



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

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November 7, 2005

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

ATTN: Steve Lund  
NCDOT Coordinator

Subject: **Request for Modification to Nationwide Permit 27 Action Id. 200430806** for the Back Creek Stream Mitigation Site in Mecklenburg County for TIP No. R-967CA, State Project 6.689002T. \$200.00 to Work Order 6.689002T (WBS Element 34355.1.2)

Dear Sir:

Please find enclosed a plan view of the proposed modifications to the Back Creek stream restoration plan. These modifications are proposed to address stream bank stability along Back Creek downstream of the existing design limits to the culvert crossing under I-485. The proposal consists of grading on approximately 80 linear feet of channel bank. This grading will consist of installing a 6-foot minimum bankfull bench per the typical sections shown on the plan sheet. The bankfull bench will be installed on the outside meander bends. Mature trees located on the outside meander bend from Sta. 34+75 to Sta. 35+00 will not be disturbed. On the inside meander bend at approximately Sta. 35+00, the existing bank will be graded on a 4:1 or flatter slope from existing toe to natural ground. This would tie in with the existing point bar. The grading would require removal of one tree and stump located at Sta. 34+75 Left. Two other trees (Sta. 34+70 Right and 34+90 Left) will be cut, but the stumps will remain. Installing the bankfull bench and grading the inside meander bend from Sta. 34+75 to 35+25 will help reduce the stress that is currently on the outside bank.

The section located between Sta. 35+90 to 36+20 would only consist of installing a bankfull bench on the outside bend. The inside bend is stable and requires no work. Installing the bankfull bench on the outside will help reduce the stress on this bank. The Department would also remove a debris jam that is located at Sta. 36+50 that is contributing to some of the instability noted upstream.

