

#### STATE OF NORTH CAROLINA

## DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE

EUGENE A. CONTI, JR. SECRETARY

October 15, 2012

U. S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, NC 28801-5006

ATTN:

Ms. Loretta Beckwith

NCDOT Coordinator

Subject:

Application for Section 404 Nationwide Permits 23 & 33 and Section 401 Water Quality Certification for the proposed replacement of Bridge No. 11 over Chatuge Lake on NC 175 in Clay County, Federal Aid Project No. BRSTP-175(7); WBS No. 38506.1.1; Division 14; TIP No. B-4733

#### Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 11 (a single-lane bridge) over Lake Chatuge on NC 175 with a 2-lane, 360-foot long, 3-span bridge. There will be <0.01 acre of permanent impact to Chatuge Lake due to the installation of interior bridge bents. There will be 0.15 acre of temporary impact to Chatuge Lake due to the installation of two (2) temporary work pads for the construction of the new bridge and six (6) temporary cofferdams for the removal of the existing bridge bents.

Please see enclosed copies of the Pre-Construction Notification (PCN), stormwater management plan, USFWS Concurrence Letter, permit drawings, and design plans. A Categorical Exclusion (CE) was completed in September 2011 and distributed shortly thereafter. Additional copies are available upon request.

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.

NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6100 FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:

1020 BIRCH RIDGE DRIVE RALEIGH NC 27610-4328 This project calls for a letting date of June 18, 2013 and a review date of April 30, 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: <a href="http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html">http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html</a>. If you have any questions or need additional information, please call Bill Barrett at (919) 707-6103.

Sincerely,

E.L. Lusk Gregory J. Thorpe, Ph.D., Manager

Project Development and Environmental Analysis Unit

cc:

NCDOT Permit Application Standard Distribution List





Office Use Only:	
Corps action ID no.	
DWQ project no.	<del></del>
Form Version 1.3 Dec 10 2008	

	Pre-Construction Notification (PCN) Form							
A.	Applicant Information							
1.	. Processing							
1a.	. Type(s) of approval sought from the Corps:							
1b.	Specify Nationwide Permit (NWP	) number: 2	or General Permit (GP)	) number:				
1c.	Has the NWP or GP number bee	en verified b	by the Corps?	☐ Yes	⊠ No			
1d.	Type(s) of approval sought from	the DWQ (	check all that apply):					
	☐ 401 Water Quality Certification	n – Regula	r Non-404 Jurisdictions	al General Permi	t			
	☐ 401 Water Quality Certification		<u></u>	orization				
1e.	Is this notification solely for the rebecause written approval is not r		For the record only for DWQ 401 Certification:		only for Corps Permit:			
1f.	Is payment into a mitigation bank	or in-lieu f	Yes No	Yes	⊠ No			
	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.							
1g.	g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.							
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	☐ Yes	⊠ No			
2.	Project Information							
2a.	Name of project:	Replacen	nent of Bridge No. 11 over Chatuge L	ake on NC 175.				
2b.	County:	Clay						
2c.	Nearest municipality / town:	Hayesville	e, NC					
2d.	Subdivision name:	not applic	cable					
2e.	NCDOT only, T.I.P. or state project no:	B-4733						
3.	Owner Information							
3a.	Name(s) on Recorded Deed:	North Car	rolina Department of Transportation	(r.)				
	Deed Book and Page No.	not applicable						
3c.	Responsible Party (for LLC if applicable):	not applicable						
3d.	Street address:	1598 Mail Service Center						
3e.	City, state, zip:	Raleigh, NC 27699-1598						
3f.	Telephone no.:	(919) 707	'-6103	*				
3g.	Fax no.:	(919) 212	2-5785					
3h.	Email address:	wabarrett	@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 Info	rmation (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: 35.2 Longitude: - 83.73 (DD.DDDDDD) (-DD.DDDDDD)				
1c.	Property size:	4.38 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Chatuge Lake				
2b.	Water Quality Classification of nearest receiving water:	В				
2c.	River basin:	Hiwassee				
3.	Project Description					
3a.	Describe the existing conditions on the site and the general lar application:  The land use in the vicinity of the project is dominated by resid forested area.					
3b.	List the total estimated acreage of all existing wetlands on the	property:				
	0					
3c.	List the total estimated linear feet of all existing streams (interm 0	ittent and perennial) on the property:				
3d.	Explain the purpose of the proposed project:					
	To replace a structurally deficient (sufficiency rating of 6.0 out of 9) bridge.	of 100) and functionally obsolete (deck geometry rating of 2				
3e.	Describe the overall project in detail, including the type of equi					
	The project involves replacing a 331-foot bridge with a 360-foo suitable off-site detour is not available, so traffic will be maintai building equipment, such as trucks, dozers, and cranes will be	ined on-site during the construction period. Standard road				
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: Chatuge Lake is the only jurisdictional feature on the project.	☐ Yes     ☐ Unknown				
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ☐ Final				
4c.	c. If yes, who delineated the jurisdictional areas?  Name (if known):  Agency/Consultant Company: Other:					
4d.	If yes, list the dates of the Corps jurisdictional determinations of	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?	☐ Yes ☐ No ☐ Unknown				
5b.	If yes, explain in detail according to "help file" instructions.					

6. Future Project Plans		
6a. Is this a phased project?	☐ Yes	No
6b. If yes, explain.		

C. Proposed Imp	acts Inventory					
1. Impacts Summ	ary					
1a. Which sections	were completed be	elow for your project	(check all that a	ipply):		
☐ Wetlands		Streams - tributaries	☐ Bu	ffers		
	s 🔲 F	Pond Construction				
2. Wetland Impac						
				tion for each wetland	area impacte	
2a. Wetland impact	2b.	2c.	2d.	2e. Type of jurisd	iction	2f.
number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	(Corps - 404 DWQ non-404	, 10	Area of impact (acres)
Site 1 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 2 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 3 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 4 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 5 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 6 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
				2g. <b>Total wetla</b>	nd impacts	X Permanent X Temporary
2h. Comments:						
3. Stream Impact If there are perennia question for all strea	ıl or intermittent stı	ream impacts (includ	ing temporary ir	npacts) proposed on t	the site, then	complete this
За.	3b.	3c.	3d.	3e.	3f.	3g.
Stream impact number - Permanent (P) or Temporary (T)	Type of impact	Stream name	Perennial (PER) or intermittent (INT)?	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	Average stream width (feet)	Impact length (linear feet)
Site 1 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 2 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
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		
			3h. <b>T</b>	otal stream and trib	utary impact	X Perm X Temp
3i. Comments:						

4. Open	Water Ir	npacts								
		ed impacts to lakes, dually list all open v				ries, sound	s, the Atlantic	Ocean,	or any other op	en water of
4a.		4b.	4c.				4d.		4e.	
Open w		Name of		_	<b>6</b> 1		10 ( - 4 - 1-41		A £ !	( )
impact nu Permaner		waterbody (if applicable)		<u>ı yp</u>	e of impac		Waterbod	y type	Area of Imp	act (acres)
Tempora	ıry (T)									
01 ⊠ F	• □ т	Chatuge Lake		3 br	idge bents	i	lake	! 	< 0	.01
O2 🗆 F	` ⊠ T	Chatuge Lake	2 worl	k pads	s and 6 cof	ferdams	lake	!	0.	15
O3 □ F	) T									
04 🔲 F	) T									
						4f. Total o	pen water i	mpacts		Permanent emporary
4g. Comm	ents:	`						•		
		Construction struction proposed,	then com	nlete	the chart h	nelow				
5a.	5b.	struction proposed,	5c.	ipiete	uie Chart	GIOW.	5d.			5e.
Pond ID		pposed use or		etland	Impacts (a	cres)		m Impac	ts (feet)	Upland (acres)
number	pur	pose of pond	Flood	led	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	nit ID no	:	
5i. Exped	ted pond	l surface area (acre	s):					,		
5j. Size o	of pond w	atershed (acres):								
5k. Method of construction:										

6. Buffer Impacts	(for DWQ)								
If project will impac impacts below	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 <b>MUST</b> fill out Section D of this form.								
6a.			□ Neuse	☐ Tar-Pamlico	Other:				
Project is in which	protected basin?		Catawba	Randleman					
6b. Buffer impact number –	6c. Reason for impact	6d.	6e. Buffer	6f. Zone 1 impact	6g. Zone 2 impact				
Permanent (P) or Temporary (T)		Stream name	mitigation required?	(square feet)	(square feet)				
B1   P   T			Yes No						
B2			☐ Yes ☐ No						
B3			☐ Yes ☐ No						
		6h. <b>Tota</b>	l buffer impacts						
6i. Comments:	117			ı					

D.	Impact Justification and Mitigation					
1.	Avoidance and Minimization					
1a.	Specifically describe measures taken to avoid or minimize	e the proposed impacts	in designing project.			
	The proposed bridge will be a 3-span structure resulting in structure which is a 7-span structure with five bents within					
1b.	o. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.					
	Six temporary cofferdams will be utilized in the removal of the existing structure, and two temporary work pads will be utilized for the construction of the proposed structure. There will be no permanent impacts to Chatuge Lake other than from the three bents.					
	NCDOT will conduct bridge demolition (deck and superstrimpacts to bats actively using the structure and to avoid in bat houses at the project site on March 29, 2012, to provide	mpacts to migratory bird	s. Additionally, NCDOT constructed two			
2.	Compensatory Mitigation for Impacts to Waters of the	U.S. or Waters of the	State			
		☐ Yes	) ·			
2a.	la. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?  If no, explain: The permanent impacts are from bridge ben which don't require mitigation. All other impacts are temporary.					
2b.	. If yes, mitigation is required by (check all that apply):					
☐ Mitigation bank						
2c.	2c. If yes, which mitigation option will be used for this project?					
	projecti	☐ Permittee Respo	nsible Mitigation			
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	ool			
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	Plan				
5a.	If using a permittee responsible mitigation plan, provide a	description of the propo	osed mitigation plan.			

	hen identify the square feet of mitigation required.	of impact to each zone	of the riparian buffer tha	at requires mitigation. Calculate the
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	**************************************
Zone 2	Apr. 1	·	1.5	
		6f. Total buffer	mitigation required:	
	r mitigation is required, discu ee responsible riparian buffe			ayment to private mitigation bank, fee fund).

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)					
1. Diffuse Flow Plan	·				
Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	☐ Yes				
1b. If yes, then is a diffuse flow plan included? If not, explain why.  Comments: If required from 1a, see attached buffer permit drawings.	☐ 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. If this project DOES require a Stormwater Management Plan, then provide a brief, na See attached permit drawings.	rrative description of the plan:				
2e. Who will be responsible for the review of the Stormwater Management Plan?	☐ Certified Local Government☐ DWQ Stormwater Program☐ 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):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:				
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 counties ☐ HQW ☐ ORW ☐ Session Law 2006-246 ☐ Other:				
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.	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)	L	•					
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.	If you answered "yes" to the above, submit a qualitative or quantitative cumulative improst recent DWQ policy. If you answered "no," provide a short narrative description.	pact analysis in a	ccordance with the					
	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	project will neithe oudy will not be n	r influence nearby ecessary.					
4.	Sewage Disposal (DWQ Requirement)							
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 Desig	nated Critical Habitat (Corps Requiremen	t)				
5a. Will this project occur in or near a habitat?	n area with federally protected species or	⊠ Yes [	☐ No			
5b. Have you checked with the USFV impacts?	VS concerning Endangered Species Act	⊠ Yes [	□ No			
5c. If yes, indicate the USFWS Field	Office you have contacted.	☐ Raleigh ⊠ Asheville				
5d. What data sources did you use to Habitat?	determine whether your site would impact E	ndangered Species or De	esignated Critical			
NCDOT field surveys (see attach	ed concurrence letter).					
6. Essential Fish Habitat (Corps F	Requirement)					
6a. Will this project occur in or near a	n 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?				
7. Historic or Prehistoric Cultural	Resources (Corps Requirement)					
7a. Will this project occur in or near a governments have designated as status (e.g., National Historic Tru North Carolina history and archae	☐ Yes	⊠ No				
7b. What data sources did you use to NEPA Documentation	determine whether your site would impact h	istoric or archeological re	sources?			
8. Flood Zone Designation (Corps I	Requirement)					
8a. Will this project occur in a FEMA-	8a. Will this project occur in a FEMA-designated 100-year floodplain?					
8b. If yes, explain how project meets	FEMA requirements: NCDOT Hydraulics Unit	coordination with FEMA				
8c. What source(s) did you use to ma	ke 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.)						



### STATE OF NORTH CAROLINA

## DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

December 20, 2011

MEMORANDUM TO:

File

FROM:

Paul F. Fisher, P.E.

**Hydraulics** Unit

SUBJECT:

Stormwater Management Plan

B-4733, Clay Co.

This project will replace bridge #11 in Clay County. The following items were incorporated into the Hydraulic design of this project for stormwater quality considerations:

- We collected water in the storm drain system on the south approach before entering the bridge.
- We used sheet flow, rip rap pads and grass-lined ditches to the extent practicable.

**PFF** 



## United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

Asheville Field Office
160 Zillicoa Street
Asheville, North Carolina 28801
January 19, 2012

Dr. Gregory J. Thorpe, Manager Project Development and Environmental Analysis Branch North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Subject: Section 7 Concurrence Request for the Proposed Replacement of Bridge No. 11 on NC 175 over Chatuge Lake in Clay County, North Carolina. Federal Project No. BRSTP-175(7), WBS Element 38506.1.1, Division 14, T.I.P. No. B-4733

On November 16, 2011, we received your letter (via email) requesting section 7 concurrence on the subject project and its possible effect on the federally endangered Indiana bat (*Myotis sodalis*). The following comments are provided in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (Act).

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 11 in Clay County, North Carolina. Bridge No. 11 is the NC Route 175 crossing of the Shooting Creek arm of Chatuge Lake. The structure is a cast-in-place concrete structure with concrete guard rails and receives full sunlight. This type of structure is known to provide habitat for bats.

The U.S. Fish and Wildlife Service recognizes Clay County, North Carolina, as a county that possesses adequate habitat for the Indiana bat. This wide-ranging species is known from records in neighboring Cherokee County, North Carolina. Documentation provided by the NCDOT indicates that there are bats using this bridge as summer roost habitat. It is unknown if Indiana bats actively use this site. Because the site is situated within the accepted range for this species and the habitat appears to be adequate for the species, it is not possible to ensure that the proposed project has no effect on this species. Possible direct effects resulting from construction include mortality of bats during demolition and take that may occur as a result of relocation during the roosting season. Removal of a roost site may also result in indirect effects due to site

fidelity as a component of the Indiana bat's long-term recruitment success. The NCDOT proposes the following measures to minimize the possibility of take.

- Bridge deck and superstructure demolition will take place between October 15<sup>th</sup> and February 28<sup>th</sup> in order to avoid direct effects to bats actively using the structure.
- Two bat houses will be placed in a suitable location to ensure that any returning bats have an adequate roost site.

In addition to these proposed minimization measures, we request that NCDOT personnel responsible for the construction and placement of the bat houses coordinate their efforts with our staff. We also request that the bat houses be monitored for the following two maternity seasons after construction to determine if the location of the bat houses is adequate for use by bats.

We believe these commitments will reduce the potential for negative effects to the Indiana bat. With implementation of the above-listed measures, we concur with the NCDOT's determination that the subject bridge construction and demolition may affect, but is not likely to adversely affect, the Indiana bat. Therefore, we believe the requirements under section 7(c) of the Act are fulfilled. However, obligations under section 7 of the Act 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, (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 is determined that may be affected by the identified action.

If you have questions about these comments, please contact Mr. Jason Mays of our staff at 828/258-3939, Ext. 226. In any future correspondence concerning this project, please reference our Log Number 4-2-09-036.

Sincerely,

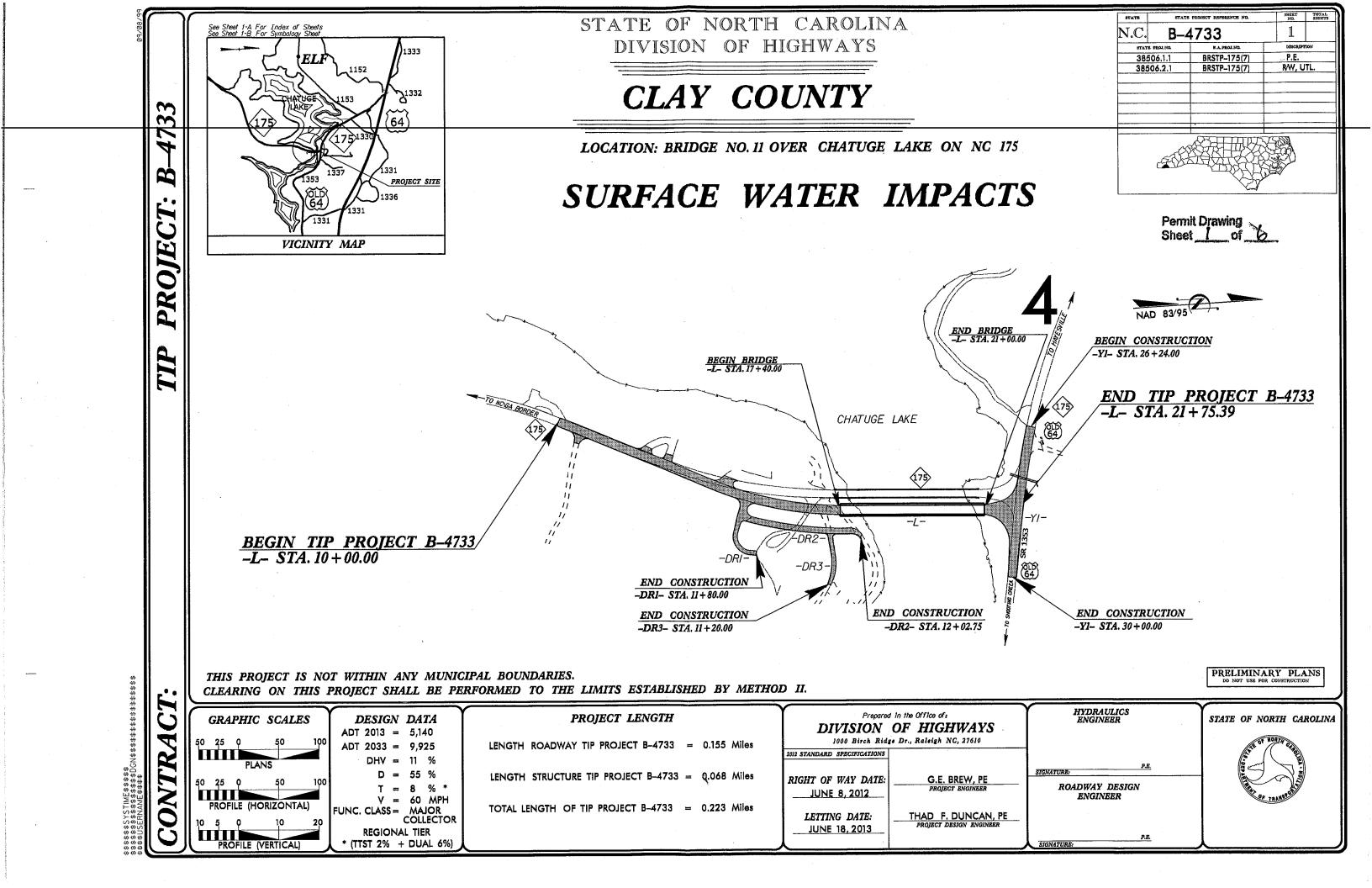
Brian P. Cole Field Supervisor

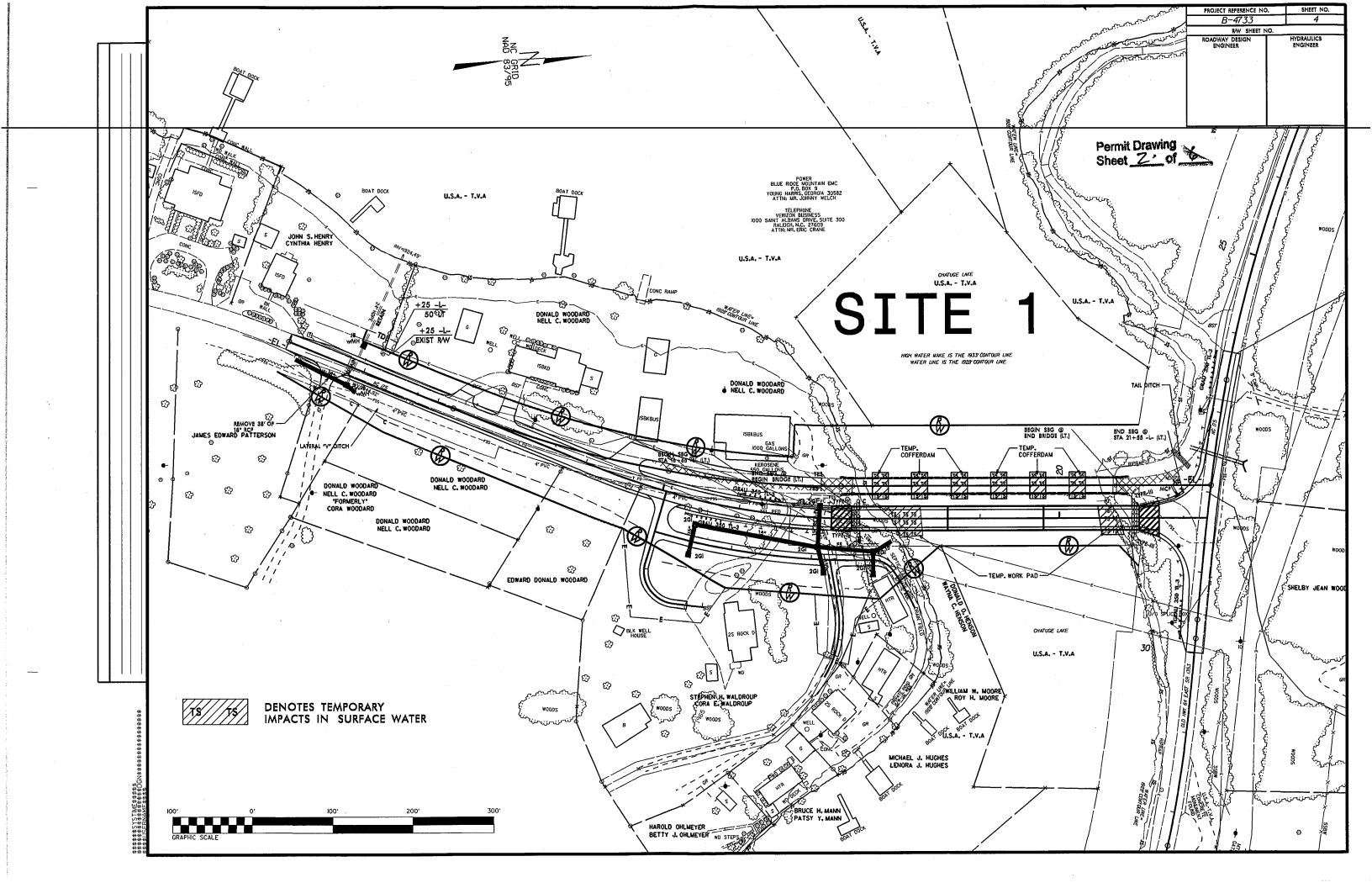
cc:

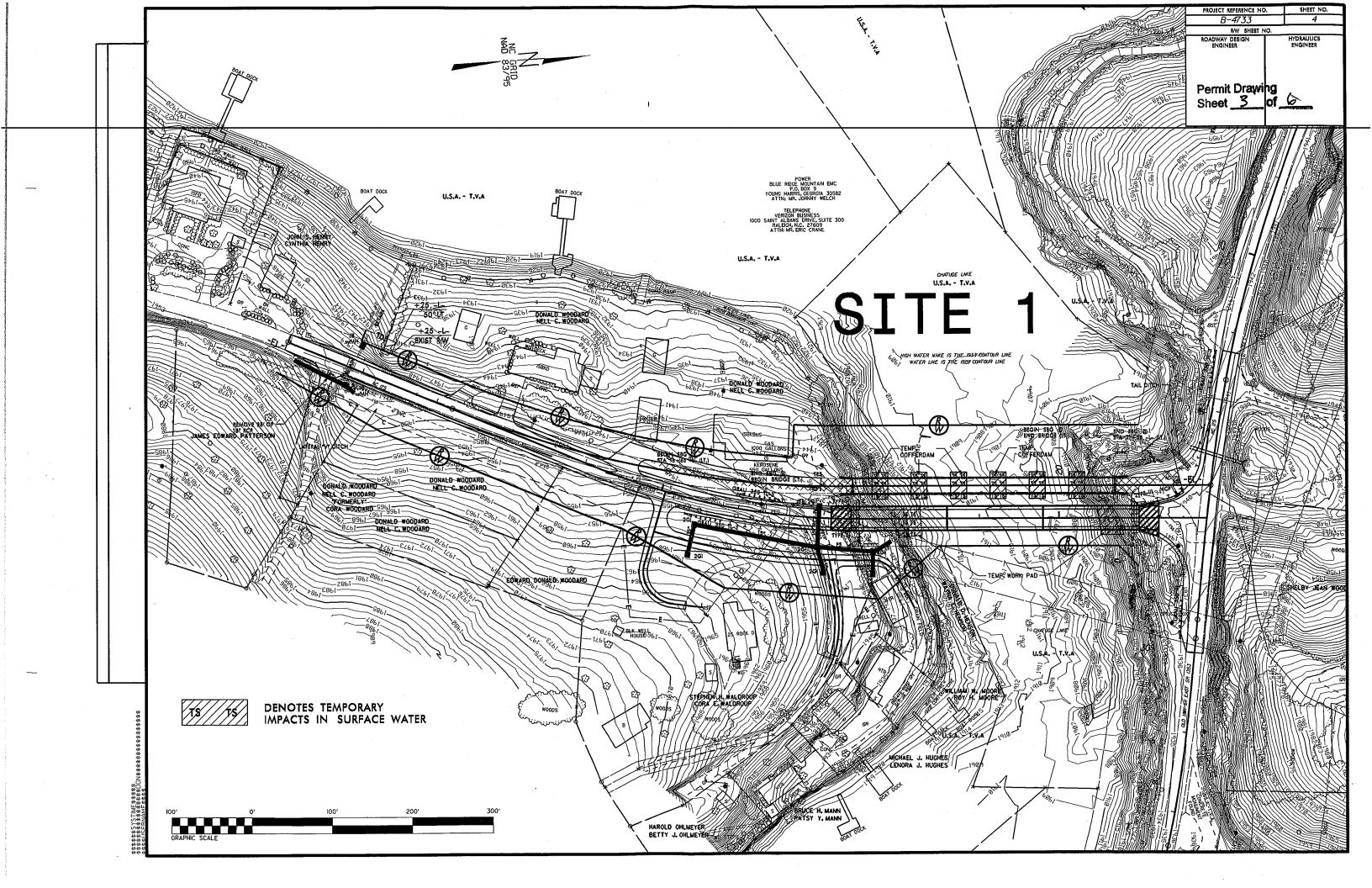
Ms. Lori Beckwith, Asheville Regulatory Field Office, U.S. Army Corps of Engineers, 151 Patton Avenue, Room 208, Asheville, NC 28801-5006

Ms. Marla J. Chambers, Western NCDOT Permit Coordinator, North Carolina Wildlife Resources Commission, 12275 Swift Road, Oakboro, NC 28129

Mr. Brian Wrenn, North Carolina Division of Water Quality, Central Office, 2321 Crabtree Blvd., Suite 250, Raleigh, NC 27604







Permit Drawing Sheet 4 of 6 SITE 1 VERTICAL CURVE DATA SPAN B SPAN C EL. 1927±-NWS = 1923± END BENT 1 END BENT 2 BENT 1 BENT 2 PROFILE

## **PROPERTY OWNERS**

<u>Site</u>	<u>Last Name</u>	<u>First Name</u>	<u>Address</u>	City/Town	State	Zip Code
1 1	STATE OF NORTH CAROLINA		2090 US Hwy 70	SWANNANOA	NC	28778
1	USATVA		4800 Hwy 64 West Suite 102	MURPHY	NC	28906

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY
WBS - 38506.1.1 (B-4733)

SHEET

7/17/2012



	•				WETLA	ND PERMIT	IMPACT S	UMMARY				
				WE	TLAND IMPA	ACTS			SURFACE	WATER IM		
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	in	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	SW impacts (ac)	Channel	Existing Channe Impacts Temp. (ft)	Natural Stream Design (ft)
1	17+15.83 to 21+24.17 -L-	work pad's and cofferdam's							0.15			
		-										
						<u></u> .						
		•		<u></u>								
TOTA	LS:								0.15	L		

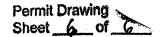
\*Note: < 0.01 Acre of permanent impact due to interior bents.

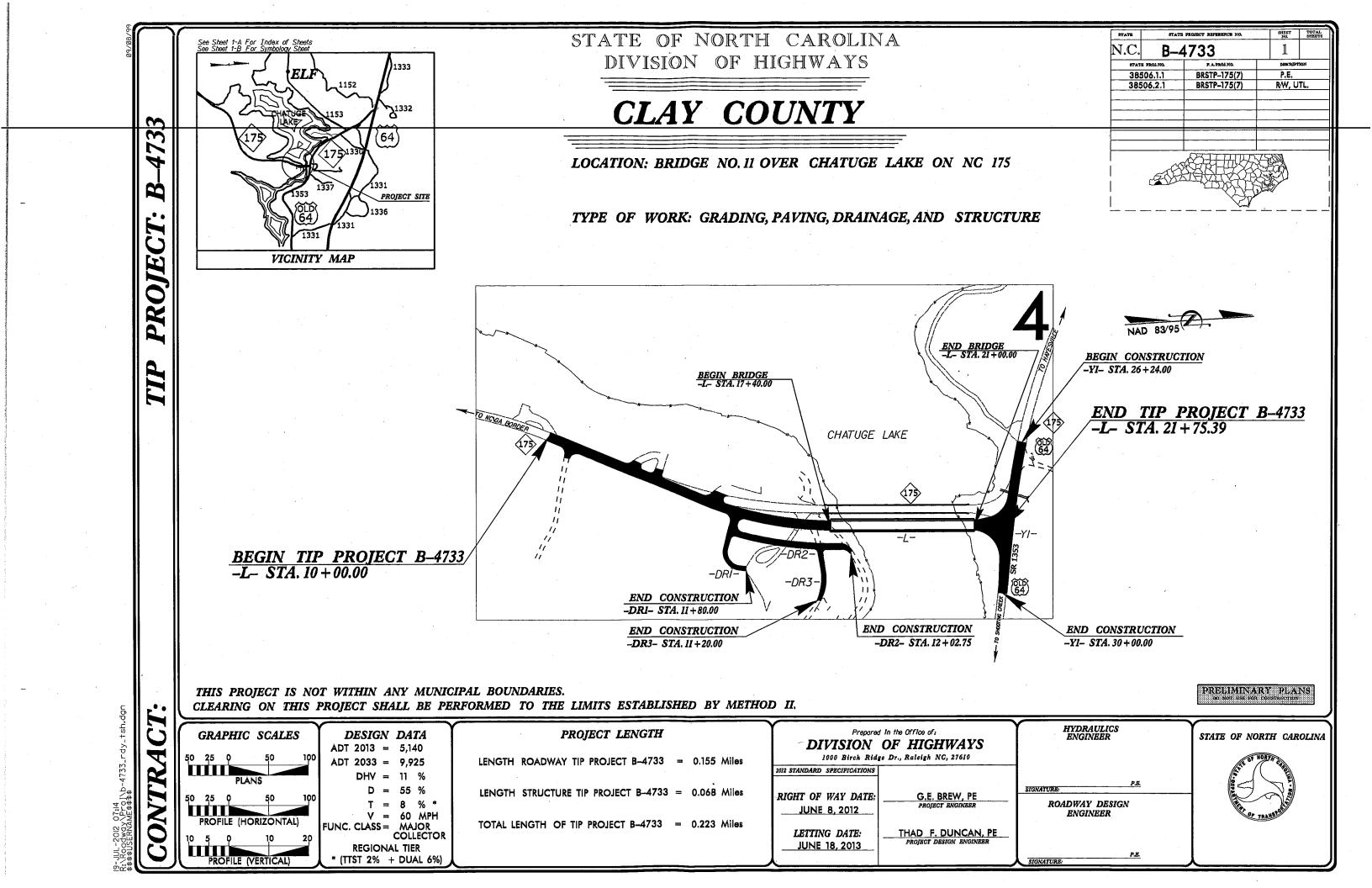
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

CLAY COUNTY
WBS - 38506.1.1 (B-4733)

SHEET

7/18/2012





STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

\*S.U.E. = Subsurface Utility Engineering

# CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY;		•	•			WATER:	
State Line						Water Manhole	W
County Line -		RAILROADS:	* -			Water Meter	٥
Township Line		Standard Gauge	CSX TRANSPORTATION	Orchard	6666	Water Valve	•
City Line		RR Signal Milepost	⊙ WILEPOST 35		W W W W	Water Hydrant	•
Reservation Line		Switch	SWITCH	Vineyard ————————————————————————————————————	vineyord	Recorded U/G Water Line	, <del></del>
Property Line	·	RR Abandoned		EXISTING STRUCTURES:		Designated U/G Water Line (S.U.E.*)	
Existing Iron Pin	O EIP	RR Dismantled		MAJOR:		Above Ground Water Line	A/G Water
Property Corner		RIGHT OF WAY:		Bridge, Tunnel or Box Culvert	CONC		
Property Monument	ECM	Baseline Control Point		Bridge Wing Wall, Head Wall and End Wall		TV:	
Parcel/Sequence Number	<b>®</b>	Existing Right of Way Marker	$\triangle$	MINOR:	,	TV Satellite Dish	K
Existing Fence Line		Existing Right of Way Line		Head and End Wall	CONC HW	TV Pedestal	
Proposed Woven Wire Fence		Proposed Right of Way Line	<del></del>	Pipe Culvert		TV Tower	$\otimes$
Proposed Chain Link Fence		Proposed Right of Way Line with		Footbridge>		U/G TV Cable Hand Hole -	FH
Proposed Barbed Wire Fence		Iron Pin and Cap Marker			СВ	Recorded U/G TV Cable	
Existing Wetland Boundary		Proposed Right of Way Line with Concrete or Granite Marker	<del></del>	Paved Ditch Gutter	<b>∟.</b> "	Designated U/G TV Cable (S.U.E.*)	
Proposed Wetland Boundary		Existing Control of Access	,	Storm Sewer Manhole	 ©	Recorded U/G Fiber Optic Cable	
Existing Endangered Animal Boundary		Proposed Control of Access	<b>10</b> 2	Storm Sewer Mannois	•	Designated U/G Fiber Optic Cable (S.U.E.*)	
existing Endangered Plant Boundary		Existing Easement Line	•	Storm Sewer	s	,	
Known Soil Contamination: Area or Site		Proposed Temporary Construction Easement –		TIMET TOTE O		GAS:	•
Potential Soil Contamination: Area or Site		•		UTILITIES:		Gas Valve	<b>\lambda</b>
		Proposed Temporary Drainage Easement		POWER:	. 1	Gas Meter	
BUILDINGS AND OTHER CULTU	KE:	Proposed Permanent Drainage Easement ——		Existing Power Pole	•	Recorded U/G Gas Line	
Gas Pump Vent or U/G Tank Cap ————	0	Proposed Permanent Drainage / Utility Easemen		Proposed Power Pole	o	Designated U/G Gas Line (S.U.E.*)	
ign ————————————————————————————————————	Š	Proposed Permanent Utility Easement		Existing Joint Use Pole	- <b>⊕</b> -	Above Ground Gas Line	
Yell	₩	Proposed Temporary Utility Easement		Proposed Joint Use Pole	-0-	Above Globila Gas Line	
imali Mine	<u>*</u>	Proposed Aerial Utility Easement	AUE	Power Manhole	®	SANITARY SEWER:	
oundation ————————————————————————————————————		Proposed Permanent Easement with	<b>&amp;</b>	Power Line Tower	$\boxtimes$	Sanitary Sewer Manhole	<b>@</b>
Area Outline		Iron Pin and Cap Marker	•	Power Transformer	$\square$	Sanitary Sewer Cleanout	•
Cemetery		ROADS AND RELATED FEATURE		U/G Power Cable Hand Hole		L/G Sanitary Sewer Line	=
Building		Existing Edge of Pavement		H-Frame Pole	•—•	Above Ground Sanitary Sewer	
School ———————————————————————————————————	Ė	Existing Curb		Recorded U/G Power Line	Р	Recorded SS Forced Main Line	
Church ————————————————————————————————————	<u> </u>	Proposed Slope Stakes Cut		Designated U/G Power Line (S.U.E.*)		Designated SS Forced Main Line (S.U.E.*)	
Dam		Proposed Slope Stakes Fill	<u>+</u>			Designated 35 Forced Main Line (5.U.E.*) —	FSS
HYDROLOGY:		Proposed Curb Ramp		TELEPHONE:			
Stream or Body of Water ————————————————————————————————————		Existing Metal Guardrail		Existing Telephone Pole		MISCELLANEOUS:	
Hydro, Pool or Reservoir ———— [		Proposed Guardrail		Proposed Telephone Pole	<b>-</b>		•
Jurisdictional Stream		Existing Cable Guiderail	<u> </u>	Telephone Manhole	•	Utility Pole with Base —	<del></del>
Buffer Zone 1	**	Proposed Cable Guiderail	<u> </u>	Telephone Booth	D	Utility Located Object	
Buffer Zone 2		Equality Symbol	•	Telephone Pedestal		Utility Traffic Signal Box ———————————————————————————————————	
Flow Arrow		Pavement Removal	$\boxtimes\!\!\!\boxtimes\!\!\!\boxtimes\!\!\!\boxtimes\!\!\!\boxtimes$	Telephone Cell Tower		Utility Unknown U/G Line	
Disappearing Stream ————————————————————————————————————		VEGETATION:		U/G Telephone Cable Hand Hole	<u>.                                    </u>	U/G Tank; Water, Gas, Oil ———————————————————————————————————	
Spring ————		Single Tree	ß	Recorded U/G Telephone Cable		Underground Storage Tank, Approx. Loc. ——	
Wetland		Single Shrub	ø	Designated U/G Telephone Cable (S.U.E.*)—		A/G Tank; Water, Gas, Oil ——————	
Proposed Lateral, Tail, Head Ditch		Hedge		Recorded U/G Telephone Conduit		Gecenvironmental Boring	<b>↔</b>
rioposea Luisiui, Iuli, ribua Dilicii	- 10N	Woods Line				U/G Test Hole (S.U.E.*)	<b>⑤</b>
Eulan Cuman	$\overline{}$	Woods Line		Decianated [I/4 Telephone Conduit (\$ 11 5 **-			
False Sump	$\Leftrightarrow$	Woods Line		Designated U/G Telephone Conduit (S.U.E.*)  Recorded U/G Fiber Optics Cable ————		Abandoned According to Utility Records ——	AATUR

