



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

W. LYNDO TIPPETT  
SECRETARY

November 15, 2006

U.S. Army Corps of Engineers  
Wilmington Regulatory Field Office  
P.O. Box 1890  
Wilmington, North Carolina 28402-1890

ATTN: Mr. Richard Spencer  
NCDOT Coordinator

Dear Sir:

Subject: **Request for Modification of 404 Individual Permit and 401 Water Quality Certification** for Hope Mills Bypass from SR 1141 to SR 1132 / Cumberland County  
Federal Aid Project No. STP-0622(2), State Project # 8.2623601, TIP No.  
U-620, NCDOT Division 6. Debit \$475 from WBS Element 34760.1.1

References: Section 404 Individual Permit dated August 17, 2004 (Action ID 199704287 as modified March 31, 2005)  
Section 401 Water Quality Certification dated July 23, 2004 (DWQ Project No. 040806 as modified April 23, 2005).

Please find attached the revised wetland permit summary sheet and permit drawing for Site 7. NCDOT has realized that there will be a decrease to surface water and wetland impacts at Site 7 and 7A.

**Site 7 (Y-2 Station 15+47 / 16+00)**

The original proposal was to replace the existing 60 LF 66"x51" CMPA with a 77.77 LF -10'x5' Reinforced Concrete Box Culvert (RCBC). The construction of the culvert requires the closing of Fisher Road for a period of greater than 30 days. A temporary detour (Y-2DET) was permitted to keep Fisher Road open throughout the construction of the 10'x5' RCBC. The temporary detour consisted of a runaround road that had a wetland impact of 0.202 acres and 62.5 feet of stream impacts (UT to Beaver Creek).

The plan revision has eliminated the need for the temporary detour (Y-2DET) by replacing the 60 LF- 66"x51" CMPA with a twin 65 LF -95"x87" CMPA. The change in material allows for the culvert replacement to be completed within a few days instead of the greater than 30 days with the RCBC. The proposed twin 95"x87" CMPA will have a sill at the entrance of one of the culverts.

**This accounts for a decrease of 0.155 acre of temporary fill in wetlands, 0.0087 acre of excavation in wetlands, 0.0374 acre of mechanized clearing, and 0.0051 acre temporary fill in surface waters, and 62.5 linear feet of stream channel impacts. (See attached revised wetland permit summary sheet and permit drawing)**

The design does not compromise NCDOT's compliance with the existing Corps of Engineers permit and Division of Water Quality Certification conditions for the project. The revised project has been evaluated for compliance with the avoidance / minimization criteria and are in compliance with all previous Permit factors, including the following:

- Protected Species
- Cultural Resources
- Aquatic Life Passage

### Summary of Temporary Impacts

The NCDOT respectfully requests a Permit Modification for the USACE Permit #199704287, NCDWQ WQC# 040806 as described in this letter. Five copies of the permit modification request are being provided to the North Carolina Department of Environment and Natural Resources, Division of Water Quality 401 Water Quality Certification. As noted in the subject line, WBS Element 34760.1.1 will be debited for \$475.00 for the permit modification fee.

If you should have any questions or need additional information, please contact Mr. James Rerko, PWS at (910) 437-0208.

A copy of this application will be posted on the NCDOT website at:  
<http://www.doh.dot.state.nc.us/preconstruct/pe/neu/permit.html>

Sincerely



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

cc:w/attachments

Mr. John Hennessey, NCDWQ (5 copies)  
Mr. Gary Jordan, USFWS  
Mr. Travis Wilson, NCWRC  
Mr. Greg Perfetti, P.E., Structure Design

w/o attachments

Mr. Jay Bennett, P.E. Roadway Design  
Mr. Omar Sultan, Programming and TIP  
Ms. Debbie Barbour, P.E., Highway Design  
Mr. David Chang, P.E., Hydraulics  
Mr. Mark Staley, Roadside Environmental  
Mr. Terry Gibson, P.E., Division 6 Engineer  
Mr. James J. Rerko, PWS, Division 6 Environmental Officer  
Mr. Scott McClendon, USACE



### WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS					
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)	
1	-L- 34+90 / 39+57	1 @ 72" RCP	0.699			0.0739	0.0375				201.6	
2	-L- 105+83 / 106+95	2 @ 10' x 13' RCBC w/ 2 @ 72" RCP					0.0825			0.02	279.8	
3	-L- 121+56 / 125+73	1 @ 42" RCP 1 @ 24" RCP	0.6879		0.0133	0.2004	0.0197				164.8	
4	-L- 145+20 / 146+83		0.0713		0.0071	0.0634					169.2	
5	-L- 159+45 / 160+15 -L- 160+45 / 161+91 -L- 162+57 / 163+25		0.0685	0.2429		0.0401					300	
6	-L- 183+85 / 185+08	1 @ 9' x 5' RCBC w/ 1 @ 36" RCP	0.3508			0.0568	0.0302			0.01	269.5	
7	-Y2- 15+47 / 16+00	1 @ 9' x 5' RCBC	0.0017		0.0046	0.0205	0.0084				77.77	
<b>TOTALS:</b>			1.8792	0.2429	0.025	0.5041	0.1861	0	0.03	1452.67	0	

Note:  
Site 5: 0.02ac of permanent wetland impacts due to bridge bent

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
CUMBERLAND COUNTY

PROJECT 8.1442601 (U-0620)  
HOPE MILLS BYPASS  
FROM SR 1141 (BINGHAM DRIVE) TO SR 1363 (ELK ROAD)