



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

July 30, 2004

NC Department of Water Quality
2321 Crabtree Blvd., Suite 250
Raleigh, NC 27604

ATTENTION: Mr. John Hennessy
NCDOT Coordinator

Subject: **Tar-Pamlico Buffer Certification Modification Application** for the Replacement of Bridge No. 72 over Hachers Run on SR 1004, Granville County. Federal Aid Project No. No. BRSTP-1004(7), State Project No. 8.2370901, NCDOT Division 5, TIP Project No. B-3643.

Dear Mr. Hennessy:

On April 27, 2004 and November 23, 2004 the USACE issued a NW 23 and the DWQ issued a Buffer Certification for the above referenced project. Revisions were made to the construction plans after the Buffer Certification was issued and before the Nationwide 23 Permit was issued. The purpose of this letter is to request a modification to the original buffer certification. The revised sheets of the original permit drawings are attached.

The changes outlined in this modification application do not compromise NCDOT's compliance with the existing permit conditions. The location of the Preformed Scour Holes (PSH) and the lateral ditches associated with these 3 PSHs in the northeast, northwest and southwest quadrants has changed. The PSHs and lateral ditches have been moved out of the wetlands. Impacts to the wetlands have not changed. Additional area will also be required to allow access of construction equipment. Impacts to Tar-Pamlico riparian buffers have increased in Zone 1 from 1,811ft² to 3,241ft² and Zone 2 from 1,367ft² to 2,072ft² to allow access of construction equipment.

Regulatory Approvals

The NCDOT Request that the DWQ modify the Tar Pamlico Buffer Certification issued on November 24, 2004. A copy of this permit application will be posted on the DOT website at: <http://www.ncdot.org/planning/pe/naturalunit/permit.html>.

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

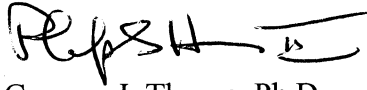

TELEPHONE: 919-733-3141
FAX: 919-733-9794

WEBSITE: WWW.NCDOT.ORG

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

If you have any questions or need additional information, please contact Brett Feulner at (919) 715-1488.

Sincerely,


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

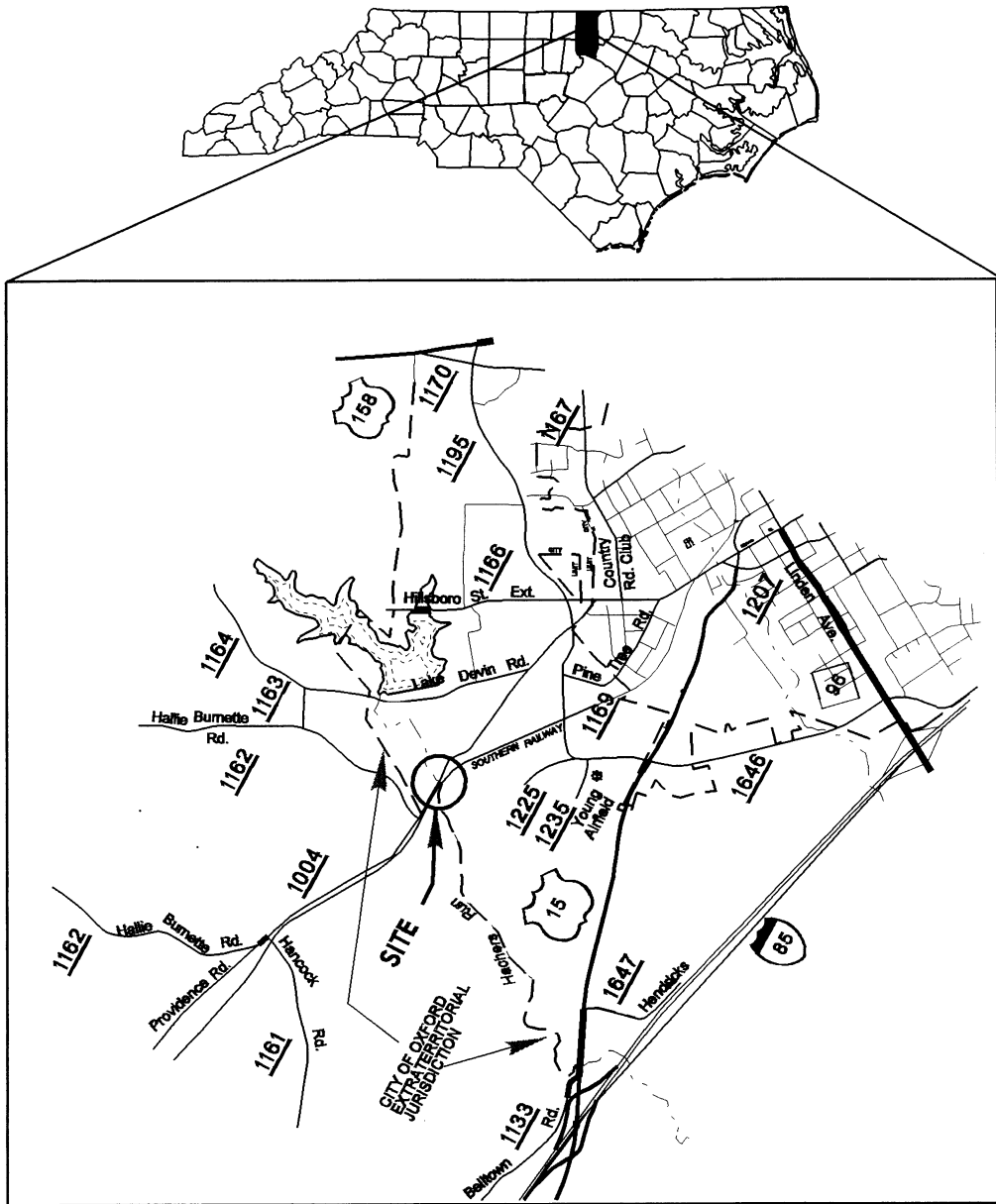
w/ attachment

Mr. Eric Alsmeyer, USACE
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Mr. Greg Perfetti, P.E., Structure Design
Mr. David Chang, P.E., Hydraulics
Mr. Jon Nance, P.E., Division 11
Mr. Chris Murray, DEO

w/o attachment

Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Mr. Art McMillan, PE, Highway Design
Mr. Mark Staley, Roadside Environmental
Ms. John Conforti, PDEA
Mr. David Franklin, USACE, Wilmigton

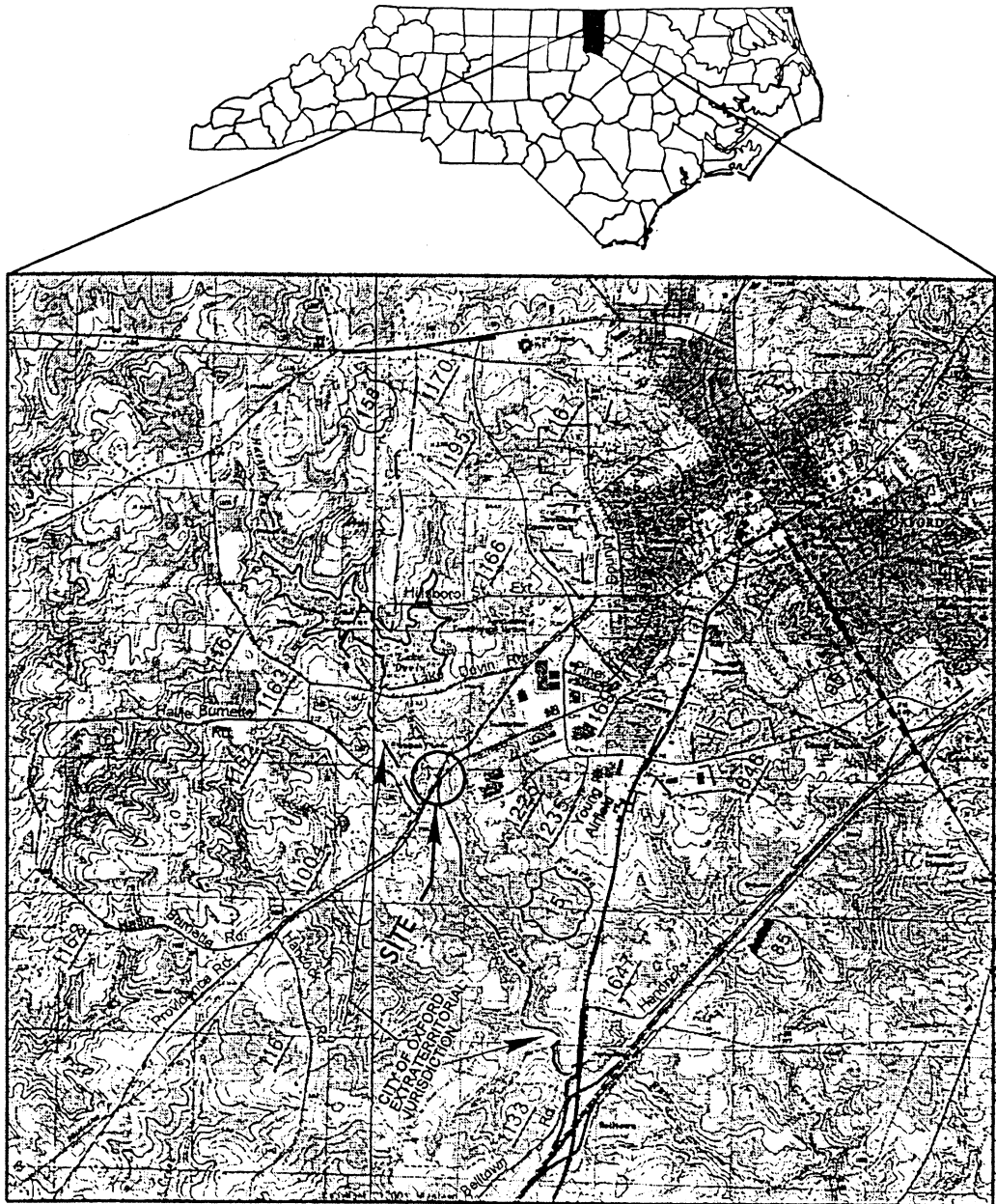
VICINITY MAP



BUFFER

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
GRANVILLE COUNTY
PROJECT: 8.2370901 (B-3643)
BRIDGE NO. 72
OVER HACHERS RUN
ON SR 1004
SHEET 1 OF 8 7/04

VICINITY MAP



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

PROJECT: 8.2370901 (B-3643)

BRIDGE NO. 72

OVER HACHERS RUN

ON SR 1004

SHEET

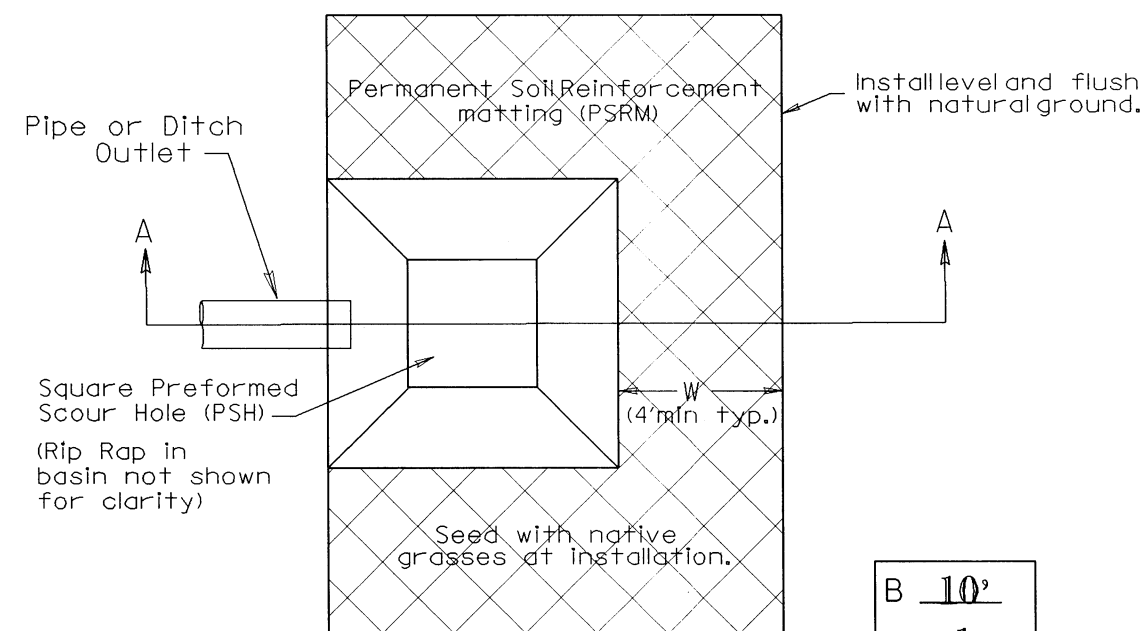
2 OF 8

7104

PREFORMED SCOUR HOLE WITH LEVEL SPREADER APRON

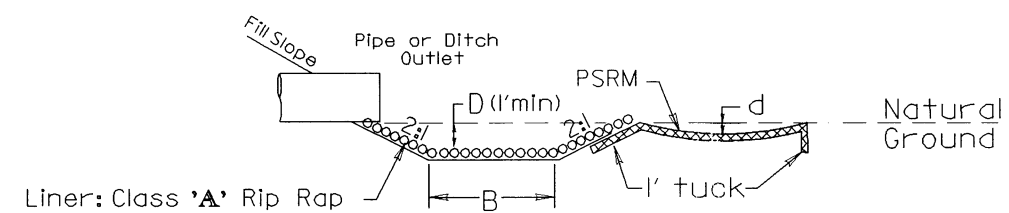
3 of 8

PLAN VIEW



SECTION A-A

B	10'
D	1'
W	4'
d	0.5'



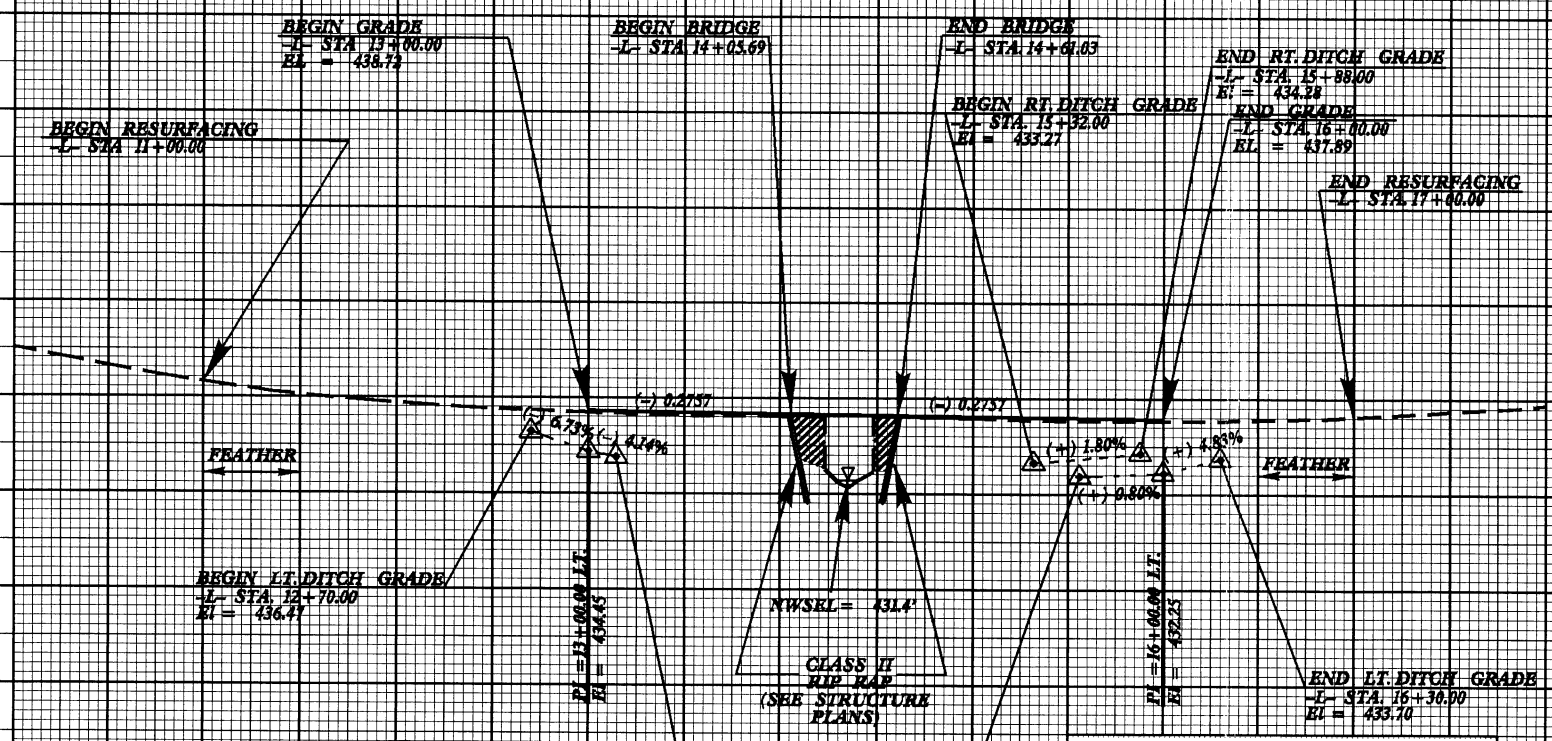
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PROJECT REFERENCE NO.	SHEET NO.
B-3643	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
7164	Sheet 6 of 8

-L-

BM# 1 N 38° 38' 10.1"E 735.63' TO -L- STA 10+00.00
 NAIL SET IN 24" PINE TREE
 ELEV. 439.55'

BM# 2 -L- STA 15+28.69 161.83' (LT)
 NAIL SET IN 24" GUM TREE
 ELEV. 434.72'



DITCH LEGEND

LEFT DITCH	-----
RIGHT DITCH	-----

NOTES:

- SEE SHEET 4 FOR PLAN VIEW.
- SEE SHEETS S-1 THRU S-17 FOR STRUCTURE PLANS.
- END BENT EXCAVATION (ROADWAY PAY ITEM)

21" CORED SLAB
 1 @ 55' SPAN
 SKEW = 105°00'00"
 @ -L- STA. 14+33.31

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 700 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 436.1 FT
BASE DISCHARGE	= 1050 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 437.3 FT
OVERTOPPING DISCHARGE	= 1320 CFS
OVERTOPPING FREQUENCY	= 200+ YRS
OVERTOPPING ELEVATION	= 438.3 FT
ESTIMATED NORMAL WATER SURFACE ELEVATION	= 431.4 FT
DATE OF SURVEY	= 8/2002

10 11 12 13 14 15 16 17 18

PROPERTY OWNER

NAME AND ADDRESS

OWNER'S NAME

ADDRESS

WALLACE BOWLING

108 SHADOW DRIVE
CARY, NC 27511

MARK ELLINGTON

521N. COUNTRY CLUB DRIVE
OXFORD, NC 27565

**N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
GRANVILLE COUNTY**

PROJECT: 8.2370901 (B-3643)

BRIDGE NO. 72

7104 OVER HACHERS RUN
ON SR 1004

SHEET 8 OF 8

