



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

August 25, 2006

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

ATTN: Mr. Steve Lund
NCDOT Coordinator

Subject: Request for Individual Permit Modification for NC 16 from north of SR 1386 in Lincoln County to North of SR 1895 in Catawba County. Federal Aid Project No. STP-F-24-1(34) State Project No. 8.1830501. \$475.00 Debit work order 34383.1.5. TIP Project No. R-2206B/C.

Reference: USACE Individual Permit dated October 7, 2004, Action ID 200420899. NCDWQ Water Quality Certification dated September 21, 2004, Individual WQC No. 3476.

Dear Mr. Lund:

The purpose of this letter is to request modifications to the Clean Water Act (CWA) Section 404 Permit issued by the USACE and the 401 Water Quality Certification issued by the NCDWQ. This project is currently under construction. The North Carolina Department of Transportation (NCDOT) is proposing modifications to Permit Site 10B and 15C.

Permit Site 10B

On June 13, 2006, NCDOT engineers and regulatory agency representatives met on site to discuss alternatives for this site. Those in attendance were Randy Griffin, Jamie Lancaster, Dan Grissom, Larry Carpenter, Neil Trivette, Trish Simon, Steve Lund, and Polly Lespinasse.

At Permit Site 10B NCDOT recommends abandoning the natural channel design downstream of the 2.7 x 1.8 RCBC. This recommendation is based on the saturated conditions present at this location. Previously the site was maintained as a pond. After

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1548 MAIL SERVICE CENTER
RALEIGH NC 27699-1548

TELEPHONE: 919-733-3141
FAX: 919-733-9794

WEBSITE: WWW.NCDOT.ORG

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

draining the pond, the area was undercut to remove the muck from the pond bottom and new material was hauled in. Due to springs located in the area, the new material became saturated thus making it impossible to reach the design typical section of the stream shown in the design plans/permit drawings.

NCDOT proposes to create a 0.48 acre wetland in this area and allow the streamflow to create its own path through the wetland. The wetland will be graded to the elevation 229.5 meters with a grading tolerance of +/- 0.06 meters (6 cm). This elevation was selected based on the existing wetland just downstream of the proposed site. Personnel from the Natural Environment Engineering Group will assist the Resident Engineer's office in ensuring the wetland is graded properly.

Based on the elevation of the culvert and the tie in elevation of the stream, no in stream grade control structures are recommended. The channel that forms through the wetland will be evaluated periodically to determine if any in stream grade control structures are needed.

Once the area has been graded the site will be stabilized with a wetland seed mix and mulch and the following species will be planted on the site from November 15 to March 15:

Green Ash	<i>Fraxinus pennsylvanica</i>
American Sycamore	<i>Platanus occidentalis</i>
Blackgum	<i>Nyssa sylvatica</i> var. <i>sylvatica</i>
River Birch	<i>Betula nigra</i>

As Built

An As Built will be submitted within sixty (60) day of completion of the project. The As-built will document changes in the plan and vegetation plantings from the proposed design.

Monitoring

The following will be performed each year of the 5-year monitoring period: Reference photos, plant survival (i.e., identify specific problems areas (missing, stressed, damaged or dead plantings), estimated causes and proposed/required remedial action) and visual inspection of channel stability. A monitoring report will be submitted within sixty (60) days after completing the monitoring.

All mitigation for the associated impacts of this project were provided by the Ecosystem Enhancement Program. The restored 0.48 acre wetland will be saved as an asset.

Permit Site 15C

At this site NCDOT proposes to restructure part of the existing channel, repair the toe protection, create a floodplain bench, fill the old channel, and armor certain areas to the

water's edge. The impacts associated with these improvements were accounted for in the modification dated 7/26/06. Please refer to the permit drawing provided.

REGULATORY APPROVALS

The NCDOT respectfully requests that the referenced 404 USACE Permit and 401 Water Quality Certification be modified to reflect the revision outlined in this letter. In compliance with Section 143-215.3D(e) of the NCAC, NCDOT will provide \$475 to act as payment for processing the Section 401 certification modification application previously noted in this application (see Subject line). We are providing seven copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality for their review.

Enclosed are copies of the modified permit drawings of the impacted areas.

If you have any questions, concerns, or need any additional information please contact Mr. Chris Underwood at (919) 715-1451.

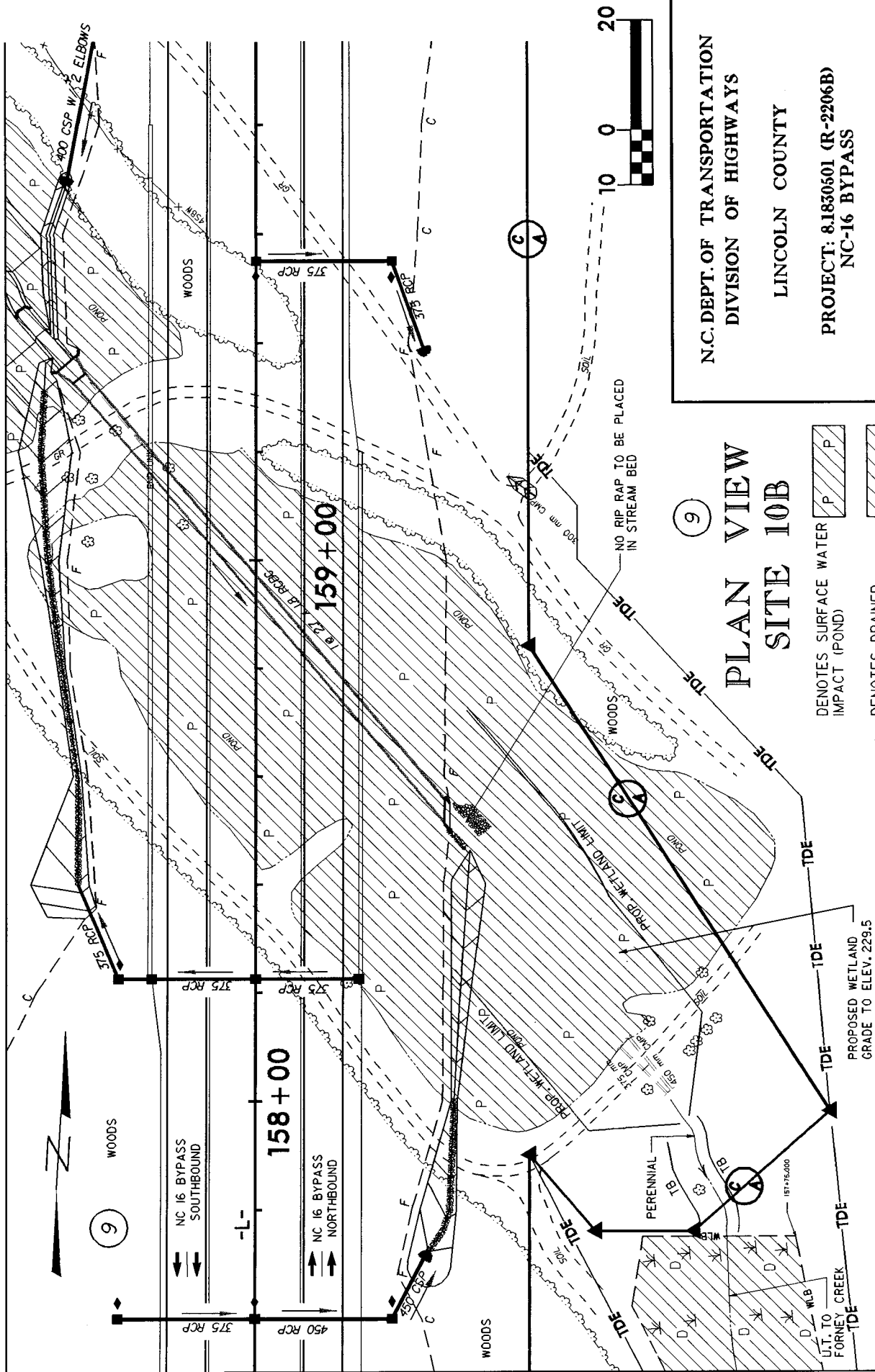
Sincerely,



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

Cc: Mr. John Hennessy, NCDWQ
Ms. Marla Chambers, NCWRC
Ms. Becky Fox, USEPA – Whittier, NC
Mr. Ronald Mikulak, USEPA – Atlanta, GA
Ms. Marella Buncick, USFWS
Mr. John F. Sullivan, III, P.E., FHWA
Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. M. L. Holder, P.E., Division Engineer
Ms. Trish Simon, DEO
Mr. Larry Carpenter, P.E., Resident Engineer
Mr. Scott McLendon, USACE, Wilmington

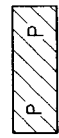
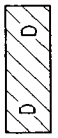
MATCHLINE A-A

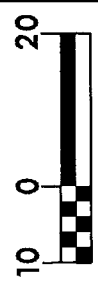


MATCHLINE B-B

9

PLAN VIEW SITE 10B

-  DENOTES SURFACE WATER IMPACT (POND)
-  DENOTES DRAINED WETLANDS



N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

LINCOLN COUNTY

PROJECT: 8.1830501 (R-2206B)
NC-16 BYPASS

SHEET ___ OF ___

6 / 21 / 06

PROJECT REFERENCE NO. E-2203

SHEET NO. 20

R/W SHEET NO. 10

ROADWAY DESIGN ENGINEER

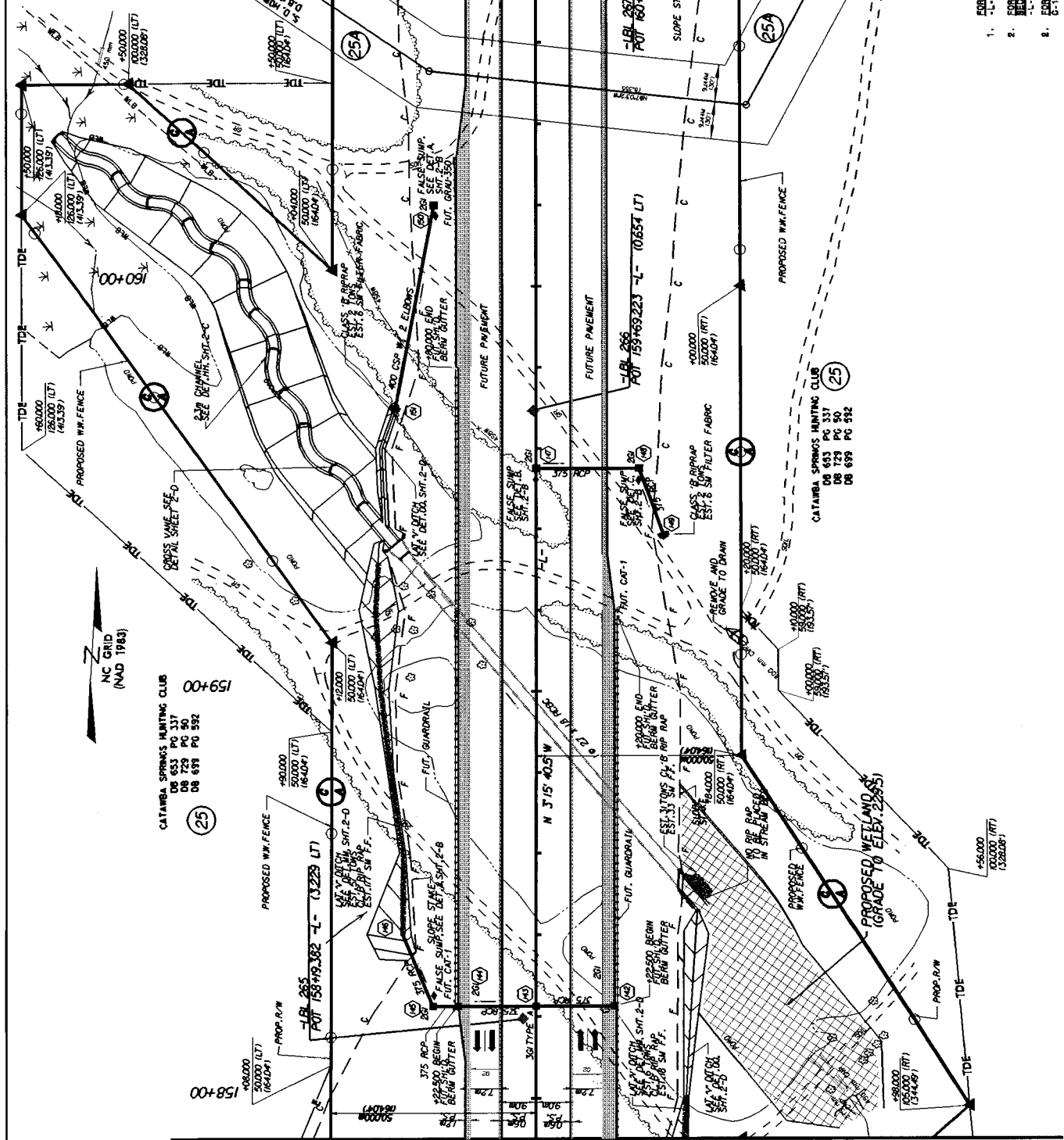
HYDRAULICS ENGINEER

METRIC

COUNTY REV.

R/W REV.

MATCH TO SHEET 21 - STA 161+20.000



NC GRID
(NAD 1983)

CATAMBA SPRINGS HUNTING CLUB
DB 633 PG 337
DB 638 PG 58
DB 639 PG 58

PROPOSED WELANDS
(GRADE TO ELEV. 228.5)

- NOTES**
- FOR PROFILE SEE SHEET NO. 47, 48
 - FOR CROSS SECTION SEE SHEET NO. X-102 THRU X-107
 - FOR R.T. & L.B. RING SEE SHEET NO. G-12 THRU G-17

MATCH TO SHEET 19 - STA 157+90.000

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SUBJECT _____

PROJECT R-2200C 15C

DIVISION OF HIGHWAYS

HIGHWAY BUILDING

P. O. BOX 25201

RALEIGH, NORTH CAROLINA 27611

PREPARED BY _____

DATE _____

STATION _____

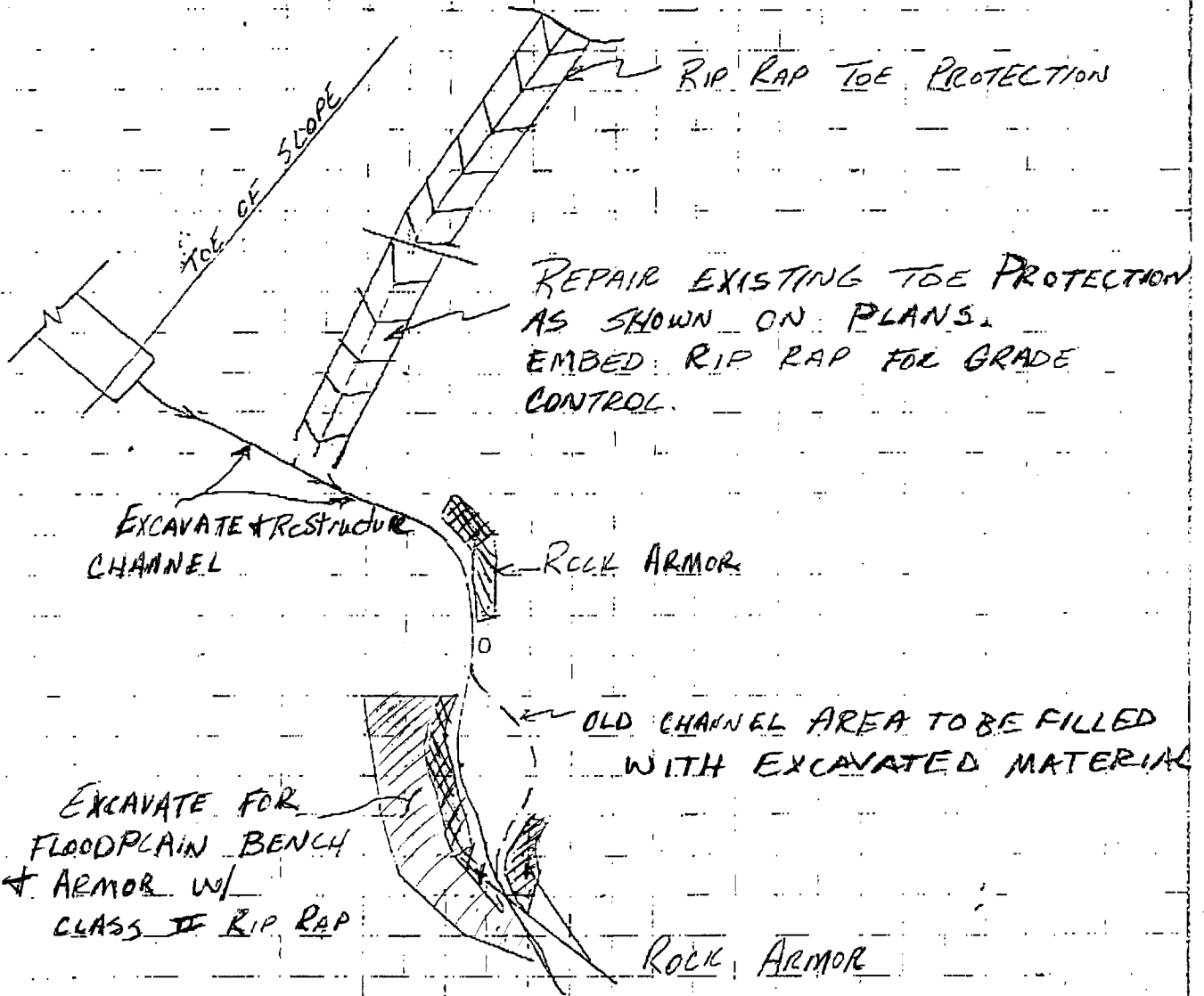
CHECKED BY _____

DATE _____

STR NO. _____

SHEET _____

COUNTY _____



Post-It® Fax Note	7671	Date	6/21/06	# of pages	2
To	Chris Underwood	From	Trish Simon		
Co./Dept.		Co.	DIV. 12		
Phone #		Phone #			
Fax #	919-715-1501	Fax #			

NOT TO SCALE



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

August 24, 2006

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

old

ATTN: Mr. Steve Lund
NCDOT Coordinator

Subject: Request for Individual Permit Modification for NC 16 from north of SR 1386 in Lincoln County to North of SR 1895 in Catawba County. Federal Aid Project No. STP-F-24-1(34) State Project No. 8.1830501. \$475.00 Debit work order 34383.1.5. TIP Project No. R-2206B/C.

Reference: USACE Individual Permit dated October 7, 2004, Action ID 200420899. NCDWQ Water Quality Certification dated September 21, 2004, Individual WQC No. 3476.

Dear Mr. Lund:

The purpose of this letter is to request modifications to the Clean Water Act (CWA) Section 404 Permit issued by the USACE and the 401 Water Quality Certification issued by the NCDWQ. This project is currently under construction. The North Carolina Department of Transportation (NCDOT) is proposing modifications to Permit Site 10B.

Permit Site 10B

At Permit Site 10B NCDOT recommends abandoning the natural channel design downstream of the 2.7 x 1.8 RCBC. This recommendation is based on the saturated conditions present at this location. Previously the site was maintained as a pond. After draining the pond, the area was undercut to remove the muck from the pond bottom and new material was hauled in. Due to springs located in the area, the new material became saturated thus making it impossible to reach the design typical section of the stream shown in the design plans/permit drawings.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1548 MAIL SERVICE CENTER
RALEIGH NC 27699-1548

TELEPHONE: 919-733-3141
FAX: 919-733-9794

WEBSITE: WWW.NCDOT.ORG

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

NCDOT proposes to create a 0.48 acre wetland in this area and allow the streamflow to create its own path through the wetland. The wetland will be graded to the elevation 229.5 meters with a grading tolerance of +/- 0.06 meters (6 cm). This elevation was selected based on the existing wetland just downstream of the proposed site. Personnel from the Natural Environment Engineering Group will assist the Resident Engineer's office in ensuring the wetland is graded properly.

Based on the elevation of the culvert and the tie in elevation of the stream, no in stream grade control structures are recommended. The channel that forms through the wetland will be evaluated periodically to determine if any in stream grade control structures are needed.

Once the area has been graded the site will be stabilized with a wetland seed mix and mulch and the following species will be planted on the site from November 15 to March 15:

Green Ash	<i>Fraxinus pennsylvanica</i>
American Sycamore	<i>Platanus occidentalis</i>
Blackgum	<i>Nyssa sylvatica</i> var. <i>sylvatica</i>
River Birch	<i>Betula nigra</i>

As Built

An As Built will be submitted within sixty (60) day of completion of the project. The As-built will document changes in the plan and vegetation plantings from the proposed design.

Monitoring

The following will be performed each year of the 5-year monitoring period: Reference photos, plant survival (i.e., identify specific problems areas (missing, stressed, damaged or dead plantings), estimated causes and proposed/required remedial action) and visual inspection of channel stability. A monitoring report will be submitted within sixty (60) days after completing the monitoring.

All mitigation for the associated impacts of this project were provided by the Ecosystem Enhancement Program. The restored 0.48 acre wetland will be saved as an asset.

REGULATORY APPROVALS

The NCDOT respectfully requests that the referenced 404 USACE Permit and 401 Water Quality Certification be modified to reflect the revision outlined in this letter. In compliance with Section 143-215.3D(e) of the NCAC, NCDOT will provide \$475 to act as payment for processing the Section 401 certification modification application previously noted in this application (see Subject line). We are providing seven copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality for their review.

Enclosed are copies of the modified permit drawings of the impacted areas.

If you have any questions, concerns, or need any additional information please contact Mr. Chris Underwood at (919) 715-1451.

Sincerely,

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

Cc: Mr. John Hennessy, NCDWQ
Ms. Marla Chambers, NCWRC
Ms. Becky Fox, USEPA – Whittier, NC
Mr. Ronald Mikulak, USEPA – Atlanta, GA
Ms. Marella Buncick, USFWS
Mr. John F. Sullivan, III, P.E., FHWA
Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. M. L. Holder, P.E., Division Engineer
Ms. Trish Simon, DEO
Mr. David Franklin, USACE, Wilmington
Mr. Larry Carpenter, Resident Engineer