



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

March 29, 2017

U. S. Army Corps of Engineers
Regulatory Field Office
2407 West 5th Street
Washington, NC 27889

Attention: Mr. Tom Steffens
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 23 and Neuse River Riparian Buffer Authorization** for replacement of Bridge No. 32 over Hannah Creek on SR 1185 (Joyner Bridge Road), Johnston County, Federal Aid Project No. BRZ-1185(2), TIP No. B-4770.

Debit \$240.00 from WBS Element No. 38542.1.1

Dear Sir,

The North Carolina Department of Transportation (NCDOT) proposes to replace existing Bridge No. 32. Bridge No. 32 is a 150-foot bridge to be replaced with a 165-foot bridge on existing alignment. The new bridge will include two 10-foot lanes in each direction and 4-foot shoulders on each side. Traffic will be detoured offsite.

Please find enclosed the Pre-Construction Notification (PCN) form, United States Fish and Wildlife concurrence letter, North Carolina Division of Mitigation Services acceptance letter, stormwater management plan, permit drawings, and roadway design plans for the above referenced project. A Programmatic Categorical Exclusion (PCE) was completed for this project on February 29, 2016, and distributed shortly thereafter. Additional copies are available at the NCDOT website: <https://connect.ncdot.gov/resources/Environmental/>

The proposed let date for the project is August 15, 2017 with a review date of June 27, 2017.

Regulatory Approvals

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that the project be authorized by a NW 23 for bridge construction.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
NATURAL ENVIRONMENT SECTION
1598 MAIL SERVICE CENTER
RALEIGH, NC 27699-1598

Telephone: (919) 707-6000
Fax: (919) 212-5785
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DRIVE
RALEIGH, NC 27699

Website: www.ncdot.gov

Section 401 Permit: We anticipate 401 General Certification number 4093 and a Neuse Riparian Buffer Authorization will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of Environmental Quality, Division of Water Resources.

A copy of this permit application and its distribution list will be posted at the NCDOT website at <https://connect.ncdot.gov/resources/Environmental/>. Should you have any questions regarding this information, please contact Deanna Riffey at (919) 707-6151 or driffey@ncdot.gov

Sincerely,

A handwritten signature in blue ink, appearing to read 'PHS', with a long horizontal flourish extending to the right.

for Philip S. Harris III, P.E., C.P.M., Manager
Natural Environment Section

cc: NCDOT Permit Application Standard Distribution List



Office Use Only:
 Corps action ID no. _____
 DWQ project no. _____
 Form Version 1.4 January 2009

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input checked="" type="checkbox"/> Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. 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.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Replacement of Bridge 32 on SR 1185 (Joyner Bridge Road) over Hannah Creek
2b. County:	Johnston
2c. Nearest municipality / town:	Newton Grove
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-4770

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6151
3g. Fax no.:	(919) 212-5785
3h. Email address:	driffey@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.387319 (DD.DDDDDD) Longitude: - 78.338661 (-DD.DDDDDD)
1c. Property size:	4.73 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Hannah Creek
2b. Water Quality Classification of nearest receiving water:	C; NSW
2c. River basin:	Neuse
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Land use within the vicinity is agriculture and large timber tracts, interspersed with rural residences.	
3b. List the total estimated acreage of all existing wetlands on the property: 2.3 acres	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 250 linear feet	
3d. Explain the purpose of the proposed project: Bridge 32 is considered structurally deficient and is functionally obsolete due to structure and substructure conditions.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacement of existing Bridge No. 32 , a 150 -foot bridge, with a 165-foot bridge. The new bridge will have 10-foot travel lanes in each direction with 3-foot shoulders on each side. The new bridge will be placed on the same alignment as the existing bridge. Traffic will be detoured offsite. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: JD packages were sent to USACE in May and July 2013	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Calyx (Mulkey) Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, explain.	

C. Proposed Impacts Inventory						
1. Impacts Summary						
1a. Which sections were completed below for your project (check all that apply):						
<input checked="" type="checkbox"/> Wetlands		<input checked="" type="checkbox"/> Streams - tributaries		<input checked="" type="checkbox"/> Buffers		
<input type="checkbox"/> Open Waters		<input type="checkbox"/> Pond Construction				
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction	2f. Area of impact (acres)	
Site 2/3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Bottomland Hardwood Fores	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02	
Site 2/3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation	Bottomland Hardwood Fores	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02	
Site 1-4 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Mechanized Clearing	Bottomland Hardwood Fores	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.11	
Site 2/3 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Fill	Bottomland Hardwood Fores	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T		Choose One	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T		Choose One	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T		Choose One	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T		Choose One	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T		Choose One	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 7 <input type="checkbox"/> P <input type="checkbox"/> T		Choose One	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts					0.15 ac Perm 0.01 ac Temp	
2h. Comments: There will be 0.15 ac of hand clearing and <0.01 ac of fill due to bents in wetlands.						
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.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						0 ft Perm 0 ft Temp
3i. Comments: There will be <0.01 ac of fill due to bents in surface waters						

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. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				X Permanent X Temporary

4g. Comments:

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								

5g. Comments:

5h. Is a dam high hazard permit required?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no:
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5i. Expected pond surface area (acres):	
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5j. Size of pond watershed (acres):	
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5k. Method of construction:	
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6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			<input checked="" type="checkbox"/> Neuse <input type="checkbox"/> Catawba	<input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Randleman	<input type="checkbox"/> Other:
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Bridge	Hannah	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2,784	767
B2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Bridge	Hannah	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4,186	1,344
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts				6,970	2,111
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. Replace in place was incorporated to minimize water resources impacts along with lengthening the bridge. Roadway drainage sheet flows over grassed slopes before entering wetlands. Other than no build the minimal effects to the wetlands and stream on this project is unavoidable.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT Best Management Practices for Construction and Maintenance Activities will be employed. Also, there will be an Anadromous Fish Moratorium from February 15 th to June 30 th .		
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input checked="" type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input checked="" type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	<input checked="" type="checkbox"/> Yes	
4b. Stream mitigation requested:	0	
4c. If using stream mitigation, stream temperature:	<input checked="" type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	0.15 acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?

Yes No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.

Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				

6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).

6h. Comments:

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments:	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.) Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from the bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

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?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input checked="" type="checkbox"/> Raleigh	<input type="checkbox"/> Asheville
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? USFWS county list and NCNHP database along with field surveys. Surveys last conducted for Michaux's sumac on October 19, 2016. Habitat is present, but no Michaux's sumac were found during survey. Biological conclusion is No Effect. Habitat was not found in the study area for red-cockaded woodpecker. Biological conclusion is No Effect. Habitat for dwarf wedgemussel and Tar spiny mussel was found in study area. Surveys were done October 4, 2016, but no dwarf wedgemussels or Tar spiny mussels were found. Biological conclusion is May Affect, Not Likely to Adversely Affect. See attached USFWS concurrence.		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
for <u>Philip S. Harris III, P.E., C.P.M.</u> Applicant/Agent's Printed Name	 <p>Colin Mellor <small>Digitally signed by Colin Mellor DN: cn=Colin Mellor, o=NCDOT, ou=NES, email=cmellor@ncdot.gov, c=US Date: 2017.03.28 14:56:08 -04'00'</small></p> Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	<u>03/29/2017</u> Date



ROY COOPER
Governor

March 20, 2017

Mr. Philip S. Harris, III, P.E., CPM
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

B-4770, Replace Bridge 32 over Hannah Creek on SR 1185, Johnston County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory wetland mitigation for the subject project. Based on the information supplied by you on March 17, 2017, the impacts are located in CU 03020201 of the Neuse River basin in the Northern Inner Coastal Plain (NICP) Eco-Region, and are as follows:

Neuse 03020201 NICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.15	0	0	0	0

*Some of the stream and/or wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

This mitigation acceptance letter replaces the mitigation acceptance letter issued on December 20, 2016. DMS commits to implementing sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies in accordance with 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 DMS.

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

Sincerely,

James B. Stanfill
Credit Management Supervisor

cc: Mr. Tom Steffens, USACE – Washington Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: B-4770 Revised





United States Department of the Interior

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

January 9, 2017

Philip S. Harris III, P.E, C.P.M
North Carolina Department of Transportation
PDEA – Natural Environment Section
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

This letter is in response to your letter of December 20, 2016 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation (NCDOT) that the replacement of Bridge No. 32 on SR 1185 over Hannah Creek in Johnston County (TIP No. B-4770) may affect, but is not likely to adversely affect the federally endangered dwarf wedgemussel (*Alasmidonta heterodon*) and Tar River spiny mussel (*Elliptio steinstansana*). In addition, NCDOT has determined that the project will have no effect on the federally endangered red-cockaded woodpecker (*Picooides borealis*) and Michaux's sumac (*Rhus michauxii*). The following response is provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

According to information provided, a mussel survey was conducted at the project site on October 4, 2016. The survey extended 100 meters upstream and 400 meters downstream of SR 1185. Neither of the federally listed mussel species was found, and habitat quality for the two species was only marginally suitable. Only a single mussel specimen was observed during the survey, of the common species *Elliptio complanata*.

Based on the mussel survey results and the lack of good habitat, the Service concurs with your conclusion that the proposed bridge replacement may affect, but is not likely to adversely affect the dwarf wedgemussel and Tar River spiny mussel. We also concur that the project will have no effect on the red-cockaded woodpecker (due to lack of habitat) and Michaux's sumac (due to no specimens being observed during an October 19, 2016 survey). We believe that the requirements of Section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under Section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action.

The Service appreciates the opportunity to review this project. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

Sincerely,

A handwritten signature in cursive script that reads "Gary Jordan".

for

Pete Benjamin
Field Supervisor

Electronic copy:

Deanna Riffey, NCDOT, Raleigh, NC
Tom Steffens, USACE, Washington, NC
Travis Wilson, NCWRC, Creedmoor, NC



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 2.06; Released June 2016)

WBS Element: 38542.1.1 TIP No.: B-4770 County(ies): Johnston Page 1 of 1

General Project Information

WBS Element:	38542.1.1	TIP Number:	B-4770	Project Type:	Bridge Replacement	Date:	8/22/2016
NCDOT Contact:	Paul Atkinson, PE			Contractor / Designer:	Erik Seiler		
Address:	NCDOT 1590 Mail Service Center Raleigh, NC 27699-1590			Address:	NCDOT 1590 Mail Service Center Raleigh, NC 27699-1590		
	Phone:	(919) 707-6707			Phone:	(919) 707-6757	
	Email:	patkinson@ncdot.gov			Email:	epseiler@ncdot.gov	
City/Town:				County(ies):	Johnston		
River Basin(s):	Neuse			CAMA County?	No		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.195 miles	Surrounding Land Use:						
		Proposed Project	Existing Site					
Project Built-Upon Area (ac.)		ac.	ac.					
Typical Cross Section Description:	ROADWAY HAVING TWO 10' TRAVEL LANES IN EACH DIRECTION WITH A 4' OUTSIDE GRASS SHOULDER. TOTAL PAVEMENT WIDTH IS 20'.			ROADWAY HAVING TWO 10' TRAVEL LANES IN EACH DIRECTION WITH A VARIABLE (2'-6') OUTSIDE GRASS SHOULDER. TOTAL PAVEMENT WIDTH IS 20'.				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	618	Year:	2037	Existing:	436	Year:	2017
General Project Narrative: (Description of Minimization of Water Quality Impacts)	REPLACEMENT OF BRIDGE 32 OVER HANNAH CREEK. THE RECOMMENDED STRUCTURE IS 1@50' 21"CS, 1@65' 24"CS, 1@50' 21"CS, WITH 4' DEEP CAP. THIS PROJECT HAS A STORM DRAINAGE SYSTEM COLLECTING BRIDGE DISCHARGE WHICH WILL BE DISSIPATED BY A RIP RAP PAD AT THE PIPE OUTLET LOCATED AT TOE OF FILL. ROADWAY DRAINAGE SHEET FLOWS OVER GRASSED SLOPES BEFORE ENTERING WETLANDS. THERE ARE NO DECK DRAINS ON THIS BRIDGE.							

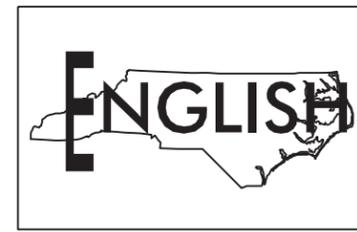
Waterbody Information

Surface Water Body (1):	Hannah Creek		NCDWR Stream Index No.:	27-52-6			
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C					
	Supplemental Classification:	Nutrient Sensitive Waters (NSW)					
Other Stream Classification:	None						
Impairments:	None						
Aquatic T&E Species?	No	Comments:					
NRTR Stream ID:				Buffer Rules in Effect:	Neuse		
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	Yes		
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)							

09/08/19

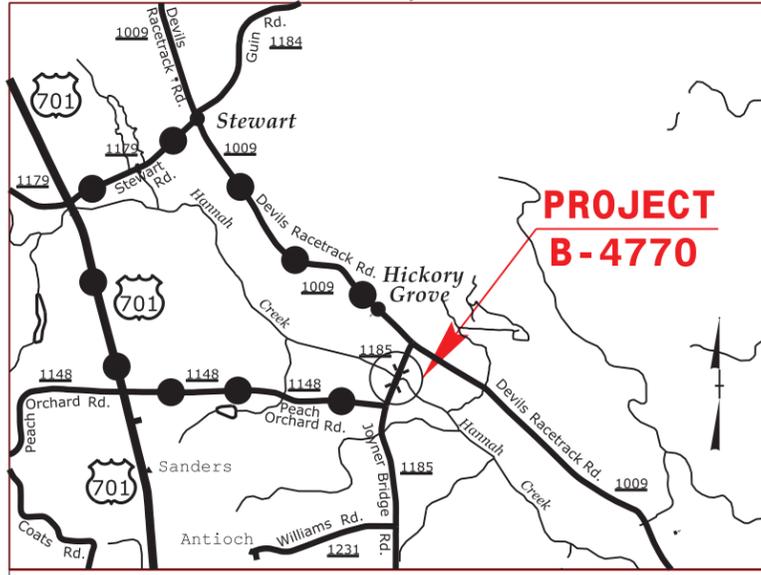
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C For Survey Control Sheet

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4770	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38542.1.1	BRZ-1185(2)	PE	
38542.2.1			

TIP PROJECT: B-4770



VICINITY MAP

● ● DENOTES OFF-SITE DETOUR

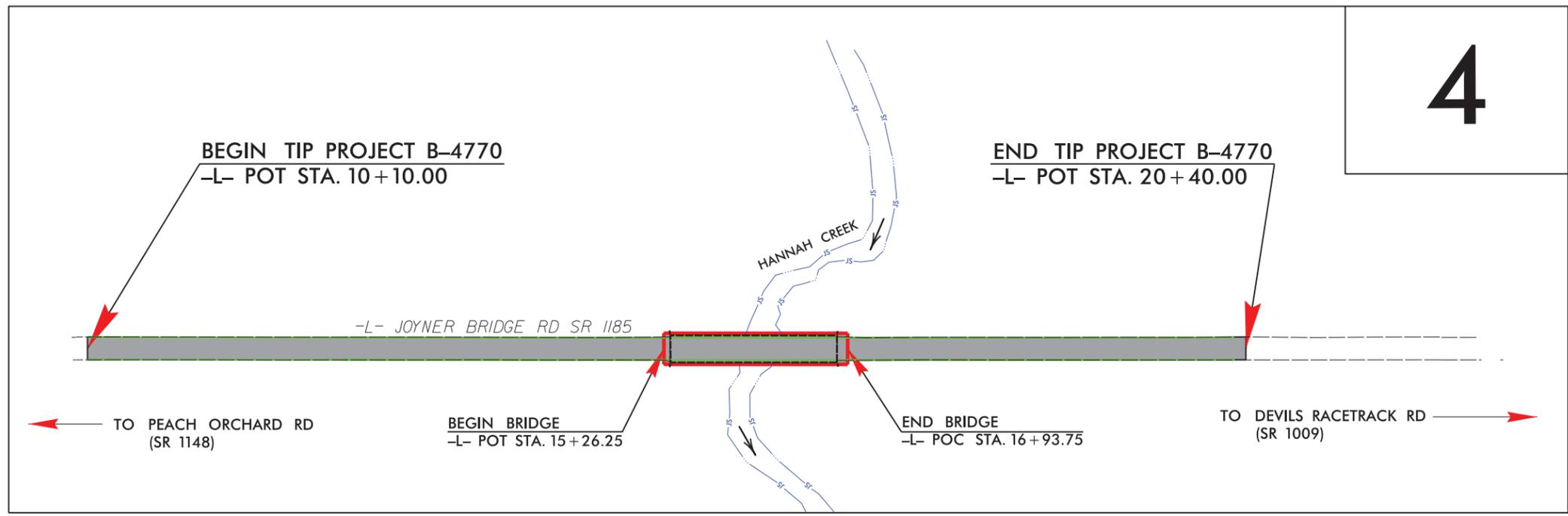
JOHNSTON COUNTY

LOCATION: BRIDGE NO. 32 OVER HANNAH CREEK
ON SR 1185 (JOYNER BRIDGE RD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 1 OF 5

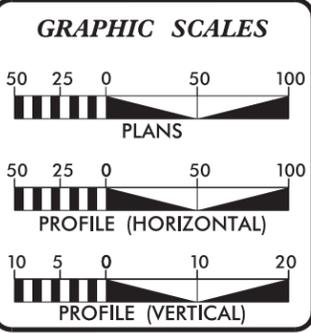


4

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDRIES.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2017 =	440
ADT 2037 =	620
K =	10 %
D =	60 %
T =	5 % *
V =	60 MPH
* TTST =	2% DUAL=3%
FUNC CLASS =	LOCAL
SUB-REGIONAL TIER	

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4770 =	0.163 MI.
LENGTH OF STRUCTURE TIP PROJECT B-4770 =	0.032 MI.
TOTAL LENGTH OF TIP PROJECT B-4770 =	0.195 MI.

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: AUGUST 25, 2016	GARY LOVERING, PE PROJECT ENGINEER
LETTING DATE: AUGUST 15, 2017	KANCHANA NOLAND PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

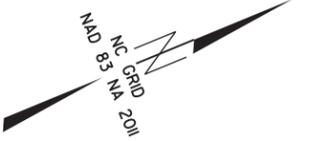
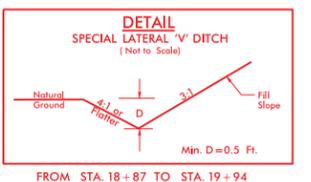


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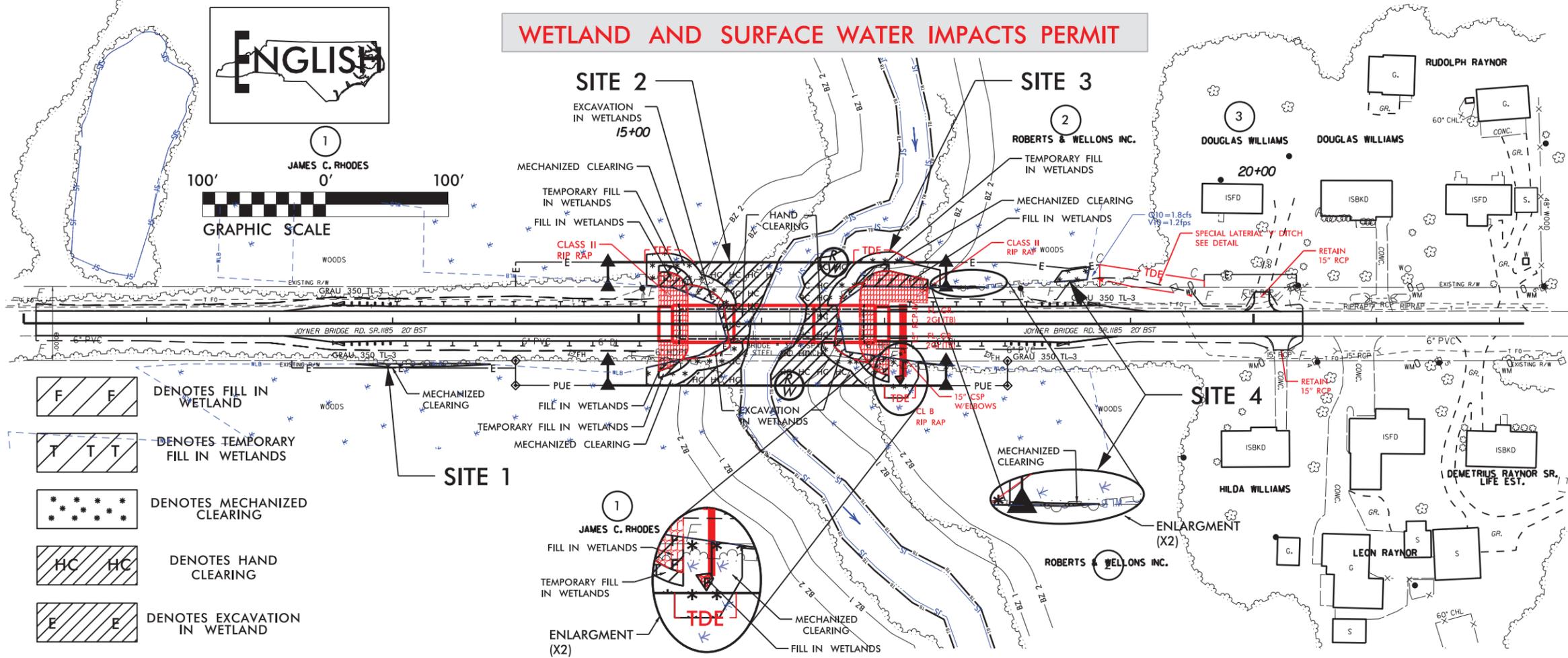
PROJECT REFERENCE NO.	SHEET NO.
B-4770	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

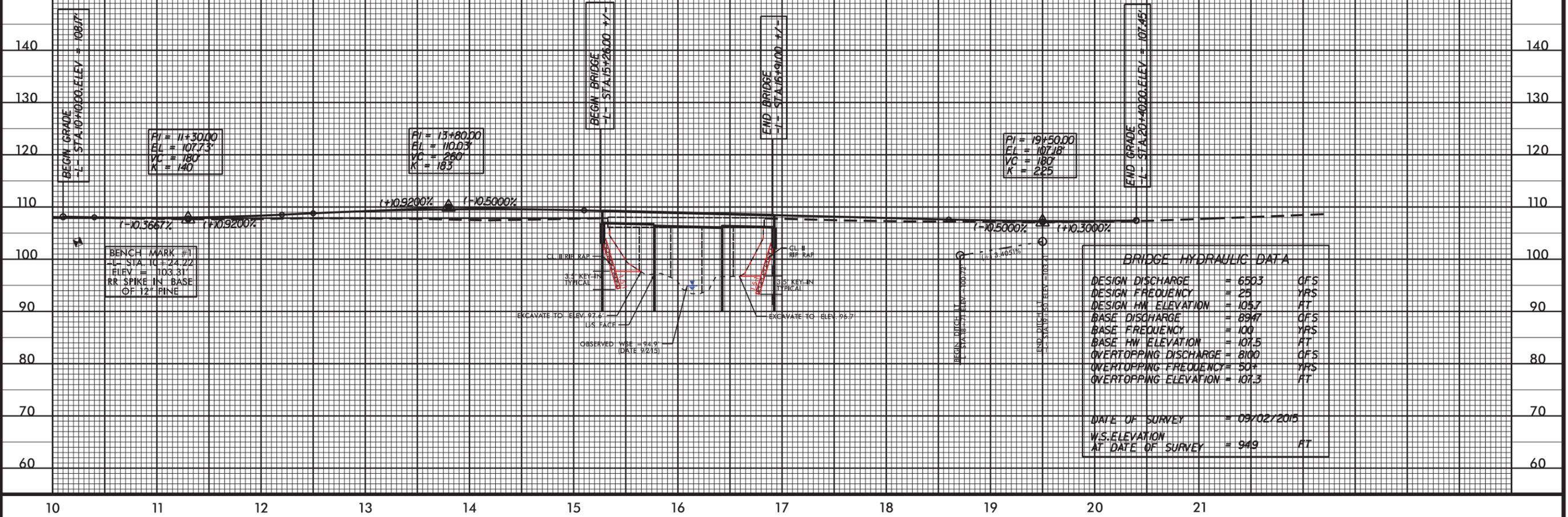
PERMIT DRAWING SHEET 2 OF 5



WETLAND AND SURFACE WATER IMPACTS PERMIT



- DENOTES FILL IN WETLAND
- DENOTES TEMPORARY FILL IN WETLANDS
- DENOTES MECHANIZED CLEARING
- DENOTES HAND CLEARING
- DENOTES EXCAVATION IN WETLAND



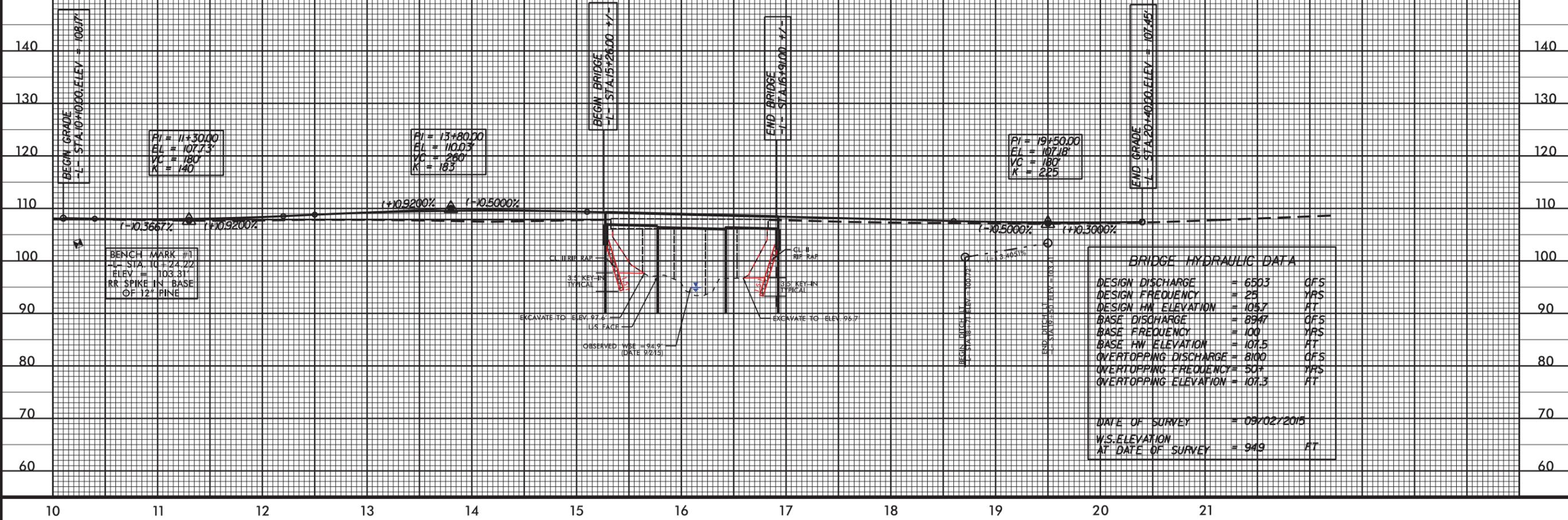
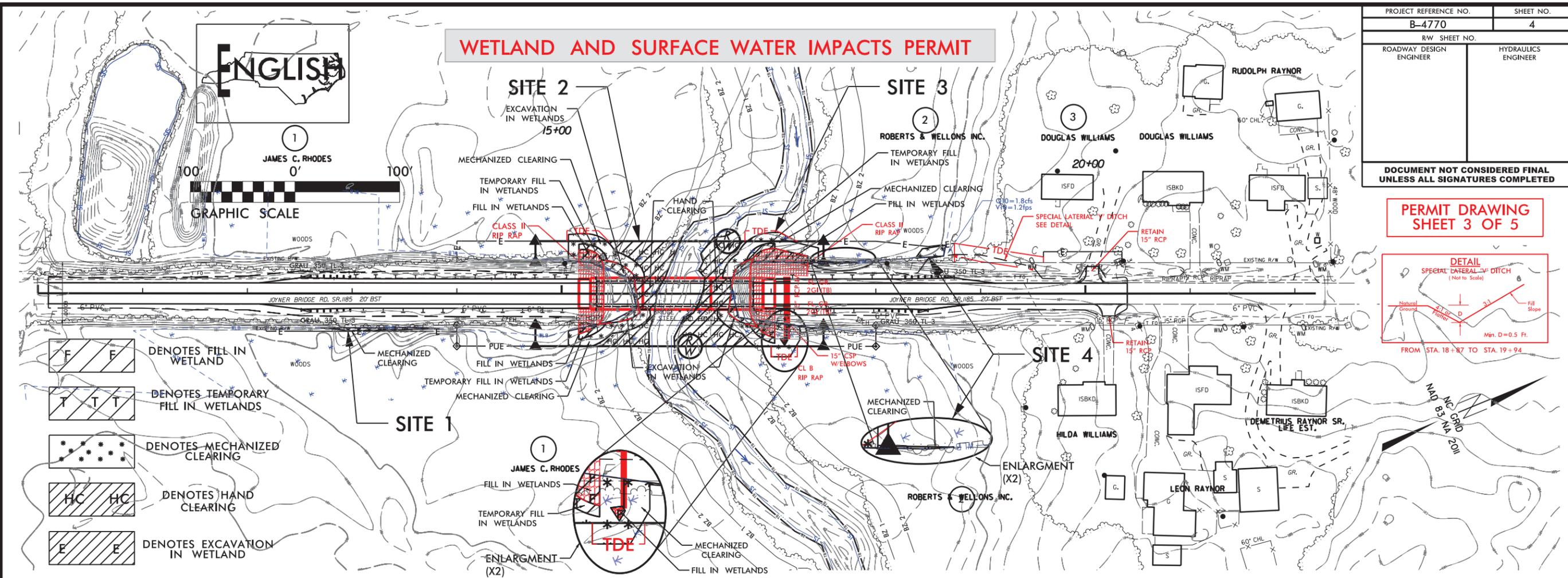
PROJECT REFERENCE NO. B-4770	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PERMIT DRAWING SHEET 3 OF 5



WETLAND AND SURFACE WATER IMPACTS PERMIT



WETLAND PERMIT IMPACT 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- STA 12+69 TO -L- STA 13+80	ROADWAY				< 0.01						
2	-L- STA 15+06 -L- STA 16+14	BRIDGE	< 0.01	< 0.01	0.01	0.04	0.07					
3	-L- STA 16+07 TO -L- STA 17+45	BRIDGE	0.02	< 0.01	< 0.01	0.06	0.08					
4	-L- STA 17+45 TO -L- STA 17+82	ROADWAY				< 0.01						
	-L- STA 18+37 TO -L- STA 18+67	ROADWAY				< 0.01						
TOTALS*:			0.02	0.01	0.02	0.11	0.15			0	0	0

*Rounded totals are sum of actual impacts

NOTES:

Bridge:

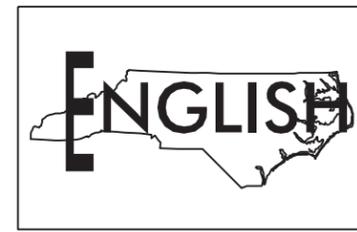
Permanent impacts due to bents in wetlands: 28 sf (<0.01 acres)

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 03/01/2017
 JOHNSTON COUNTY
 B-4770
 WBS: 38542.1.1
 SHEET 5 OF 5

09/08/19

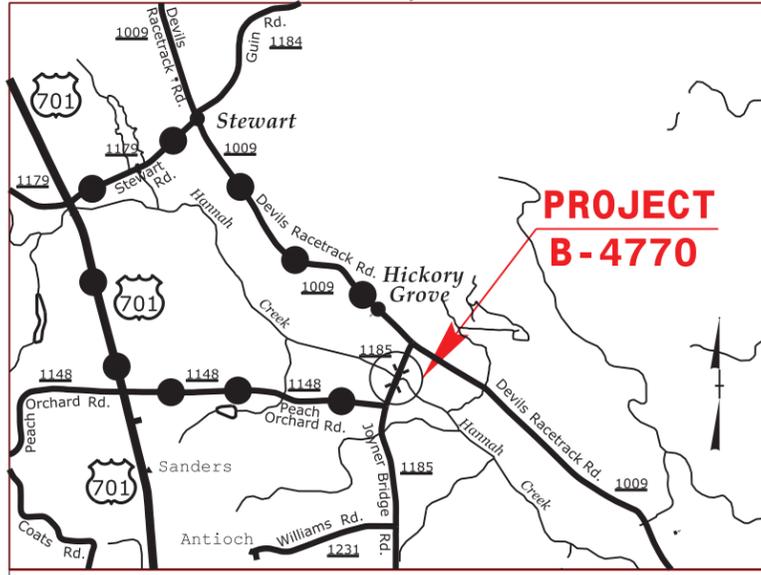
See Sheet 1A For Index of Sheets
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



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STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38542.1.1	BRZ-1185(2)	PE	
38542.2.1			

TIP PROJECT: B-4770



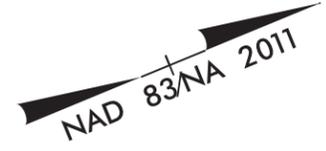
**PROJECT
B-4770**

**LOCATION: BRIDGE NO. 32 OVER HANNAH CREEK
ON SR 1185 (JOYNER BRIDGE RD)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

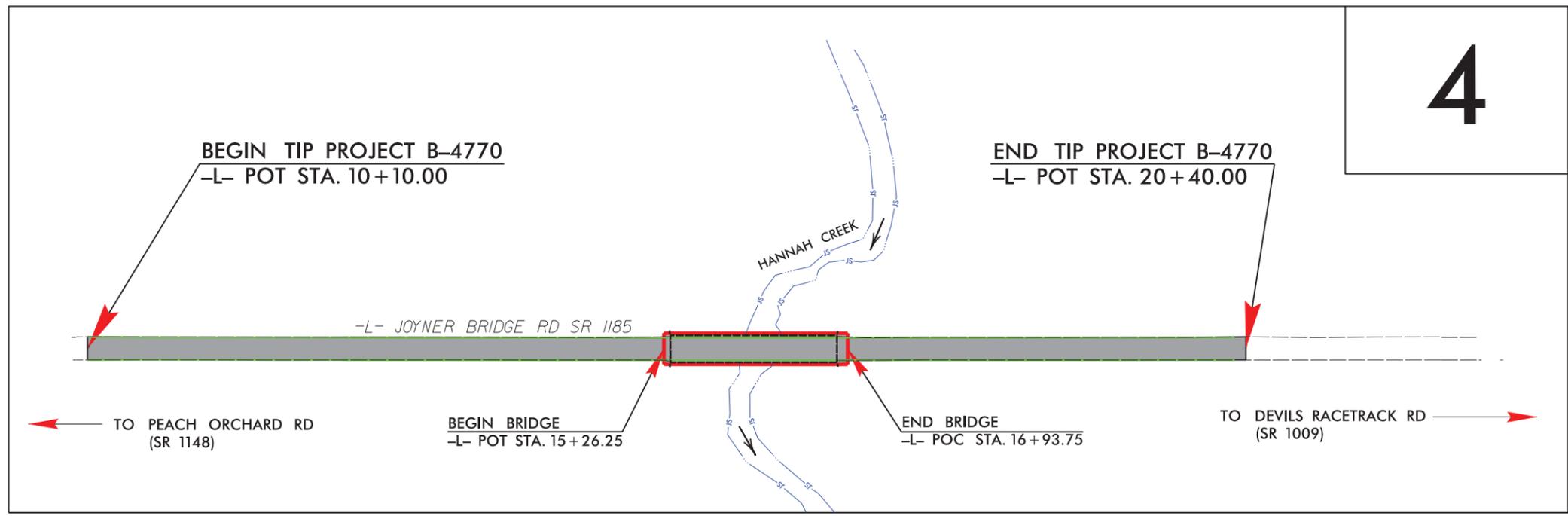
**BUFFER DRAWING
SHEET 1 OF 4**

BUFFER IMPACTS PERMIT



VICINITY MAP

● — ● DENOTES OFF-SITE DETOUR

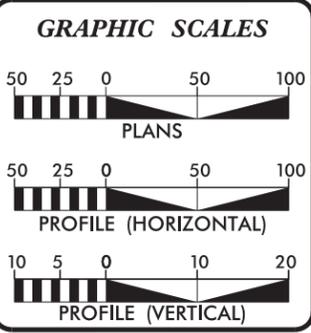


4

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SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



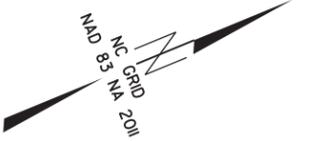
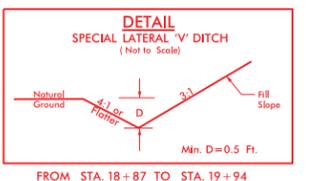
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8/17/99

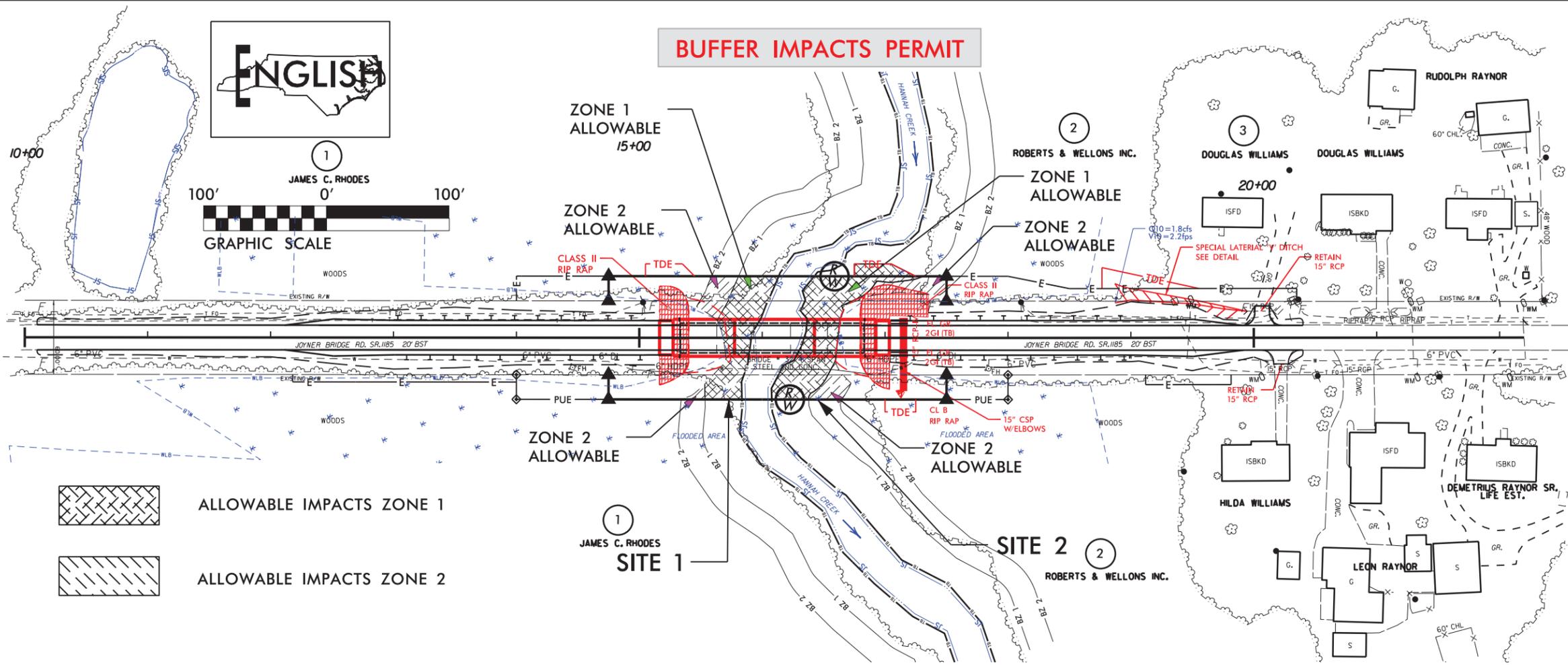
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PROJECT REFERENCE NO. B-4770	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

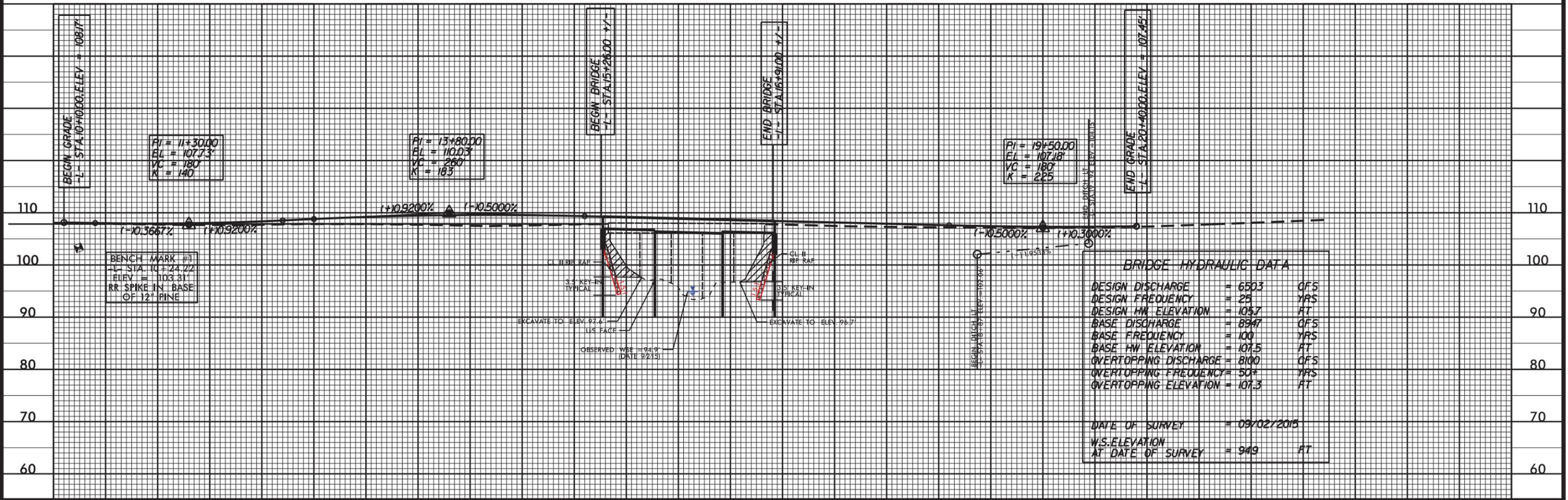
BUFFER DRAWING SHEET 2 OF 4



BUFFER IMPACTS PERMIT



- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2



BUFFER IMPACTS SUMMARY

			IMPACT									BUFFER REPLACEMENT	
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	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	BRIDGE	-L- STA. 15+34 TO -L- STA. 16+14		X		2784	767	3551					
2	BRIDGE	-L- STA. 16+07 TO -L- STA. 17+62		X		4186	1344	5530					
TOTAL:						6970	2111	9081	0.0	0.0	0.0		

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

 JOHNSTON COUNTY
 PROJECT: 38542.1.1 (B-4770)

 8/22/2016
 SHEET 3 OF 4

WETLANDS IN BUFFER IMPACTS SUMMARY

SITE NO.	STATION (FROM/TO)	WETLANDS IN BUFFERS	
		ZONE 1 (ft ²)	ZONE 2 (ft ²)
1	-L- STA. 15+34 TO	2784	767
	-L- STA. 16+14		
2	-L- STA. 16+07 TO	4051	1344
	-L- STA. 17+62		
TOTAL:		6835	2111

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

 JOHNSTON COUNTY
 PROJECT: 38542.1.1 (B-4770)

 8/22/2016
 SHEET 4 OF 4