

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY

GOVERNOR

LYNDO TIPPETT SECRETARY

June 16, 2004

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

ATTN: Mr. Steve Lund NCDOT Coordinator

Dear Sir:

Subject: Nationwide 33 Permit Application and Request for Modification of

Nationwide Permit 23 for the Replacement of Bridge No. 46 over Catawba River on SR 1223, Burke County, Federal Aid Project No. BRZ-1223(8),

State Project No. 8.2852001, TIP B-3419, Division 13.

Please reference the original request for a Nationwide 23 Permit dated March 5, 2004. Since the date of the original application, two previously unidentified streams were found within the proposed project right-of-way. The Nationwide Permit 23 application previously submitted for the project did not account for Waters of the United States other than the mainstem of the Catawba River. The two streams are both unnamed tributaries of the Catawba River, one flowing in from the east, labeled as UT-East, and one flowing in from the west, labeled as UT-West.

## **Additional Stream Impacts**

There will be 44 feet of permanent linear stream channel impacts in UT-East from the proposed installation of a 30-inch Reinforced Concrete Pipe and 81 feet of permanent linear stream channel impacts in UT-West from the installation of a 48-inch Reinforced Concrete Pipe. These values reflect the length of additional stream channel impacts from the installation of each new structure.

All measures will be taken to avoid any temporary fill from entering Waters of the U.S.; Best Management Practices for Bridge Demolition and Removal will be implemented. Temporary dewatering will be accomplished through methods described in the document *Best Management Practices for Construction and Maintenance Activities*.

## **Regulatory Approvals**

Section 404 Permit: It is anticipated and requested that the temporary dewatering of both unnamed tributaries will be authorized under Section 404 Nationwide Permit 33 (Temporary Construction Access and Dewatering). All other aspects of this project are being processed

by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR § 771.115(b).

<u>Section 401 Permit</u>: We anticipate 401 General Certification numbers 3403 will apply to this project. In accordance with 15A NCAC 2H, Section .0500(a) we are providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their review.

Division of Water Quality Buffer Certification No. 040373 was issued on the original Nationwide 23 Permit Application dated March 5, 2004. We expect no additional impacts to the Catawba River Buffer and, therefore, no modifications to the original Buffer Certification will be necessary.

We anticipate that 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 attachment, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the U. S. Army Corps of Engineers Regulatory Field Office in Asheville, North Carolina.

A copy of this permit application will be posted on the DOT website at: <a href="http://www.ncdot.org/planning/pe/naturalunit/Permit.html">http://www.ncdot.org/planning/pe/naturalunit/Permit.html</a>.

If you have any questions or need additional information, please contact Mr. Michael Turchy at (919) 715-1468.

Sincerely,

Gregory J. Thorpe, PhD., Environmental Management Director Project Development and Environmental Analysis Branch

cc:

### W/attachment

Mr. John Hennessy, Division of Water Quality (7 copies)

Ms. Marella Buncick, USFWS

Ms. Marla Chambers, NCWRC

Mr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. J.J.Swain, P.E., Division Engineer

Mr. Roger Bryan, DEO

### W/o attachment

Mr. Jay Bennett, P.E., Roadway Design

Mr. Omar Sultan, Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. Mark Staley, Roadside Environmental

Mr. David Franklin, USACE, Wilmington (Cover Letter Only)

Mr. John Wadsworth, P.E., PDEA Project Planning Engineer

Office	Us	e Only:			Form Version May 2002
USAC	EE A	Action ID No.		DWQ No	<b>).</b>
			ot applicable to this pro		ter "Not Applicable" or "N/A".)
I.	Pr	rocessing			
	1.	Check all of the approva  ☐ Section 404 Permit ☐ Section 10 Permit ☐ 401 Water Quality C	•	this project:	Riparian or Watershed Buffer Rules Isolated Wetland Permit from DWQ
	<u>2.</u>	Nationwide, Regional o	r General Permit N	fumber(s) Re	equested: NW 33
	3.	If this notification is solits not required, check he		because w	ritten approval for the 401 Certification
	4.		erify availability w		ion Program (NCWRP) is proposed for P prior to submittal of PCN), complete
	5.	4), and the project is v	within a North Ca	rolina Divi	wenty coastal counties (listed on page sion of Coastal Management Area of her details), check here:
II.	Ap	pplicant Information			
	1.	Owner/Applicant Inform Name: Mailing Address:		ce Center	nvironmental Management Director 99-1598
		Telephone Number: (9) E-mail Address: matur			(umber: (919) 733-9794
	2.	must be attached if the A Name: Company Affiliation:	Agent has signatory	authority for	<b>11</b> /
		Telephone Number: E-mail Address:		Fax N	umber:

# III. Project Information

Attach a **vicinity map** clearly showing the location of the property with respect to local landmarks such as towns, rivers, and roads. Also provide a detailed **site plan** showing property boundaries and development plans in relation to surrounding properties. Both the vicinity map and site plan must include a scale and north arrow. The specific footprints of all buildings, impervious surfaces, or other facilities must be included. If possible, the maps and plans should include the appropriate USGS Topographic Quad Map and NRCS Soil Survey with the property boundaries outlined. Plan drawings, or other maps may be included at the applicant's discretion, so long as the property is clearly defined. For administrative and distribution purposes, the USACE requires information to be submitted on sheets no larger than 11 by 17-inch format; however, DWQ may accept paperwork of any size. DWQ prefers full-size construction drawings rather than a sequential sheet version of the full-size plans. If full-size plans are reduced to a small scale such that the final version is illegible, the applicant will be informed that the project has been placed on hold until decipherable maps are provided.

<ol> <li>Property Identification Number</li> <li>Location         County: Burke         Subdivision name (include ph         Directions to site (include road         Road (SR 1223)</li> <li>Site coordinates, if available (         (Note – If project is linear, succoordinates for each crossing of the coordinates for each crossing o</li></ol>	placement of bridge No. 46 over SR 1223
<ol> <li>4. Location         County: Burke         Subdivision name (include ph         Directions to site (include road         Road (SR 1223)</li></ol>	e Project Number (NCDOT Only): B-3419
County: Burke Subdivision name (include ph Directions to site (include road Road (SR 1223)  5. Site coordinates, if available ( (Note – If project is linear, succoordinates for each crossing of the coordinates for each crossing of th	er (Tax PIN):
<ul> <li>(Note – If project is linear, succoordinates for each crossing of the coordinates for each crossing of the coordi</li></ul>	Nearest Town: Glen Alpine nase/lot number): N/A nd numbers, landmarks, etc.): Bridge No. 46 on Power House
<ul> <li>7. Nearest body of water (stream</li> <li>8. River Basin: <u>Catawba</u> (Note – this must be one of Nativer Basin map is available a</li> </ul>	(UTM or Lat/Long): 34° 44'26" N 81° 50' 06"W ch as a road or utility line, attach a sheet that separately lists the of a distinct waterbody.)
8. River Basin: <u>Catawba</u> (Note – this must be one of N River Basin map is available a	
(Note – this must be one of N River Basin map is available a	n/river/sound/ocean/lake): Lake James/ Catawba River
9. Describe the existing conditio	North Carolina's seventeen designated major river basins. The at <a href="http://h2o.enr.state.nc.us/admin/maps/">http://h2o.enr.state.nc.us/admin/maps/</a> .)
	ons on the site and general land use in the vicinity of the project Lake/ Recreation, Agricultural

	the current structure. Earth moving equipment, cranes, etc will be used during construction.
	the current structure. Earth moving equipment, cranes, etc win be used during construction.
11	. Explain the purpose of the proposed work: To replace the functionally and structurally obselete structure.
Pı	ior Project History
pr the ce ce bu lis	jurisdictional determinations and/or permits have been requested and/or obtained for this oject (including all prior phases of the same subdivision) in the past, please explain. Include a USACE Action ID Number, DWQ Project Number, application date, and date permits and retifications were issued or withdrawn. Provide photocopies of previously issued permits, retifications or other useful information. Describe previously approved wetland, stream and after impacts, along with associated mitigation (where applicable). If this is a NCDOT project, and describe permits issued for prior segments of the same T.I.P. project, along with instruction schedules.
<u>Tl</u>	ertification No. 040373.
<u>Tl</u> <u>Co</u>	

# V

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to wetlands, open water, and stream channels associated with the project. The applicant must also provide justification for these impacts in Section VII below. All proposed impacts, permanent and temporary, must be listed herein, and must be clearly identifiable on an accompanying site plan. All wetlands and waters, and all streams (intermittent and perennial) must be shown on a delineation map, whether or not impacts are proposed to these systems. Wetland and stream evaluation and delineation forms should be included as appropriate. Photographs may be included at the applicant's discretion. If this proposed impact is strictly for wetland or stream mitigation, list and describe the impact in Section VIII below. If additional space is needed for listing or description, please attach a separate sheet.

1. Provide a written description of the proposed impacts: Two unnamed tributaries to Catawba River will be impacted

Wetland Impact Site Number	Type of Impact*	Area of Impact	Located within 100-year Floodplain**	Distance to Nearest Stream	Type of Wetland***
(indicate on map)		(acres)	(yes/no)	(linear feet)	
No Wetlands					
excavation, floodin ** 100-Year floodpla	ng, ditching/drainage, on the control of the contro	etc. For dam ough the Fed	s, separately list impacts due deral Emergency Manageme	to both structure and ent Agency's (FEMA	.) Flood Insurance Rate Maps
		olain maps. I	Maps are available through th	ne FEMA Map Servic	e Center at 1-800-358-9616, or
online at http://ww		wetland to	he impacted (e.g. freshwat	er/caltwater march f	orested wetland, beaver pond
			d (determination of isolation		
<i>, , , ,</i>	,		•	,	3,
	•	4. 4. 15	C 11 '	.1	A NT - III
List th	e total acreage (e	stimated)	of all existing wetlan	ias on the propei	tv: None

Stream Impact Site Number (indicate on map)	Type of Impact*	Length of Impact (linear feet)	Stream Name**	Average Width of Stream Before Impact	Perennial or Intermittent? (please specify)
UT West	Reinforced Concrete Pipe	81'	UT to Catawba	2'	Perennial
UT East	Reinforced Concrete Pipe	44'	UT to Catawba	4'	Perennial

- \* List each impact separately and identify temporary impacts. Impacts include, but are not limited to: culverts and associated rip-rap, dams (separately list impacts due to both structure and flooding), relocation (include linear feet before and after, and net loss/gain), stabilization activities (cement wall, rip-rap, crib wall, gabions, etc.), excavation, ditching/straightening, etc. If stream relocation is proposed, plans and profiles showing the linear footprint for both the original and relocated streams must be included.
- \*\* Stream names can be found on USGS topographic maps. If a stream has no name, list as UT (unnamed tributary) to the nearest downstream named stream into which it flows. USGS maps are available through the USGS at 1-800-358-9616, or online at <a href="https://www.usgs.gov">www.usgs.gov</a>. Several internet sites also allow direct download and printing of USGS maps (e.g., <a href="https://www.topozone.com">www.topozone.com</a>, <a href="https://

Cumulative impacts (linear distance in feet) to all streams on site: 125

4. Individually list all open water impacts (including lakes, ponds, estuaries, sounds, Atlantic Ocean and any other water of the U.S.) below:

Open Water Impact Site Number (indicate on map)	Type of Impact*	Area of Impact (acres)	Name of Waterbody (if applicable)	Type of Waterbody (lake, pond, estuary, sound, bay, ocean, etc.)
N/A				
	· · · · · · · · · · · · · · · · · · ·			

List each impact separately and identify temporary impacts. Impacts include, but are not limited to: fill, excavation, dredging, flooding, drainage, bulkheads, etc.

5	Dond	Creation
1	POHO	reamon.

n construction of a polici is proposed, as	socialed wetiand and stream impacts should be
included above in the wetland and stream i	impact sections. Also, the proposed pond should
be described here and illustrated on any map	ps included with this application.
Pond to be created in (check all that apply):	uplands stream wetlands
Describe the method of construction (e.g	g., dam/embankment, excavation, installation of
draw-down valve or spillway, etc.):	
Proposed use or purpose of pond (e.g., live	estock watering, irrigation, aesthetic, trout pond
local stormwater requirement, etc.):	
Size of watershed draining to pond:	Expected pond surface area:

### VII. Impact Justification (Avoidance and Minimization)

Specifically describe measures taken to avoid the proposed impacts. It may be useful to provide information related to site constraints such as topography, building ordinances, accessibility, and financial viability of the project. The applicant may attach drawings of alternative, lower-impact site layouts, and explain why these design options were not feasible. Also discuss how impacts were minimized once the desired site plan was developed. If applicable, discuss construction techniques to be followed during construction to reduce impacts.

The selected design was chosen as it completely spans the Catawba River and removes the fill area from the old structure from the river. The western unnamed tributary impact is

necessary to provide adequate access to the WRC public fishing/ access area. The eastern
unnamed tributary impact is necessary to replace an obsolete, perched culvert.
Mitigation
DWQ - In accordance with 15A NCAC 2H .0500, mitigation may be required by the NC Division of Water Quality for projects involving greater than or equal to one acre of impacts to freshwater wetlands or greater than or equal to 150 linear feet of total impacts to perennial streams.
USACE – In accordance with the Final Notice of Issuance and Modification of Nationwide Permits, published in the Federal Register on March 9, 2000, mitigation will be required when necessary to ensure that adverse effects to the aquatic environment are minimal. Factors including size and type of proposed impact and function and relative value of the impacted aquatic resource will be considered in determining acceptability of appropriate and practicable mitigation as proposed. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland and/or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferable in the same watershed.
If mitigation is required for this project, a copy of the mitigation plan must be attached in order for USACE or DWQ to consider the application complete for processing. Any application lacking a required mitigation plan or NCWRP concurrence shall be placed on hold as incomplete. An applicant may also choose to review the current guidelines for stream restoration in DWQ's Draft Technical Guide for Stream Work in North Carolina, available at <a href="http://h2o.enr.state.nc.us/ncwetlands/strmgide.html">http://h2o.enr.state.nc.us/ncwetlands/strmgide.html</a> .
1. Provide a brief description of the proposed mitigation plan. The description should provide as much information as possible, including, but not limited to: site location (attach directions and/or map, if offsite), affected stream and river basin, type and amount (acreage/linear feet) of mitigation proposed (restoration, enhancement, creation, or preservation), a plan view, preservation mechanism (e.g., deed restrictions, conservation easement, etc.), and a description of the current site conditions and proposed method of construction. Please attach a separate sheet if more space is needed.  No Mitigation Required

VIII.

2. Mitigation may also be made by payment into the North Carolina Wetlands Restoration Program (NCWRP). Please note it is the applicant's responsibility to contact the NCWRP at

NCWRP, check the NCWRP website at http://h2o.enr.state.nc.us/wrp/index.htm. If use of the NCWRP is proposed, please check the appropriate box on page three and provide the following information: Amount of stream mitigation requested (linear feet): Amount of buffer mitigation requested (square feet): Amount of Riparian wetland mitigation requested (acres):\_\_\_\_\_\_\_\_

Amount of Non-riparian wetland mitigation requested (acres):\_\_\_\_\_\_\_ Amount of Coastal wetland mitigation requested (acres): **Environmental Documentation (required by DWQ)** Does the project involve an expenditure of public (federal/state) funds or the use of public (federal/state) land? Yes 🖂 No  $\square$ If yes, does the project require preparation of an environmental document pursuant to the requirements of the National or North Carolina Environmental Policy Act (NEPA/SEPA)? Note: If you are not sure whether a NEPA/SEPA document is required, call the SEPA coordinator at (919) 733-5083 to review current thresholds for environmental documentation. Yes 🖂 No  $\square$ If yes, has the document review been finalized by the State Clearinghouse? If so, please attach a copy of the NEPA or SEPA final approval letter. Yes 🖂 No  $\square$ Proposed Impacts on Riparian and Watershed Buffers (required by DWQ) It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to required state and local buffers associated with the project. The applicant must also provide justification for these impacts in Section VII above. All proposed impacts must be listed herein, and must be clearly identifiable on the accompanying site plan. All buffers must be shown on a map, whether or not impacts are proposed to the buffers. Correspondence from the DWQ Regional Office may be included as appropriate. Photographs may also be included at the applicant's discretion. Will the project impact protected riparian buffers identified within 15A NCAC 2B .0233 (Neuse), 15A NCAC 2B .0259 (Tar-Pamlico), 15A NCAC 2B .0250 (Randleman Rules and Water Supply Buffer Requirements), or other (please identify If you answered "yes", provide the following information: Yes  $\square$ No 🖂

IX.

X.

(919) 733-5208 to determine availability and to request written approval of mitigation prior to submittal of a PCN. For additional information regarding the application process for the

Identify the square feet and acreage of impact to each zone of the riparian buffers.  $\underline{\text{If}}$  buffer mitigation is required calculate the required amount of mitigation by applying the buffer multipliers.

Zone*	Impact (square feet)	Multiplier	Required Mitigation
1		3	
2		1.5	
Total			

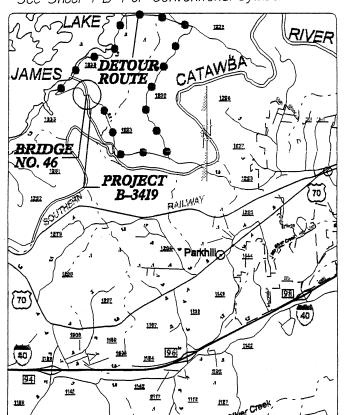
Zone 1 extends out 30 feet perpendicular from near bank of channel; Zone 2 extends an additional 20 feet from the edge of Zone 1.

	of Property, Conservation Easement, Riparian Buffer Restoration / Enhancement, Preservation or Payment into the Riparian Buffer Restoration Fund). Please attach all appropriate information as identified within 15A NCAC 2B .0242 or .0260.					
XI.	Stormwater (required by DWQ)					
	Describe impervious acreage (both existing and proposed) versus total acreage on the site. Discuss stormwater controls proposed in order to protect surface waters and wetlands downstream from the property.  N/A					
XII.	Sewage Disposal (required by DWQ)					
	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility.  N/A					
XIII.	Violations (required by DWQ)					
	Is this site in violation of DWQ Wetland Rules (15A NCAC 2H .0500) or any Buffer Rules? Yes No					
	Is this an after-the-fact permit application? Yes ☐ No ☒					
XIV.	Other Circumstances (Optional):					

It is the applicant's responsibility to submit the application suffice construction dates to allow processing time for these permits. choose to list constraints associated with construction or sequencing work schedules (e.g., draw-down schedules for lakes, dates associated Species, accessibility problems, or other issues outside of the sequence of	However, an applicant may ng that may impose limits on ociated with Endangered and
Report	6/15/04
Applicant/Agent's Signature	Date
(Agent's signature is valid only if an authorization letter from the ap	opiicant is provided.)

# NO. 46 94 VICINITY MAP OF B-3419 - DETOUR

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



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# BURKE COUNTY

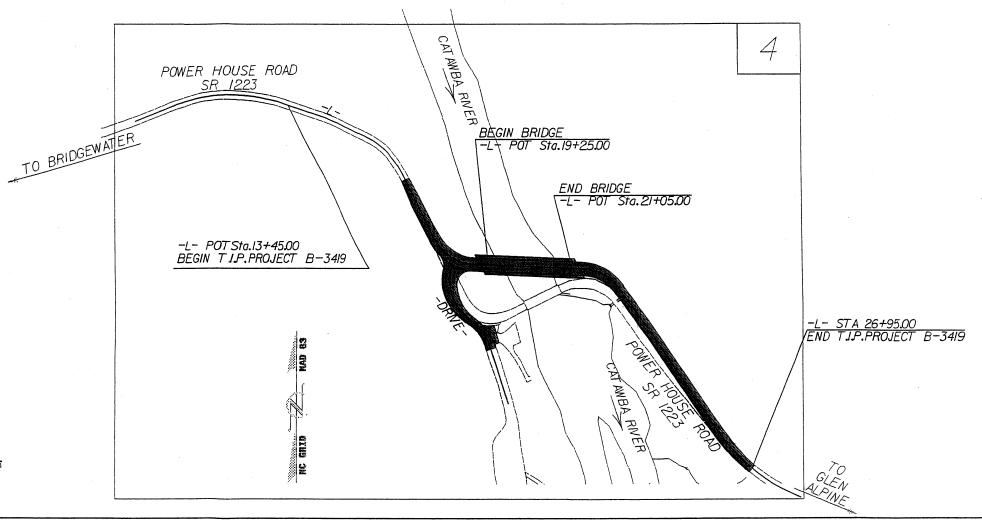
IZCATION: BRIDGE NO. 46 ON SR 1223 OVER CATAVBA RIVER

TTPE OF WORK: GRADING, DRAINAGE, PAYING, AND STRUCTURES

STATE	STATE	PROJECT REPERINCE NO.	NO.	TOTAL SHEETS			
N.C.		8-3419	1				
STATE PROLING.		P.A.PROLINO,	DESCRIPT	TON			
330	\$5.3.3	5902-121902	##. USB				
3,383.	18.20	842-1223:2:					
			1				
			1				

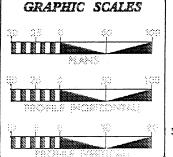
PRELIMINARY PLANS

INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION



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

NCDOT CONTACT: CATHY S. HOUSER, P.E.,
PROJECT ENGINEER, DESIGN SERVICES



# DESIGN DATA ADY 2004 - 811

ARY 2023 - 981 2007 w 10% D - 45% 1 \* 3% TIST TA DUAL #95

# DESIGN EXCEPTION FOR HORIZONTAL ALIGNMENT, STOPPING SIGHT DISTANCE, AND SUPERELEVATION IS REQUIRED

# PROJECT LENGTH

LENGTH ROADWAY TJ.P.PROJECT B-3419 LENGTH STRUCTURES T.J.P. PROJECT B-3419 TOTAL LENGTH OF TJP. PROJECT B-3419

= 0.256 MILES

MARCH	31, 2003
MARCH	16, 2004

NEIL J.DEAN, P.E. EARTH TECH PROJECT MANAGER

= 0.222 MILES

= 0.034 MILES

Prepared in the Office of:

A **TUGO** INTERNATIONAL LTD. COMPANY

FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 7D | Corporate Center Drive

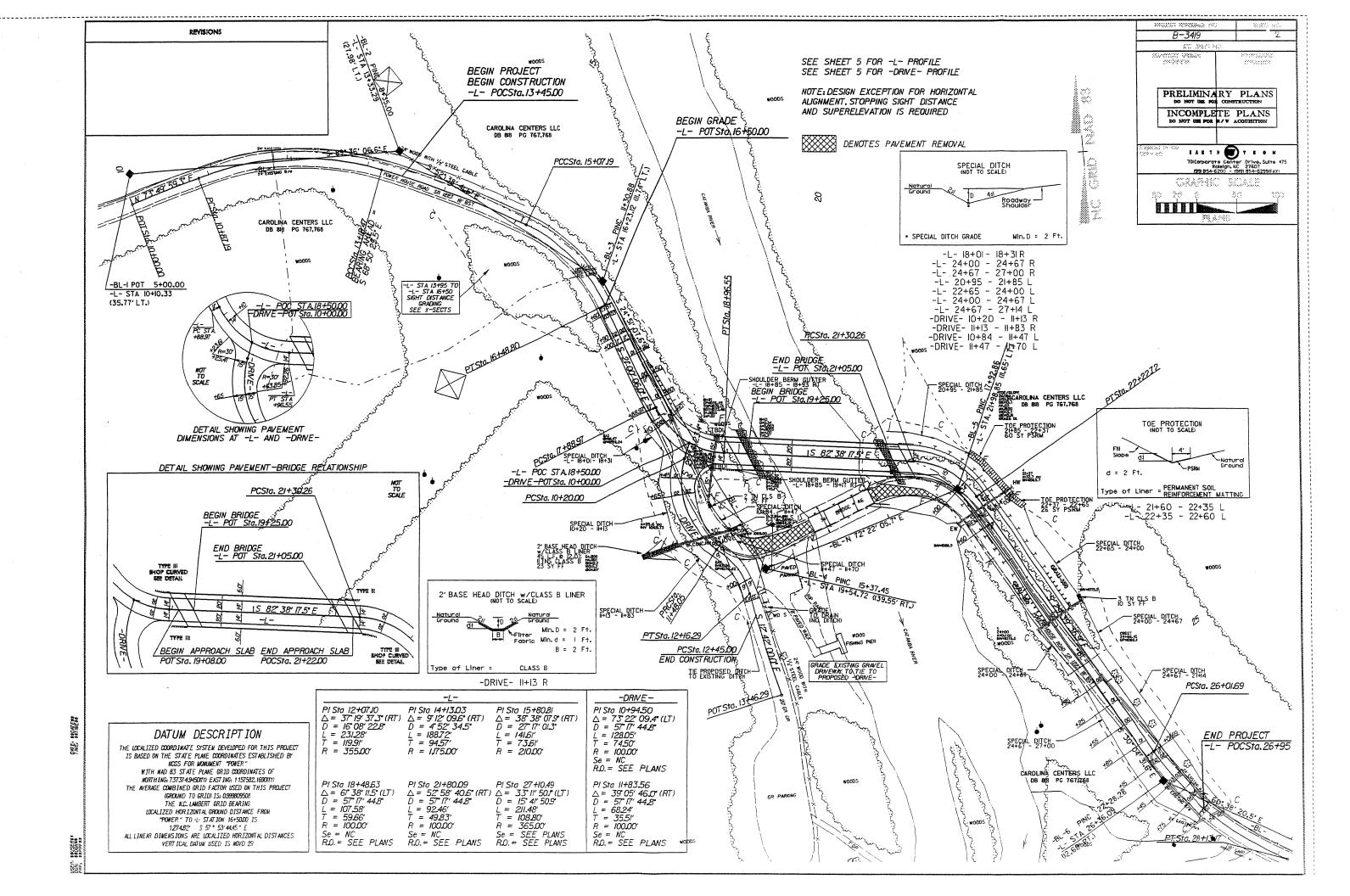
Sulte 475 Raleigh, N.C. 27607 (9 19)-854-6200 FAX (919)-854-6259

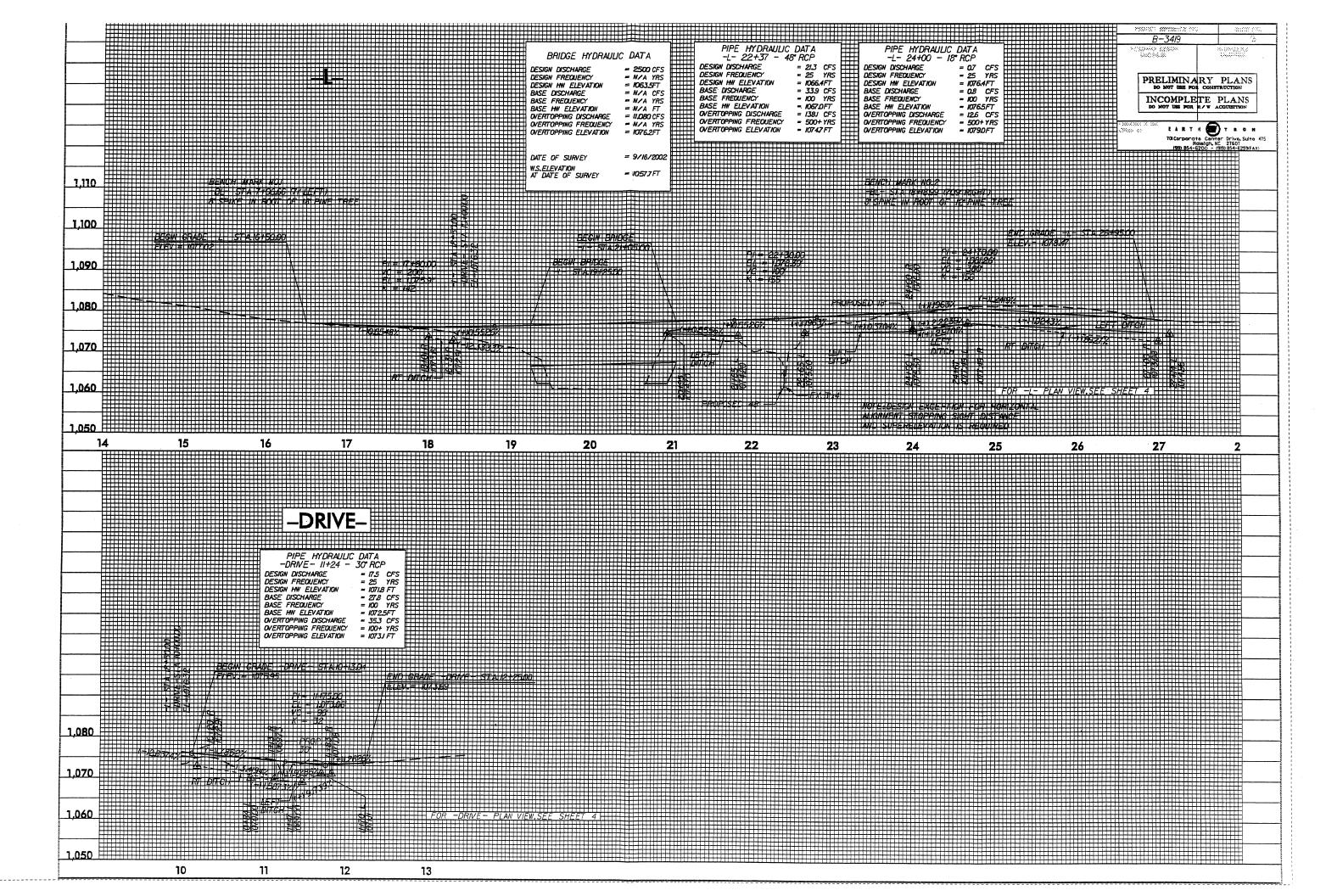
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA HYDRAULICS ENGINEER

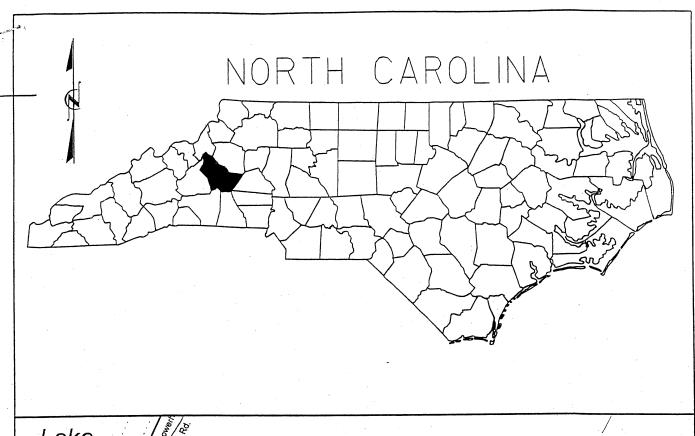
SIGNATURE: JOHN D.E. MICHOLE, P.E.

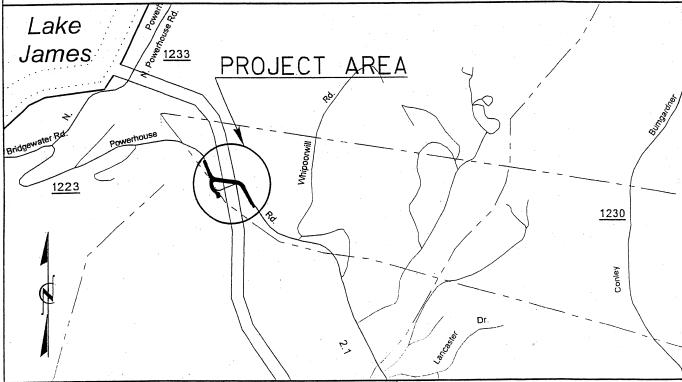
ROADWAY DESIGN STATE DESIGN ENGINEERS DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION ENGINEER

MIGNATURE NELL J. DEAN, P.E.









VICINITY MAPS

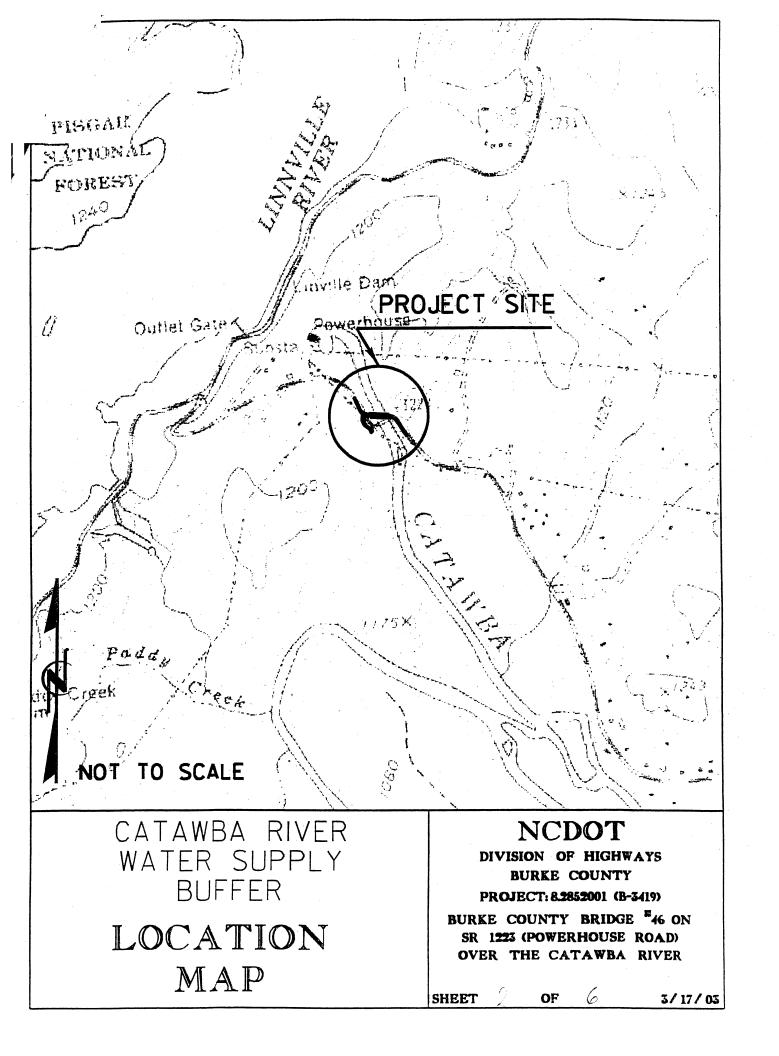
# NCDOT

DIVISION OF HIGHWAYS BURKE COUNTY PROJECT: 8.2852001 (B-3419)

BURKE COUNTY BRIDGE #46 ON SR 1223 (POWERHOUSE ROAD) OVER THE CATAWBA RIVER

SHEET OF 6

3/19/03



### WETLAND LEGEND WETLAND BOUNDARY ₩LB---PROPOSED BRIDGE PROPOSED BOX CULVERT WETLAND DENOTES FILL IN PROPOSED PIPE CULVERT WETLAND PIPES (DASHED LINES DENOTE EXISTNG STRUCTURES) DENOTES FILL IN 54' PIPES SURFACE WATER & ABOVE DENOTES FILL IN SURFACE WATER (POND) SINGLE TREE DENOTES TEMPORARY FILL IN WETLAND WOODS LINE DENOTES EXCAVATION IN WETLAND DRAINAGE INLET DENOTES TEMPORARY FILL IN SURFACE ROOTWAD WATER DENOTES MECHANIZED CLEARING → FLOW DIRECTION RIP RAP - TOP OF BANK WΕ ADJACENT PROPERTY OWNER - EDGE OF WATER 5 OR PARCEL NUMBER IF AVAILABLE - PROP. LIMIT OF CUT PREFORMED SCOUR HOLE F - PROP. LIMIT OF FILL PROP. RIGHT OF WAY LEVEL SPREADER (LS) NG - NATURAL GROUND PL - PROPERTY LINE DITCH / GRASS SWALE TDE \_\_\_ TEMP. DRAINAGE EASEMENT \_ PERMANENT DRAINAGE -- PDE ---EASEMENT -EAB- EXIST. ENDANGERED ANIMAL BOUNDARY -EPB - EXIST. ENDANGERED PLANT BOUNDARY - WATER SURFACE LIVE STAKES

BOULDER

COIR FIBER ROLLS

# NCDOT

DIVISION OF HIGHWAYS
BURKE COUNTY

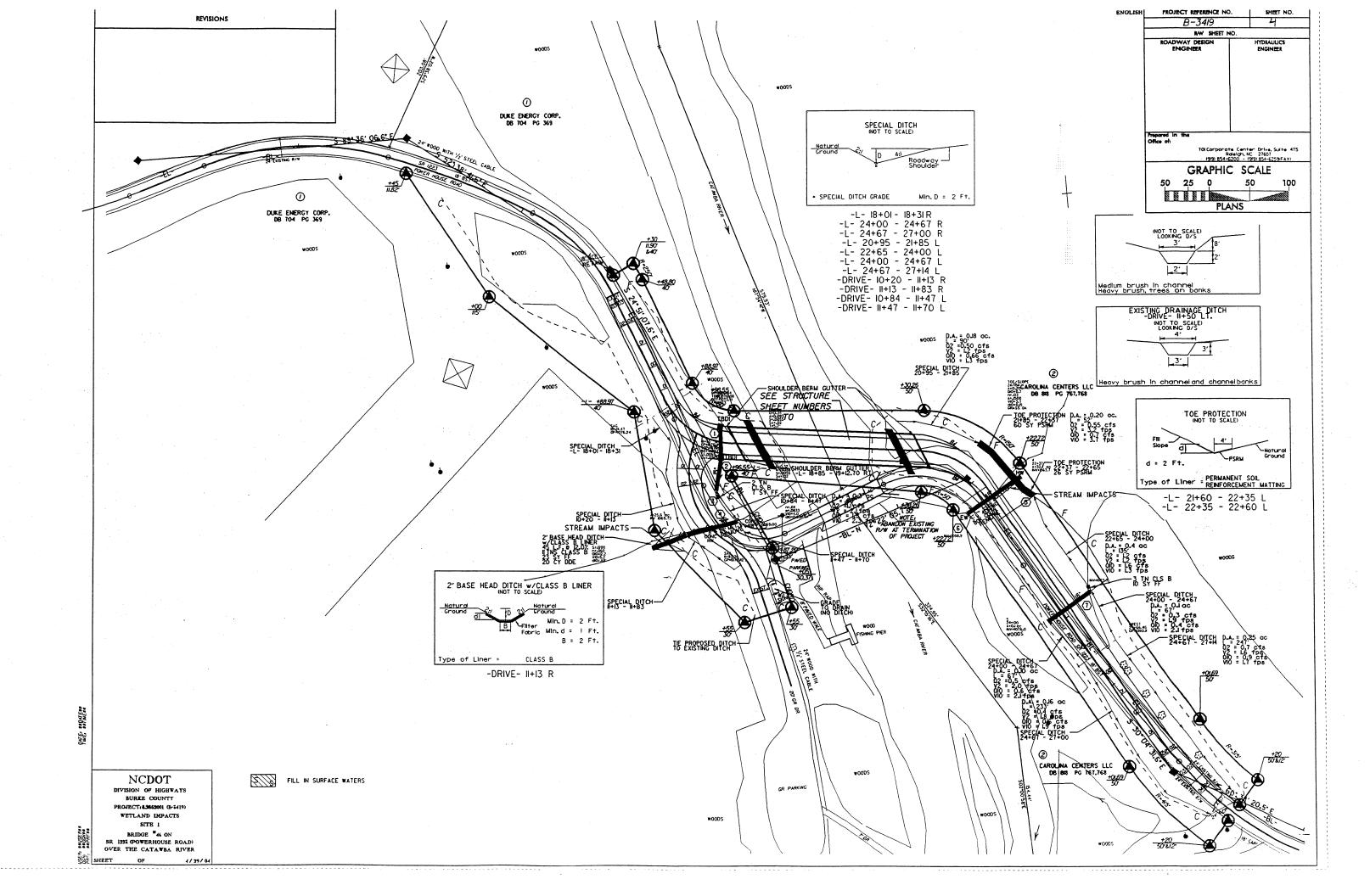
PROJECT: 8.2852001 (B-3419)

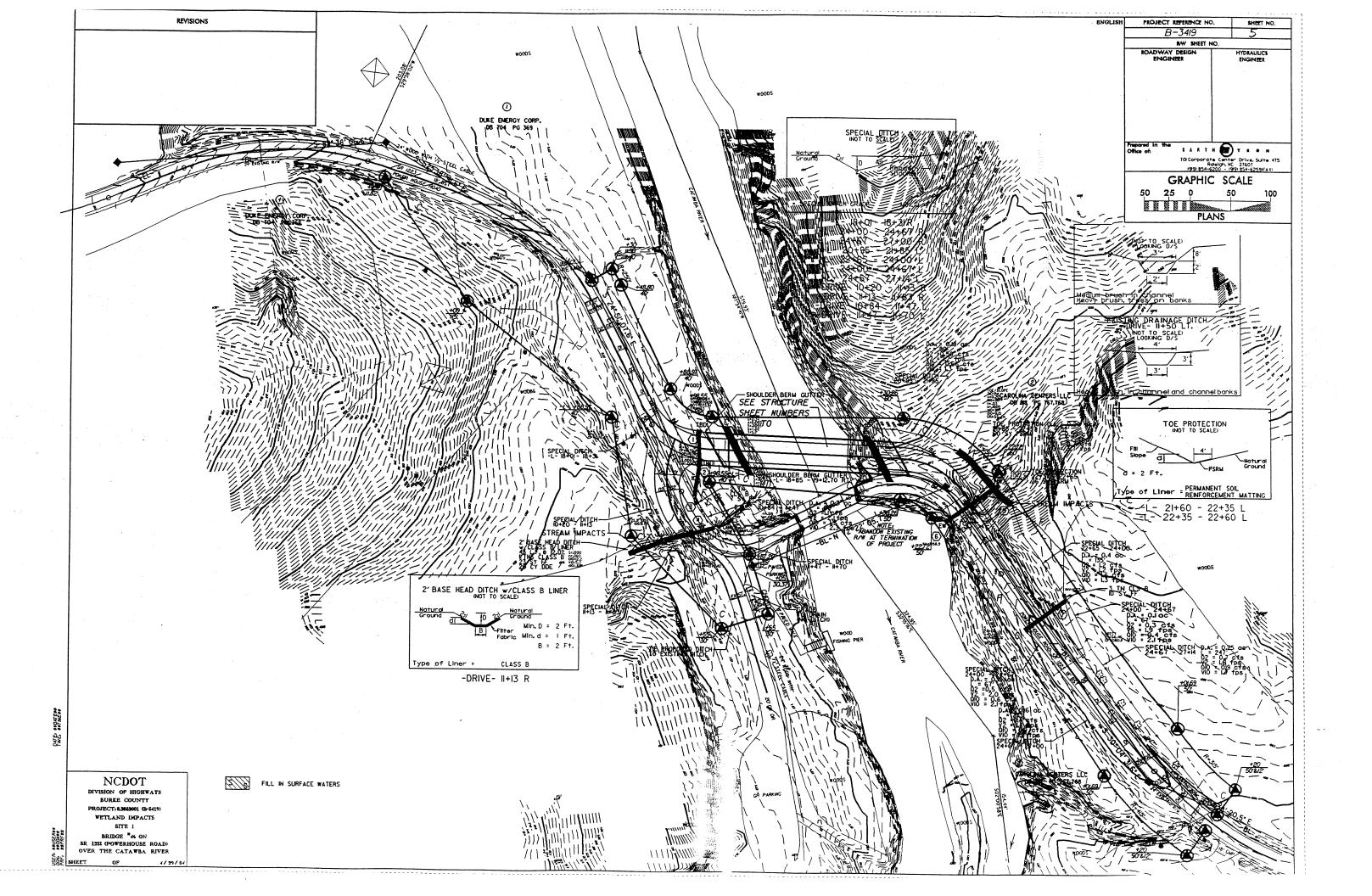
BURKE COUNTY BRIDGE #46 ON SR 1223 (POWERHOUSE ROAD) OVER THE CATAWBA RIVER

SHEET

of 6

3/17/03





Г						 		 			 	 								
				TOTALS:									ω		2		_	Site No.		
Form Revised 3/22/01				S:								UT East (~4' wide)	-L- 22+37	UT West (~2' wide)	-Drive- 11+24	TO 21+05	-L- Sta 19+25	Station (From/To)		
													48" RCP		30" RCP		180' Single Span Bridge	Structure Size / Type		
				0.	- '.													Fill In Wetlands (ac)	×	
		0					-									Temp. Fill In Wetlands (ac)	WETLAND PERMIT IMPACT SUMMARY WETLAND IMPACTS			
			0						-								Excavation In Wetlands (ac)	IMPACTS	-	
				0														Mechanized Clearing (Method III) (ac)	SUMMARY	
				0.008									0.004		0.004		0	Fill In SW (Natural) (ac)		
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS  BURKE COUNTY  PROJECT 8.2852001 B-3419  SHEET 6 OF 6	NC DEPA		0														Fill In SW (Pond) (ac)	SURFAC		
	RTMENT O	RTMENT O	0														Temp. Fill In SW (ac)	SURFACE WATER IMPACTS		
MENT OF TRANSISION OF HIGHWAS BURKE COUNTY ECT 8.2852001 B-		OF TRANS	125									44		81		0	Existing Channel Impacted (ft)	PACTS		
4/29/04	3419	PORTATION		0														Natural Stream Design (ft)		

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