

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

March 13, 2012

U. S. Army Corps of Engineers Regulatory Field Office Heritage Trade Drive, Suite 105 Wake Forest, NC 27587

ATTN:

Mr. Monte Matthews **NCDOT Coordinator**

Subject:

Application for Regional General Permit 198200031 and 401 General Water Quality Certification for the proposed replacement of Bridge No. 718 over Middle Fork Reddies River on SR 1580 (Kuenzel-Eller Driver) in Wilkes County, Federal Aid Project No. BRZ-1580(2); Division 11; TIP No.

B-4325; WBS 33662.1.1; Debit order \$240.00

Dear Mr. Matthews:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 718, a 50-foot single-span bridge over Middle Fork Reddies River on Kuenzel-Eller Drive (SR 1580), with a 65-foot single-span bridge slightly south of existing location. No instream work is required for bridge removal. There will be 21 linear feet of permanent impacts from the use of riprap for bank stabilization at ditch outfalls, one located northeast and one southwest of the bridge. There are no temporary impacts associated with the replacement of bridge No.718.

Due to the presence of an archeological site that is eligible for listing in the National Register of Historic Places, included in this application for reference is a copy of the Memorandum of Agreement (dated January 2012) between the Federal Highway Administration, NCDOT, State Historic Preservation Officer, and Eastern Band of the Cherokee Indians for this project.

Comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the Corps of Engineers. By copy of this letter and attachments, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers and the NCDOT within 30 calendar days of receipt of this application.

WEBSITE: WWW.NCDOT.ORG

Please see enclosed copies of the Pre-Construction Notification (PCN) Form, Memorandum of Agreement, Stormwater Management Plan, Permit drawings and Design plans. The Categorical Exclusion (CE) was completed on May 2, 2006. A right of way consultation was completed on November 18, 2010. Documents were distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of February 19, 2013 and a review date of January 1, 2013; however the let date may advance as additional funding becomes available.

A copy of this permit application and its distribution list will be posted on the NCDOT website at: http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. If you have any questions or need additional information, please call Jennifer Harrod at (919) 707-6124.

Gregory J. Thorpe, Ph.D., Manager

Project Development Environmental Analysis Unit

Cc: NCDOT Permit Application Standard Distribution List File





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

	Pre-Construction Notification (PCN) Form					
Α.	Applicant Information					
1.	Processing					
1a.	a. Type(s) of approval sought from the Corps:					
1b.	Specify Nationwide Permit (NWP)	number:	or General Permit (GP) r	number: 1982000	031	
1c.	Has the N WP or GP number bee	n verified b	by the Corps?	Yes	⊠ No	
1d.	Type(s) of approval sought from t	he DWQ (check all that apply):			
		n – Regula	r Non-404 Jurisdictiona	al General Permi	t	
	401 Water Quality Certification	n – Expres	s Riparian Buffer Autho	rization		
1e.	Is this notification solely for the rebecause written approval is not re		For the record only for DWQ 401 Certification:	For the record of	only for Corps Permit:	
	booduoo wiikon approvario not k	oquireu:	☐ Yes ☐ No	☐ Yes	⊠ No	
1f.	f. 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	
1g.	Is the project located in any of No below.	C's twenty	coastal counties. If yes, answer 1h	☐ Yes	⊠ No	
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	☐ Yes	⊠ No	
2.	Project Information					
2a	Name of project:	Replacer	nent of Bridge 718 over Middle Fork F	Reddies River on	NC 1580	
2b	. County:	Wilkes				
2c.	Nearest municipality / town:	Wilbar				
2d	. Subdivision name:	not applic	cable			
2e	NCDOT only, T.I.P. or state project no:	B-4325				
3.	Owner Information					
3a	. Name(s) on Recorded Deed:	North Ca	rolina Department of Transportation			
	. Deed Book and Page No.	not appli	cable			
3с	3c. Responsible Party (for LLC if applicable): not applicable					
3d	3d. Street address: 1598 Mail Service Center					
3e	3e. City, state, zip: Raleigh, NC 27699-1598					
3f.	Telephone no.:	(919) 707	7-6124	-1		
3g	. Fax no.:	(919) 212	2-5785			
3h	. Email address:	jwharrod	@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	n (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.	3. 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: 36.27 (DD.DDDI		Longitude: - 81.300716 (-DD.DDDDDD)		
1c.	Property size:	0.85 acre				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Middle Fork R	eedies River			
2b.	Water Quality Classification of nearest receiving water:	WS-II;Tr; HQV	V			
2c.	River basin:	Yadkin-Pee De	ee			
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: Rural residential and agricultural land					
3b.	b. List the total estimated acreage of all existing wetlands on the property: 0.00					
Зс.	List the total estimated linear feet of all existing streams (interm	littent and perer	nnial) on the pro	pperty:		
3d	Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete brid	dge.				
3e	Describe the overall project in detail, including the type of equi The project involves replacing a 50-foot single span bridge wit maintain traffic on existing bridge during construction. Standar cranes will be used.	th a 65-foot sing	le span bridge			
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:	☐ Yes	⊠ No	☐ Unknown		
4b	. If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminar	y 🗌 Final			
4c	If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Const Other:	ultant Company	r:		
4d	. If yes, list the dates of the Corps jurisdictional determinations of	or State determi	nations and att	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					
6a	a. Is this a phased project?	☐ Yes	⊠ No			
6b	o. If yes, explain.	<u> </u>				
1						

C. Proposed Impa	cts Inventory						
1. Impacts Summa	ıry						
1a. Which sections w	vere completed be	low for your project (check all that ap	oply):			
☐ Wetlands	⊠s	treams - tributaries	☐ Buff	fers			
☐ Open Waters	□ P	ond Construction					
2. Wetland Impact							
If there are wetland in 2a.	mpacts proposed of 2b.	on the site, then com 2c.	2d.	on for each wetland a 2e.	rea impacted.		
Wetland impact number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	Type of jurisdio (Corps - 404, DWQ – non-404,	ction 10 A	Area of impact (acres)	
Site 1 P T			☐ Yes	☐ Corps ☐ DWQ			
Site 1 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ			
Site 1 P T			☐ Yes ☐ No	☐ Corps			
				2g. Total wetlan	d impacts		
2h. Comments:							
3. Stream Impacts If there are perennia question for all strea	al or intermittent st		ling temporary in	npacts) proposed on t			
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)	
Site 1 🛛 P 🗌 T	Streambank stabilization	Middle Fork Reedies River	⊠ PER □ INT	⊠ Corps □ DWQ	12	13	
Site / 🛛 P 🗌 T	Streambank stabilization	Middle Fork Reedies River	☑ PER ☐ INT	⊠ Corps □ DWQ	12	15	
Site 3 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 4 P T			☐ PER☐ INT	☐ Corps ☐ DWQ			
Site 5 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 6 ☐ P ☐ T			☐ PER☐ INT	☐ Corps ☐ DWQ		28 Perm	
3h. Total stream and tributary impacts							
3i. Comments:	3i. Comments:						

4. Open \	Water in	npacts								
	f 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 w		Name of		T			\A/atarbadı	, tr.ma	Aron of im	noot (poros)
	impact number – waterbody Permanent (P) or (if applicable)			туре	of impact		Waterbody	, type	Area or im	pact (acres)
Tempora		(ii applicable)								
01 🗆 P										
02 🗌 P	□т									
O3 □ P	ПΤ									
04 □ P	Т									
	4f. Total open water impacts X Permanent X Temporary									
4g. Comm	ents:									
5. Pond	or Lake	Construction								
If pond or		struction proposed,	then com	plete	the chart b	elow.			A14 - A - B14	
5a.	5b.		5c.				5d.			5e.
Pond ID	Pro	oposed use or	We	tland	Impacts (a	cres)	Stream Impacts (feet)			Upland (acres)
number		rpose of pond	Flood	ed	Filled	Excavat ed	Flooded	Flooded Filled Exca		Flooded
P1										
P2										
		5f. Total								
5g. Comm	nents:									
5h. Is a dam high hazard permit required?			□ Y	'es	□ No	If yes, per	mit ID no	:		
5i. Expected pond surface area (acres):										
5j. Size	of pond v	watershed (acres):								
5k. 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.		☐ Tar-Pamlico	☐ Other:					
Project is in which	protected basin?		☐ Catawba	Randleman				
6b.	6c.	6d.	6e.	6f.	6g.			
Buffer impact number –	Reason for impact		Buffer	Zone 1 impact	Zone 2 impact			
Permanent (P) or	·	Stream name	mitigation	(square feet)	(square feet)			
Temporary (T)			required? ☐ Yes					
B1 P T			☐ No					
B2 □ P □ T			Yes					
			∐ No					
B3 □ P □ T			│					
	6h. Total buffer impacts							
6i. Comments:								

D .	mpact Justification and Mitigation						
1.	. Avoidance and Minimization						
1a.	Specifically describe measures taken to avoid or minimize the	ne proposed impacts in	designing project.				
	The proposed bridge is a single-spanstructure, 15 feet longer than the existing structure. 2:1 fill slopes will be utilized where practicable.						
1b.	o. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.						
	Surficial bridge runoff will not be directed into Middle Fork Reedies River via deck drains. There are no impacts associated with the removal of the existing bridge and no temporary access is required. There will be no interior bents in the water associated with the new structure. Policies outlined in Best Management Practices (BMP's) for protection of surface waters and a strict erosion control schedule will be followed. A moratorium prohibiting in-stream work is in place from October 15 to April 15 to protect trout egg and fry stages of trout. Design Standards in Sensitive Watersheds will be adhered to.						
2.	Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters of the S	State				
☐ Yes No							
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	If no, explain: impacts stabilization and is no U.S.	s are due to the use of riprap for bank of considered a loss of waters of the				
2b.	If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Co	rps				
2c.	If yes, which mitigat ion option will be used for this project?	 ☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation 					
3.	Complete if Using a Mitigation Bank						
3a	. Name of Mitigation Bank: not applicable						
3b	. Credits Purchased (attach receipt and letter)	Туре	Quantity				
3с	. 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 (li	near feet of impact)				
40	. If using stream mitigation, stream temperature:	☐ warm ☐ co	ool				
40	. Buffer mitigation requested (DWQ only):	square feet					
46	. Riparian wetland mitigation requested:	acres (acres of imp	act)				
4f	Non-riparian wetland mitigation requested:	acres					
49	. Coastal (tidal) wetland mitigation requested:	acres					
4h	. Comments:						
5.	Complete if Using a Permittee Responsible Mitigation	Plan					
58	5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.						

6. Buff	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 ☐ Yes ☐ No buffer mitigation?							
	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. Com	Sh. 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.					
2e	. Who will be responsible for the review of the Stormwater Management Plan?		ocal Government mwater Program Unit			
3.	Certified Local Government Stormwater Review					
За	. 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 Sup ☐ Other:	ply Watershed			
30	. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□No			
4.	DWQ Stormwater Program Review					
48	a. Which of the following state-implemented stormwater management programs apply (check all that apply):	☐ Coastal c ☐ HQW ☐ ORW ☐ Session ☐ Other:	ounties Law 2006-246			
41	b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes Stormwa	⊠ No, State ter Permit Pending			
5	DWQ 401 Unit Stormwater Review					
58	a. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes	□ No N/A			
5	b. Have all of the 401 Unit submittal requirements been met?	☐ Yes	□ No N/A			

F. \$	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.) Comments:	⊠ Yes	□No			
2.	Violations (DWQ Requirement)					
-		Г				
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	☐ Yes				
	additional development, which could impact nearby downstream water quality?	⊠ 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 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)	1447				
4a	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge proposed project, or available capacity of the subject facility. not applicable	arge) of wastewa	ter generated from			

5.	Endangered Species and Designated Critical Habitat (Corps Requirement)						
5a.	Will this project occur in or near an area habitat?	with federally protected species or	☐ Yes] No			
5b.	Have you checked with the USFWS cor impacts?	ncerning Endangered Species Act	☐Yes	☑ No			
5c.	If yes, ind icate the USFWS Field Office	you have contacted.	☐ Raleigh				
5d.	What data sources did you use to deter Habitat?	mine whether your site would impact E	ndangered Species or De	signated Critical			
	Only one Endangered and Threatened species is listed for Wilkes County, the Bog turtle for which the biological conclusion is "No Effect".						
6.	. Essential Fish Habitat (Corps Requirement)						
6a. Will this project occur in or near an area designated as essential fish habitat? ☐ Yes ☐ Yes							
6b	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 Reso	ources (Corps Requirement)					
7a	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 ✓ Yes						
7b	. What data sources did you use to dete	rmine whether your site would impact h	istoric or archeological re	sources?			
	NEPA Documentation and Coordinatio	n with FHWA, SHPO and EBCI. (MOA	Attached)				
8.	Flood Zone Designation (Corps Requi	irement)					
88	. Will this project occur in a FEMA-desig	nated 100-year floodplain?	⊠ Yes □] No			
8t	. If yes, explain how project meets FEM/	A requirements: NCDOT Hydraulics Uni	t coordination with FEMA				
80	. What source(s) did you use to make th	e floodplain determination? FEMA Map	s				
	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.)						

MEMORANDUM OF AGREEMENT BETWEEN THE

FEDERAL HIGHWAY ADMINISTRATION, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, STATE HISTORIC PRESERVATION OFFICER,

AND EASTERN BAND OF THE CHEROKEE INDIANS FOR

THE REPLACEMENT OF BRIDGE NO. 718 ON SR 1580 (Keunzel-Eller Drive) OVER MIDDLE FORK REDDIES RIVER,
B-4325, FEDERAL AID PROJECT BRZ-1580(2), STATE PROJECT 8.2731601,
WILKES COUNTY, NORTH CAROLINA

Whereas, the Federal Highway Administration (FHWA), through the North Carolina Department of Transportation (NCDOT) will fund the replacement of Bridge No. 718 on SR 1580 (Keunzel-Eller Drive) over Middle Fork Reddies River (the Undertaking) and the parties have consulted with the North Carolina State Historic Preservation Officer (SHPO) and the Eastern Band of the Cherokee Indians (EBCI); and

Whereas, the Undertaking will affect archaeological site 31Wk257, a property determined eligible for listing in the National Register of Historic Places: and

Whereas, in accordance with 36 CFR Part 800, the NCDOT acknowledges and accepts the advice and conditions outlined in the Advisory Council on Historic Preservation's (Council) "Recommended Approach for Consultation on the Recovery of Significant Information from Archaeological Sites," published in the Federal Register (FR Doc. 99-12055) on May 17, 1999; and

Whereas, the consulting parties agree that the recovery of significant information from the archaeological site listed above may be done in accordance with the published guidance; and

Whereas, the consulting parties agree that it is in the public interest to expend funds for the recovery of significant information from this archaeological site to mitigate the adverse effects of the project; and

Whereas, the FHWA has notified the Eastern Band of the Cherokee Indians (EBCI) and they have been invited to participate as a consulting party in the development of this Memorandum of Agreement (MOA); and

Now, therefore, the FHWA and the North Carolina SHPO agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effects of the undertaking on the historic property.

STIPULATIONS

- I. The NCDOT will develop a Data Recovery Plan (DRP) for Site 31Wk257, which will be affected by the subject project, in consultation with the SHPO and the EBCI.
- II. The NCDOT will ensure that the DRP, will be implemented after Right-of-Way is acquired or once Right-of-Entry is secured from the property owners and prior to construction activities within the site location as shown in the DRP.
- III. Upon completion of the Data Recovery efforts, the NCDOT will prepare and forward a Management Summary to the SHPO and the EBCl detailing the results of the Data Recovery field investigations. The Management Summary will contain sufficient information to demonstrate that the field investigation portion of the DRP has been implemented.

- IV. Upon receipt of the Management Summary, the SHPO and the EBCI will respond within ten (10) days to the recommendations contained within the document.
- V. Upon acceptance of the recommendations contained in the Management Summary, the SHPO will issue the NCDOT documentation that the Data Recovery field investigations have been completed.
- VI. The analysis and report preparation, detailing Site 31Wk257, will be completed by the NCDOT, or their consultants, within twelve (12) months after completion of the fieldwork.

VII. Dispute Resolution

Should any of the Signatory or Concurring Party(ies) object within (30) days to any plans or documentation provided for review pursuant to this Agreement, the FHWA shall consult with the objecting party(ies) to resolve the objection. If the FHWA or the objecting party(ies) determines that the objection cannot be resolved, the FHWA will forward all documentation relevant to the dispute to the Council. Within thirty (30) days after receipt of all pertinent documentation, the Council will either:

- 1. Provide the FHWA with recommendations, which the FHWA will take into account in reaching a final decision regarding the dispute, or
- Notify the FHWA that it will comment pursuant to 36 CFR Section 800.7(c) and proceed to comment. Any Council comment provided in response to such a request will be taken into account by the FHWA in accordance with 36 CFR Section 800.7 (c) (4) with reference to the subject of the dispute.

Any recommendation or comment provided by the Council will be understood to pertain only to the subject of the dispute; FHWA and NCDOT's responsibility to carry out all of the actions under this agreement that are not the subject of the dispute will remain unchanged.

VIII. Amendments

If any Signatory to this MOA believes that its terms cannot be carried out or that an amendment to the terms must be made, that party(ies) shall immediately consult with the other party(ies) to develop amendments in accordance with 36 CFR 800.6(c)(7). If an amendment cannot be agree upon, the dispute resolution process set forth in Stipulation VII will be followed.

IX. Termination

Any of the Signatory Party(ies) may terminate the agreement by providing notice to the other parties, provided that the signatories and concurring parties will consult during the period prior to termination to seek agreement on amendments or other actions that would avoid termination. Termination of this MOA will require compliance with 36 CFR 800. This MOA may be terminated by the execution of a subsequent MOA that explicitly terminates or supersedes its terms.

X. Duration

Unless terminated pursuant to Stipulation IX above, this MOA will be in effect until FHWA, in consultation with the other Signatory and Concurring Party(ies), determines that all of its terms have satisfactorily been fulfilled or if NCDOT is unable or decides not to construct the Undertaking.

Execution of this Memorandum of Agreement by FHWA and the North Carolina SHPO, and implementation of its terms, evidence that FHWA has afforded the Council an opportunity to comment on the Undertaking, and that FHWA has taken into account the effects of the Undertaking on the historic properties.

SIGNATORIES:

By: Maker U Cather in John F. Sullivan, III, P.D. Federal Highway Administration, North Caro	Date: 1-23-12
By: Jeffrey J. Crow North Carolina State Historic Preservation C	1
CONCURRING PARTIES:	
By:Eastern Band of the Cherokee Indians Honorable Principle Chief Michell Hicks	Date:
By: Mah Ash P.E. Robert Andrew Joyner , P.E. Manager, Human Environment Section	Date: 1/6/12

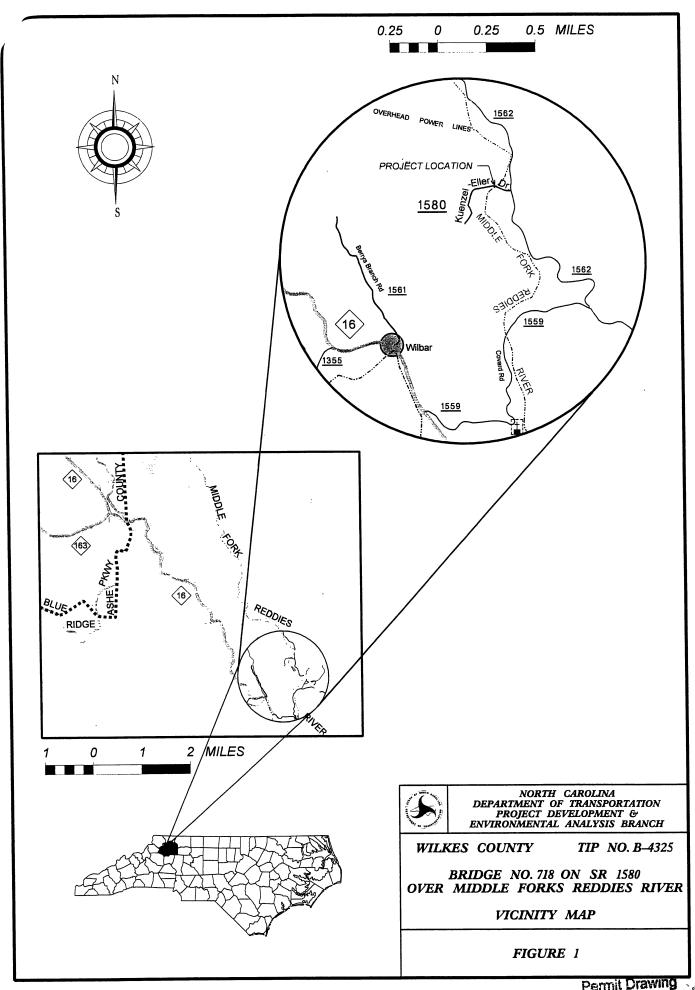
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North Carolina Department of Transportation Highway Stormwater Program

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Version 1.1

Rolensed: July 2010 (DRAFT)		STORMWATER MANAGEMENT PLAN	GEMEN! PLAN	Dana
		General Project Information	Normation	
Project No.:	33662.1.1		Date:	3/21/2011
City/Town:	North Wilksboro		Designer:	Weadon
County(les):	Wilkes County		Project Manager:	Clawson
River Basin(s):	Yadkin-Pee Dee		CAMA County?	TVA County?
Primary Receiving Water:	Middle Fork	Reddies River	NCDWQ Stream Index:	
NCDWQ Surface Water Classification for Primary Receiving Water	imary Receiving Water		Water Supply It (WS-II)	
		Supplemental:	Trout Waters (Tr)	
Other Stream Classification:				
303(d) Stream?		Type(s) of Impairment:		
State Stormwater Permit Required?	yes	If yes, why?	Project Requires an Erosion and Sedim	Project Requires an Erosion and Sediment Control Plan and drains to a HQW stream
Could the Project Impact Threatened or Endangered Species?	angered Species?			
Description:				
Anadromous Fish Present?				
Description:				
Buffer Rules in Effect?	CC		Buffer Rules:	
		EXACTOR		
Description of Existing Project Area:	Project is in rural mountainous area	ainous area		
Average Daily Traffic (existing):	143			
Existing Cross Section:	16' wide with variable sh	oulder widths and a BST wearing surface	aring surface	
Surrounding Land Use:	Rural pasture land			
General Comments:				
		Project Description	iption	
Description of Proposed Project:	Replacement of Bridge #	1718 over the Middle Fork Reddies River	eddies River	
Average Daily Traffic (proposed):	230			
Proposed Cross-Section:	2-9' lanes with 2' wide sh	noulders proposed bridge wid	oulders proposed bridge width is 21' with a 2% super all to the right	
nterchange Modification:			Median Type:	
Terminus:				
Terminus:				
Project Length (lin. miles/feet):	0.127 mi / 669'		Added Impervious Area (ac.):	0.04
General Comments:				
	This bridge is located on bridge rail. The existing		a dead end road thus the only traffic generated is from the property o it' single span bridge is being replaced with a 65' single span bridge.	a dead end road thus the only traffic generated is from the property owners. For this reason we are using the taxas 1-101 1' single span bridge is being replaced with a 65' single span bridge.



Permit Drawing
Sheet _____ of ____

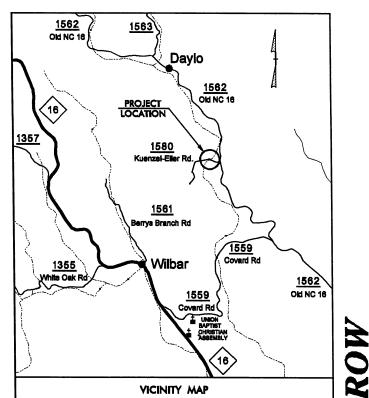
	Pro	perty Owners
Parcel Number	Names	Addresses
Number	ivarries	Addresses
1	William Trivette & Susan	721 Kuenzel Eller Dr. Millers Creek NC 28651
		NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS
		WILKES COUNTY
		WBS - 33662.1.1 (B-4325)

SHEET

7/19/2011

		_		7.77	AVET LAND INDACTS	WEI EAND I EINE				SURFACE WATER IMPACTS	MPACTS	
				WE	LAND IMPA	0	Hand			Existing	Existing	
-					1	P. A. Choriston	Cloaring	Permanent	Temb.	Channel	Channel	Natural
-			Permanent	Temp.	Excavation	Excavation injectialized		SW	SW	Impacts	Impacts	Stream
Site	Station	Structure	= :	LIII III	- Aprilande	in Wetlands	Wetlands	impacts	impacts	Permanent	Temp.	Design
Š	(From/To)	Size / Type	Wetlands	Wellands	(ac)	(ac)	(ac)	(ac)	(ac)	(£)	(#)	E
			(ac)	(ac)	(22)			<.01Ac		13		
Ľ	-L- STA 12+23 TO 12+39	Rip Rap Embankment						<.01Ac		15		
Ļ	-L- STA 13+40 TO 13+53	Rip Rap Embankment										
-												
-												
-												
-												
+												
+												
-												
+												
+												
+												
+												
+												
+												
-												
H												
\dashv												
+							8	7010	0	28 00	0	0
TOTALS			0.00	0.00	0.00	00:0	0.00	S.U.A.C	3	20.03		
Z	NOTE: 28' of channel impacts due to to rip rap embankment stabilization @ ditch outfalls	28' of channel impacts due to to rip rap embankment stabilization @ ditch outfalls	stabilization @ that indicate pe	ditch outfalls	npacts were c	omitted.			NCI)EPARTMENT	NC DEPARTMENT OF TRANSPORTATION	RTATION
	Due to the scale of the p The hatching would be t	Due to the scale of the plants, the hatching and record The hatching would be too small to accurately identify.								DIVISION	DIVISION OF HIGHWALE	2
										Wilkes CO WBS - 33662.1.1	Wilkes COUNTY 33662.1.1 (B-4325)	(25)

See Sheet 1-A For Index of Sheets See Sheet 1-B For Symbology



WETLAND

PERMIT

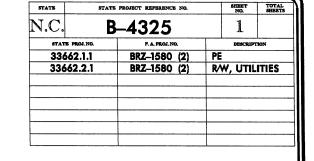
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

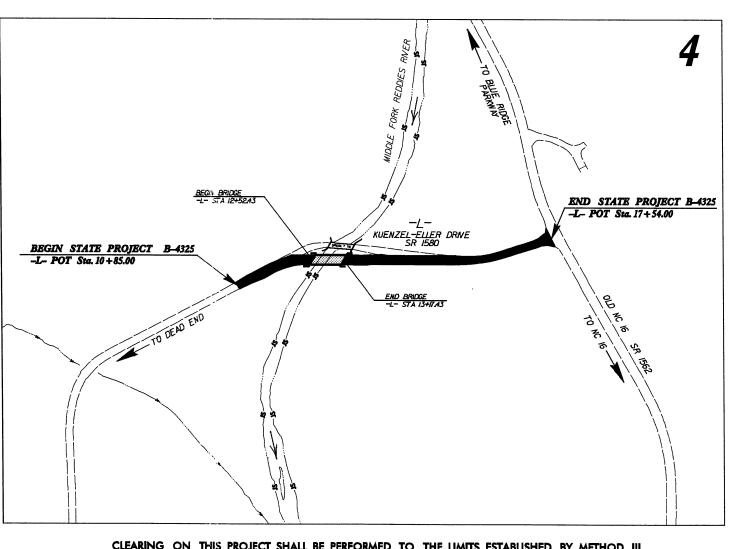
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

WILKES COUNTY

LOCATION: BRIDGE NO. 718 OVER MIDDLE FORK REDDIES RIVER ON SR 1580 (KUENZEL-ELLER DRIVE)

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





PRELIMINARY PLANS

ENGINEERING COORDINATION SECTION ROADWAY DESIGN UNIT

NCDOT CONTACT: K. ZAK HAMIDI, PE

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

APRIL 15, 2011

LETTING DATE:

APPH 17 2012

GRAPHIC SCALES 50 25 0 50 25 0 PROFILE (HORIZONTAL)

DESIGN DATA ADT 2012 = 143

ADT 2032 = 230DHV = 10 %

V = 25 MPHFUNCT CLASS=RURAL LOCAL * (TTST 1% + DUAL 3%)

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4325 0.115 mile LENGTH STRUCTURES TIP PROJECT B-4325 0.012 mile TOTAL LENGTH TIP PROJECT B-4325 0.127 mile

Prepared For: **DIVISION OF HIGHWAYS** 1000 Birch Ridge Dr., Raleigh NC, 27610

M A Engineering 598 East Chatham Street - Suite 137
Cary, NC 27511
Consultants, Inc. Phone: 919.27.0220 Fax: 919.297.0221

2012 STANDARD SPECIFICATIONS RIGHT OF WAY DATE

BURKE EVANS, PE

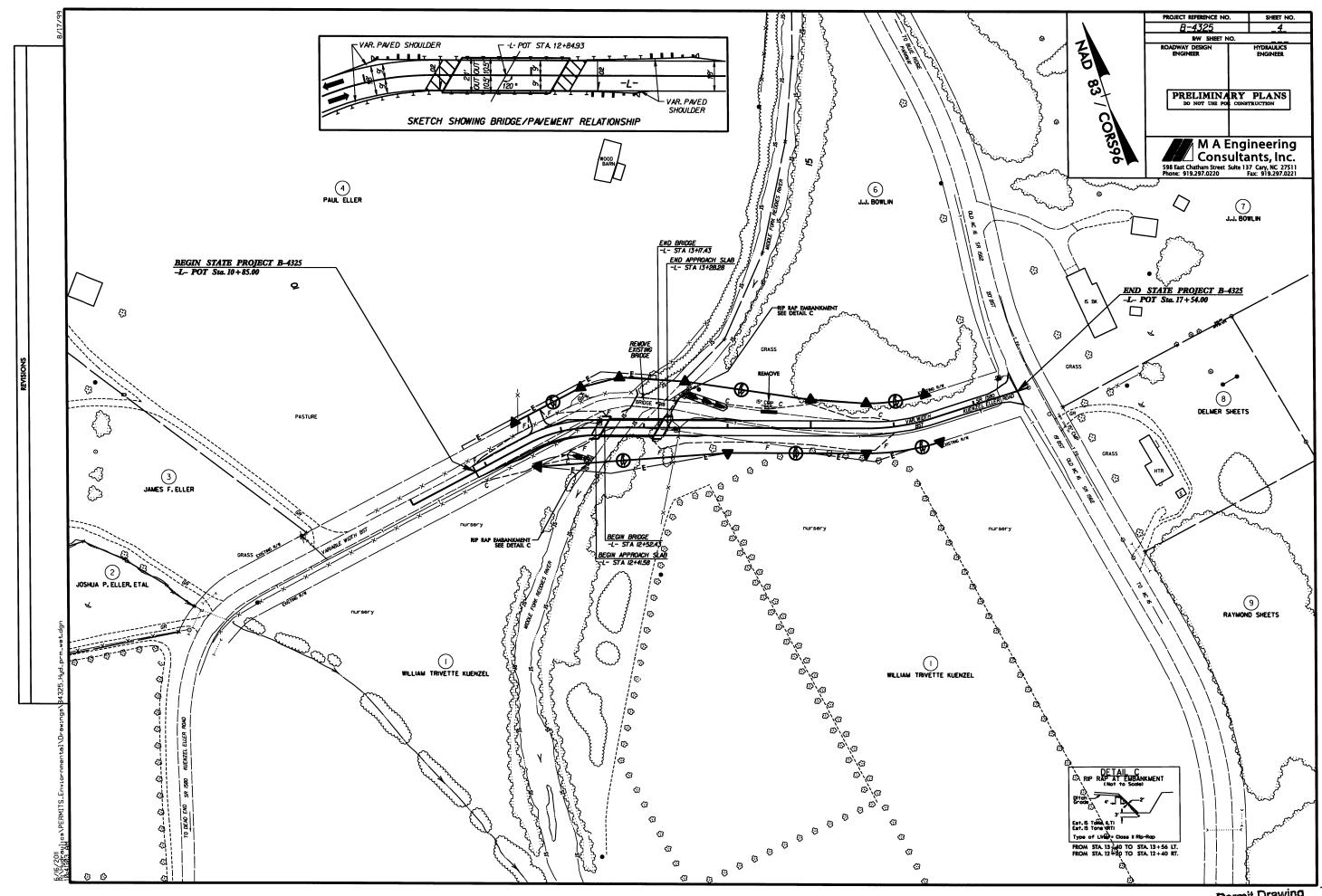
KEVIN S. HUTCHENS

ROADWAY DESIGN

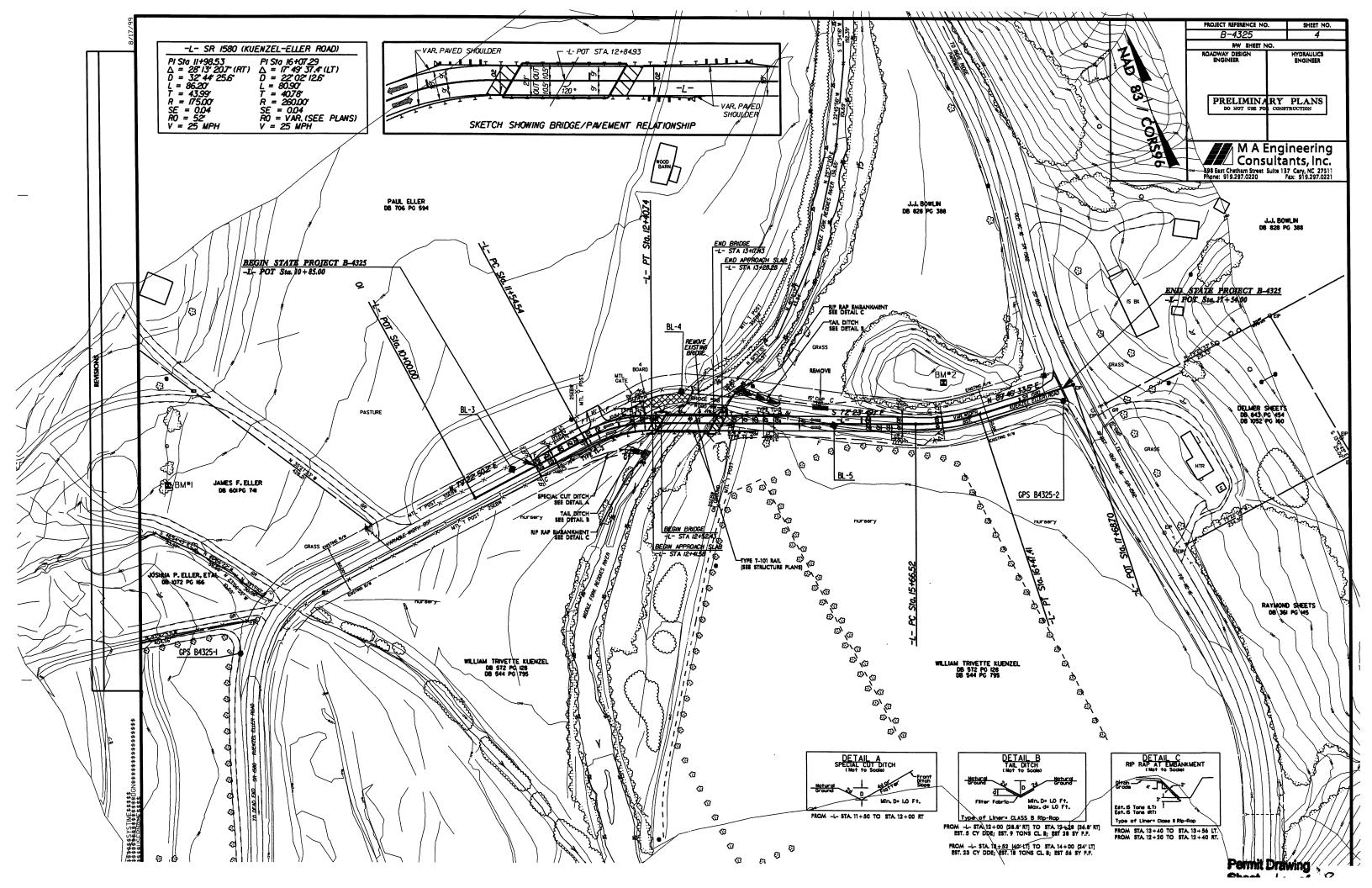
HYDRAULICS ENGINEER

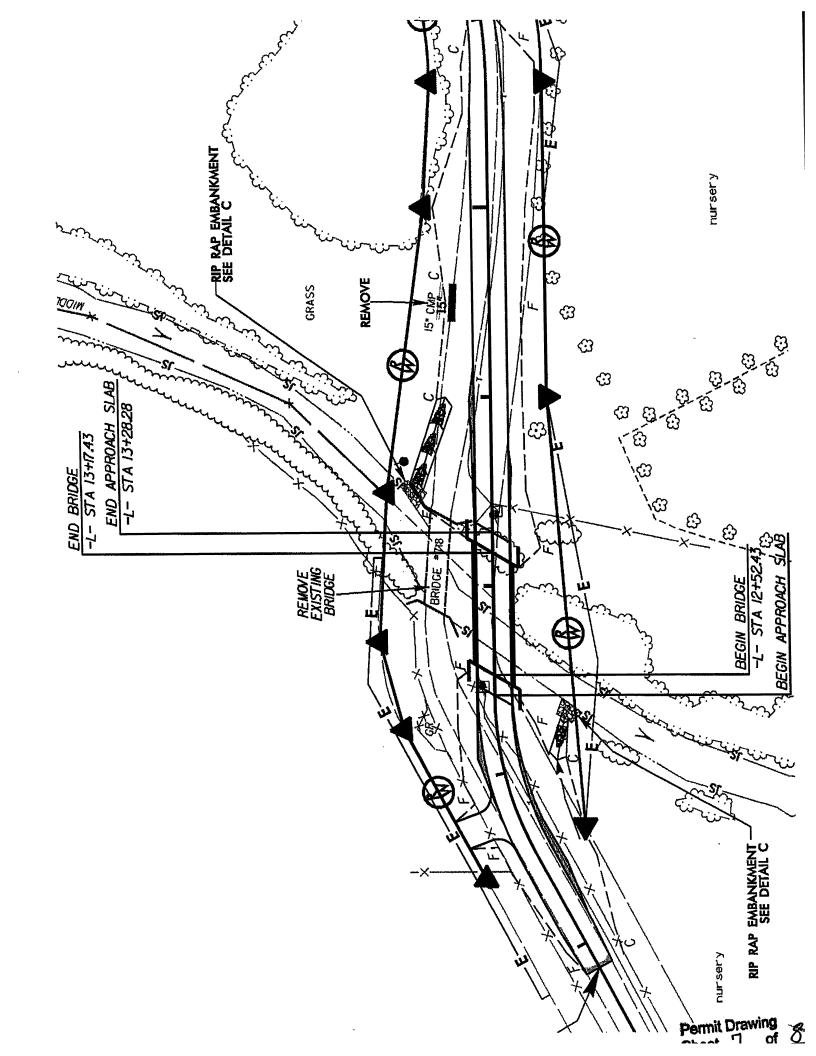
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

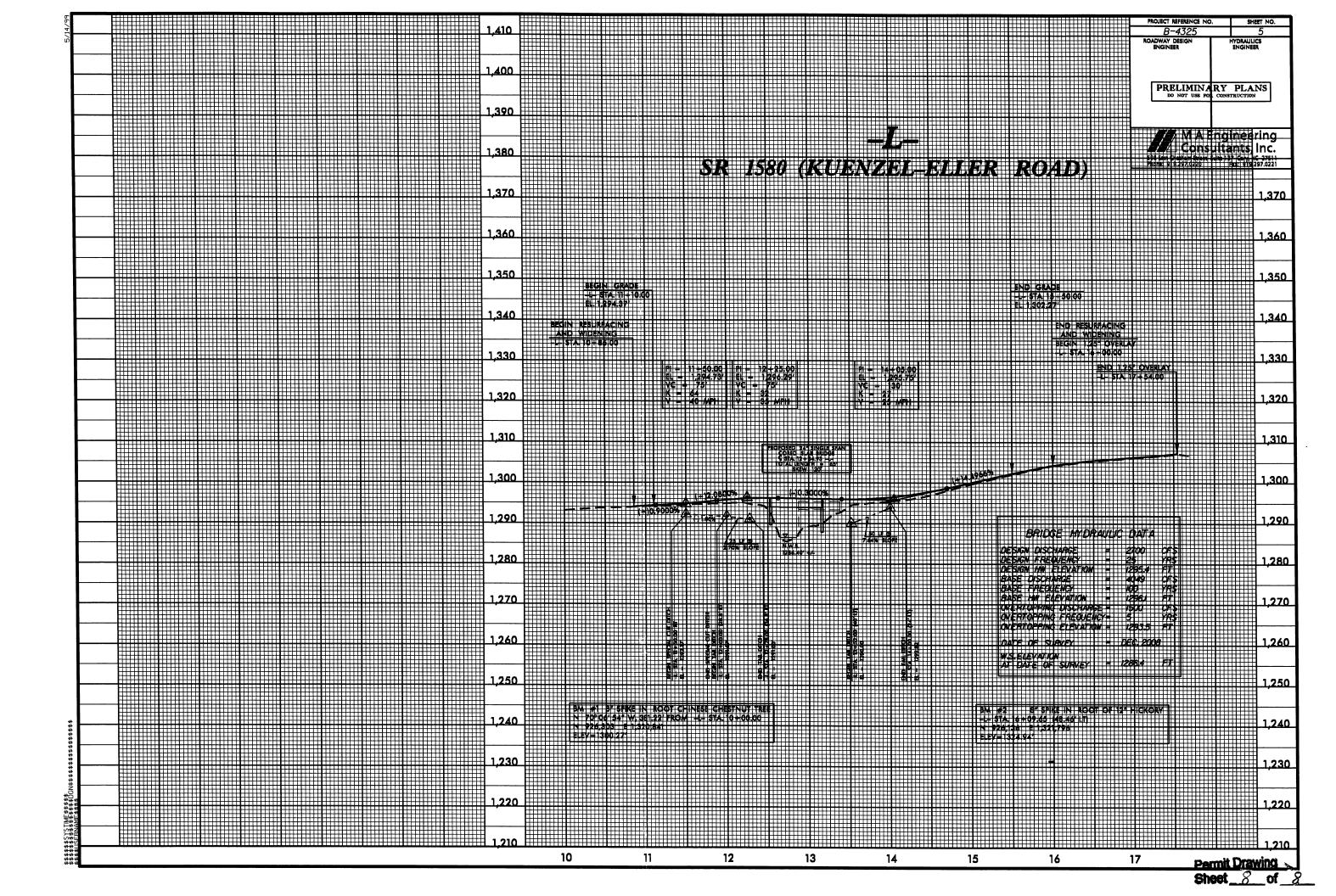
Permit Drawing



Permit Drawing Sheet 5 of S







See Sheet 1-A For Index of Sheets See Sheet 1-B For Symbology STATE OF NORTH CAROLINA N.C. B-4325 1 DIVISION OF HIGHWAYS STATE PROLING. F. A. PROJ. NO. DESCRIPTION 1562 Old NC 16 33662.1.1 BRZ-1580 (2) 33662.2.1 BRZ-1580 (2) R/W, UTILITIES Daylo WILKES COUNTY Old NC 18 PROJECT LOCATION LOCATION: BRIDGE NO. 718 OVER MIDDLE FORK REDDIES RIVER 1580 ON SR 1580 (KUENZEL-ELLER DRIVE) M TYPE OF WORK: GRADING, DRAINAGE, STRUCTURE, AND PAVING <u>1561</u> **PROIEC** errys Branch Rd <u>1559</u> Wilbar 1355 hite Oak Rd 1562 Covard Rd 2 Z VICINITY MAP BEGIN BRIDGE -L- STA 12+52.43 END STATE PROJECT B-4325
-L- POT Sta. 17 + 54.00 KUENZEL-ELLER DRIVE BEGIN STATE PROJECT B-4325 -L- POT Sta. 10+85.00 END BRIDGE -L- STA 13+17.43 PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION NCDOT CONTACT: K. ZAK HAMIDI, PE ENGINEERING COORDINATION SECTION ENGINEER ROADWAY DESIGN UNIT THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. HYDRAULICS ENGINEER DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA Prepared For: GRAPHIC SCALES DESIGN DATA PROJECT LENGTH DIVISION OF HIGHWAYS ADT 2012 = 1431000 Birch Ridge Dr., Raleigh NC, 27610 ADT 2032 = 230 M A Engineering Cary, NC 27511
Consultants, Inc. Phone: 919.297.0220 Fax: 919.297.0221 DHV = 10 %LENGTH ROADWAY TIP PROJECT B-4325 0.115 mile D = 65 %LENGTH STRUCTURES TIP PROJECT B-4325 0.012 mile 50 25 0 2012 STANDARD SPECIFICATIONS T = 4 % *TOTAL LENGTH TIP PROJECT B-4325 0.127 mile ROADWAY DESIGN ENGINEER BURKE EVANS, PE RIGHT OF WAY DATE V = 25 MPHPROFILE (HORIZONTAL) FUNCT CLASS = RURAL LOCAL APRIL 15, 2011 * (TTST 1% + DUAL 3%) KEVIN S. HUTCHENS
PROJECT DESIGN ENGINEER LETTING DATE: SUB-REGIONAL TEIR DESIGN APRIL 17, 2012 PROFILE (VERTICAL) STATE HIGHWAY DESIGN ENGIN

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

REPERENCE NO. SHEET NO.

CONVENTIONAL PLAN SHEET SYMBOLS

						WAIER:	
BOUNDARIES AND PROPERTY.	?	RAILROADS:				Water Manhole	
State Line ——————		Standard Gauge	CSX TRANSPORTATION			Water Meter	0
County Line		RR Signal Milepost ————————————————————————————————————	⊙ MILEPOST 35			Water Valve ————————————————————————————————————	
ownship Line		Switch	SWITCH	EXISTING STRUCTURES:		Water Hydrant ————————————————————————————————————	
City Line		RR Abandoned		MAJOR:		Recorded U/G Water Line	
Reservation Line		RR Dismantled		Bridge, Tunnel or Box Culvert [CONC	Designated U/G Water Line (S.U.E.*)	
Property Line		RIGHT OF WAY:		Bridge Wing Wall, Head Wall and End Wall -) conc ww (Above Ground Water Line	
ixisting Iron Pin		Baseline Control Point	•	MINOR:	,		
roperty Corner		Existing Right of Way Marker	\wedge	Head and End Wall	CONC HW	TV:	
roperty Monument		Existing Right of Way Line		Pipe Culvert		TV Satellite Dish	. K
arcel/Sequence Number		Proposed Right of Way Line		Footbridge>		TV Pedestal	-
xisting Fence Line		Proposed Right of Way Line with		Drainage Box: Catch Basin, DI or JB		TV Tower	
		Iron Pin and Cap Marker	→	Paved Ditch Gutter		UG TV Cable Hand Hole	_
Proposed Woven Wire Fence		Proposed Right of Way Line with Concrete or Granite Marker		Storm Sewer Manhole		Recorded U/G TV Cable	
Proposed Chain Link Fence			9 @	Storm Sewer ———————————————————————————————————	_		
Proposed Barbed Wire Fence		Existing Control of Access	107	4.01111 961101		Designated U/G TV Cable (S.U.E.*)	
Existing Wetland Boundary		Proposed Control of Access		UTILITIES:		Recorded U/G Fiber Optic Cable	
Proposed Wetland Boundary		Existing Easement Line ————————————————————————————————————	——E——			Designated U/G Fiber Optic Cable (S.U.E.*)—	TV F0
ixisting Endangered Animal Boundary	EAB	Proposed Temporary Construction Easement –	E	POWER:	1		
ixisting Endangered Plant Boundary ———		Proposed Temporary Drainage Easement ——	TDE	Existing Power Pole ————————————————————————————————————	•	GAS:	
BUILDINGS AND OTHER CUL	TURE:	Proposed Permanent Drainage Easement	PDE	Proposed Power Pole ————————————————————————————————————	Ò	Gas Valve	•
Gas Pump Vent or U/G Tank Cap	_ 0	Proposed Permanent Drainage / Utility Easemen	†	Existing Joint Use Pole	-	Gas Meter	V
iign		Proposed Permanent Utility Easement —		Proposed Joint Use Pole	-0 -	Recorded U/G Gas Line	
Vell	3	Proposed Temporary Utility Easement	TUE	Power Manhole ————————————————————————————————————	ø	Designated U/G Gas Line (S.U.E.*)	
Small Mine		Proposed Permanent Easement with		Power Line Tower	\boxtimes	Above Ground Gas Line	A/G Gas
Foundation ————————————————————————————————————		Iron Pin and Cap Marker		Power Transformer			
Area Outline		ROADS AND RELATED FEATURE		U/G Power Cable Hand Hole	H _H	SANITARY SEWER:	
Cemetery ————————————————————————————————————		Existing Edge of Pavement		H-Frame Pole	••	Sanitary Sewer Manhole	- 📵
Building —		Existing Curb		Recorded U/G Power Line		Sanitary Sewer Cleanout ————————————————————————————————————	- ⊕
School		Proposed Slope Stakes Cut		Designated U/G Power Line (S.U.E.*) ———		U/G Sanitary Sewer Line —	
	+	Proposed Slope Stakes Fill	<u>F</u>			Above Ground Sanitary Sewer	- A/G Sanitary Sew
Church ————————————————————————————————————	_ 4	Proposed Wheel Chair Ramp —————	WCR	TELEPHONE:		Recorded SS Forced Main Line	
Oam		Existing Metal Guardrail		Existing Telephone Pole		Designated SS Forced Main Line (S.U.E.*) —	FSS
HYDROLOGY:		Proposed Guardrail ——————	_TTT	Proposed Telephone Pole	-0-	, and the first	
Stream or Body of Water		Existing Cable Guiderail		Telephone Manhole	Û	MISCELLANEOUS:	
Hydro, Pool or Reservoir ————————————————————————————————————		Proposed Cable Guiderail		Telephone Booth	[<u>]</u>	Utility Pole ————————————————————————————————————	•
lurisdictional Stream		Equality Symbol	•	Telephone Pedestal ————————————————————————————————————	T)	Utility Pole with Base	•
Buffer Zone 1		Pavement Removal	\otimes	Telephone Cell Tower	I	Utility Located Object	
Buffer Zone 2	 ·	VEGETATION:	EVVVV	U/G Telephone Cable Hand Hole ————	~= >	Utility Traffic Signal Box	_
Flow Arrow		Single Tree	ß	Recorded U/G Telephone Cable		Utility Unknown U/G Line	_
Disappearing Stream	_>	Single Shrub	ω ຄ	•		•	
Spring ————————————————————————————————————		Hedge	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Designated U/G Telephone Cable (S.U.E.*)—		U/G Tank; Water, Gas, Oil	
Wetland		Woods Line		Recorded U/G Telephone Conduit		A/G Tank; Water, Gas, Oil —	
Proposed Lateral, Tail, Head Ditch ————		Orchard		Designated U/G Telephone Conduit (S.U.E.*)		U/G Test Hole (S.U.E.*)	_
False Sump	← — <i>ra</i>			Recorded U/G Fiber Optics Cable ————		Abandoned According to Utility Records ——	
i diad dullip	$ \Diamond$	Vineyard ————————————————————————————————————	Vineyard	Designated U/G Fiber Optics Cable (S.U.E.*)	T F0	End of Information ——————————	- E.O. I.

