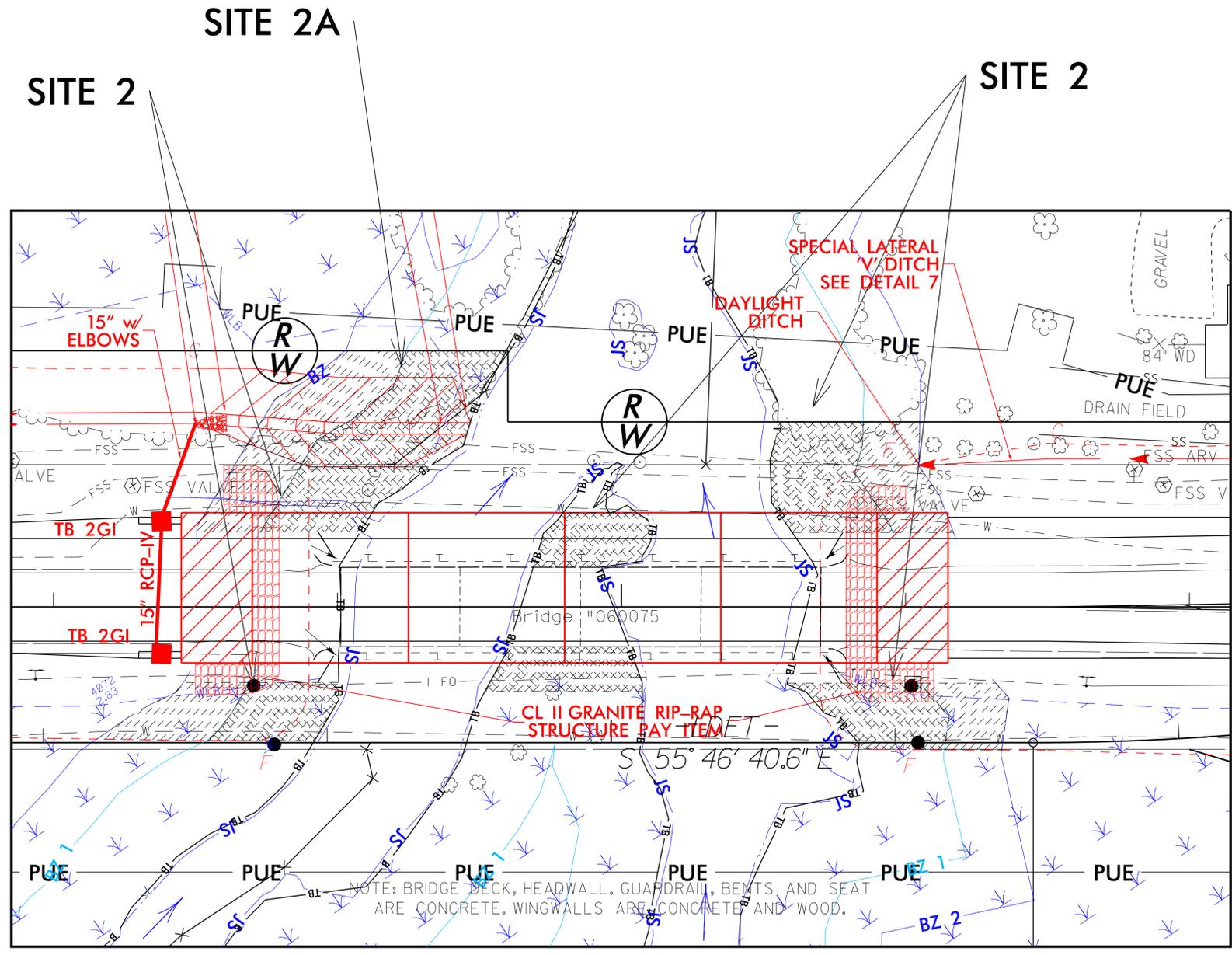
REVISIONS

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BUFFER IMPACTS PERMIT

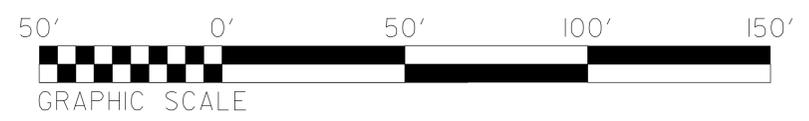


PROJECT REFERENCE NO. <i>BR-0005</i>	SHEET NO. <i>5-INSET</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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BUFFER DRAWING SHEET 5 OF 7	



SITE 2 - BUFFER IMPACTS

-  ALLOWABLE IMPACTS ZONE 1
-  ALLOWABLE IMPACTS ZONE 2



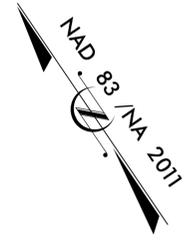
REVISIONS

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T.I.P. NO.	SHEET NO.
BR-0005	UE-1

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

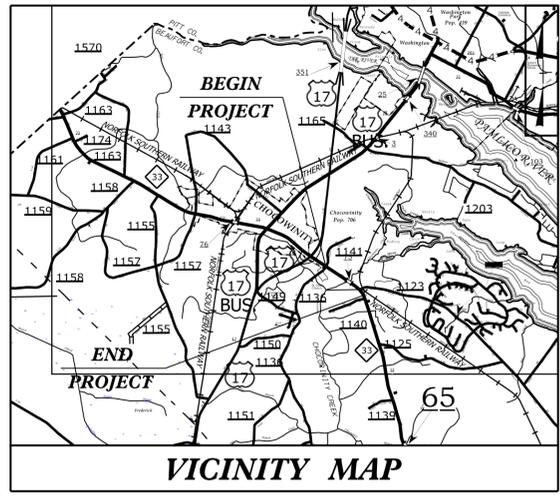
PERMIT DRAWING
SHEET 1 OF 15



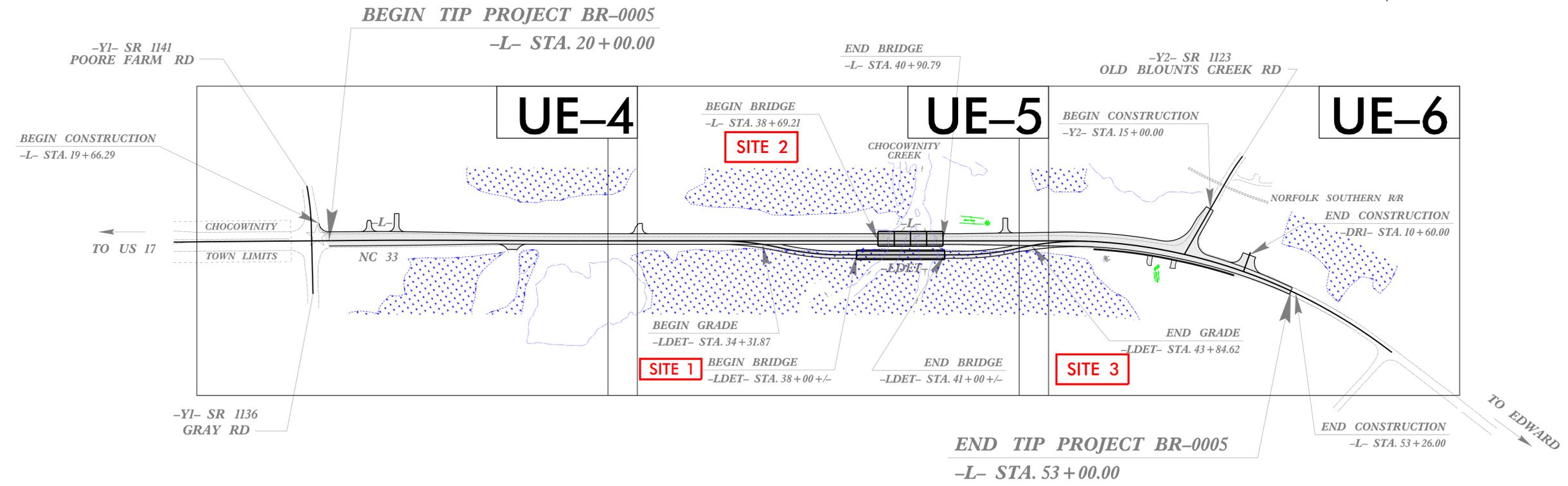
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY PERMIT DRAWINGS BEAUFORT COUNTY

WETLAND AND SURFACE WATER IMPACTS PERMIT

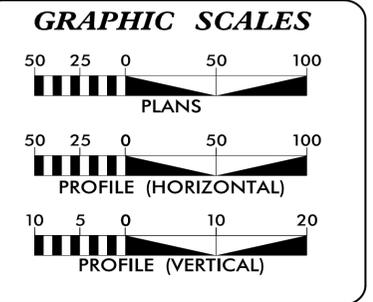


TIP PROJECT: BR-0005



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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UE-1	WETLAND IMPACT TITLE SHEET
UE-2 THRU UE-4	UTILITY WETLAND IMPACTS
UE-5 THRU UE-11	UTILITY PROFILES

UTILITY OWNERS WITH CONFLICTS

- (A) WATER - TOWN OF CHOCOWINITY
- (B) SANITARY SEWER - TOWN OF CHOCOWINITY
- (C) WATER - BEAUFORT COUNTY
- (D) POWER - DUKE ENERGY
- (E) TELECOM - CENTURYLINK
- (F) TELECOM - SUDDENLINK

PREPARED IN THE OFFICE OF:

Mead&Hunt

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Raleigh, North Carolina 27601
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NC License No. F-1235

Jason Boyer, PE	PROJECT MANAGER
Jennifer Smith, PE	PROJECT UTILITY MANAGER
Jennifer Smith, PE	PROJECT UTILITY COORDINATOR

**DIVISION OF HIGHWAYS
UTILITIES UNIT**
1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

Nabil Hamden	UTILITIES REGIONAL ENGINEER
Tyron Stallings	UTILITIES ENGINEER
Tanga Sampson	UTILITIES AREA COORDINATOR
Tyron Stallings	UTILITIES COORDINATOR

27-OCT-2023 11:51 X:\4306200\180805_01\TECH\Utilities\UB0\Environmental\Permit Drawings\BR-0005_Ut_tsh_UE1_psh.dgn \$\$\$USERNAME\$\$\$

UTILITIES BY OTHERS

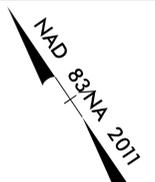
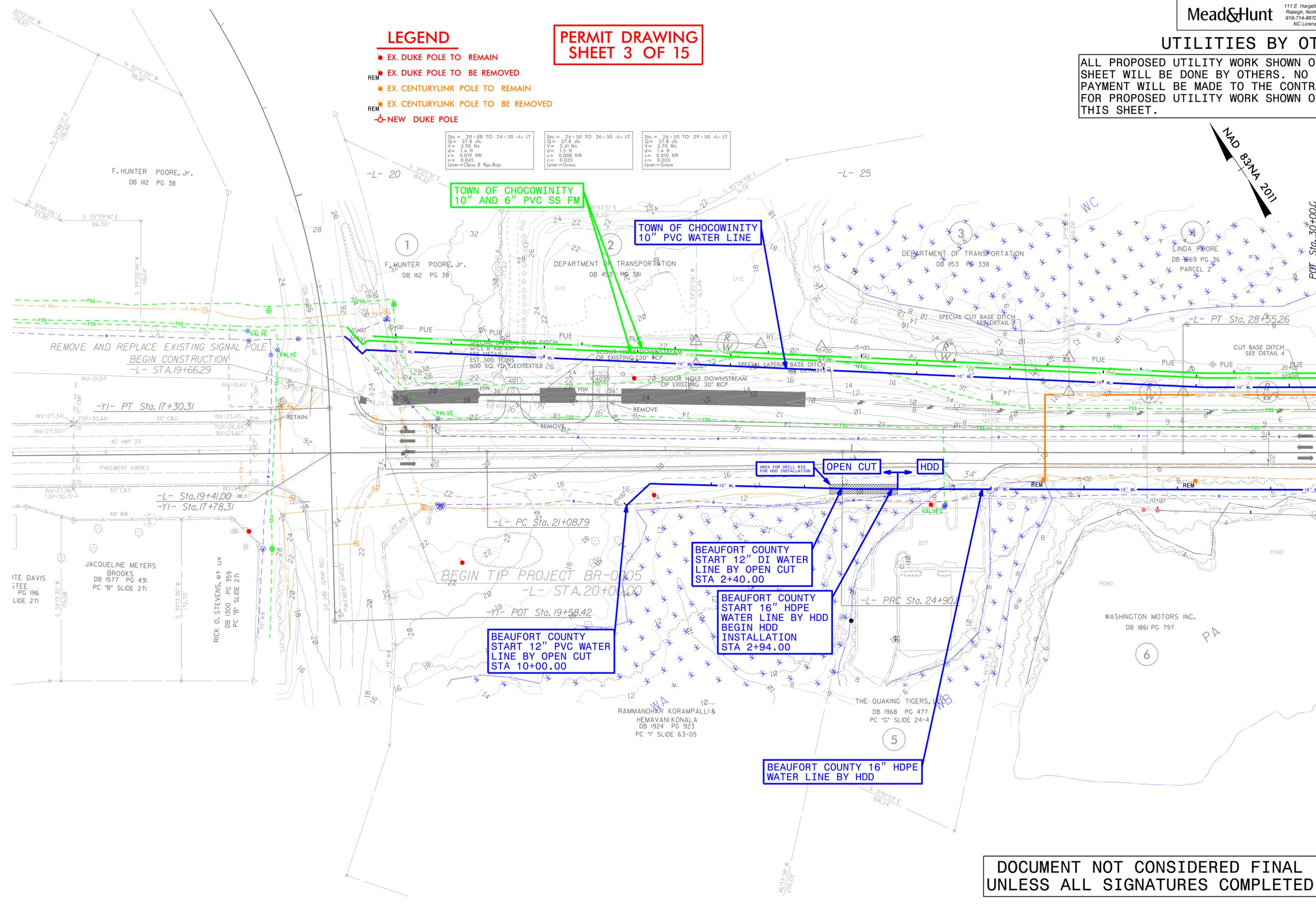
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

LEGEND

- EX. DUKE POLE TO REMAIN
- EX. DUKE POLE TO BE REMOVED
- EX. CENTURYLINK POLE TO REMAIN
- EX. CENTURYLINK POLE TO BE REMOVED
- NEW DUKE POLE

PERMIT DRAWING SHEET 3 OF 15

Sta. = 20+08 TO 24+50 -L- LT Q = 37.8 cfs V = 3.90 f/s d = 1.4 ft s = 0.019 f/ft r = 0.045 Liner = Class B Rip-Rap	Sta. = 24+50 TO 26+50 -L- LT Q = 37.8 cfs V = 3.41 f/s d = 1.5 ft s = 0.008 f/ft r = 0.035 Liner = Grass	Sta. = 26+50 TO 29+50 -L- LT Q = 37.8 cfs V = 3.70 f/s d = 1.4 ft s = 0.010 f/ft r = 0.035 Liner = Grass
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MATCHLINE -L- STA. 30+00 SEE SHEET UE-3

5/14/99

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Permit Drawings\BR0005_Ut.-rdy04_UE2.psh-contents.dgn

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PROJECT REFERENCE NO.	SHEET NO.
BR-0005	UE-3
THIS SHEET CORRESPONDS TO RDY-5	
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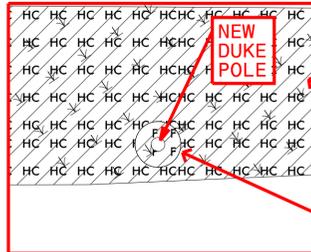
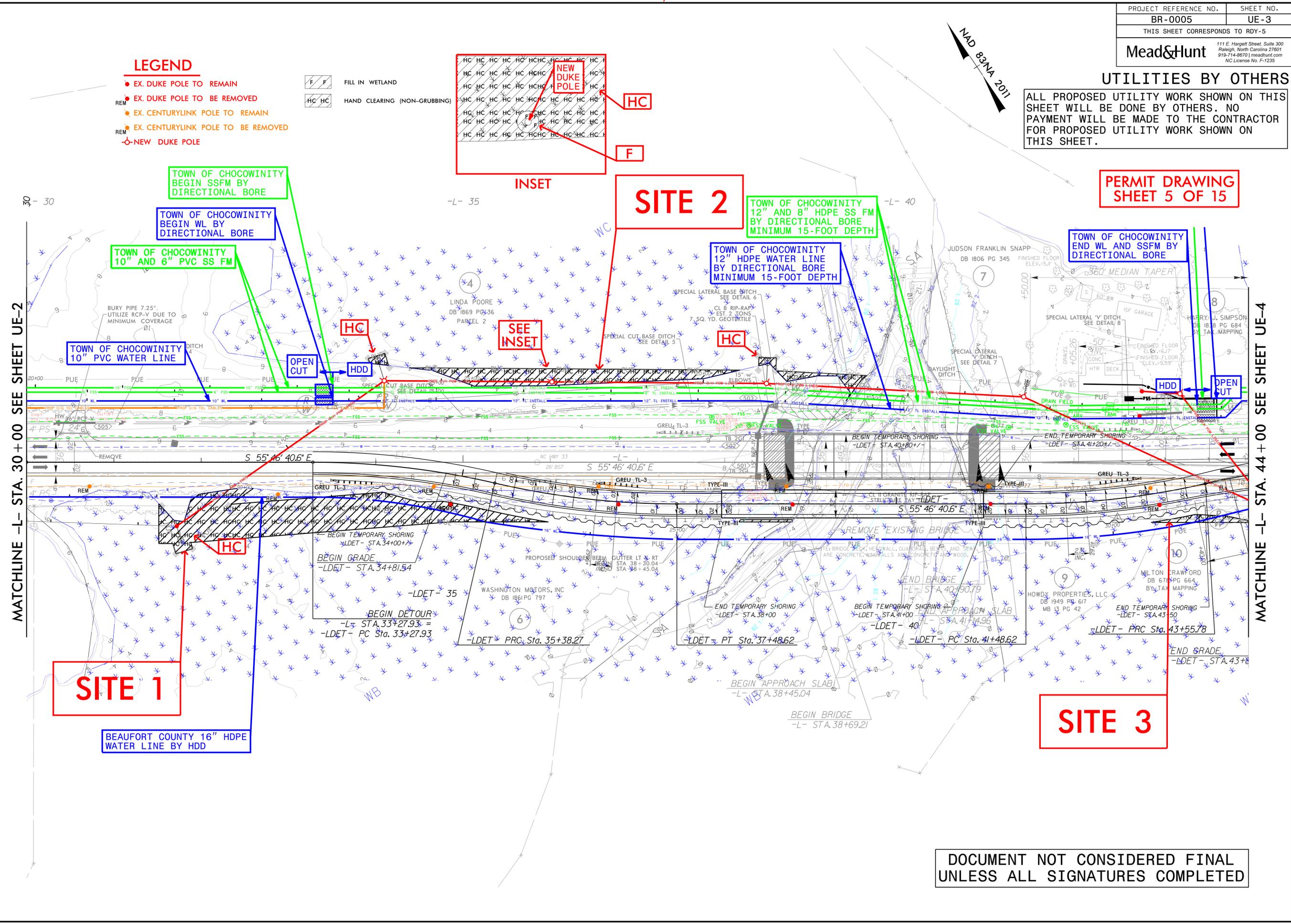
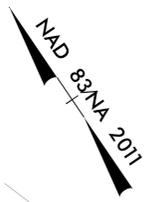
UTILITIES BY OTHERS

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- EX. DUKE POLE TO BE REMOVED
- EX. CENTURYLINK POLE TO REMAIN
- EX. CENTURYLINK POLE TO BE REMOVED
- NEW DUKE POLE

- F F FILL IN WETLAND
- HC HC HAND CLEARING (NON-GRUBBING)



SITE 2

SITE 1

SITE 3

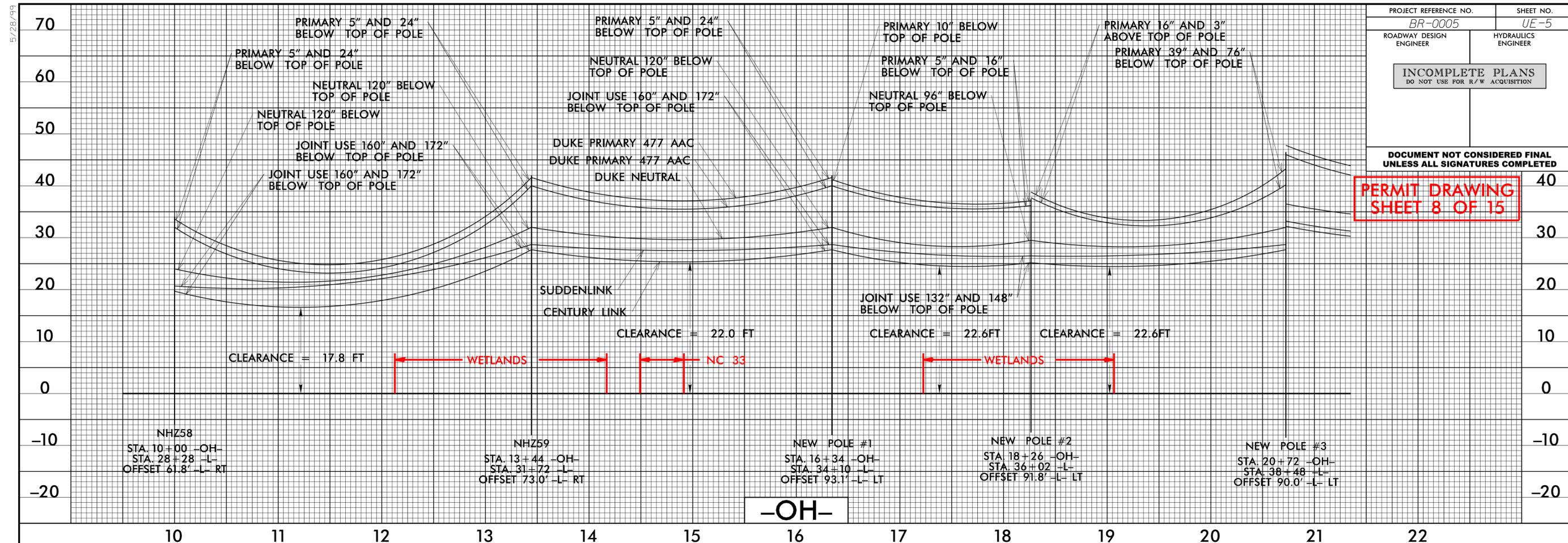
MATCHLINE -L- STA. 30+00 SEE SHEET UE-2

MATCHLINE -L- STA. 44+00 SEE SHEET UE-4

DOCUMENT NOT CONSIDERED FINAL
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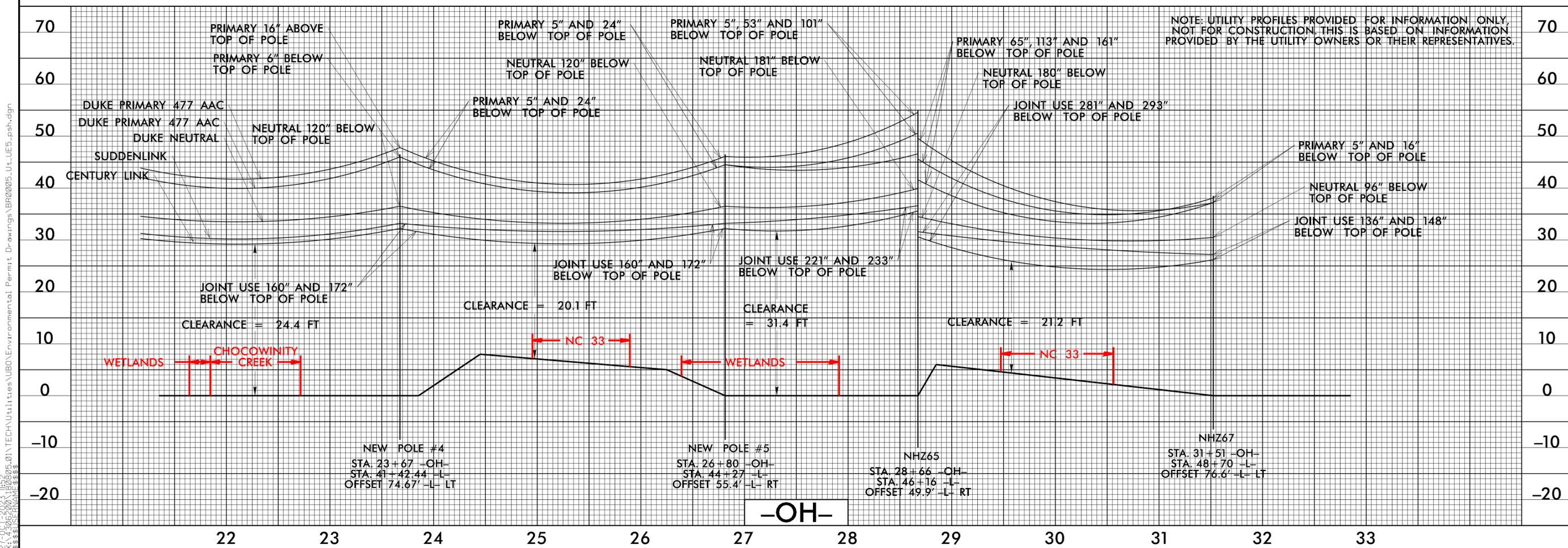
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PROJECT REFERENCE NO. BR-0005	SHEET NO. UE-5
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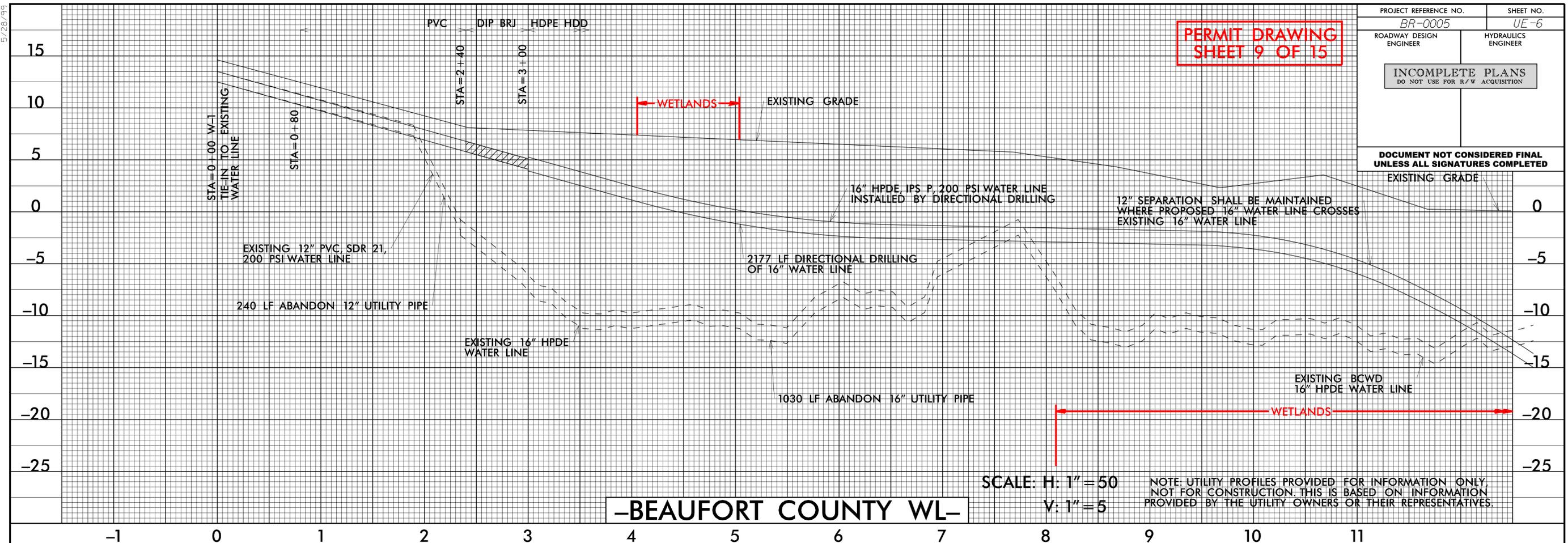
PERMIT DRAWING
SHEET 8 OF 15



NOTE: UTILITY PROFILES PROVIDED FOR INFORMATION ONLY, NOT FOR CONSTRUCTION. THIS IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS OR THEIR REPRESENTATIVES.

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**PERMIT DRAWING
SHEET 9 OF 15**

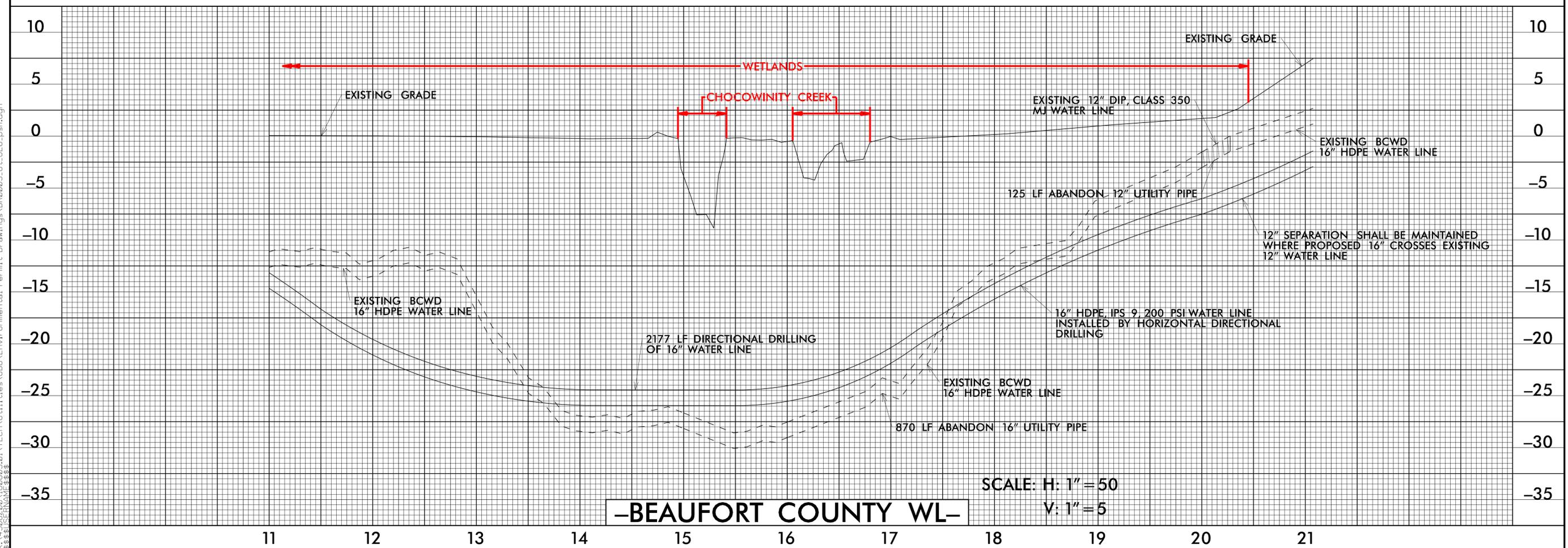
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-BEAUFORT COUNTY WL-

SCALE: H: 1" = 50
V: 1" = 5

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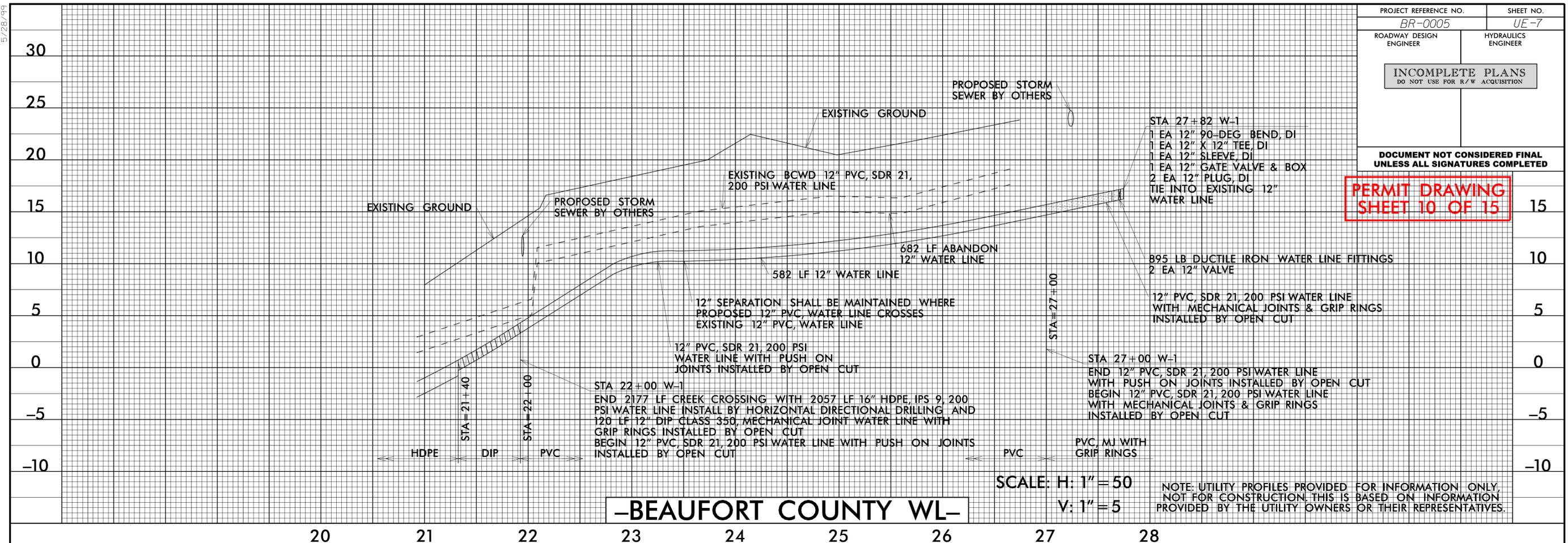
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-BEAUFORT COUNTY WL-

SCALE: H: 1" = 50
V: 1" = 5

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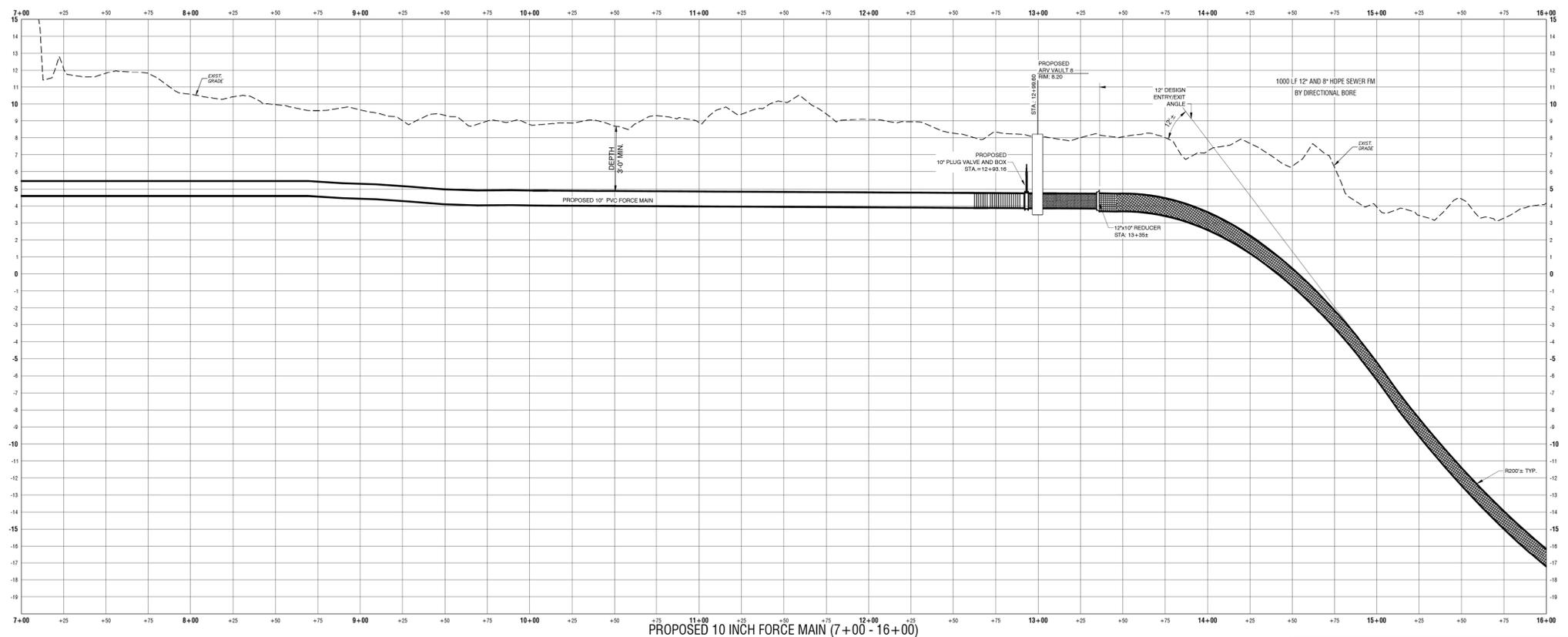


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PROJECT REFERENCE NO. <i>BR-0005</i>	SHEET NO. <i>UE-8</i>
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 11 OF 15



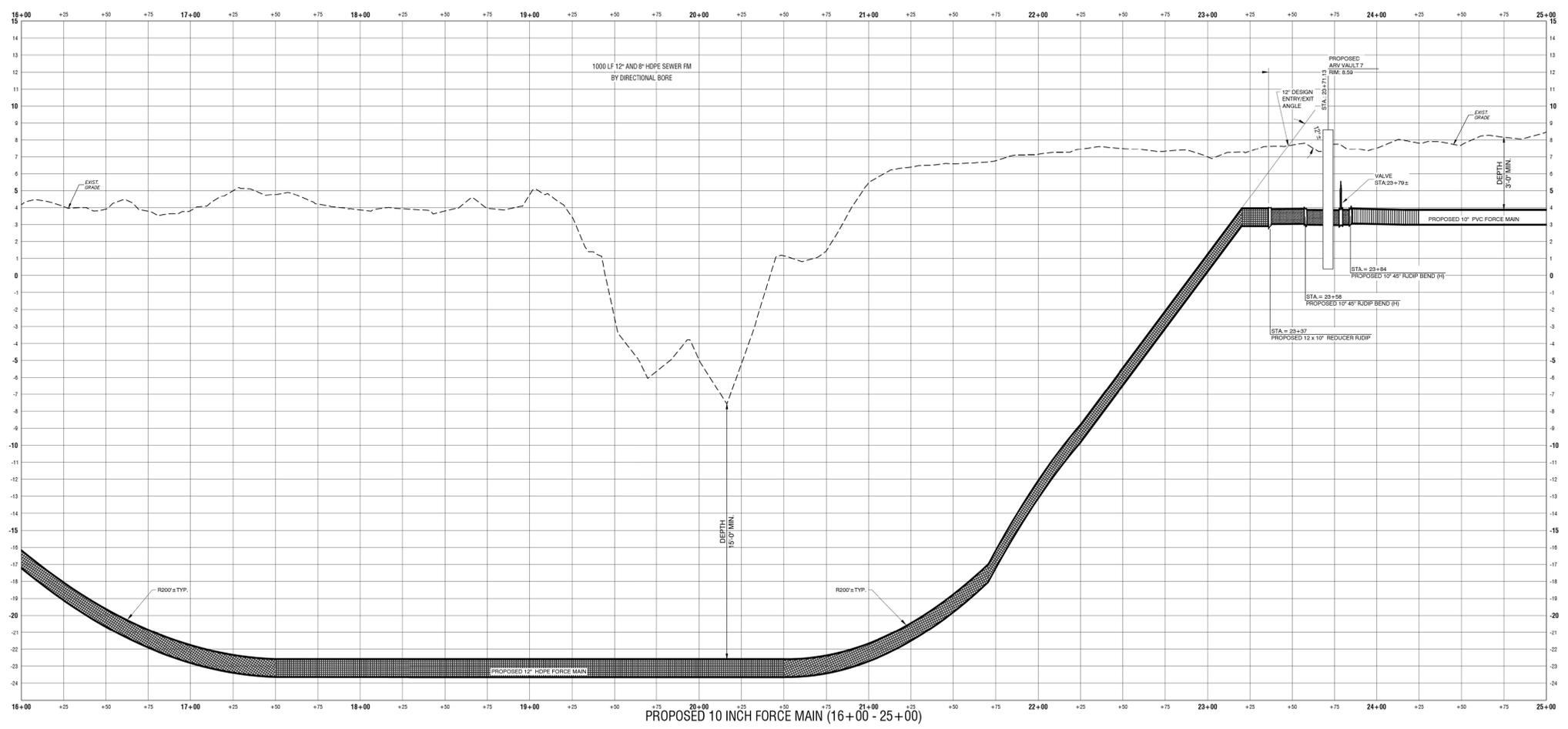
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PERMIT DRAWING
SHEET 12 OF 15



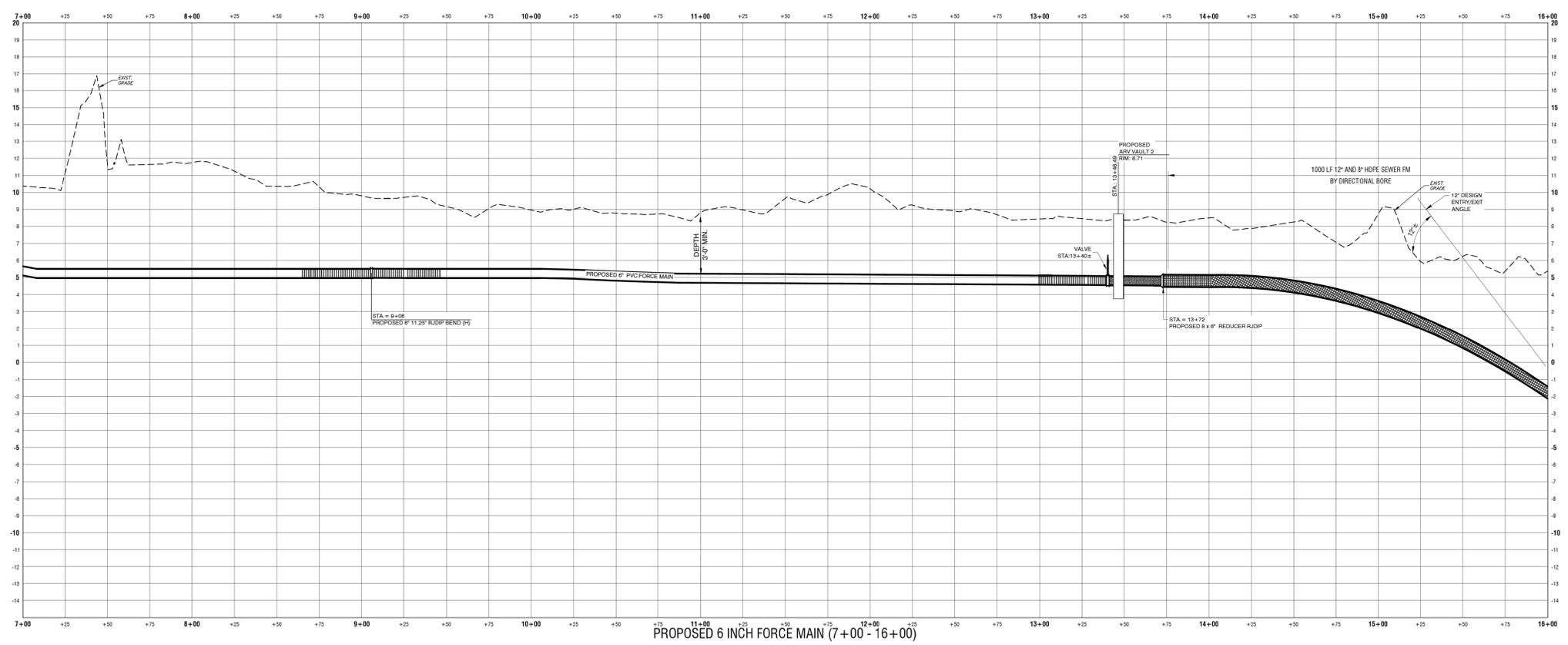
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 13 OF 15



-TOWN OF CHOCOWINITY SEWER FORCE MAIN-

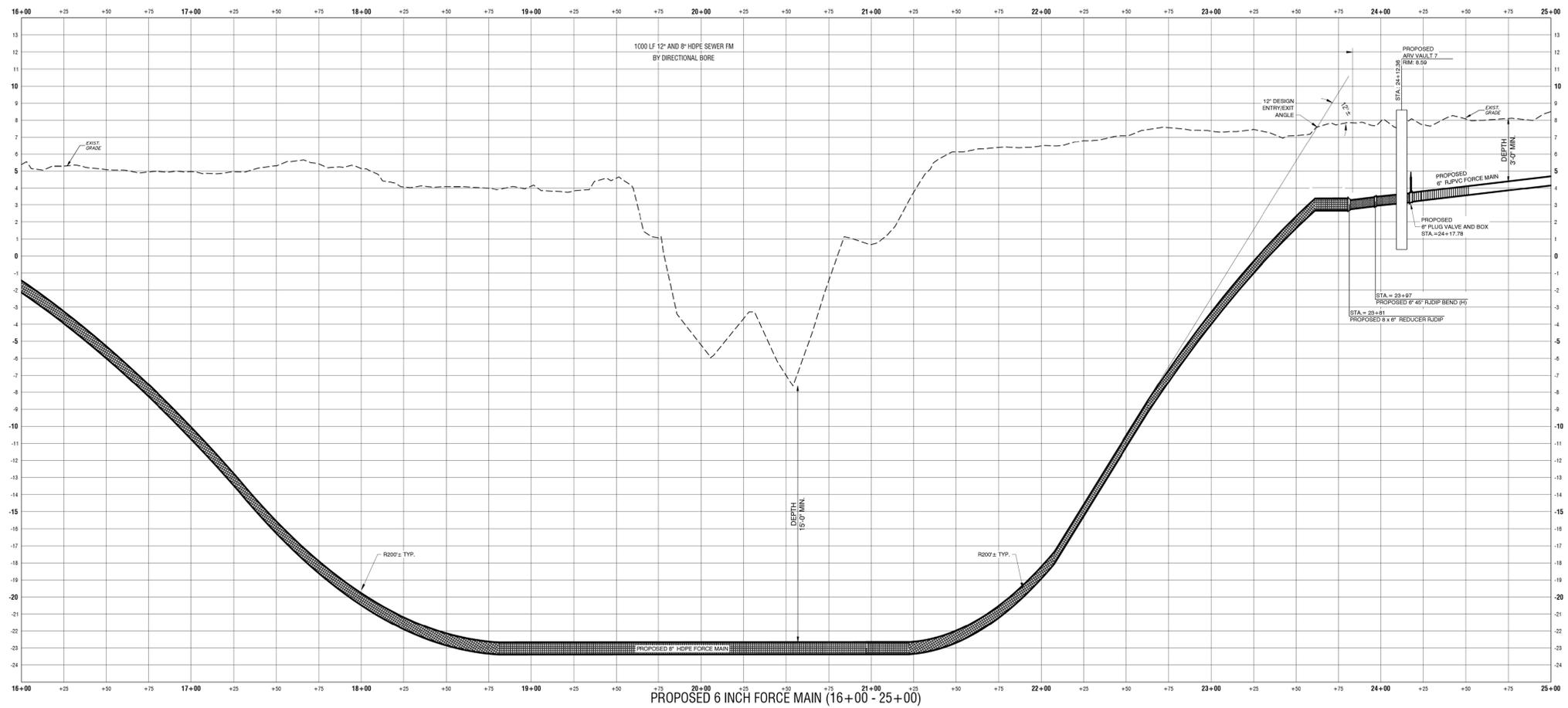
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PERMIT DRAWING
SHEET 14 OF 15

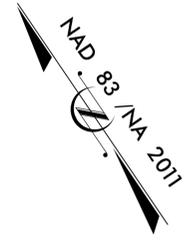


-TOWN OF CHOCOWINITY SEWER FORCE MAIN-

T.I.P. NO.	SHEET NO.
BR-0005	UE-1B

NOTE:
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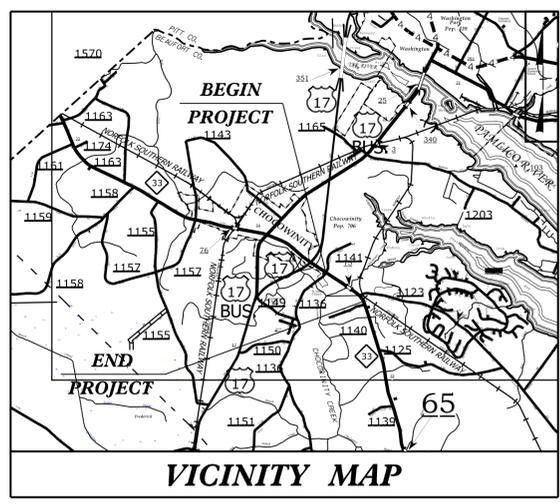
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SHEET 1 OF 4



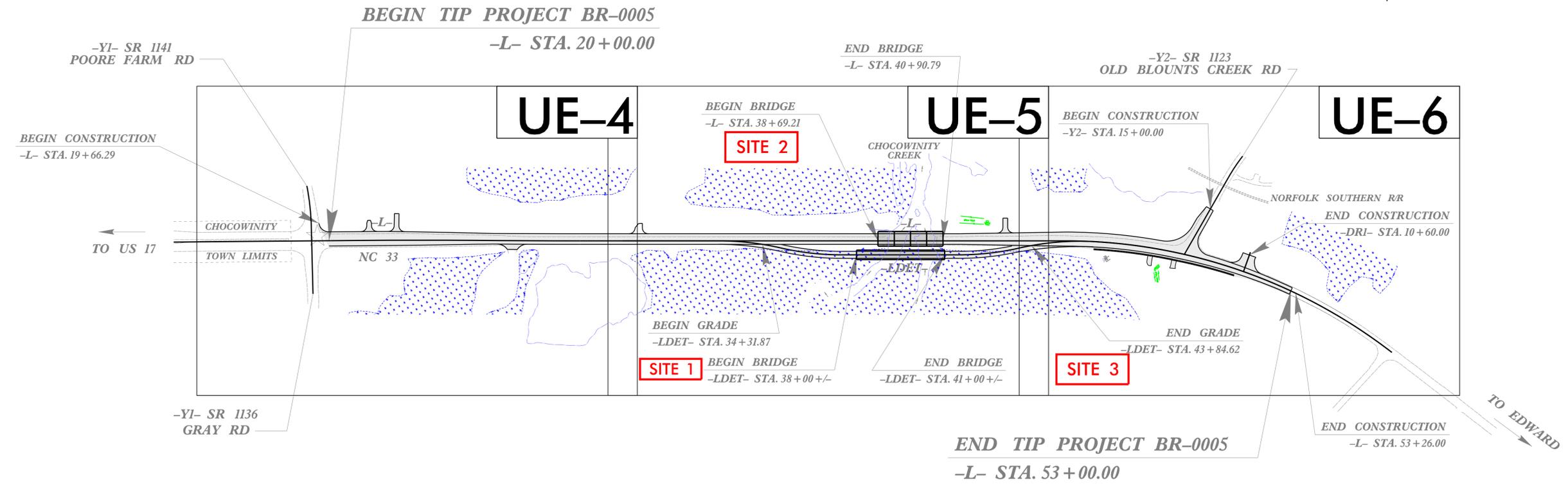
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY PERMIT DRAWINGS BEAUFORT COUNTY

BUFFER IMPACTS PERMIT

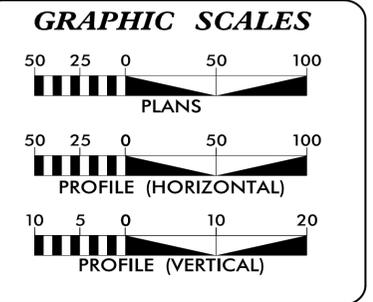


TIP PROJECT: BR-0005



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INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UE-1B	BUFFER IMPACT TITLE SHEET
UE-3B	UTILITY BUFFER IMPACTS

UTILITY OWNERS WITH CONFLICTS

- (A) WATER - TOWN OF CHOCOWINITY
- (B) SANITARY SEWER - TOWN OF CHOCOWINITY
- (C) WATER - BEAUFORT COUNTY
- (D) POWER - DUKE ENERGY
- (E) TELECOM - CENTURYLINK
- (F) TELECOM - SUDDENLINK

PREPARED IN THE OFFICE OF:

Mead&Hunt

111 E. Hargett Street, Suite 300
Raleigh, North Carolina 27601
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NC License No. F-1235

Jason Boyer, PE	PROJECT MANAGER
Jennifer Smith, PE	PROJECT UTILITY MANAGER
Jennifer Smith, PE	PROJECT UTILITY COORDINATOR

DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

Nabil Hamden	UTILITIES REGIONAL ENGINEER
Tyron Stallings	UTILITIES ENGINEER
Tanga Sampson	UTILITIES AREA COORDINATOR
Tyron Stallings	UTILITIES COORDINATOR

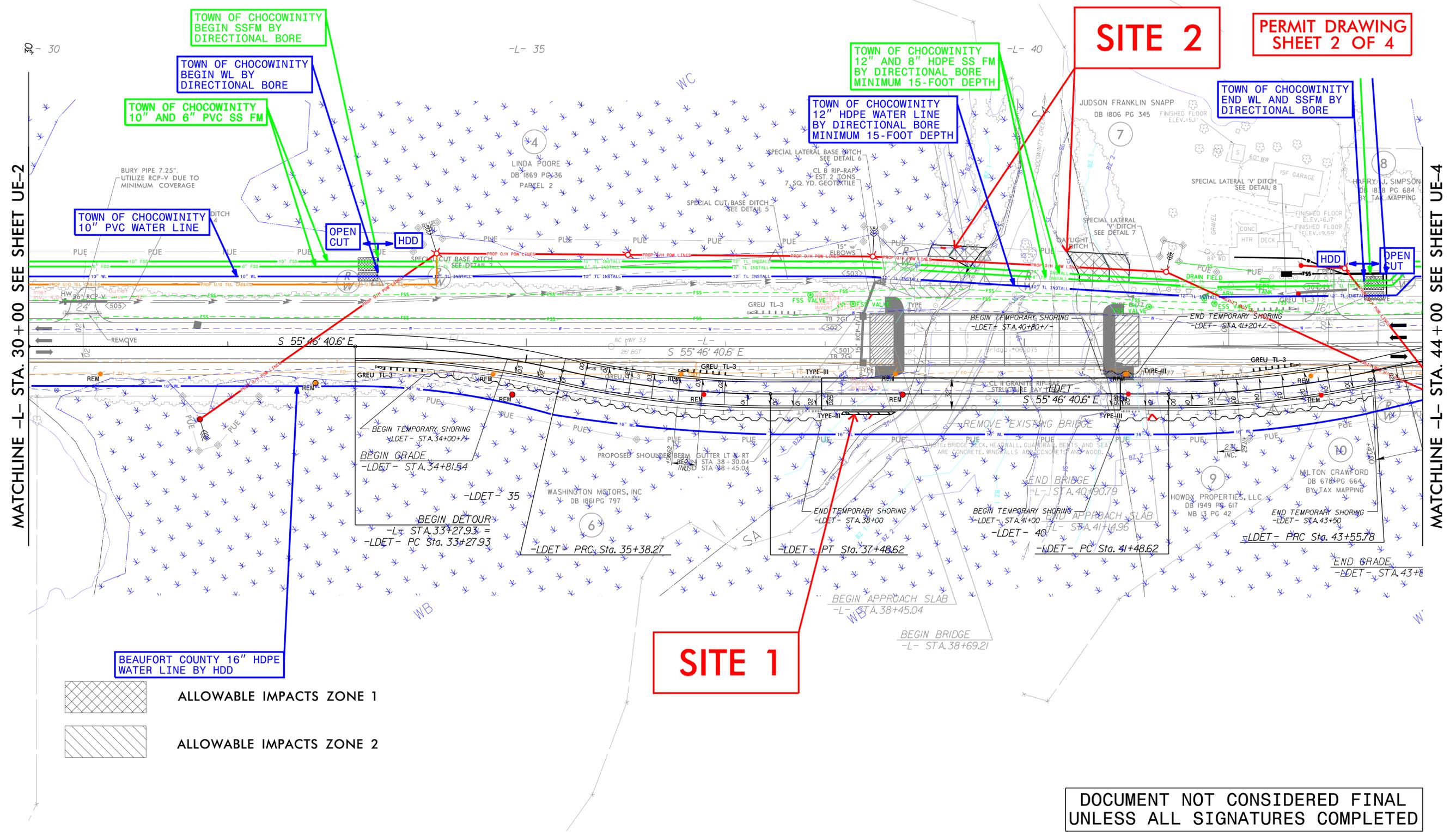
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UTILITIES BY OTHERS

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LEGEND

- EX. DUKE POLE TO REMAIN
- EX. DUKE POLE TO BE REMOVED
- EX. CENTURYLINK POLE TO REMAIN
- EX. CENTURYLINK POLE TO BE REMOVED
- NEW DUKE POLE



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RIPARIAN BUFFER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	IMPACTS									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft ²)	ZONE 2 (ft ²)
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)		
1*	L- 38+16 to 38+71	Duke Matting			X	124	12						
2**	L- 39+03 to 39+36	Duke Aerial Utility Easement			X	1413	833						
TOTALS*:						1537	845	0	0	0	0	0	0

NOTES:

*Temporary matting will be used to minimize impacts where needed

**Amount of impact for Non-sewer aerial lines are deemed allowable according to buffer rules.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 10/27/2023
 BEAUFORT COUNTY
 BR-0005
 67005.1.1

SHEET 3 OF 4



NORTH CAROLINA
Environmental Quality

November 7, 2023

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

MARC RECKTENWALD
Director

Mr. Jamie Lancaster, P.E.
Environmental Analysis Unit
North Carolina Department of Transportation
Mail Service Center 1598
Raleigh, North Carolina 27699-1598

Dear Mr. Lancaster:

Subject: Mitigation Acceptance Letter: **TIP BR-0005**, Replace Bridge 060075 over the Chocowinity Creek on NC 33, Beaufort County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the mitigation for the subject project. Based on the information supplied by you on November 7, 2023, the impacts are located in CU 03020104 of the Tar-Pamlico River basin as follows:

Stream and Wetlands	River Basin	CU Location	Eco-Region	Stream			Wetlands		
				Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	Tar-Pamlico	03020104	NOCP	0	0	23.000	0.308	0	0

*Some of the impacts may be proposed to be mitigated at various ratios. See permit application for details. DMS will provide the amount of stream and wetland mitigation included in the environmental permits.

The impacts and associated mitigation need were not projected by the NCDOT in the 2023 impact data. NCDEQ-DMS commits to implementing sufficient compensatory mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ-DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

for James B. Stanfill
DMS Deputy Director

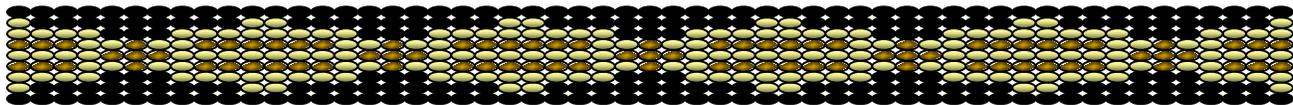
cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office
Ms. Amy Chapman, NCDWR
Mr. Brad Chilton, NCDOT
File: BR-0005



North Carolina Department of Environmental Quality | Division of Mitigation Services
217 West Jones Street | 1652 Mail Service Center | Raleigh, North Carolina 27699-1652
919.707.8976

Catawba Indian Nation
Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, South Carolina 29730

Office 803-328-2427
Fax 803-328-5791



November 30, 2021

Attention: David Stutts
NC Department of Transportation
1581 Mail Service Center
Raleigh, NC 27699

Re. THPO #	TCNS #	Project Description
2022-193-19		Replacement of Bridge No. 75 on NC 33 over Chocwinity Creek as project BR-0005

Dear Mr. Stutts,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**

If you have questions please contact Caitlin Rogers at 803-328-2427 ext. 226, or e-mail Caitlin.Rogers@catawba.com.

Sincerely,

Wenonah G. Haire
Tribal Historic Preservation Officer

Type I or II Categorical Exclusion Action Classification Form

TIP Project No.	BR-0005
WBS Element	67005.1.1
Federal Project No.	N/A

A. Project Description:

The North Carolina Department of Transportation (NCDOT) as part of the state's bridge program proposes to replace Bridge No. 75 on NC 33 over Chocowinity Creek in Beaufort County, NC. The proposed project is located in rural Beaufort County approximately 0.65 miles east of US 17 junction, southeast of the town of Chocowinity, NC. Additionally, the proposed project will include road improvements (dedicated left and right-turn lanes) on SR 1114 (Old Blounts Creek Road) onto NC 33 and the dedicated right-turn lane will be carried over the proposed bridge replacement and tie into the four-lane section of NC 33 approaching US 17.

See **Figure 1**, Project Vicinity Map.

A temporary bridge will be constructed just south of Bridge No. 75. Traffic will be shifted to the detour bridge while the new bridge is being constructed.

The typical section for the new bridge will be approximately 220 feet long and include 49.5 feet of clear roadway with three 12-foot lanes and 6-foot bridge rail offset on one side and 7.5-foot bridge rail offset on the other side. On either side of the bridge the road will widen to four 12-foot lanes (one of the four lanes is a left-turn lane) with 4-foot paved shoulders and 8-foot total shoulder width. The L-line design will be approximately 3,300 feet long, and the temporary alignment will be approximately 950 feet long.

Road Safety Improvements: The proposed project includes a left-turn lane on SR 1114 (Old Blounts Creek Road) at the NC 33 intersection and a free-flowing right-turn lane onto NC 33 westbound. The proposed improvements also include an additional westbound through lane (towards U.S. 17) on NC 33 from SR 1114 (Old Blounts Creek Road) to the NC 33/SR 1136 (Gray Road)/SR1141 (Poore Farm Road) intersection. On NC 33, the existing eastbound left-turn lane onto SR 1114 (Old Blounts Creek Road) will remain along with the existing westbound left-turn lane onto SR 1136 (Gray Road).

B. Description of Need and Purpose:

The purpose of the project is to replace the functionally obsolete existing Bridge No. 75 over Chocowinity Creek. NCDOT Structures Management Unit records indicate

that Bridge No. 75 is considered functionally obsolete due to a deck geometry rating of 2 out of 9, and an approach roadway alignment rating of 2 out of 9, according to Federal Highway Administration standards. The bridge has no posted weight limit.

Bridge No.75 is not currently rated as structurally deficient but was rated as structurally deficient in an NCDOT Bridge Inspection Report in 2017. Temporary repairs to the bridge superstructure, including guardrail installation and deck repairs were performed to maintain the bridge safely until it can be replaced.

The purpose of the additional road improvements is to improve traffic operations and safety at the NC 33/SR 1114 (Old Blounts Creek Road) intersection by providing dedicated turn lanes and an additional westbound lane along NC 33. There is a large volume of vehicles that turn right onto NC 33 westbound from SR 1114 (Old Blounts Creek Road).

C. Categorical Exclusion Action Classification:

Type II(A)

D. Proposed Improvements:

This project qualifies as a Type II(A) CE due to 23 CFR 771.117(d)(13), which states, “(13) Actions described in paragraphs (c)(26), (c)(27), and (c)(28) of this section that do not meet the constraints in paragraph (e) of this section”

23 CFR 771.117(c)(28) states, “Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings, if the actions meet the constraints in 23 CFR 771.117(e)(1-6).”

The constraints not met in 23 CFR 771.117(e)(1-6) that result in the processing of this Type II(A) CE under 23 CFR 771.117(d)(13), are the following:

(2) An action that needs a bridge permit from the U.S. Coast Guard, or an action that does not meet the terms and conditions of a U.S. Army Corps of Engineers nationwide or general permit under section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act of 1899.

This project meets the definition of a ground disturbing, Appendix B action where project impact thresholds (Checklist boxes 1-7) are not met or exceeded as defined in *Documentation Requirements and Approval Procedures for Federal-Aid Projects Classified as Categorical Exclusions, US Department of Transportation Federal Highway Administration North Carolina Division Office And North Carolina Department of Transportation, dated 10/21/19.*

E. Special Project Information:

Cost Estimate:

The estimated cost of the proposed project is as follows:

Utilities Cost	\$576,000
Right of Way Cost	\$46,750
Construction Cost	<u>\$9,800,000</u>
Total Project Cost	\$10,422,750

Design:

Design Standards	Regional Tier
Design Speed	60 mph
Design Exceptions	None
Construction Type	Replace on existing alignment, temporary on-site detour

Traffic Volumes and Forecast:

NC 33 is classified as a major rural collector with approximately seven percent heavy vehicles. Existing traffic in the study area, with a base year of 2018, is 10,000 annual average daily traffic (AADT) with a forecast for 2040 of 11,200 AADT.

Based on information from NCDOT and their review of the traffic forecast, plus a lack of major intersections in the project vicinity, a traffic capacity analysis was deemed not necessary.

Alternatives Discussion: In addition to the No Build Alternative, two design alternatives were considered, *Alternative 1-Revised* and *Alternative 2-Revised*. Both design alternatives included the addition of road safety improvements (dedicated left and right-turn lanes and an additional through lane on NC 33 westbound).

Alternative 1 – Revised includes an off-site detour of nine miles which would require strengthening a section of pavement on the off-site detour route, and possibly widening some sections as well. The project length is 0.57 mile. The proposed replacement bridge would include 49.5 feet of clear roadway with three 12-foot lanes and 6-foot bridge rail offset on one side and 7.5-foot bridge rail offset on the other side. On either side of the bridge the road will widen to four 12-foot lanes (one of the four lanes is a left-turn lane) with 4-foot paved shoulders and 8-foot total shoulder width. Impacts to natural resources would include an estimated 1.2 acres of wetland impacts and an estimated 110 linear feet of stream impacts.

Alternative 1-Revised, was considered but eliminated from further consideration due to length of the off-site detour (9 miles), the potential impact to Beaufort County Emergency Services, and the insufficiency of the curves and the strength of the detour route to handle the projected volume and type of detour traffic.

Alternative 2 – Revised (Selected Alternative): The Selected Alternative would replace Bridge No. 75 over Chocowinity Creek and its approaches. The project length is 0.57 mile. It will reroute and maintain traffic along an on-site detour to the south during construction. Impacts to natural resources would include an estimated 1.64 acres of wetland impacts and an estimated 190 linear feet of stream impacts. The wetland and stream impacts are based on buffering the slope stakes by 25 feet which may possibly be reduced as the design progresses.

The Selected Alternative was chosen because it best fulfills the purpose and need for the proposed project by replacing Bridge No. 75 over Chocowinity Creek with a temporary on-site detour. The current plans for the proposed project are included in the project SharePoint site.

Human Environment

Community Studies

The Short Form Community Impact Assessment (May 2020) includes the following recommendations:

1. The NCDOT Project Manager (PM) should continue coordination and consultation with the North Carolina Department of Natural and Cultural Resources regarding possible impacts to the Chocowinity Creek Natural Area. *(Impacts to the Chocowinity Creek Natural Area are not anticipated)*
2. The NCDOT PM should coordinate with property owners to minimize impacts and maintain access during construction. Construction is expected to take approximately two years to complete. *(Local property owners will be coordinated with during construction and access will be maintained to the extent possible)*
3. Given that notable project impacts to eligible soils may be anticipated, the NCDOT PM should consider measure to minimize these impacts. *(The existing bridge is being replaced on the existing alignment with a temporary onsite detour. Impact to the surrounding soils has been minimized to the extent practicable).*
4. The NCDOT PM should continue to coordinate with the Beaufort County School Transportation Director to ensure that detours and closures during project construction do not adversely affect school operations any more than necessary. *(See Project Commitments for continued coordination)*
5. An on-site detour alternative is recommended to reduce the potential impacts to Emergency Management Services (e.g., response times) during project construction. The NCDOT PM should continue to coordinate with the local EMS on project alternatives and construction scheduling. *(A temporary onsite detour is included as a part of the project. See Project Commitments for continued coordination)*

Cultural Resources:

Historic Architecture – The project was reviewed by a NCDOT Architectural Historian and a finding of “No Survey Required” was determined. No historic architectural or landscape resources listed in or eligible for the National Register of Historic Places are present in the project study area. The signed No Survey Required Form is presented in **Appendix A**.

Archaeological Resources – The project was reviewed by a NCDOT Archaeologist. Following archaeological review of the project area, a survey required form was issued due to a high potential for prehistoric artifacts and remains at the APE location. On July 30, 2018, an in-house survey of the APE/project area was conducted by NCDOT archaeologists. Neither visual inspection nor subsurface shovel testing revealed any archaeological sites. A finding of "No Historic Properties Present" is deemed appropriate. No further archaeological work is recommended for the project. The signed Survey Required and survey forms are presented in Appendix A.

Tribal Coordination – A coordination letter along with the results of the archaeological survey were mailed to the Catawba Indian Nation on October 26, 2021. A letter acknowledging the information and expressing “no immediate concerns” was received on December 1, 2021, and is presented in the project file.

FEMA Considerations:

Beaufort County is included in the National Flood Insurance Program (NFIP). The project is in the Chocowinity Creek Zone AE floodway area, for which 100-year base flood elevations are established. The NCDOT Hydraulics Unit will coordinate with the Federal Emergency Management Agency (FEMA) to determine if a Conditional Letter of Map Revision (CLOMR) and a subsequent final Letter of Map Revision (LOMR) are required for the project. If required, NCDOT Structures Management Unit and Division 2 Construction will submit sealed as-built construction plans to the Hydraulics Unit upon project completion certifying the project was built as shown on construction plans.

Natural Environment

Water Resources:

The study area lies within the Tar-Pamlico River watershed (US Geological Survey [USGS] Hydrologic Unit 03020104). Two streams were identified within the study area, Chocowinity Creek and an Unnamed Tributary (UT) to Chocowinity Creek.

Chocowinity Creek has been designated by the USACE as a Navigable Water under Section 10 of the Rivers and Harbors Act. Chocowinity Creek is an inland water. It has also been designated by NC Division of Coastal Management (NCDCM) as a Public Trust Water, an Area of Environmental concern (AEC) under the Coastal Area Management Act (CAMA).

The project is located in the Tar-Pamlico Basin. Chocowinity Creek is subject to the Tar-Pamlico Riparian Buffer Rules administered by North Carolina Division of Water Quality (NCDWR).

There is one pond and six wetlands located within the study area. Wetlands were not designated as CAMA wetlands by NCDWM. There are no designated High-Quality Waters (HQW) or water supply watersheds (WS-I or WS-II) within 1.0 mile downstream of the study area. None of the waters within the Study Area are listed on the Final 2020 303(d) list of impaired waters.

Jurisdictional Issues:

Chocowinity Creek is a jurisdictional stream, and the Selected Alternative would impact approximately 1.64 acres of wetlands and 190 linear feet of Chocowinity Creek. See **Figure 1**. Preliminary impacts were calculated using preliminary designs of the Selected Alternative (Alternative 2) based on a 25-foot offset of the slope stake lines.

Agency and Public Involvement:

NCDOT sought input from residents/property owners and state agencies with property in the study area. A start of study notification was sent out in August 2018 to NCDOT Division representatives, regional planners, and agencies with responsibilities for the project study area.

Comments were received from the following agencies.

- Beaufort County Schools - Beaufort County Schools indicated 11 school buses cross the existing bridge per day, totaling 29 daily trips to 3 different schools. The bridge is not used by pedestrians to access local schools
- Beaufort County Emergency Management Services - The EMS official indicated closure or limited capacity of the bridge for up to a year would have a high level of impact on the ability to provide services. If possible, EMS would like to see a reduced capacity versus a total closure for project construction.

Subsequently, a postcard was sent out to property owners in the vicinity of the project study area in August 2019. The postcard included a map of the project location, notification that a temporary detour site is anticipated to be open on NC 33 near Chocowinity Creek, and that construction is anticipated to take approximately two years to complete. A general schedule for ROW acquisition and construction was included. The project postcard is presented in the project SharePoint site.

No comments or questions about the proposed project were received in response to the postcard mailing. The Beaufort County Manager requested that our project team reach out to the Cypress Landing HOA (nearby golf residential community along the nearby Chocowinity Bay) as they were outside the project mailing area and had questions regarding this project. Our project team provided information on the proposed improvements including the road safety improvements at the SR 1114 (Old Blounts Creek Road) intersection with NC 33. There was no public controversy from the postcard mailing or the Cypress Landing HOA concerning the proposed project.

Anticipated Permits or Consultation Requirements:

The proposed project has been designated as a Categorical Exclusion (CE) for the purposes of National Environmental Policy Act (NEPA) documentation. An Individual USACE Section 404, and corresponding NC Water Quality Certification, will likely be applicable for anticipated permanent impacts to “Waters of the United States” resulting from the proposed project. Chocowinity Creek has been designated by the USACE as a Navigable Water under Section 10 of the Rivers and Harbors Act. A Section 10 permit will likely also be needed from the USACE. Additionally, due to the addition of a center lane on the bridge and Chocowinity Creek being a Public Trust Water, a CAMA Major development permit will be required.

FEMA coordination and permitting will also be required due to the anticipated encroachment of the proposed project into the floodplain of Chocowinity Creek.

F. Project Impact Criteria Checklists:

F2. Ground Disturbing Actions – Type I (Appendix A) & Type II (Appendix B)				
<p>Proposed improvement(s) that fit Type I Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix A) including 2, 3, 6, 7, 9, 12, 18, 21, 22 (ground disturbing), 23, 24, 25, 26, 27, 28, &/or 30; &/or Type II Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix B) answer the project impact threshold questions (below) and questions 8 – 31.</p> <ul style="list-style-type: none"> • If any question 1-7 is checked “Yes” then NCDOT certification for FHWA approval is required. • If any question 8-31 is checked “Yes” then additional information will be required for those questions in Section G. 				
PROJECT IMPACT THRESHOLDS (FHWA signature required if any of the questions 1-7 are marked “Yes”.)			Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGEPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Does the project require an Individual Section 4(f) approval?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If any question 8-31 is checked “Yes” then additional information will be required for those questions in Section G.				
Other Considerations			Yes	No
8	Is an Endangered Species Act (ESA) determination unresolved or is the project covered by a Programmatic Agreement under Section 7?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9	Is the project located in anadromous fish spawning waters?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	Does the project impact Waters of the United States in any of the designated mountain trout streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other Considerations for Type I and II Ground Disturbing Actions (continued)</u>		Yes	No
14	Does the project include a Section 106 of the National Historic Preservation Act (NHPA) effects determination other than a No Effect, including archaeological remains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Does the project involve GeoEnvironmental Sites of Concerns such as gas stations, dry cleaners, landfills, etc.?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	Does the project require a U.S. Coast Guard (USCG) permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Does the project impact federal lands (e.g., U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	Does the project involve any changes in access control or the modification or construction of an interchange on an interstate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Will maintenance of traffic cause substantial disruption	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Is the project inconsistent with the STIP, and where applicable, the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), Tribal Lands, or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Is the project considered a Type I under the NCDOT Noise Policy?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Are there other issues that arose during the project development process that affected the project decision?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

G. Additional Documentation as Required from Section F (ONLY for questions marked 'Yes'):

*Response to Question 8:

The US Fish and Wildlife Service has revised the previous programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), the US Army Corps of Engineers (USACE), and NCDOT for the northern long-eared bat (NLEB) (*Myotis septentrionalis*) in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. Although this programmatic covers Divisions 1-8, NLEBs are currently only known in 22 counties, but may potentially occur in 8 additional counties within Divisions 1-8. NCDOT, FHWA, and USACE have agreed to two conservation measures which will avoid/minimize mortality of NLEBs. These conservation measures only apply to the 30 current known/potential counties shown on Figure 2 of the PBO at this time. The programmatic determination for NLEB for the NCDOT program is **May Affect, Likely to Adversely Affect**. The PBO will ensure compliance with Section 7 of the Endangered Species Act for ten years (effective through December 31, 2030) for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Beaufort County, where BR-0005 is located.

*Response to Question 9:

This project has been identified by the NCWRC as anadromous fish habitat. As a result, an in-water construction moratorium is recommended from February 15 to June 30.

*Response to Question 10:

The project is located in the Tar-Pamlico Basin. Chocowinity Creek is subject to the Tar-Pamlico Riparian Buffer Rules administered by North Carolina Division of Water Quality (NCDWR).

*Response to Question 12:

An Individual USACE Section 404, and corresponding NC Water Quality Certification, will likely be applicable for anticipated permanent impacts to "Waters of the United States" resulting from the proposed project. The anticipated impacts of the Selected Alternative (1.64 acres of wetland limits) are above the one-acre threshold for a Nationwide permit and would require an Individual USACE Section 404 permit.

*Response to Question 15:

An existing Shell Station (Parcel 13) at the intersection of NC 33 and SR 1114 (Old Blounts Creek Road) has underground storage tanks in use and will be impacted by the proposed project. A detailed investigation of the property to assess potential impact of contaminated soil or groundwater from the active station will be performed by the NCDOT GeoEnvironmental Section after right of way plans are complete on the project.

*Response to Question 16:

Beaufort County is included in the National Flood Insurance Program (NFIP). The project is in the Chocowinity Creek Zone AE floodway area, for which 100-year base flood elevations are established. The NCDOT Hydraulics Unit will coordinate with the Federal Emergency Management Agency (FEMA) to determine if a Conditional Letter of Map Revision (CLOMR) and a subsequent final Letter of Map Revision (LOMR) are required for the project. If required, NCDOT Structures Management Unit and Division 2 Construction will submit sealed as-built construction plans to the Hydraulics Unit upon project completion certifying the project was built as shown on construction plans.

*Response to Question 17:

This project is in a CAMA county (Beaufort). NCDOT personnel present during on-site project reviews determined that none of the jurisdictional wetlands within the study area are designated as CAMA wetlands. However, Chocowinity Creek is a Public Trust Water, which is considered an Area of Environmental Concern (AEC). Therefore, a CAMA Major development permit is anticipated.

*Response to Question 29:

The source of this traffic noise information is *Traffic Noise Report - Replace Bridge 75 on NC 33 over Chocowinity Creek, Beaufort County, STIP Project BR-0005*, by Tech Engineering, March 2022.

Traffic Noise Impacts

The maximum number of receptors predicted to be impacted by future traffic noise is shown in the table below. The table includes those receptors expected to experience traffic noise impacts by either approaching or exceeding the FHWA Noise Abatement Criteria or by a substantial increase in exterior noise levels as defined in the NCDOT Traffic Noise Policy.

*Predicted Traffic Noise Impacts**

Traffic Noise Impacts				
Alternative	Residential (NAC B)	Places of Worship/Schools, Parks, etc. (NAC C & D)	Businesses (NAC E)	Total
Build Condition	11	0	0	11

*Per TNM^{2.5} and in accordance with 23 CFR Part 772

Traffic Noise Abatement Measures

Measures for reducing or eliminating the traffic noise impacts, including noise barriers, were considered for all impacted receptors. Noise barriers include two basic types: earthen berms and noise walls. These structures act to diffract, absorb, and reflect highway traffic noise.

Noise abatement would not be feasible for this project. This is due to two reasons. First, noise abatement would not be feasible for isolated impacts since a minimum of two impacts could not be benefited by noise abatement measures. Second, no control of access is proposed for portions of the project along NC 33, meaning that most noise-sensitive land uses will have direct access connections to the roadway, and most

intersections will adjoin the project at grade. The traffic noise analysis for this project confirmed that the physical breaks in potential noise barriers that would occur due to the uncontrolled right of way access would prohibit any noise barrier from providing the minimum required traffic noise level reductions at predicted traffic noise impacts, as defined by the noise abatement measure feasibility criteria of the NCDOT Traffic Noise Policy. For these reasons, noise abatement would not be feasible.

Based on this preliminary study, traffic noise abatement is not recommended, and no noise abatement measures are proposed. This evaluation completes the highway traffic noise requirements of Title 23 CFR Part 772. No additional noise analysis will be performed for this project unless warranted by a substantial change in the project's design concept or scope.

In accordance with NCDOT Traffic Noise Policy, the Federal/State governments are not responsible for providing noise abatement measures for new development for which building permits are issued after the Date of Public Knowledge. The Date of Public Knowledge of the proposed highway project will be the approval date of the Categorical Exclusion. NCDOT strongly advocates the planning, design and construction of noise-compatible development and encourages its practice among planners, building officials, developers and others.

H. Project Commitments:

NCDOT PROJECT COMMITMENTS

TIP Project No. **BR-0005**
Replace Bridge No. 75 over Chocowinity Creek on NC 33
Beaufort County
Federal Aid Project No. N/A
WBS Element 67005.1.1

NCDOT Division 2 Construction

Construction, Lane Reductions and Closures

NCDOT will contact the Beaufort County Emergency Management Service (EMS) at 252-940-6519 at least one month before the start of construction to allow first responders to prepare for the anticipated project.

NCDOT will contact the Beaufort County Schools Transportation Director at 252-946-6209 at least one month before the start of construction to allow officials to prepare for the anticipated project.

NCDOT will contact the local officials above at least one week prior to lane reduction and/or roadway closure to allow them to prepare for the anticipated changes.

Anadromous Fish Moratorium

This project has been identified by the NCWRC as anadromous fish habitat. As a result, an in-water construction moratorium is recommended from February 15 to June 30. Stream Crossing Guidelines for Anadromous Fish passage will be implemented in the design and construction of this project.

NCDOT Hydraulics Unit

The NCDOT Hydraulics Unit will coordinate with the Federal Emergency Management Agency (FEMA) to determine if a Conditional Letter of Map Revision (CLOMR) and a subsequent final Letter of Map revision (LOMR) are required for this project. If required, the NCDOT Structures Management Unit and Division 2 Construction will submit sealed As-Built construction plans to the Hydraulics Unit upon project completion certifying that the project was built as shown on the construction plans.

NCDOT GeoEnvironmental Section

An existing Shell Station (Parcel 13) at the intersection of NC 33 and SR 1114 (Old Blounts Creek Road) has underground storage tanks in use and will be impacted by the proposed project. A detailed investigation of the property to assess potential impact of contaminated soil or groundwater from the active station will be performed by the NCDOT GeoEnvironmental Section after right of way plans are complete on the project.

I. Categorical Exclusion Approval:

STIP Project No.	<u>BR-0005</u>
WBS Element	<u>67005.1.1</u>
Federal Project No.	<u>N/A</u>

Prepared By:

05/12/2022

DocuSigned by:

 6AB34F182958473...

Date Steve L. Brown, P.E
 Mead & Hunt, Inc.

Prepared For:

Structures Management Unit, NCDOT

Reviewed By:

05/12/2022

DocuSigned by:

 33883EFFD0F44D3...

Date Colin Mellor
 Environmental Policy Unit, NCDOT



Approved

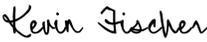
- If NO grey boxes are checked in Section F (pages 2 and 3), NCDOT approves the Type I or Type II Categorical Exclusion.



Certified

- If ANY grey boxes are checked in Section F (pages 2 and 3), NCDOT certifies the Type I or Type II Categorical Exclusion for FHWA approval.
- If classified as Type III Categorical Exclusion.

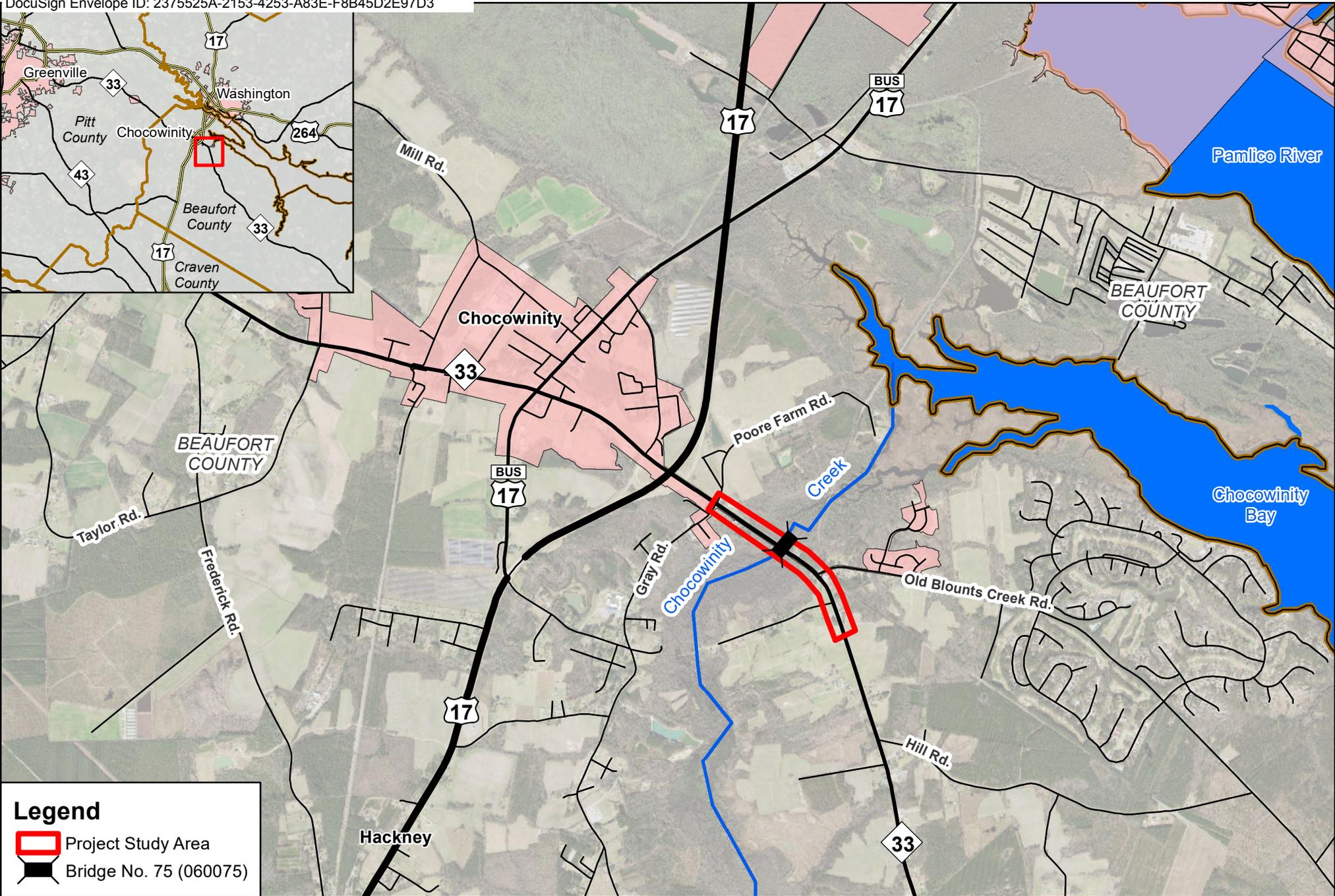
05/12/2022

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 ED19A18D98EC496

Date Kevin Fischer, P.E., Assistant State Structures Engineer
 PEF Coordination, Program Manager and Field Operations
 Structures Management Unit, NCDOT

FHWA Approved: For Projects Certified by NCDOT (above), FHWA signature required.

Date *Not Applicable*
 for John F. Sullivan, III, PE, Division Administrator
 Federal Highway Administration



Legend

-  Project Study Area
-  Bridge No. 75 (060075)



Scale

0 0.25 0.5 1

Miles

Prepared by: Mead & Hunt, Inc. Date: 4/21/2022

Figure 1 - Project Vicinity

Project 67005.1.1 (BR-005) Bridge Replacement
Bridge No 75 on NC 33 over Chocowinity Creek

Beaufort County



APPENDIX A – Cultural Resources Forms

17-12-0056



HISTORIC ARCHITECTURE AND LANDSCAPES NO SURVEY REQUIRED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

PROJECT INFORMATION

Project No:	BR-0005	County:	Beaufort
WBS No.:	67005.1.1	Document Type:	
Fed. Aid No:		Funding:	X State Federal
Federal Permit(s):	X Yes No	Permit Type(s):	USACE
Project Description: Replace Bridge No. 75 on NC 33 over Chocowinity Creek (no off-site detour specified in review request).			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

DESCRIPTION OF REVIEW ACTIVITIES, RESULTS, AND CONCLUSIONS: HPOWeb reviewed on 17 January 2018 and yielded no NR, SL, DE, LD, or SS properties in the Area of Potential Effects (APE). Beaufort County current GIS mapping, aerial photography, and tax information indicated an APE of cultivated fields and wetlands with residential and commercial resources dating between the 1940s and the 2000s (viewed 17 January 2018). Pre-1970s resources are unexceptional (and some also are altered) examples of their types. Constructed in 1964, Bridge No. 75 is not eligible for the National Register as it is not representative of any distinctive engineering or aesthetic type. Google Maps "Street View" confirmed the absence of critical architectural and landscape resources in the APE (viewed 17 January 2018).

No architectural survey is required for the project as currently defined.

WHY THE AVAILABLE INFORMATION PROVIDES A RELIABLE BASIS FOR REASONABLY PREDICTING THAT THERE ARE NO UNIDENTIFIED SIGNIFICANT HISTORIC ARCHITECTURAL OR LANDSCAPE RESOURCES IN THE PROJECT AREA: APE equates with the study area provided with review request (see attached). No comprehensive county architectural survey exists for areas outside municipalities, but other previous studies recorded no properties in the APE. County GIS/tax materials and other visuals support the absence of significant architectural and landscape resources. No National Register-listed properties are located within the APE.

**Should any aspect of the project design change, please notify NCDOT
Historic Architecture as additional review may be necessary.**

SUPPORT DOCUMENTATION

X Map(s) Previous Survey Info. Photos Correspondence Design Plans

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes -- **NO SURVEY REQUIRED**

Vanessa C. Patrick
NCDOT Architectural Historian

22 January 2018
Date

17-12-0056



ARCHAEOLOGICAL SURVEY REQUIRED FORM

This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.



PROJECT INFORMATION

Project No: **BR-0005/Bridge 75** *County:* **Beaufort**
WBS No: **67005.3.1** *Document:* **MCC**
F.A. No: *Funding:* State Federal
Federal Permit Required? Yes No *Permit Type:* **USACE**

Project Description: Replacement of Bridge No. 75 over Chocowinity Creek on NC 33 in Beaufort County, North Carolina. The archaeological Area of Potential Effects (APE) is centered on the bridge structure and measures .50 mile in length and 200ft in width (100ft from each side of the NC 33 center-line).

SUMMARY OF ARCHAEOLOGICAL RESOURCES REVIEW: **SURVEY REQUIRED**

To determine the cultural resource potential of the APE, numerous sources of information were considered. First, preliminary construction design, funding, and other data was examined for defining the potential impacts to the APE ground surfaces and for determining the level of effort necessary for compliance. In this case, the project is state-funded with federal permit interaction and subject to Section 106 of the National Historic Preservation Act. The United States Army Corps of Engineers will serve as the lead federal agency.

Next, a map review and site file search was conducted at the Office of State Archaeology (OSA) on Wednesday, January 24, 2018. No previously documented archaeological sites have been recorded within the limits of the project's APE. However, several archaeological sites have been documented near the western limits of the project study area, increasing the likelihood that similar sites may be contained within the currently defined APE.

Examination of NRHP, State Study Listed (SL), Locally Designated (LD), Determined Eligible (DE), and Surveyed Site (SS) properties employing resources available on the North Carolina State Historic Preservation Office (NCSHPO) website demonstrated that none of these properties with possible contributing archaeological components are situated in the APE. Also, historic maps of Beaufort County were appraised for former structure locations, land use patterns, or other confirmation of historic occupation in the project vicinity. Archaeological/historical reference materials were reviewed as well. Based on cultural/historical factors, the APE is considered to have a moderate potential of containing prehistoric archaeological artifacts or deposits.

In addition, topographic, geologic, flood boundary, lidar, and NRCS soil survey maps (BoB, Do, CrB, Le) were referenced for the evaluation of geomorphological, pedological, hydrological, and other environmental-type elements that may have resulted in past occupation at this location. Finally, review of aerial and on-ground images (NCDOT Spatial Data Viewer, Google, ARC-GIS) afforded first-hand perspectives of the overall study area which were useful for assessing localized disturbances, both natural and human induced, which compromise the integrity of archaeological sites/deposits. Based on environmental determinants, the APE is considered to have a moderate potential for the recovery of archaeological artifacts, deposits, or features.

Environmental factors and the localized archaeological site pattern increase the likelihood of prehistoric occupation at this APE location. An in-field reconnaissance and survey of the APE is recommended prior to construction/replacement activities.

17-12-0056

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
 Photocopy of County Survey Notes Other:

FINDING BY NCDOT ARCHAEOLOGIST – SURVEY REQUIRED

Scott Halverson
NCDOT ARCHAEOLOGIST

1-29-2018
Date

Spring 2018
Proposed fieldwork completion date

17-12-0056



**NO NATIONAL REGISTER OF HISTORIC PLACES
ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES
PRESENT FORM**



This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.

PROJECT INFORMATION

Project No: **BR-0005/Bridge 75** *County:* **Beaufort**
WBS No: **67005.3.1** *Document:* **MCC**
F.A. No: *Funding:* State Federal
Federal Permit Required? Yes No *Permit Type:* **USACE**

Project Description: The replacement of Bridge No. 75 on NC 33 over Chocowinity Creek in Beaufort County, North Carolina. The archaeological Area of Potential Effects (APE) is centered on the bridge structure and measures 0.5 mile in length and 200ft. in width (100ft. from each side of the NC 33 center-line). (see attached shape file).

SUMMARY OF ARCHAEOLOGICAL FINDINGS

The North Carolina Department of Transportation (NCDOT) Archaeology Group reviewed the subject project and determined:

- There are no National Register listed or eligible ARCHAEOLOGICAL SITES present within the project's area of potential effects. (Attach any notes or documents as needed)
- No subsurface archaeological investigations were required for this project.
- Subsurface investigations did not reveal the presence of any archaeological resources.
- Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

Brief description of review activities, results of review, and conclusions:

To determine the cultural resource potential of the APE, numerous sources of information were considered. First, preliminary construction design, funding, and other data was examined for defining the potential impacts to the APE ground surfaces and for determining the level of effort necessary for compliance. In this case, the project is state-funded with federal permit interaction and subject to Section 106 of the National Historic Preservation Act.

Next, a map review and site file search was conducted at the Office of State Archaeology (OSA) on Wednesday, January 24, 2018. No previously documented archaeological sites have been recorded within the limits of or directly adjacent to the project's APE. Examination of National Register of Historic Places (NRHP), State Study Listed (SL), Locally Designated (LD), Determined Eligible (DE), and Surveyed Site (SS) properties employing resources available on the North Carolina State Historic Preservation

Office (NCSHPO) website demonstrated that no resources with potential archaeological deposits were located in the vicinity of the APE. Also, historic maps of Beaufort County were appraised for former structure locations, land use patterns, cemeteries, or other confirmation of historic occupation in the project vicinity. Archaeological/historical reference materials were reviewed as well.

In addition, topographic, geologic, flood boundary, lidar, and NRCS soil survey maps were referenced for the evaluation of geomorphological, pedological, hydrological, and other environmental-type elements that may have resulted in past occupation at this location. Finally, review of aerial and on-ground images (NCDOT Spatial Data Viewer, Google, ARC-GIS) afforded first-hand perspectives of the overall study area which were useful for assessing localized disturbances, both natural and human induced, which compromise the integrity of archaeological sites/deposits. Based on environmental determinants, the APE is considered to have a moderate potential for the recovery of archaeological artifacts, deposits, or features. An archaeological survey will therefore be recommended for the project.

An in-field reconnaissance and subsurface survey was conducted by NCDOT archaeologists Scott Halvorsen and Paul Mohler on July 30, 2018. First, a visual inspection of the entire APE was completed. No above-ground historic features or cemeteries were encountered within the APE. For the most part, the majority of the project area contains wetland soils in the direct vicinity of the bridge replacement. Only the very northern and southern portions of the APE, away from the wetland soils, were considered for shovel testing. Inspection of the northern portions of the APE illustrated that this section of the project area is very disturbed and impacted where NC 33 connects with US 17. As a result, no shovel testing was conducted here.

The southeastern quadrant, beyond the wetlands, is the location of a gasoline filling station. South of the filling station disturbance was a recently logged area containing about 75% surface visibility in the APE. Shovel tests related a disturbed subsurface of mottled clay soils. Inspection of the ground surfaces did not recover any cultural artifacts. South of the logged area at the very southern extent of the APE were residential homes and yards. No shovel testing was conducted in these disturbed residential front yard areas.

Finally, the southwestern quadrant, beyond the wetlands, was situated on high ground and contained both a watermelon patch and a soybean field. A total of five shovel test pits were excavated at 100ft. intervals along a transect maintained at 75ft. from the NC 33 center-line. The shovel tests revealed soil profiles that were somewhat eroded. A typical shovel test pit consisted of a first stratum containing 10YR5/4 yellowish brown sandy loam to 25 cmbs. The second stratum was a 10YR6/8 brownish yellow clayey sand subsoil that extended from 25 cmbs to 35+ cmbs. No cultural artifacts were encountered while completing the shovel testing of the southwestern quadrant. Following investigation of the Bridge 75 project area, no further archaeological consultation will be necessary. A finding of "No historic properties present" is deemed appropriate.

17-12-0056

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
Signed:

Scott Eric Halverson

8-7-2018

NCDOT ARCHAEOLOGIST

Date