



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

February 9, 2012

MEMORANDUM TO: Mr. Michael Pettyjohn, PE
Division 11 Engineer

FROM: Philip S. Harris, III, P.E., Unit Head
Natural Environment Unit
Project Development and Environmental Analysis Branch

SUBJECT: Ashe County, Widening of NC 88 from NC 194 to US 221
Business (South Main Street); Federal Aid Project STP-0088(6);
WBS 34977.1.1; **TIP Project U-3812**

A handwritten signature in black ink, appearing to read "E. S. Fush".

Attached are the modifications to the U.S. Army Corps of Engineers Section 404 Individual Permit and the N.C. Division of Water Quality Section 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

A copy of this permit package will be posted on the NCDOT website at:
<http://www.ncdot.gov/doh/preconstruct/pe/neu/permit.html>

Cc: w/o attachment (see website for attachments):

Mr. Randy Garris, P.E. State Contract Officer
Mr. Heath Slaughter, Division Environmental Officer
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Jay Bennett, P.E., Roadway Design Unit
Mr. Dewayne Sykes, P.E. Utilities Unit
Dr. David Chang, P.E., Hydraulics Unit
Mr. Tom Koch, P.E., Structure Design Unit
Mr. Mark Staley, Roadside Environmental Unit
Mr. Ron Hancock, P.E., State Roadway Construction Engineer
Mr. Mike Robinson, P.E., State Bridge Construction Engineer
Ms. Teresa Hart, P.E., PDEA Western Section
Mr. Clarence Coleman, FHWA
Ms. Beth Harmon, EEP
Mr. Phillip Ayscue, NCDOT External Audit Branch

PROJECT COMMITMENTS

T.I.P Project No. U-3812
Widening of NC 88 from NC 194 to US 221
Business (South Main Street) in Ashe County
Federal Aid Project No. STP-0088(6)
WBS Element 34977.1.1

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

Bicycle and Pedestrian Division, & Division 11

McFarland Publishing Company owns two buildings opposite one another on NC 88. Operations require that their employees cross NC 88 on a daily basis. The Bicycle and Pedestrian Division will study pedestrian access for the McFarland Publishing Company.

This issue was addressed at a project meeting on May 14, 2008 (see part VI.C of the FONSI). The final resolution for this issue (which was agreed upon by Bike and Pedestrian Division, Division 11 and the Town of Jefferson) was as follows:

- The speed limit will be lowered from 45 to 35 mph.
- A triangular pedestrian crossing sign will be installed on the westbound side of NC 88 (the eastbound side did not warrant a sign because of the reduced speed from steep grade and long sight distance.)
- No crosswalk markings will be installed.
- No further studies or pedestrian counts are required.

The pedestrian warning sign was installed on July 25, 2008, while the speed limit signs lowering the speed limit were installed on August 3, 2009. This commitment has been completed.

The Town of Jefferson is currently developing a Pedestrian Plan that includes recommendations for sidewalk on one side of NC 88 within the town limits. The Bicycle and Pedestrian Division will continue coordination with the Town of Jefferson regarding their plan and sidewalk on NC 88.

The final resolution for the sidewalks from the meeting on May 14, 2008 (see part VI.C of the FONSI) was the following: the sidewalks will be installed on the south side of NC 88, from the intersection of North Main Street to the Town limits and end at the 3-lane curb and gutter section at Lawson Lane. The Town also requested that the north side of NC 88 provide an adequate road shoulder and driveway curb cut that will accommodate a sidewalk when installed in the future. NCDOT agreed to these resolutions and funding for the sidewalks would be in accordance with the NCDOT Pedestrian Policy Guidelines. The Bicycle and Pedestrian Division, Roadway Design Unit and Division 11, will continue coordination with the Town of Jefferson regarding their plan and sidewalk on NC 88.

No change.

Geotechnical Engineering Unit

The GeoEnvironmental Section of the Geotechnical Engineering Unit will conduct assessments, prior to right of way acquisition, on three sites that formerly operated USTs. In addition to the above, an assessment will also be conducted on a newly identified UST located adjacent to the proposed right of way on Parcel 4 (Paddy Mountain Lumber, Inc.).

The GeoEnvironmental Section has completed assessments on four UST sites and has sent out right of way recommendations to the Right of Way Branch on the sites. This commitment has been completed.

HEU (Architectural & Archaeology), Roadway Design Unit & Construction Unit/Division 11

The Joseph Benjamin Neal House is eligible for the National Register of Historic Places. The proposed National Register Boundary includes the entire property parcel. The Roadway Design Unit will coordinate with the Historic Architecture Group during final design regarding realignment of the driveway to minimize impacts to and maintain the existing character of the Neal Property. The Construction Unit will coordinate with the Historic Architecture Group during the Preliminary Field Inspection regarding construction limits and methods for clearing, grading, and road construction activities to minimize impacts to and maintain the existing character of the Neal Property.

In addition to the above, based on the Historical Effects Meeting held on July 14, 2009 and an additional NCDOT meeting on August 20, 2009, no construction activities or additional permanent easements (utility, drainage, etc.) can extend outside of the proposed right of way on the Neal Property. The only exception to this is in the area of the stream relocation where a temporary construction easement is needed and a 30-foot wide conservation easement for mitigation credits might be acquired (see Figure 1 and Figure 2). Since the conservation easement will include restoring and improving the adjacent landscape with natural plantings, HEU views this as an improvement so an additional formal effects meeting will not be required. A landscape design plan will be submitted to HEU for approval. The 30-foot conservation easement is still dependent on the current historic property owner agreeing to let NCDOT acquire it and will also need to be approved by the Division of Water Quality.

The 30-foot conservation easement and commitments associated with it are no longer valid since the property owner did not agree to let NCDOT acquire the easement. The other commitments are still valid. There is a retaining wall across from the historic property that will require a surface treatment. A stained medium to dark gray color, simulated rock architectural finish (specifically, "Drystack pattern number 1208" or equivalent as approved by the Engineer and NCDOT architectural historian) is required for the cast-in-place reinforced concrete face. There will be no barrier in front of the retaining wall, and the fencing along the top of the retaining wall is to be a black vinyl chain-link fence.

Additional archaeological testing will be required if construction is to take place outside of the Area of Potential Effects (APE) in the vicinity of the Joseph Benjamin Neal House (National-Register-Eligible Property) as established during the 2001 Archaeological Survey. The APE

evaluated was approximately 180 feet wide and centered on the existing centerline of NC 88. The Construction Unit will coordinate with the Archaeology Group during the Preliminary Field Inspection regarding the location of construction limits, staging areas, and easements, and notify the Archaeology Group if construction activities are planned to extend beyond the APE in the vicinity of the Neal Property. If warranted, the Archaeology Group will conduct additional survey and testing activities in those areas, and update their conclusions and recommendations as needed.]

Based on review of the current design plans, all of the proposed construction activities still fall within the APE that was investigated in 2001 as part of the original archaeological survey. There should be no further archaeological work required unless the design plans change, at which point additional consultation with the Archaeology Group would be necessary. This project commitment has been completed.

Hydraulics Unit, Roadside Environmental Unit & Construction Unit

"Best Management Practices for the Protection of Surface Waters" will be incorporated into design and construction.

"Design Standards in Sensitive Watersheds" will be incorporated into design and construction due to the potential for project runoff to Little Buffalo Creek, which is designated as "Trout Waters" by the Division of Water Quality.

No change.

Hydraulics Unit & Division Construction Unit

The Hydraulics Unit will coordinate with FEMA and local authorities in final design to facilitate the floodway revision process and to ensure compliance with applicable floodplain ordinances.

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

All of the above commitments with FEMA and the FMP have been completed, except for the final LOMR. The final LOMR will be completed once the as-built plans are received by the Hydraulics Unit.

HEU (Noise & Air Quality Group)

The Noise & Air Quality Group will conduct an updated Traffic Noise Analysis, using TNM 2.5, after the "Date of Public Knowledge" as defined in the NCDOT Traffic Noise Abatement Policy.

Both the Traffic Noise Analysis and Air Analysis reports were updated in May of 2008. The Noise Analysis report was performed utilizing the FHWA traffic Noise Model software (TNM 2.5) to predict future noise levels and impacted receptors for NCDOT's recommended alternative, Build Alternate 4. A summary of the findings of these reports are provided in part VII.F of the FONSI, while the full reports are in Appendix 8 of the FONSI. This commitment has been completed.

No change.

COMMITMENTS FROM PERMITTING

Natural Environment Unit

Compensatory mitigation for the unavoidable impacts to 636 linear feet of stream and 0.19 acre of riparian wetland impact associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated November 22, 2011 from William D. Gilmore, EEP Director. Pursuant to the In-Lieu-Fee Instrument signed July 28, 2010, between the State of North Carolina, Ecosystem Enhancement Program and the US Army Corps of Engineers the EEP will provide 1,272 linear feet of restoration equivalent cold water stream channel and 0.38-acre of riparian wetland restoration equivalent in the New River basin (Hydrologic Cataloging Unit 05050001) in accordance with Section F of the instrument. For wetlands, a minimum of 1:1 (impact to mitigation) must be in the form of wetland restoration.

Division 11 Construction/Human Environment Unit- Historic Architecture

NCDOT shall abide by all conditions identified in the Concurrence Form for Assessments of Effects, dated December 13, 2011, signed by the North Carolina State Historic Preservation Officer, NCDOT, and FHWA. A copy of this form is attached to the USACE Section 404 Permit and is identified as Exhibit E. These commitments allow for a "No adverse effect with commitments" finding on the Joseph Neal House, deemed eligible for listing in the National Register of Historic Places. The referenced commitments are described in detail on Page 2 of Exhibit E, within the "Reasons" column of the table.

Division 11 Construction

At Sites 1, 2, and 3 pipe burial is not required. At Site 4, placement of the culvert shall be placed below elevation of the streambed by one foot to allow low flow passage of water and aquatic life. Also three concrete sills with alternating four-foot long notches shall be installed as detailed in the permit application. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in disequilibrium of wetlands or streambeds or banks, adjacent to or upstream and downstream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWQ for guidance on how to determine whether a permit modification is required.

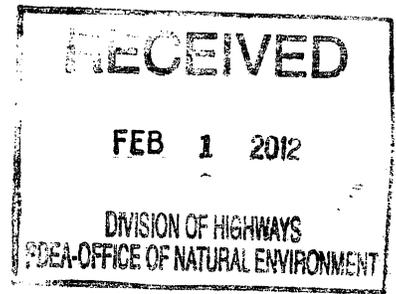
For the 110 linear feet of streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and vegetated with appropriate native species.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

January 30, 2012



Regulatory Division

Action ID: SAW-2001-20061

Dr. Gregory Thorpe
Planning and Environmental Branch
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, NC 27699-1598

Dear Dr. Thorpe:

Reference the Department of the Army (DA) permit issued on November 16, 2011, which authorized the placement of fill material into 623 linear feet of streams and 0.19 acres of wetlands. Additional temporary impacts to 0.01-acre of water was also authorized to facilitate the widening and improving of NC 88 (West Main Street) between NC 194 and US 221 Business (South Main Street) at Jefferson in Ashe County, North Carolina. This project was identified as TIP U-3812.

Reference is also made to a letter from you dated December 22, 2011, requesting modification to the aquatic impacts, plans, and subsequent compensatory mitigation at Site #4 within your DA permit. You have requested a total increase in permanent impacts of 13 linear feet of stream channel and a decrease in temporary stream impacts of 13 linear feet due to an error in your original field notes. Modified plans for this site also were attached to your December 22, 2011, letter.

We have completed our evaluation of your request and concur with your request for a change in impacts, plans, and mitigation associated with your referenced DA permit. Please note that "*Special Condition, b*" of your permit is modified to read:

All work authorized by this permit must be performed in strict compliance with the attached plans, Exhibit B, and Exhibit D which are part of this permit. These plans reflect the original proposal, Exhibit B; and the modification request of December 22, 2011, as shown in Exhibit D. Only the attached modification plans reflect approved changes to the original plans, therefore any additional deviations from the original plans are not approved per this modification and any further modification to the plans must be approved by the US Army Corps of Engineers (USACE) prior to implementation.

In addition, please note that "*Special Condition, f*" of your permit is modified to read:

Compensatory mitigation for the unavoidable impacts to 636 linear feet of stream and 0.19 acre of riparian wetland impact associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated November 22, 2011, from William D. Gilmore, EEP Director. Pursuant to the In-Lieu-Fee Instrument signed July 28, 2010, between the State of North Carolina, Ecosystem Enhancement Program and the US Army Corps of Engineers the EEP will provide 1,272 linear feet of restoration equivalent cold water stream channel and 0.38-acre of riparian wetland restoration equivalent in the New River basin (Hydrologic Cataloging Unit 05050001) in accordance with Section F of the instrument. For wetlands, a minimum of 1:1 (impact to mitigation) must be in the form of wetland restoration.

Finally, "*Special Condition, w*" of your permit is modified to read:

NCDOT shall abide by all commitments identified in the Concurrence Form for Assessment of Effects, signed by the North Carolina State Historic Preservation Officer, NCDOT, and FHWA on December 13, 2011. A copy of this form is attached and identified as Exhibit E. These commitments allow for a 'no adverse effect with commitments' finding on the Joseph Neal House, deemed eligible for listing in the National Register of Historic Places. The referenced commitments are described in detail on page 2 of Exhibit E, within the 'Reasons' column of the table.

It is understood that all other conditions of the permit, including the permit expiration date, remain applicable. Should you have questions, contact Mr. Monte Matthews, Raleigh Regulatory Field Office at telephone (919) 554-4884, Extension 30.

Sincerely,


FOR Steven A. Baker
Colonel, U.S. Army
District Commander

Attachments

Copy Furnished: (w/attachment)

Mr. Heath Slaughter
NCDOT, Division 11
Post Office Box 250
North Wilkesboro, North Carolina 28659

Copy Furnished: (w/o attachment)

Mr. Amy Euliss
North Carolina Department of
Environmental and Natural Resources
585 Waughtown Street
Winston-Salem, North Carolina 27107

EXHIBIT B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

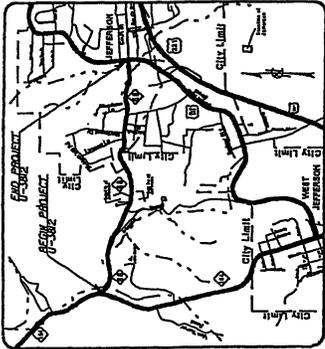
ASHE COUNTY

WETLAND AND STREAM IMPACTS

RECEIVED

MAY 13 2011

Regulatory Branch



VICINITY MAP



BEGIN PROJECT U-3812
-L- POT Sta. 10+00.00 =
-Y- POC Sta. 14+21.3

END PROJECT U-3812
-L- POT STA. 86+80

CLEANING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF JEFFERSON.

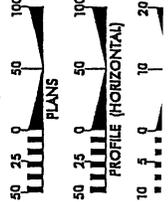


Permit Drawing Sheet 1 of 14

DESIGN DATA

ADT 2009 = 8,700
ADT 2030 = 13,300
DHY = 12 %
D = 60 %
T = 6 %
V = 50 MPH (Rural)
V = 35 MPH (Urban)

GRAPHIC SCALES



PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT U-3812 = 1.492 MILES
LENGTH ROADWAY F.A. PROJECT STP-88 (2) = 1.492 MILES
TOTAL ROADWAY LENGTH STATE PROJECT U-3812 = 1.492 MILES

Prepared in the Office of

DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh, NC, 27619

HYDRAULICS ENGINEER

J. S. GOODNIGHT, PE
PROJECT ENGINEER

ROADWAY DESIGN ENGINEER

S. D. KENDALL, PE
PROJECT DESIGNER

ISSUING DATE:
December 20, 2011

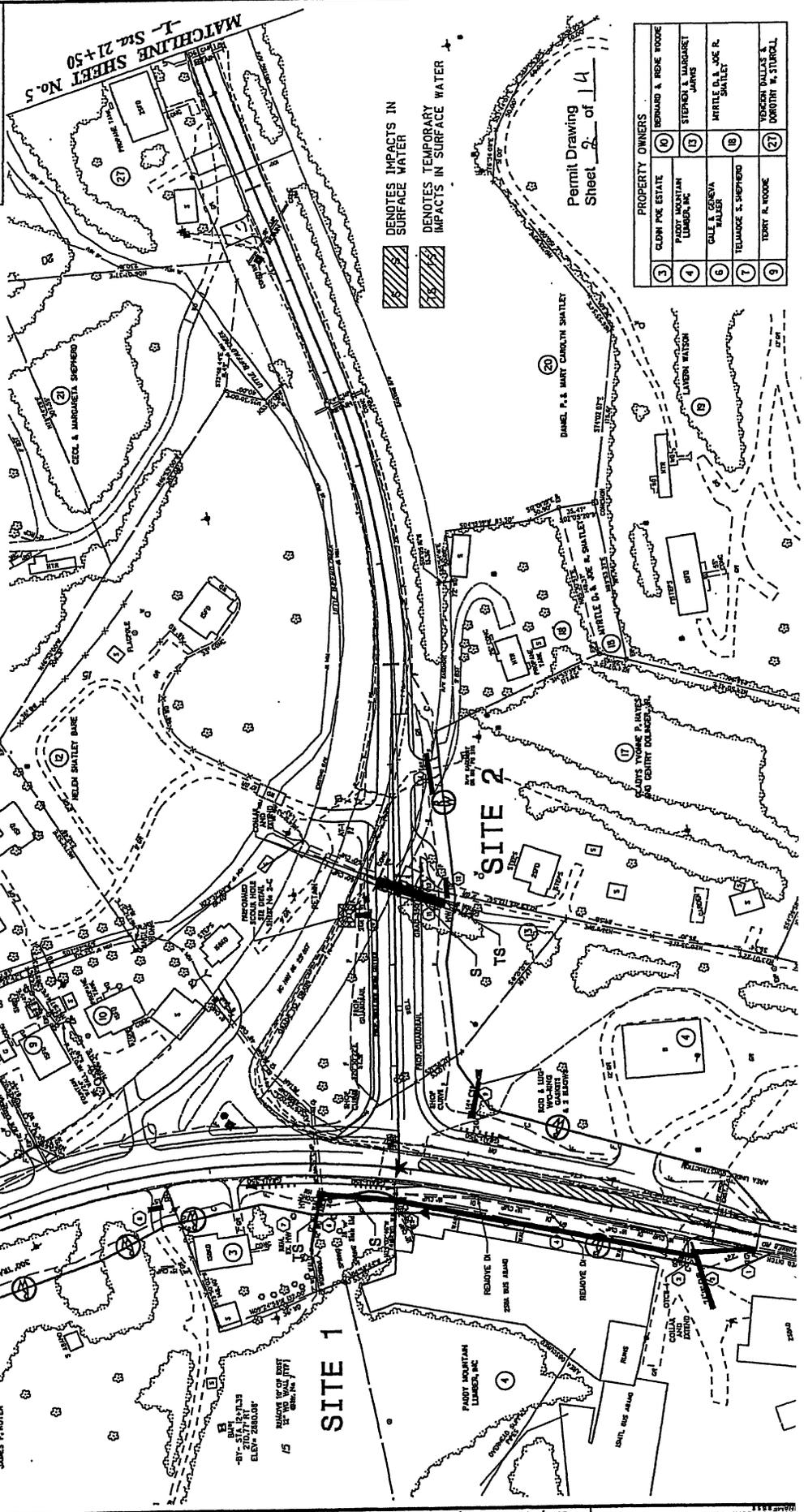
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



TIP PROJECT: U-3812

CONTRACT: 34977.2.1

PROJECT PERMIT NO. U-3812	SHEET NO. 4
ARCHITECT MCKAY, CHURCH ENGINEERS	HYDRAULICS ENGINEER
SEE SHEET No. 2-G FOR DRAINAGE DETAILS	SEE SHEET No. 10 FOR -L- PROFILES SEE SHEET No. 11 FOR -X- PROFILES
PROPOSED STORM (DWP)	PROPOSED PAYMENT REMOVAL
★	PROPOSED SHOULDER BERM OUTER -L- 36" WIDE TO 34" WIDE 12"



8/17/99

LETTER DATED JUNE 08, 2010 BY: S. MEADOWS

RW REVISION:

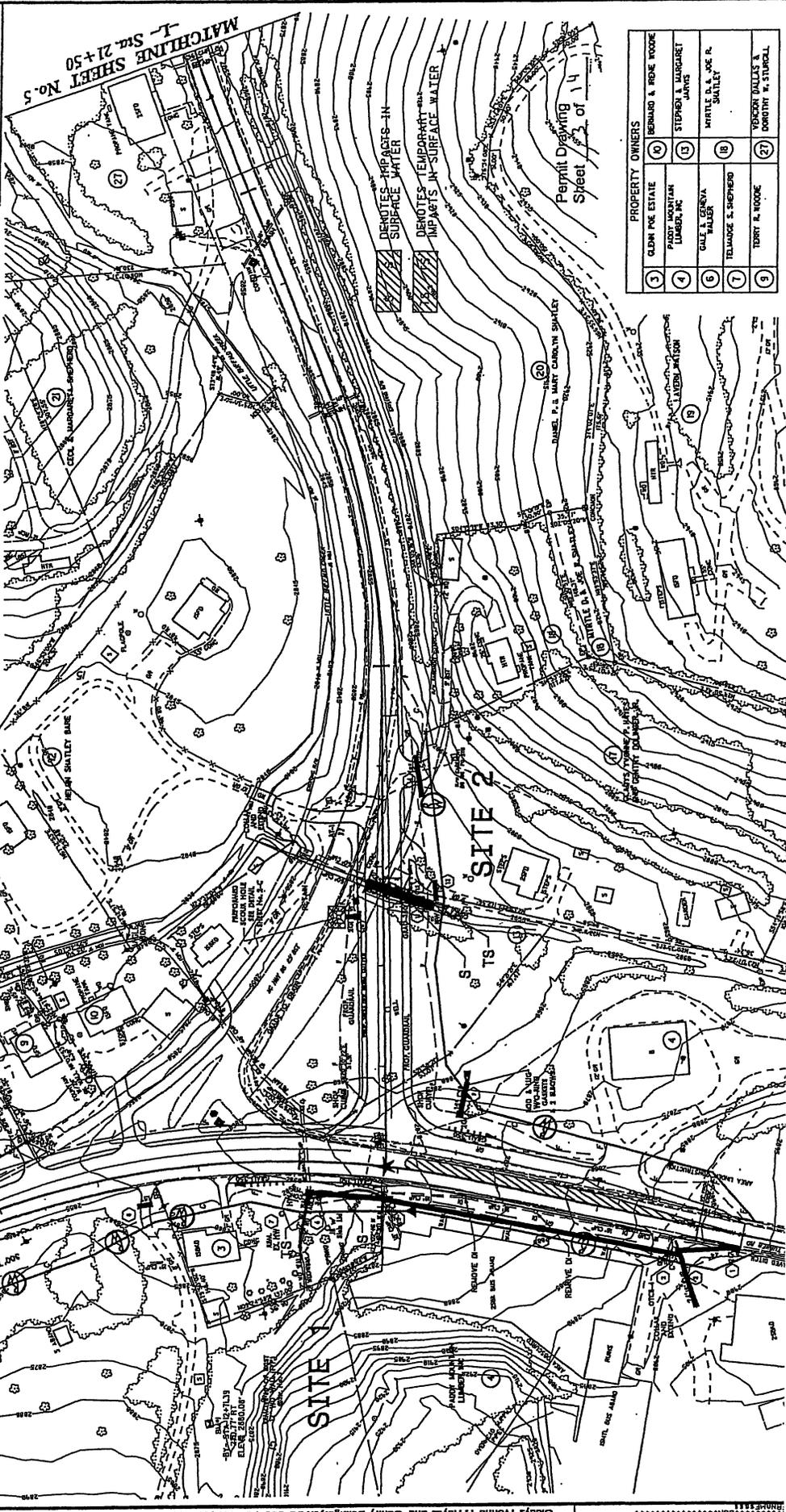
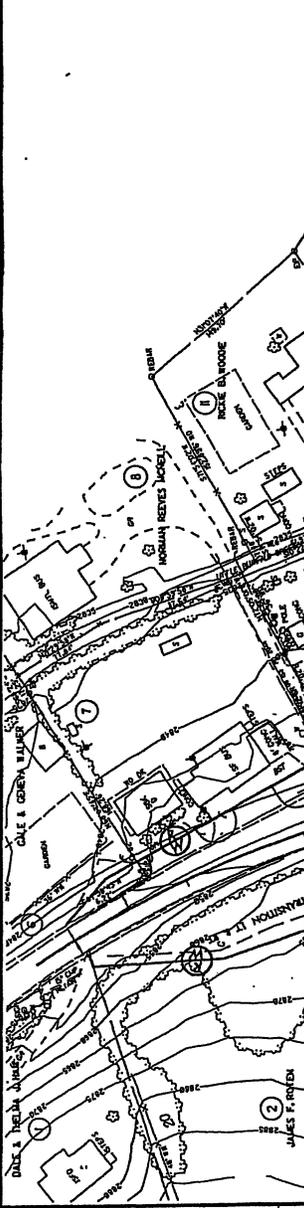
1. Removed abandoned building from Parcel No. 002.
2. Changed name from Glenn & Lena Fox to Glenn Fox Estate on Parcel No. 002.
3. Changed name from Talmadge S. Shepherd to Talmadge S. Shepherd on Parcel No. 007.
4. Changed name from Talmadge S. Shepherd to Talmadge S. Shepherd on Parcel No. 007.
5. Changed name and DBFC info from Gladys Yvonne P. Hayes, DB 188 PG 570 to Gladys Yvonne P. Hayes and Gentry Dolinger, Jr. DB 308 PG 361 Parcel No. 017.

PROJECT REFERENCE NO.	1-312
DATE	7-1-83
ADVISOR	HYDRAULICS ENGINEER
CLIENT	INDIANA HIGHWAY DEPARTMENT
PROJECT DESCRIPTION	PROPOSED SHOULDER AREA OUTLET
PROJECT LOCATION	Sta. 18+48 TO Sta. 23+57

SEE SHEET No. 1-4 FOR I-PROFILES
SEE SHEET No. 1-5 FOR Y-PROFILES
FOR DRAINAGE DETAILS

★ PROPOSED SIGNAL (NEW)

PROPOSED SHOULDER AREA OUTLET



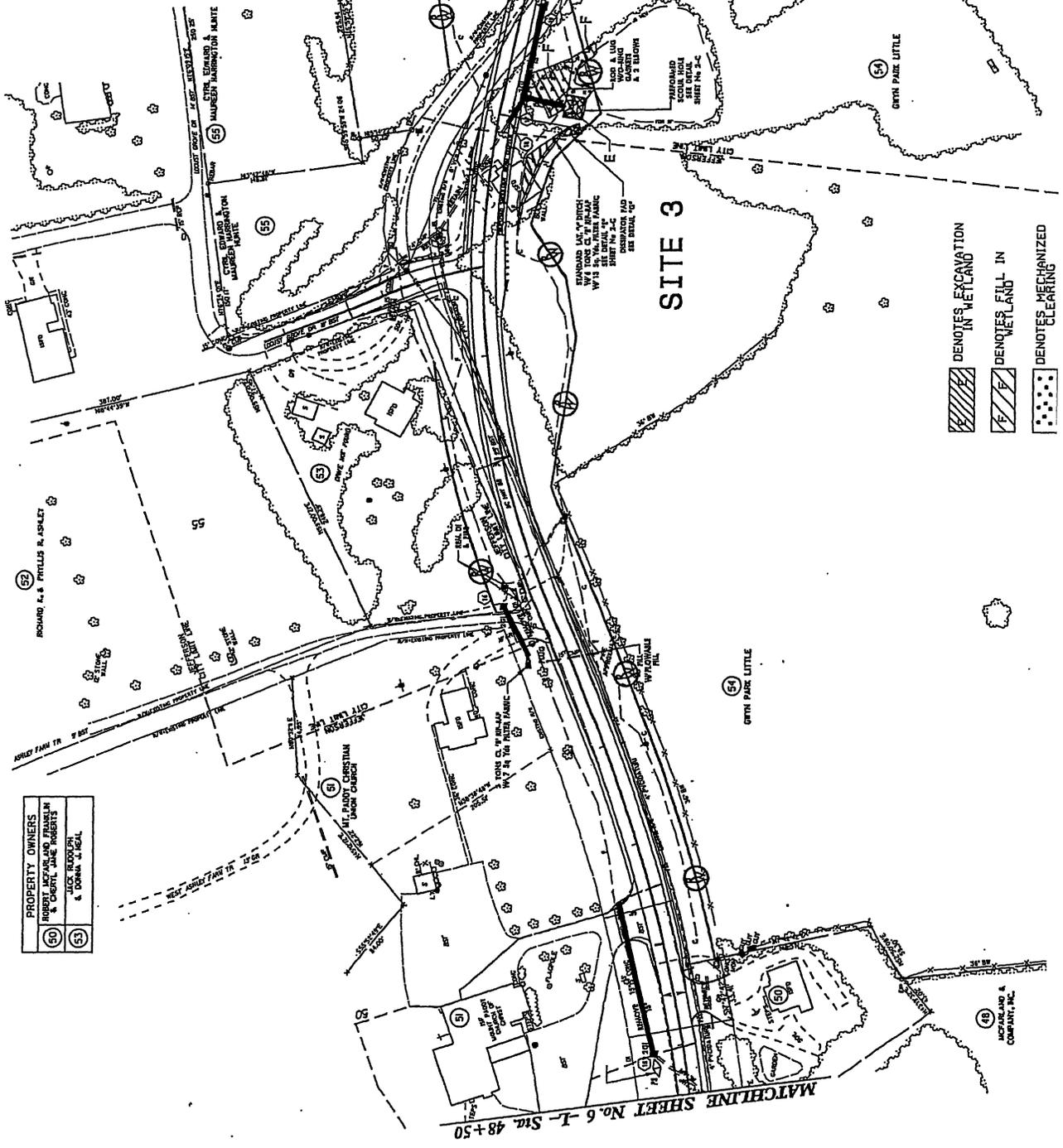
PROPERTY OWNERS	
1	GLENN POE ESTATE
2	PILOT MOUNTAIN LUMBER CO.
3	GALE A. GERRA
4	TELLAHOE S. SHEPHERD
5	TERRY R. MOORE
6	BERNARD A. POE BROOK
7	STEPHEN A. LANGRISH
8	MARIE D. & JOE R. SHATLEY
9	WILSON GULLICKS & DOROTHY W. STURRAL

LETTER DATED JUNE 08, 2010 BY: S. MEADOWS

REV REVISION:

- Removed abandoned building from Parcel No. 002.
- Changed name from Glenn & Ima Poe, to Glenn Poe Estate on Parcel No. 003.
- Changed name from Tellahoe S. Shepherd, to Tellahoe S. Shepherd on Parcel No. 007.
- Changed name from Pilot Mountain Lumber Co. to 15F BUS on Parcel No. 007.
- Changed 25BK BUS to 15BKD and Changed 25F BUS to 15F BUS on Parcel No. 007.
- Changed name and DBPG info from Gladys Yvonne P. Hayes, DB 188 PG 570 to Gladys Yvonne P. Hayes and Gentry Dolinger, Jr. DB 308 PG 361 Parcel No. 017.

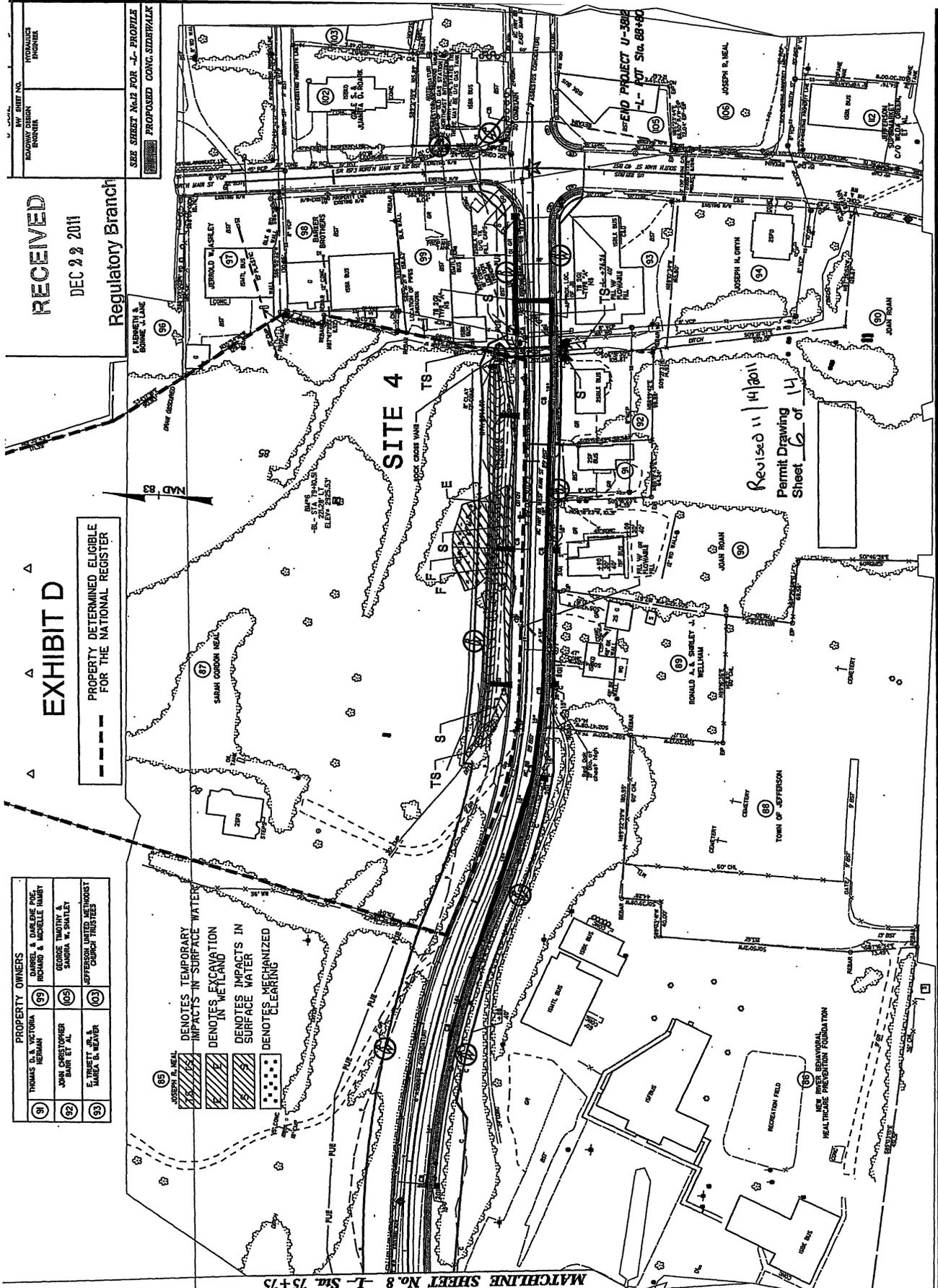
PROJECT REFERENCE NO.	U-1812	SHEET NO.	7
ROADWAY DESIGN ENGINEER	PROVINCIA ENGINEERS		
SEE SHEET No. 13 FOR -L- PROFILE SEE SHEET No. 14 FOR -VIA- PROFILE PROPOSED PAVEMENT REMOVAL			
SEE SHEET No. 2-C FOR SHOULDER BERM CUTTER -L- Sta. 57+17 to Sta. 59+55 RT.			



PROPERTY OWNERS	
50	PROVINCIA ENGINEERS
51	DAVID W. MILLER & DONNA M. MILLER

-  DENOTES EXCAVATION IN WETLAND
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING

Permit Drawing Sheet 7 of 14



RECEIVED
DEC 22 2011
Regulatory Branch

EXHIBIT D

PROPERTY DETERMINED ELIGIBLE FOR THE NATIONAL REGISTER

PROPERTY OWNERS	
51	THOMAS B. & VIRGINIA NEWMAN
52	JOHN CHRISTOPHER BARR ET AL.
53	E. DWIGHT & BARBARA B. BEAVER
54	GEORGE TIMOTHY & SANDRA W. SHATLEY
55	JEFFERSON UNITED METHODIST CHURCH TRUSTEES
56	THOMAS & SARAH ANN NEWMAN
57	ROBERT & MICHELLE HURST
58	AROLD W. WASHLEY
59	BARBARA & JOHN B. BROTHERS
60	JOSEPH B. NEAL
61	JOSEPH B. NEAL
62	JOSEPH B. NEAL
63	JOSEPH B. NEAL
64	JOSEPH B. NEAL
65	JOSEPH B. NEAL
66	JOSEPH B. NEAL
67	JOSEPH B. NEAL
68	JOSEPH B. NEAL
69	JOSEPH B. NEAL
70	JOSEPH B. NEAL
71	JOSEPH B. NEAL
72	JOSEPH B. NEAL
73	JOSEPH B. NEAL
74	JOSEPH B. NEAL
75	JOSEPH B. NEAL
76	JOSEPH B. NEAL
77	JOSEPH B. NEAL
78	JOSEPH B. NEAL
79	JOSEPH B. NEAL
80	JOSEPH B. NEAL
81	JOSEPH B. NEAL
82	JOSEPH B. NEAL
83	JOSEPH B. NEAL
84	JOSEPH B. NEAL
85	JOSEPH B. NEAL
86	JOSEPH B. NEAL
87	JOSEPH B. NEAL
88	JOSEPH B. NEAL
89	JOSEPH B. NEAL
90	JOSEPH B. NEAL
91	JOSEPH B. NEAL
92	JOSEPH B. NEAL
93	JOSEPH B. NEAL
94	JOSEPH B. NEAL
95	JOSEPH B. NEAL
96	JOSEPH B. NEAL
97	JOSEPH B. NEAL
98	JOSEPH B. NEAL
99	JOSEPH B. NEAL
100	JOSEPH B. NEAL

- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES EXCAVATION IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES MECHANIZED CLEARING

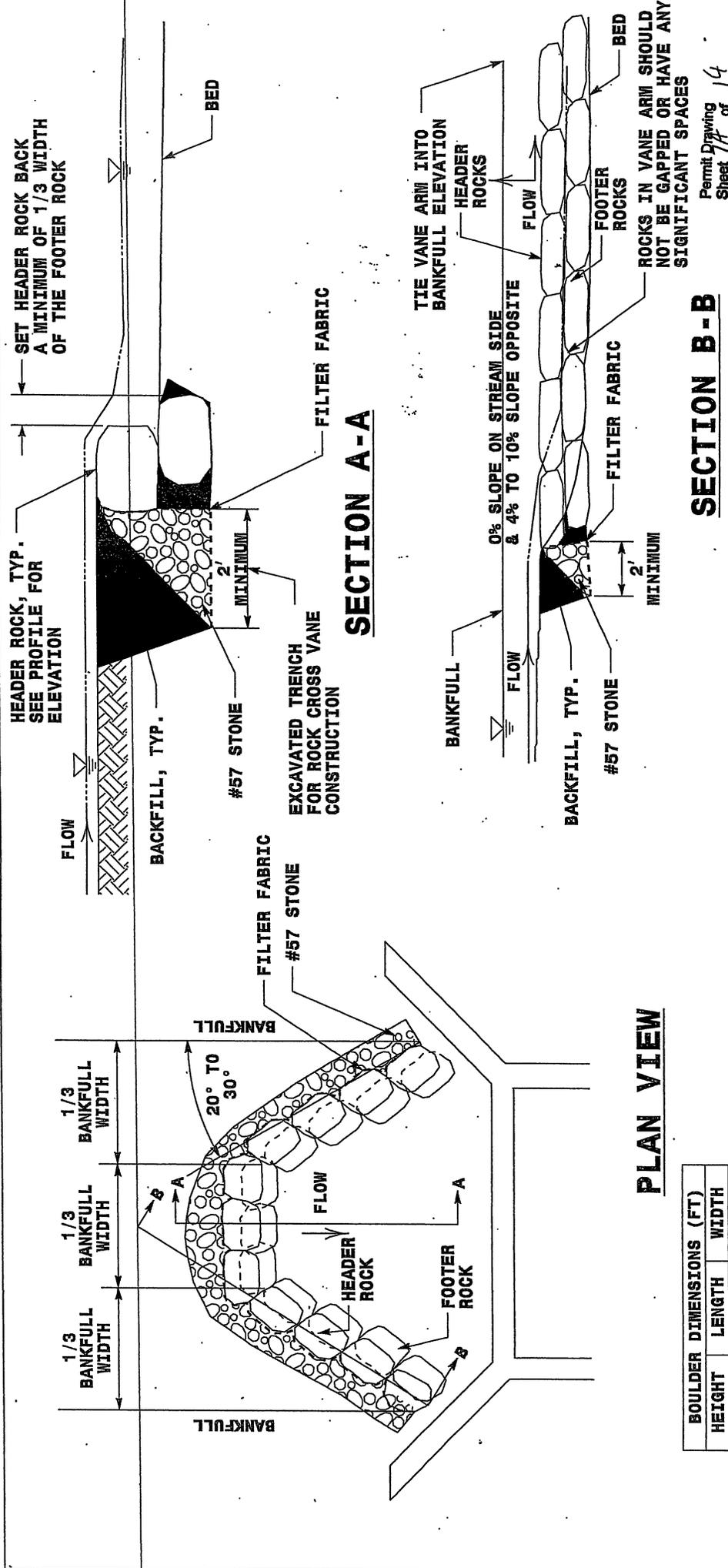
MATCHLINE SHEET No. 8 - I - Sta. 75+75

Revised 11/14/2011
Permit Drawing
Sheet 6 of 14

B/17/9

1. Changed name and DRPG info from John Christopher Barr, DB 297 PG 2281, and DB 254 PG 1250 to John Christopher Barr, et al, DB 405 PG 1039, Parcel No. 092.
LETTER DATED JUNE 08, 2010 BY: S. MEADOWS
RW REVISION:

*****09N*****



BOULDER DIMENSIONS (FT)		
HEIGHT	LENGTH	WIDTH
1	3	2

SECTION B-B

Permit Drawing
Sheet 14 of 14

Drawing 9462
11/14/2011

NOTES:

- 1) CLASS "A" STONE CAN BE USED TO REDUCE VOIDS BETWEEN HEADERS AND FOOTERS, POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.
- 2) COMPACT BACKFILL TO EXTENT POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.

ROCK CROSS VANE DETAIL
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DRAINAGE DITCH DETAILS

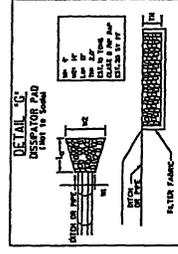
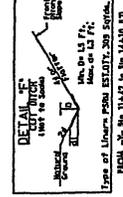
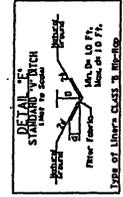
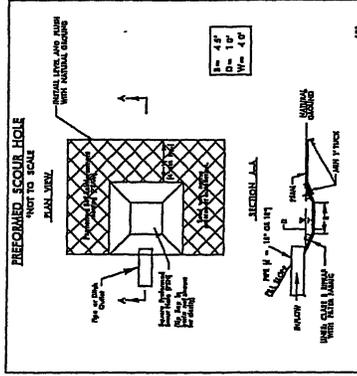
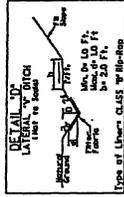
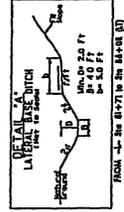
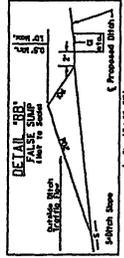
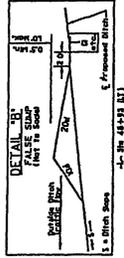
PROJECT REFERENCE NO.
0-3612

SHEET NO.
2-C

HYDRAULIC
FORMULA

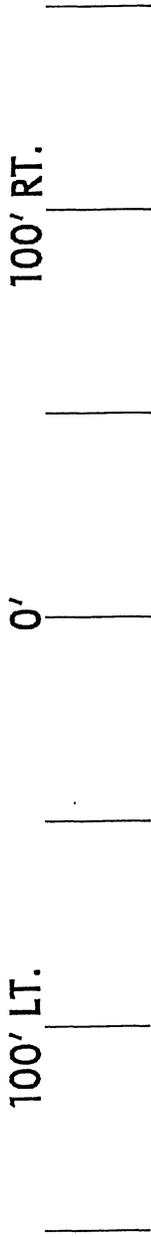
PRELIMINARY PLANS
DO NOT USE FOR
CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR
CONSTRUCTION



Permit Drawing
Sheet 14 of 14

PROFILE ALONG THE STRUCTURE



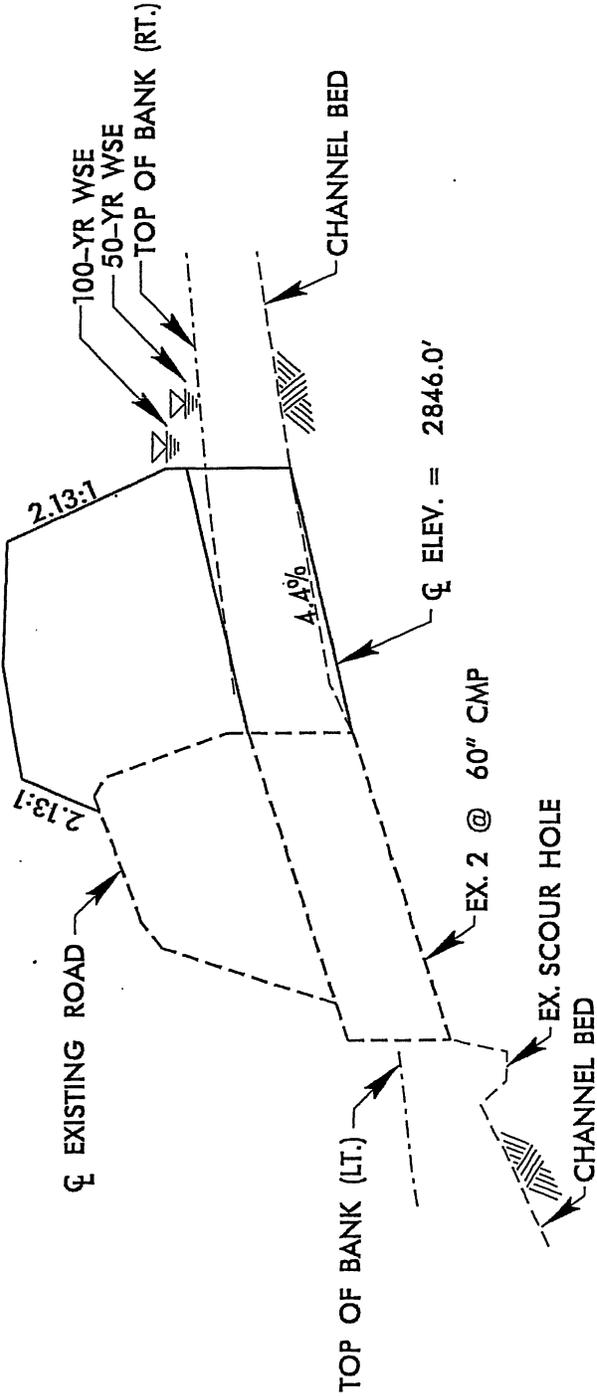
2 @ 60" CSP
 ☉ STA. 12 + 79.00 -L-
 GRADE PT. ELEV. = 2862.18'
 SKEW = 110 DEGREES

2870

2860

2850

2840



NOTE: NWS = 2851' (@ PIPE INLET)

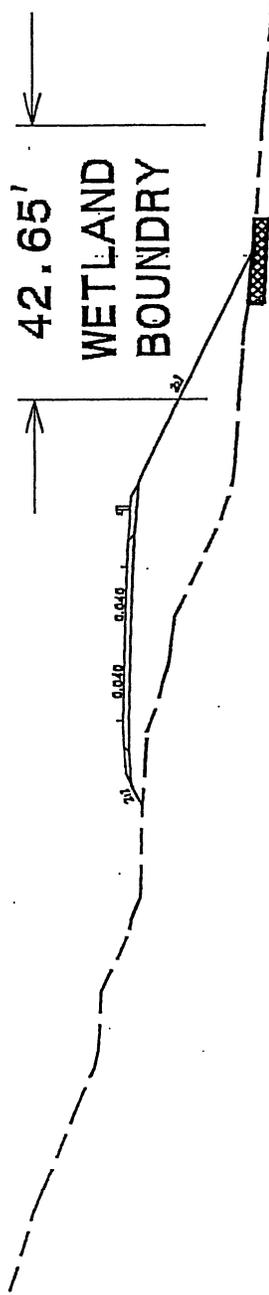
N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ASHE COUNTY

WBS: 34977.L.J. (U3812)

NC 88 (WEST MAIN ST.) FROM
 NC 194 TO US 221 IN JEFFERSON

STA. 58+58.12 -L- (RT)

SITE 3



N C DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ASHB COUNTY

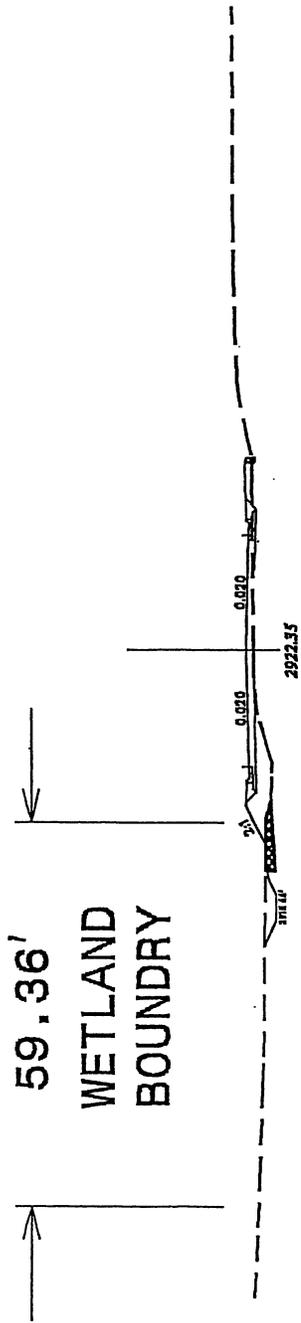
WBS-34977 L1 (U3812)

NC 88 (WEST MAIN ST) FROM
NC 194 TO US 221 IN JEFFERSON

SHEET // OF // 4

STA. 84+00 -L- (LT)

SITE 4



N C DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
ASHE COUNTY
WBS:34977.11 (U3812)
NC 88 (WEST MAIN ST) FROM
NC 194 TO US 221 IN JEFFERSON
SHEET 2 OF 4

PROPERTY OWNERS

<u>Site</u>	<u>Last Name</u>	<u>First Name</u>	<u>Address</u>	<u>City/Town</u>	<u>State</u>	<u>Zip Code</u>
1	Poe	Glenn & Ilene	PO Box 254	West Jefferson	NC	28694
1	Paddy Mountain Lumber, INC		PO Box 708	Jefferson	NC	28640
2	Jarvis	Stephen & Margaret	255 Azalea Lane	Wilkesboro	NC	28697
3	Little	Gwyn Park	14635 Hearthstone Meadows Drive	Houston	TX	77095
4	Neal	Sarah Gordon	PO Box 1441	Jefferson	NC	28640
4	Hamby	Darrel & Darlene Poe, Richard & Michelle	PO Box 790	Jefferson	NC	28640
4	Barr	John Christopher	362 Ridge Road	West Jefferson	NC	28694
4	Weaver	E Truitt Jr. & Marea B	PO Box 428	Jefferson	NC	28640

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ASHE COUNTY
WBS - 34977 1 1 (U-3812)

SHEET 13 of 14 9/2/2010

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)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)			
1	14+12 to 14+89 -Y-	24"/36" RCP									<0.01	<0.01	86	15	
2	12+78 -L- (RT)	2 @ 60" CSP									0.01	<0.01	67	15	
3	58+75 -L- (RT)	PSH *	0.04		0.01	0.01									
4	81+53 to 86+20 -L-	** 10' x 6" RCBC	0.09		0.04						0.06	0.01	483	67	
TOTALS:			0.13		0.05	0.01				0.07	0.01	636	97		

* PREFORMED SCOUR HOLE

** RELOCATE CHANNEL AND REPLACE 30" AND 60" CMP'S

WETLANDS CONSIDERED A COMPLETE TAKE FOR BOTH SITE 3 & SITE 4.

AREA OUTSIDE OF RIGHT-OF-WAY CONSIDERED "PERMANENT FILL IN WETLANDS" FOR BOTH SITE 3 & SITE 4.

RECEIVED

DEC 22 2011

Regulatory Branch

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ASHE COUNTY

WBS - 34977.1.1 (U-3812)

SHEET 14 of 14

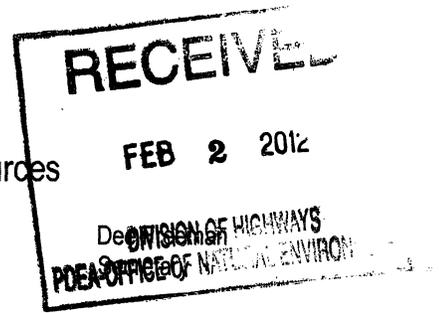
Revised
11/14/2011



North Carolina Department of Environment and Natural Resources

Division of Water Quality
Charles Wakild, P.E.
Director

Beverly Eaves Perdue
Governor



January 26, 2012

Dr. Greg Thorpe, PhD., Manager
Planning and Environmental Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina, 27699-1548

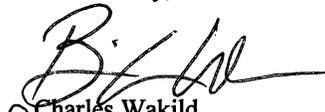
Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed improvements to NC 88 (West Main Street) from NC 194 to US 221 Business (South Main Street) in Ashe County, Federal Aid Project No. STP-0088(6), State Project No. 81711501, TIP U-3812.
NCDWQ Project No. 20110464

Dear Mr. Thorpe:

Attached hereto is a modification of Certification No. 3862 issued to The North Carolina Department of Transportation dated July 19, 2011.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,



Charles Wakild
Director

Attachments

cc: Monte Matthews, US Army Corps of Engineers, Raleigh Field Office
Mike Pettyjohn, Division 11 Engineer
Heath Slaughter, Division 11 Environmental Officer
Chris Militscher, Environmental Protection Agency (electronic copy only)
Marla Chambers, NC Wildlife Resources Commission (electronic copy only)
Beth Harmon, Ecosystem Enhancement Program
Wetlands/401 Transportation Permitting Unit
File Copy

Transportation and Permitting Unit
1650 Mail Service Center, Raleigh, North Carolina 27699-1617
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6300 \ FAX: 919-807-6492
Internet: www.ncwaterquality.org

An Equal Opportunity \ Affirmative Action Employer

One
North Carolina
Naturally

**Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act
with ADDITIONAL CONDITIONS**

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H .0500. This certification authorized the NCDOT to impact 0.19 acres of jurisdictional wetlands and 733 linear feet of jurisdictional streams in Ashe County. The project shall be constructed pursuant to the modification dated received January 4, 2012. The authorized impacts that are modified are as described below:

Stream Impacts in the New River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
Original approved impacts at Site 4			470	80	550	470
Revised impacts with this approval at Site 4			483	67	550	483
Total			483	67	550	483

Total Stream Impact for Site 4: 550 linear feet

The application provides adequate assurance that the discharge of fill material into the waters of the New River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modified application dated received January 4, 2012. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated July 19, 2011 still apply except where superceded by this certification. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

1. This modification is applicable only to the additional proposed activities. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated July 19, 2011 still apply except where superceded by this certification.
2. Compensatory mitigation for 483 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated November 22, 2011 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the North Carolina Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument signed July 28, 2010.
3. Installation of the crossvein and the channel relocation shall be visually monitored for stability one year or two bankfull events whichever is longer.

4. At sites 1, 2, and 3 pipe burial is not required. At site 4, placement of the culvert shall be placed below the elevation of the streambed by one foot to allow low flow passage of water and aquatic life. Also 4 concrete sills with alternation four-foot long notches shall be installed as detailed in the permit application. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 26th day of January 2012

DIVISION OF WATER QUALITY



for Charles Wakild
Director

WQC No. 3862

NCDWQ Project No.: _____ County: _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to NCDWQ by the applicant, the applicant’s authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant’s Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Agent’s Certification

I, _____, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: _____ Date: _____

Engineer’s Certification

_____ Partial _____ Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature _____ Registration No. _____

Date _____