



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE  
GOVERNOR

EUGENE A. CONTI, JR.  
SECRETARY

February 19, 2010

US Army Corps of Engineers  
Raleigh Regulatory Office  
331 Heritage Trade Drive  
Wake Forest, NC 27587

Attn: Mr. Andy Williams  
NCDOT Coordinator, Division 7

Dear Mr. Williams:

**Subject:** Application for Modification to Section 404 and Section 401 permits for SR 4126 (Bridford Parkway) Extension from Hornaday Road to Burnt Poplar Road at Swing Road; TIP U-4006 in Guilford County, Division 7. Federal Aid Project No. STP-4126(1); State Project No. 8.2496901, WBS Element No. 35007.1.1.

**References:** Section 404 Individual Permit, issued 6/2/2009, USACE Action ID SAW-2009-00032-241.  
Section 401 Individual Water Quality Certification, issued 3/4/2009, NCDENR-DWQ Water Quality Certification No. 3782, NCDWQ Project No. 20081797  
Notification of Unauthorized Activity/Permit Noncompliance, issued 1/20/2010, USACE Action ID: 2009-00032

Debit \$570.00 from WBS Element 35007.1.1.

The North Carolina Department of Transportation (NCDOT) proposes to extend SR 4126 (Bridford Pkwy, new route) from SR 1541 (Wendover Ave.) at Hornaday Rd. to Burnt Poplar Rd. at Swing Rd. in Greensboro, Guilford County, North Carolina. The proposed 1.1 mi. extension consists of a four-lane curb and gutter section with a raised grass median, 12-ft. inside lanes, and 14-ft. outside lanes, as well as the realignment of Big Tree Way with Bridford Pkwy and structures over I-40. The purpose of this submittal is to request a permit modification to the Section 404 permit and Section 401 Water Quality Certification for U-4006. Please see the enclosed copies of the revised permit drawing sheets, and revised summary table.

The revised design does not compromise NCDOT's compliance with the existing permit conditions. The revision has been evaluated for compliance with the avoidance/minimization criteria and is in compliance with all previous issues, including the following:

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

TELEPHONE: 919-431-2000  
FAX: 919-431-2002  
WEBSITE: [WWW.NCDOT.ORG](http://WWW.NCDOT.ORG)


**LOCATION:**  
4701 ATLANTIC AVE.  
SUITE 116  
RALEIGH NC 27604

- Protected Species
- Aquatic Life passage
- FEMA compliance
- Cultural Resources

Changes in impacts are due to culvert alignment at Site 1, UT to South Buffalo Creek (see enclosed revised permit drawings sheets 15 of 15 and 4a of 15). NCDOT was permitted eight feet of bank stabilization at the culvert outlet only. Impacts to this site have increased to include an additional 30 feet of bank stabilization at the culvert inlet and 20 feet of bank stabilization at the culvert outlet. Mitigation for the additional 50 feet of bank stabilization is not required from the USACE or NCDWQ. NCDOT will further monitor culvert placement for natural sedimentation fill-in and possible head cutting.

A copy of the permit modification with these revisions will be posted on the NCDOT website at: <http://www.ncdot.org/doh/preconstruct/pe/>. If you have any questions or need additional information, please call James Pflaum at 919-431-6527.

Sincerely,

*rev*  


Gregory J. Thorpe, Ph.D.  
 Environmental Management Director, PDEA

w/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)  
 Ms. Jennifer Derby, USEPA

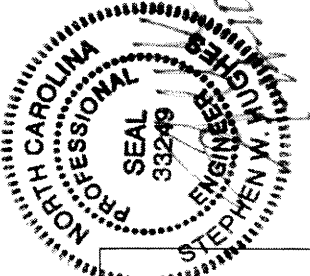
W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics  
 Mr. Greg Perfetti, P.E., Structure Design  
 Mr. Victor Barbour, P.E., Project Services Unit  
 Mr. Mark Staley, Roadside Environmental  
 Mr. J. M. Mills, P.E., Division 7 Engineer  
 Mr. Jerry Parker, Division 7 Environmental Officer  
 Mr. Jay Bennett, P.E., Roadway Design  
 Mr. Majed Alghandour, P. E., Programming and TIP  
 Mr. Art McMillan, P.E., Highway Design  
 Mr. Gene Tarascio, PDEA  
 Mr. Scott McLendon, USACE, Wilmington  
 Mr. Gary Jordan, USFWS  
 Mr. Travis Wilson, NCWRC  
 Mr. Drew Joyner, PE, Human Environment Unit Head  
 Mr. Clarence W. Coleman, P.E., FHWA

# Permit Site #1

## Structure #11 & Lateral Ditch

Inlet/Outlet Plan View As-Built Sketch



### TIE TO EXISTING CHANNEL

INV: 862.75  
STA: 26+98  
O/S: 159.25 LT

INV: 861.00  
STA: 27+14.13  
O/S: 130 LT

INV: 853.85  
STA: 30+00.70  
O/S: 129.51 RT

Pool @ Intersection  
INV: 853.40  
STA: 30+03.30  
O/S: 140.50 RT

Limits of Rip Rap in Channel  
STA: 29+88.25  
O/S: 141.89 RT

Limits of Rip Rap in Channel  
STA: 30+06.60  
O/S: 150.80 RT

TIE TO EXISTING CHANNEL  
INV: 854.40  
STA: 30+08.00  
O/S: 157.50 RT

### TIE TO EXISTING CHANNEL

INV: 857.45  
STA: 28+66.30  
O/S: 140.12 RT

CL I Rip Rap at inlet side  
Extends from HW to channel tie in point

Structure #11: 60" RCP

NTS

**WETLAND PERMIT IMPACT SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temporary SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temporary (ft)	Natural Stream Design (ft)
1	-L- 27+30 LT to -L- 30+00 RT	60" RCP Bank Stabilization						0.04	<0.01	405	30	
2	-Y3- 18+45	15'-10" x 9'-10" Corrugated Structural Steel Plate Pipe Bank Stabilization						<0.01	0.01	36	59	
3	-Y4- 19+68	48" RCP Bank Stabilization						<0.01	<0.01	38	10	
<b>TOTALS:</b>			0.00	0.00	0.00	0.00	0.04	0.01	588	99	0	

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 GUILFORD COUNTY  
 PROJECT 35007.1.1 U-4006  
 SHEET 15 OF 15 REV  
 February-10