

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

July 11, 2013

Wilmington Regulatory Field Office US Army Corps of Engineers 69 Darlington Avenue Wilmington, North Carolina 28403

ATTN: Mr. Ronnie Smith

NCDOT Coordinator

Dear Sir:

Subject: Application for a Section 404 Nationwide Permit 3 for the proposed

replacement of Bridge No. 85 over Toms Fork Creek on SR 1119 in Columbus

County. Federal Aid Project No. BRZ-1119(3), TIP No. B-4475

The North Carolina Department of Transportation (NCDOT) proposes to replace the 53-foot, 3-span Bridge No. 85 with a 90-foot, 2-span bridge on the existing alignment. Traffic will follow an offsite detour during construction. Permanent impacts to jurisdictional resources include 0.02 acre of wetland fill.

Please see enclosed copies of the Pre-Construction Notification (PCN), Preliminary Jurisdictional Determination Form, permit drawings, stormwater management plan, and design plans for the above referenced project. The Categorical Exclusion (CE) was completed in April 2012. Copies were distributed shortly thereafter. Additional copies are available at the NCDOT website: http://207.4.62.65/PDEA/EnvironmentalDocs/.

This project calls for a letting date of February 18, 2014 and a review date of December 31, 2013. The project schedule may be advanced if funding becomes available.

Regulatory Approvals

<u>Section 404 Permit:</u> 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 these activities be authorized by Nationwide Permit 3.

<u>Section 401 Permit:</u> We anticipate 401 General Certification number 3883 will apply to this project.

TELEPHONE: 919-707-6000

A copy of this permit application and its distribution list will be posted at the NCDOT Website at https://connect.ncdot.gov/resources/Environmental. If you have any questions or need additional information, please contact Tyler Stanton at tstanton@ncdot.gov or (919) 707-6156.

Sincerely,

Gregory J. Thorpe, Ph.D., Manager Project Development and Environmental Analysis Unit

NCDOT Permit Application Standard Distribution List cc:





Office Use Only:	
Corps action ID no	
DWQ project no	
Form Version 1.3 Dec 10 2008	

	Pre-Construction Notification (PCN) Form					
A.	Applicant Information					
1.	Processing					
1a.	Type(s) of approval sought from Corps:	the	⊠ Section 404 Permit ☐ Secti	on 10 Permit		
1b.	Specify Nationwide Permit (NWP) number: 3	or General Permit (GF) number:		
1c.	Has the NWP or GP number bee	n verified b	y the Corps?	⊠ Yes	☐ No	
1d.	Type(s) of approval sought from	the DWQ (check all that apply):			
		n – Regula	r Non-404 Jurisdictiona	al General Permi	t	
	☐ 401 Water Quality Certification	n – Expres	Riparian Buffer Autho	orization		
1e.	Is this notification solely for the rebecause written approval is not r		For the record only for DWQ 401 Certification:	For the record	only for Corps Permit:	
		- 1	⊠ Yes □ No	☐ Yes	⊠ 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.			⊠ No			
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.			⊠ No			
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	☐ Yes	⊠ No	
2.	Project Information					
2a.	Name of project:	Replacem	nent of Bridge No. 85 over Toms Forl	k Creek on SR 1	119	
2b.	County:	Columbus	3			
2c.	Nearest municipality / town:	Tabor City	/			
2d.	Subdivision name:	not applic	able			
2e.	NCDOT only, T.I.P. or state project no:	B-4475				
3.	Owner Information					
3a.	Name(s) on Recorded Deed:	North Car	olina Department of Transportation			
3b.	Deed Book and Page No.	not applic	able			
3c.	Responsible Party (for LLC if applicable):	not applicable				
3d.	Street address:	eet address: 1598 Mail Service Center				
3e.	City, state, zip: Raleigh, NC 27699-1598					
3f.	Telephone no.:	(919) 707	-6156			
3g.	Fax no.:	(919) 250	-4224			
3h.	Email address:	tstanton@	ncdot.gov			

4.	Applicant Information (if different from owner)				
4a.	Applicant is:	Agent Other, specify:			
4b.	Name:	not applicable			
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	ı (if applicable)			
5a.	Name:	not applicable			
5b.	Business name (if applicable):				
5c.	Street address:				
5d.	City, state, zip:				
5e.	Telephone no.:				
5f.	Fax no.:				
5g.	Email address:				

В.	Project Information and Prior Project History					
1.	Property Identification					
1a.	Property identification no. (tax PIN or parcel ID):	not applicable				
1b.	Site coordinates (in decimal degrees):	Latitude: 34.08 (DD.DDDI		Longitude: - 78.8023 (-DD.DDDDDD)		
1c.	Property size:	0.73 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Toms Fork Cre	eek			
2b.	Water Quality Classification of nearest receiving water:	C;Sw				
2c.	River basin:	Lumber				
3.	Project Description					
3a.	Ba. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions at the site include maintained / disturbed roadside shoulder and forested areas. Land use in the project vicinity is predominantly agriculture with some residential properties.					
3b.	List the total estimated acreage of all existing wetlands on the	property: 0.26				
3c.	c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 140					
3d.	Explain the purpose of the proposed project: To replace a stru	cturally deficien	t bridge			
3e.	Be. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 53-foot 3-span bridge with a 90-foot, dual-span bridge on the existing alignment. Traffic will follow an offsite detour during construction. 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: A preliminary JD request was signed March 2, 2010	⊠ Yes	□No	Unknown		
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	□ Preliminary	Final			
4c.	If yes, who delineated the jurisdictional areas? Name (if known): Tyler Stanton	Agency/Consu Other:	ıltant Company	: NCDOT		
4d.	If yes, list the dates of the Corps jurisdictional determinations of March 2, 2010	r State determir	nations and atta	ach documentation.		
5.	Project History					
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes	⊠ No	Unknown		
5b.	If yes, explain in detail according to "help file" instructions.					
6.	Future Project Plans	1				
6a.	Is this a phased project?	☐ Yes	⊠ No			
6b.	If yes, explain.					

C. Proposed Impacts Inventory							
1. Impacts Summ	ary						
1a. Which sections	were completed b	elow for your project	(check all that a	apply):			
		Streams - tributaries	□Bu	ıffers			
☐ Open Waters	s 🗆 F	Pond Construction					
2. Wetland Impac	ts						
-		on the site, then com	plete this ques	tion for each wetland	area impacted	d.	
2a. Wetland impact	2b.	2c.	2d.	2e. Type of jurisd	iction	2f.	
number –	Type of impact	Type of wetland	Forested	(Corps - 404		Area of impact	
Permanent (P) or Temporary (T)		(if known)		DWQ – non-404	I, other)	(acres)	
	F:II	Diversing	Yes	⊠ Corps		0.00	
Site 1 🛛 P 🗌 T	Fill	Riverine	⊠ No	☐ DWQ		0.02	
Site 1 P T			│	☐ Corps			
0" 0 D D T			☐ Yes	Corps			
Site 3 P T			☐ No	☐ DWQ			
Site 4 P T			│	☐ Corps☐ DWQ			
			Yes	Corps			
Site 5 LP T			□No	☐ DWQ			
Site 6 P T			☐ Yes ☐ No	☐ Corps			
			L INO	<u> </u>		0.02 Permanent	
				2g. Total wetla	-		
2h. Comments: The erosion control device			etlands. Additio	nally there will be 0.0	1 ac of tempor	rary fill for	
3. Stream Impacts		ailing areas.					
•	l or intermittent sti	ream impacts (includi	ing temporary ir	mpacts) proposed on t	the site, then	complete this	
3a.	3b.	3c.	3d.	3e.	3f.	3g.	
Stream impact	Type of impact	Stream name	Perennial (PER) or	Type of	Average	Impact length (linear feet)	
number - Permanent (P) or			intermittent	jurisdiction (Corps - 404, 10	stream width	(iiiioai ioot)	
Temporary (T)			(INT)?	DWQ – non-404,	(feet)		
			PER	other)			
Site 1 P T				☐ DWQ			
Site 2 P T			PER	Corps			
			☐ INT	☐ DWQ ☐ Corps			
Site 3 P T				DWQ			
Site 4 P T			□ PER	Corps			
			│	DWQ	_	X Perm	
			3h. T	otal stream and tribu	utary impacts	X Temp	
3i. Comments:	3i. Comments:						

4. Open	Water Im	npacts								
	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.		4b.	4c.				4d.		4e.	
	Open water Name of			T	()	1	\\\ - (- \ - \ - \		A	()
impact nu Permanen		waterbody (if applicable)		Тур	e of impact	I	Waterbod	y type	Area of im	pact (acres)
Tempora		(II applicable)								
01 🗆 F	PT									
01 🗆 F	Т□									
02 🗌 F	РПТ									
O3 □ F	P 🗌 T									
						4f. Total o	pen water i	mpacts		manent nporary
4g. Comments:										
5. Pond	5. Pond or Lake Construction									
		truction proposed,	then con	nplete	the chart b	elow.				
5a.	5b.		5c.				5d.			5e.
Pond ID	Pro	posed use or	Wetland Impacts (acres)			Stream Impac		ets (feet)	Upland (acres)	
number		oose of pond	Flood	ded	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total								
5g. Comm	ents:									
5h. Is a dam high hazard permit required?			□Y	es	□No	If yes, perr	mit ID no	:		
5i. Expected pond surface area (acres):										
5j. Size o	of pond wa	atershed (acres):								
5k. Metho	k. Method of construction:									

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?	☐ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	Other:				
6b.	6c.	6d.	6e.	6f.	6g.			
Buffer impact number – Permanent (P) or Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)			
B1 □ P □ T			☐ Yes ☐ No					
B2 □ P □ T			☐ Yes ☐ No					
B3 □ P □ T			☐ Yes ☐ No					
	6h. Total buffer impacts							
6i. Comments:								

D.	Impact Justification and Mitigation				
1.	Avoidance and Minimization				
1a.	Specifically describe measures taken to avoid or minimize t	he proposed impacts i	n designing project.		
	The proposed bridge is 37 feet longer than the existing bridge and will eliminate one bent from the water. There will be minimal permanent fill in jurisdictional areas. The removal of existing road fill for longer bridge and increasing bridge openings will improve hydrological conveyance and wildlife passage, and reduce bridge opening velocities.				
1b.	Specifically describe measures taken to avoid or minimize t	he proposed impacts t	through construction techniques.		
	Construction will be top-down. Best Management Practices Demolition and Removal will be implemented.	s for the Protection of S	Surface Waters as well as Bridge		
2.	Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters of the	State		
22	Does the project require Compensatory Mitigation for	☐ Yes			
Z u.	impacts to Waters of the U.S. or Waters of the State?	If no, explain: Due to compensatory mitiga	the minimal amount of impacts tion is not proposed.		
2b.	If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Co	rps		
2c.	If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lie ☐ Permittee Respo	. •		
3.	Complete if Using a Mitigation Bank				
3a.	Name of Mitigation Bank: not applicable				
3b.	Credits Purchased (attach receipt and letter)	Туре	Quantity		
3c.	Comments:				
4.	Complete if Making a Payment to In-lieu Fee Program				
4a.	Approval letter from in-lieu fee program is attached.	Yes			
4b.	Stream mitigation requested:	linear feet			
4c.	If using stream mitigation, stream temperature:	☐ warm ☐ co	ol		
4d.	Buffer mitigation requested (DWQ only):	square feet			
4e.	Riparian wetland mitigation requested:	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 F	Plan			
5a.	If using a permittee responsible mitigation plan, provide a d	escription of the propo	sed mitigation plan.		

6. Buffer N	6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ						
	oroject result in an impact wit itigation?	n buffer that requires	☐ 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.							
	6c.	6d		6e.			
Zone	Reason for impact	Total impact (square feet)	Multiplier	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. Commer	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?	☐ Yes	⊠ No			
1b.	If yes, then is a diffuse flow plan included? If not, explain why. Comments:	☐ Yes	□ 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?	⊠ Yes	□ No			
2c.	If this project DOES NOT require a Stormwater Management Plan, explain why:					
2d.	2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings and stormwater management plan.					
2e.	Who will be responsible for the review of the Stormwater Management Plan?		al Government water Program nit			
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):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Suppl ☐ Other:	y Watershed			
3c.	Has the approved Stormwater Management Plan with proof of approval been attached?	Yes	□ No			
4.	DWQ Stormwater Program Review					
4a.	Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal coul HQW ORW Session La Other:	nties w 2006-246			
4b.	Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	⊠ No			
5.	DWQ 401 Unit Stormwater Review					
5a.	Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes	□ No N/A			
5b.	Have all of the 401 Unit submittal requirements been met?	☐ Yes	□ 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?	⊠ Yes	□No		
1b.	If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	⊠ Yes	□No		
1c.	If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)	⊠ Yes	□No		
	Comments:				
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)?	☐ Yes	⊠ No		
2b	Is this an after-the-fact permit application?	☐ Yes	⊠No		
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	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?	☐ Yes ☑ No			
3b	b. 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 this bridge replacement, this pland uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects st				
4.	Sewage Disposal (DWQ Requirement)				
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge the proposed project, or available capacity of the subject facility. not applicable	arge) of wastewate	er generated from		

5. Endangered Species and Designated Critical Habitat (Corps Requirement)						
5a. Will this project occur in or near habitat?	r an area with federally protected species or	Yes	⊠ No			
5b. Have you checked with the US impacts?	FWS concerning Endangered Species Act	☐ Yes	⊠ No			
5c. If yes, ind icate the USFWS Fiel	Sc. If yes, ind icate the USFWS Field Office you have contacted. Raleigh Asheville					
5d. What data sources did you use Habitat?	5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?					
NCNHP, USFWS website, field	surveys					
6. Essential Fish Habitat (Corps	Requirement)					
6a. Will this project occur in or near	an area designated as essential fish habitat?	☐ Yes	⊠ No			
6b. What data sources did you use	to determine whether your site would impact E	ssential Fish Habitat?				
NMFS County Index						
7. Historic or Prehistoric Cultur	al Resources (Corps Requirement)					
governments have designated a status (e.g., National Historic Ti	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 hi	storic or archeological r	esources?			
NEPA Documentation						
8. Flood Zone Designation (Corps	Requirement)					
8a. Will this project occur in a FEMA	A-designated 100-year floodplain?	⊠ Yes	☐ No			
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA						
8c. What source(s) did you use to make the floodplain determination? FEMA Maps						
Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)						



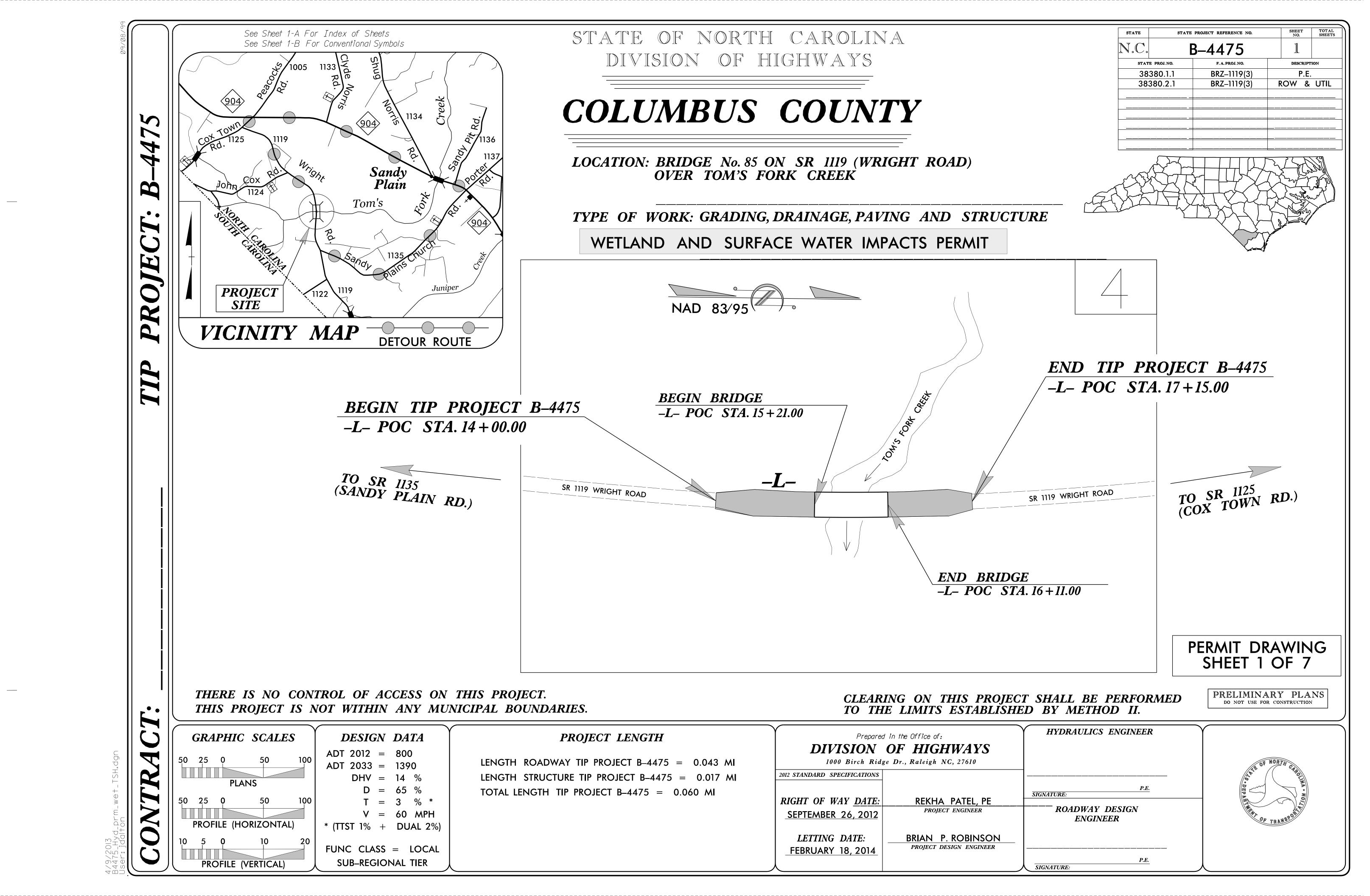
North Carolina Department of Transportation

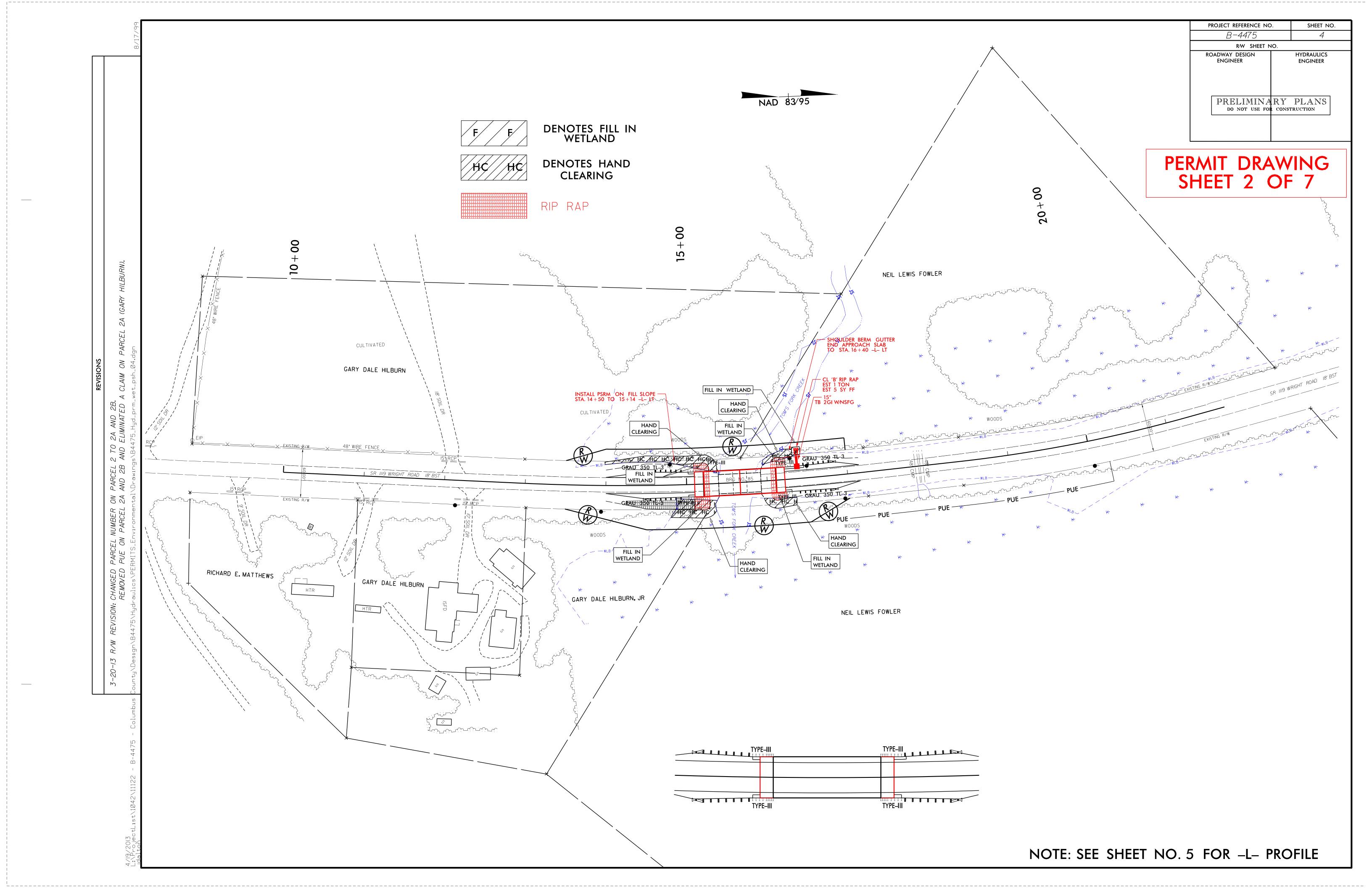
Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR LINEAR ROADWAY PROJECTS

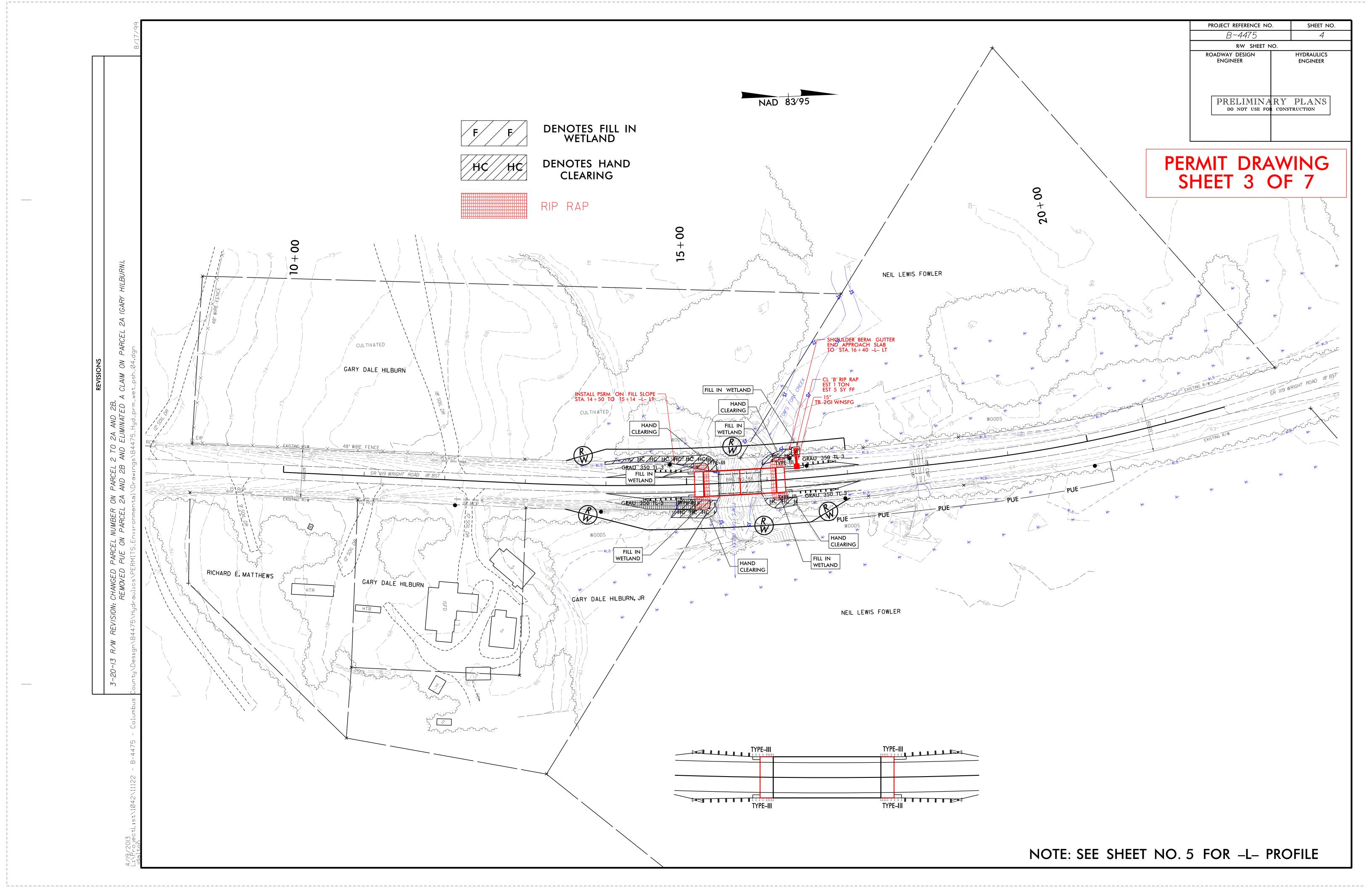


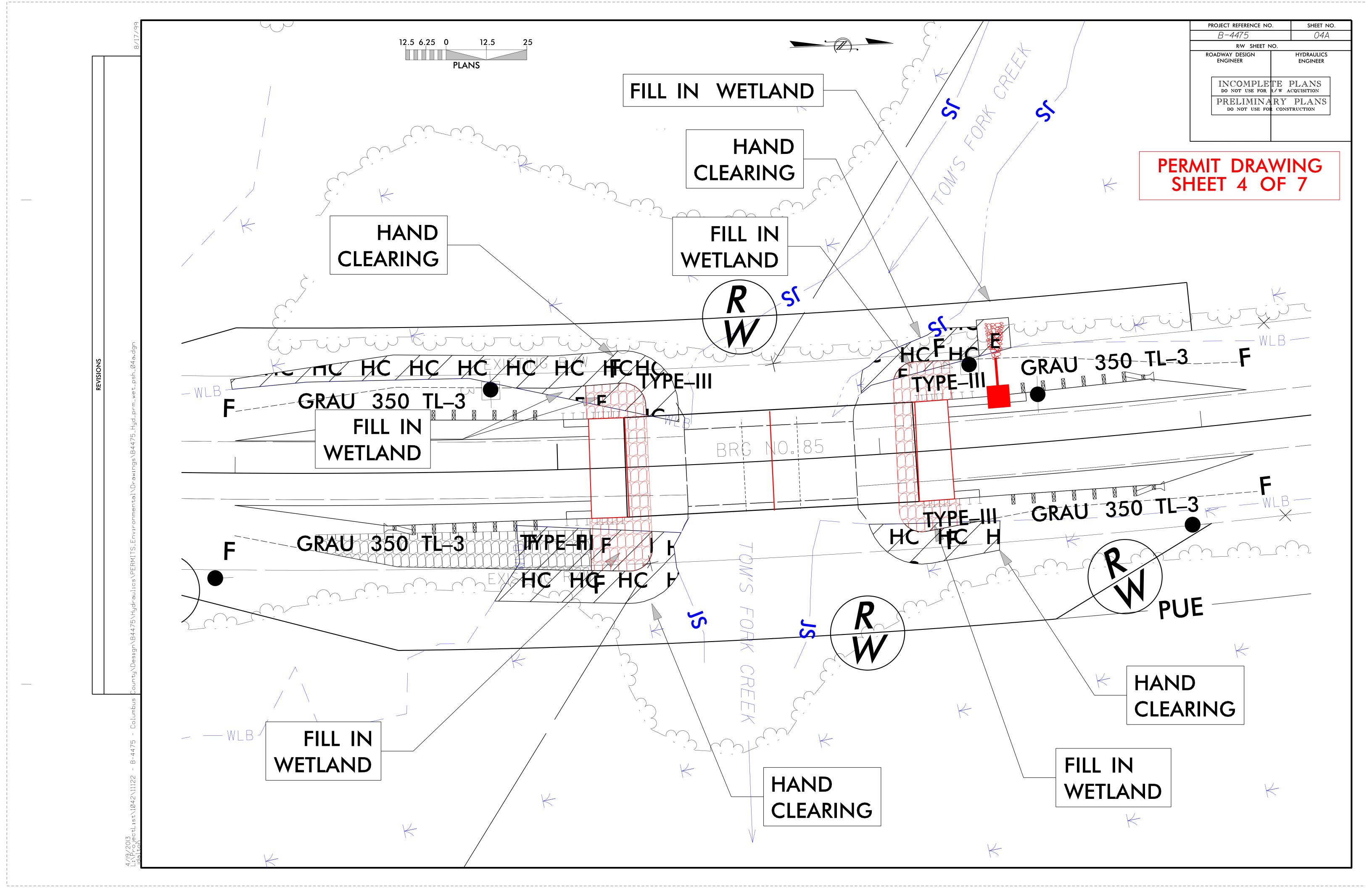
(Version 1.2; Released September 2011)

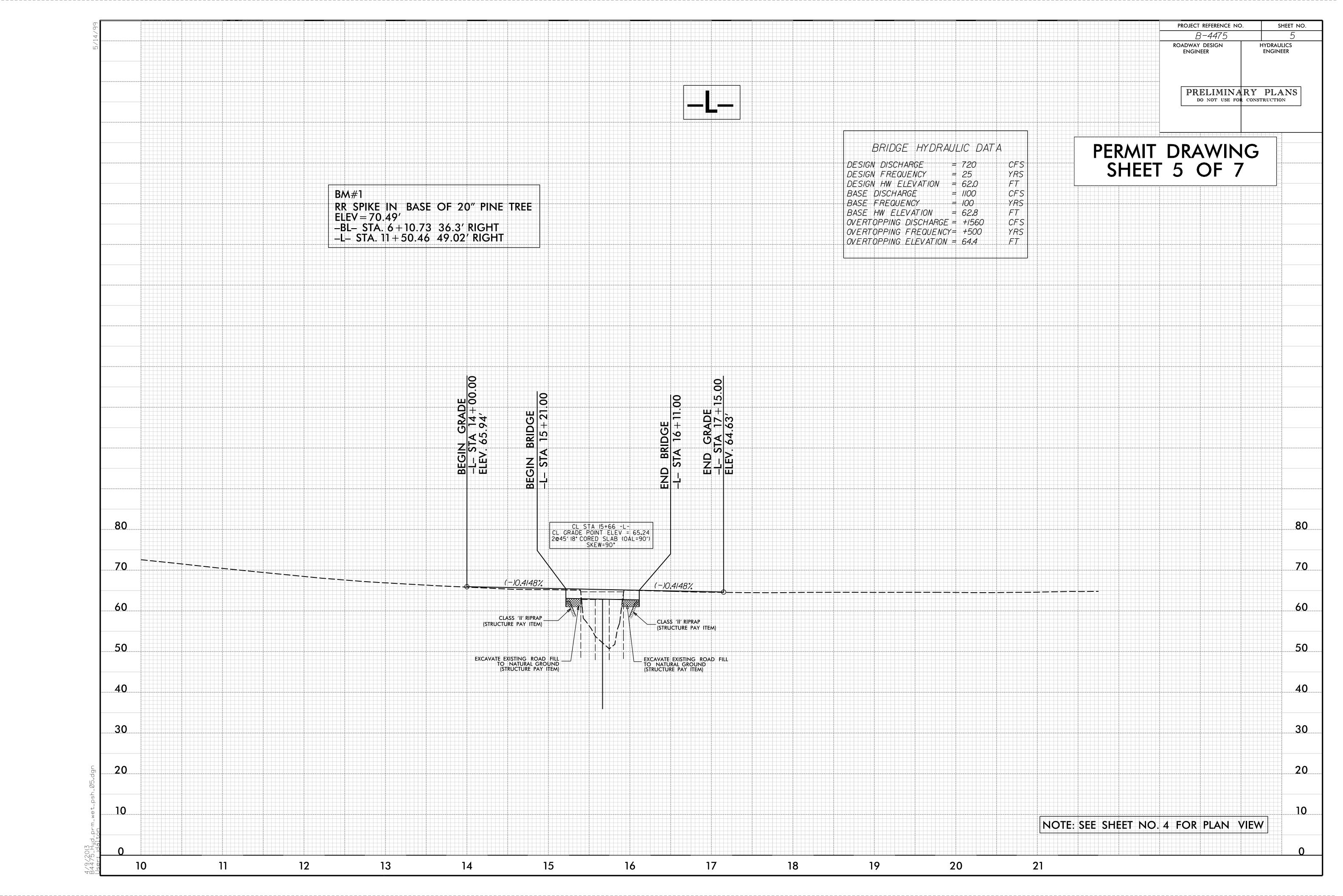
Project/TIP No.: B-4475 County(ies): Columbus Page **General Project Information** Project No.: B-4475 Project Type: **Bridge Replacement** Date: 3/8/2013 NCDOT Contact: Bill Zerman, PE Contractor / Designer: Sungate Design Group, P.A. Address: 1020 Birch Ridge Road Address: 915 Jones Franklin Road Raleigh, NC 27610 Raleigh, NC 27606 Phone: 919-859-2243 Phone: 919-707-6755 Email: idalton@sungatedesign.com Email: bzerman@ncdot.gov City/Town: County(ies): Columbus River Basin(s): CAMA County? No Lumber Primary Receiving Water: Toms Fork Creek NCDWQ Stream Index No.: 15-17-1-10 Primary: Class C NCDWQ Surface Water Classification for Primary Receiving Water Supplemental: Swamp Waters (Sw) Other Stream Classification: None 303(d) Impairments: None **Buffer Rules in Effect** N/A **Project Description** Rural, Agriculture, Swamp Surrounding Land Use: Project Length (lin. Miles or feet): 0.06 miles **Proposed Project Existing Site** 0.22 0.14 Project Built-Upon Area (ac.) ac. ac. Typical Cross Section Description: 2-Lane Shoulder Section 2-Lane Shoulder Section Average Daily Traffic (veh/hr/day): Design/Future: 800 Existing: 1390 General Project Narrative: B-4475 involves the removal and replacement of Columbus County bridge number 85. A rip-rap dissipator pad is proposed at the outlet of the bridge end drain to provide diffuse flow. A preformed scour holes was not used on this project due to proximity to wetlands. A proposed interior bent is located within the stream. This was necessary in order to provide a span length that could be constructed using Top Down methods to avoid further impacts. Rock plating was used on the fill slopes from station 14+25 to 15+14.5 -L- right to reduce impacts to the wetlands. Permanent Soil Reinforcement Matting was used on the fill slopes from station 14+50 to 15+14 -L- left to also reduce impacts to the wetlands. References











					WI	ETLAND PER	RMIT IMPA	CT SUMMA	NRY			
		WETLAND IMPACTS					SURFACE WATER IMPACTS					
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	in	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
	14+00 to 17+15 -L-	Fill	0.02	(202)	(222)	(223)	0.06	(3.3)	(222)	()	()	()
TOTALS	Q.		0.02				0.06					

^{*} NOTE: 0.01 Acre of Temporary Fill in Wetlands will be required in the Hand Clearing areas for erosion control measures.

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

COLUMBUS COUNTY
WBS - 38380.1.1 (B-4475)

ATN Revised 3/31/05 SHEET 7 OF 7 4/19/2013