



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

July 8, 2011

Division of Water Quality
1650 Mail Service Center
Raleigh, NC 27699-1650

Attention: Rob Ridings
NCDOT Coordinator, Division 5

Subject: **Corrected Information to the Neuse Buffer Authorization** for the Rolesville Bypass, US 401 from SR 2044 (Ligon Mill Road) to north of SR 2226 (Jonesville Rd), Wake County, Federal Aid No. STP-401(4), State Project No. 81403001, WBS 34506.1.1, Division 5, TIP R-2814 A.

Reference: Section 404 Individual Permit, issued July 14, 2009, USACE Action ID 2008-01316
Section 401 Individual Water Quality Certification, Isolated Wetlands Permit and Neuse Riparian Buffer Authorization issued June 16, 2009, NCDENR-DWQ Water Quality Certification Project No. 20090104 ver.1

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to construct a 18.5 mile long, widening and new location roadway in Wake and Franklin Counties known as the Rollesville Bypass. Section A has been permitted and is currently under construction. The following states some corrected information related to the Neuse Buffer Authorization.

Riparian Buffer Permit Site No. 3

Station 33+24 to 33+30.5 Rt -L-

(see Revised Construction Plan Sheet 2-K and Revised Buffer Permit Drawing 8 of 9)

A pre-formed scour hole (PFSH) has been constructed at Station 33+22 Rt -L-. However, this stormwater device will not properly function due to the existing topography. The area was reviewed by Rob Ridings of the NCDENR-DWQ on April 15, 2011. All parties agreed that a construction revision would be necessary to provide positive drainage from the PFSH. The Department now proposes to construct a base ditch (3:1 side slopes lined with PSRM) at this location that will allow

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TELEPHONE: 919-707-6000
FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:
CENTURY CENTER BLDG. B
1020 Birch Ridge Road
Raleigh, NC 27610

stable and non-erosive discharge of stormwater runoff through the riparian buffer. This construction revision will not result in additional riparian buffer, stream or wetland impacts.

Riparian Buffer Permit Site No. 4

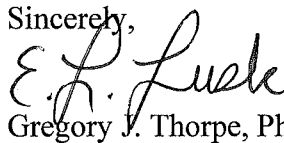
Station 36+47 to 36+80 Rt -L-

(see Revised Construction Plan Sheet 2-K and Revised Buffer Permit Drawing 9 of 9)

A PFSH is proposed to be constructed at Station 33+60 Rt -L-. However, this stormwater device will not properly function due to the existing very steep topography below this proposed device. The area was reviewed by Rob Ridings of the NCDENR-DWQ on April 15, 2011. All parties agreed that a construction revision would be necessary to provide a rip rap lined-feature to transfer stormwater down the steep natural ground to the adjacent channel. The Department now proposes to delete the PFSH and construct a special cut base ditch (3:1 side slopes lined with Class B rip rap) and Special Rock Check Dam at this location that will allow stable and non-erosive discharge of stormwater runoff through the riparian buffer. This construction revision will not result in additional riparian buffer, stream or wetland impacts.

This information is submitted for your files. We are not requesting a modified Buffer Authorization. A copy of this letter will be posted on the NCDOT website at <http://www.ncdot.org/doh/preconstruct/pe/neu/Permit.html>. If you have any questions or need additional information, please call Rachelle Beaugard at 919-707-6105 or Chris Murray at 919-220-4600.

Sincerely,

for 

Gregory J. Thorpe, Ph.D., Manager

Project Development and Environmental Analysis Branch

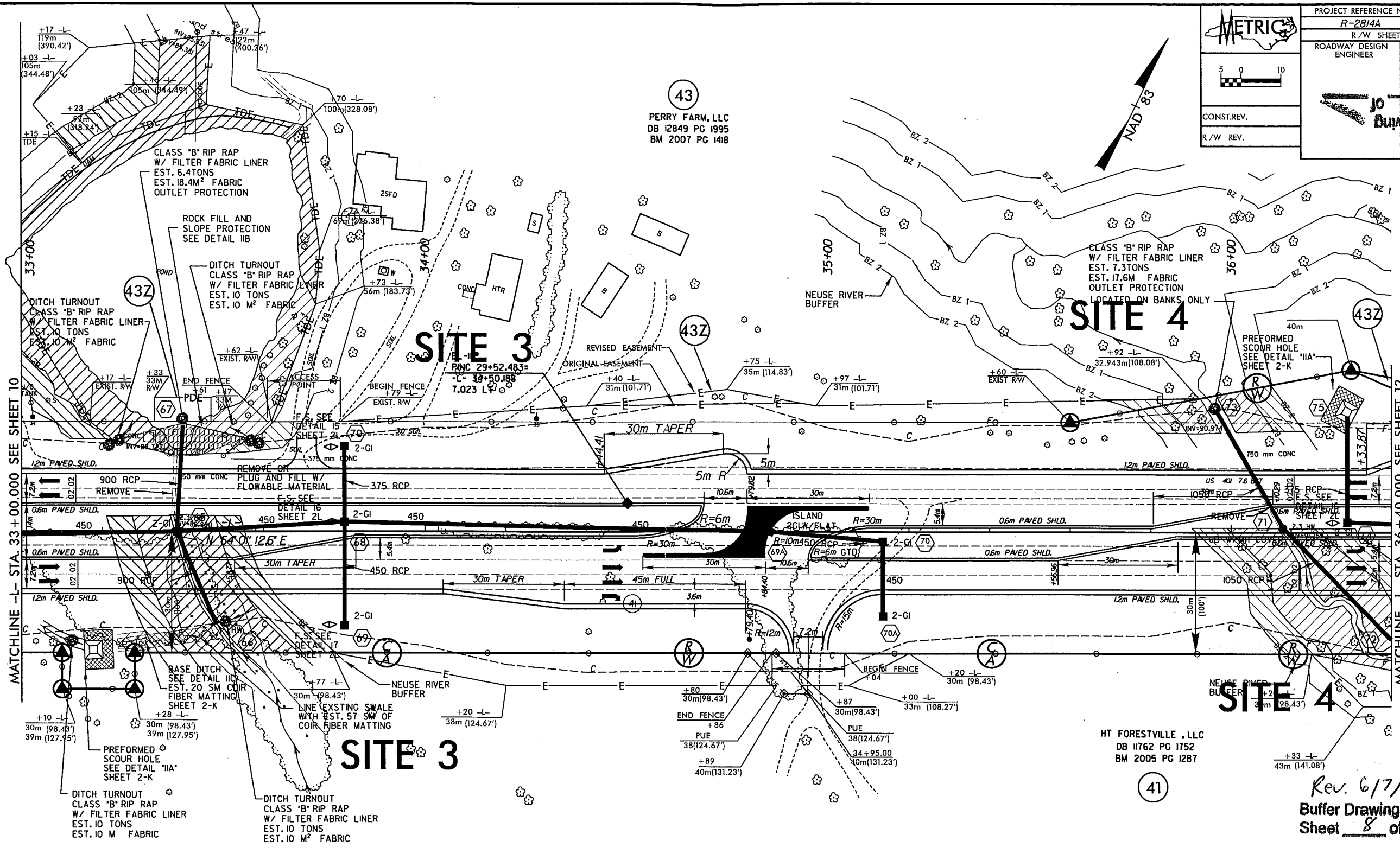
w/attachment

Mr. Brian Wrenn, NCDWQ
Ms. Jennifer Derby, USEPA
Mr. J. Wally Bowman, PE., Division Engineer
Mr. Chris Murray, DEO

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Mark Staley, Roadside Environmental
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services Unit
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Eric Alsmeyer, USACE
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Ms. Anne Deaton, NCDMF
Mr. Clarence W. Coleman, P.E., FHWA

	PROJECT REFERENCE NO.	SHEET NO.
	R-2814A	II
	R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
CONST. REV.		
R/W REV.		



REVISIONS
 DESIGN REVISION - APRIL 6, 2010
 RW REVISION - APRIL 20, 2010
 CONSTRUCTION REVISION - MAY 11, 2010
 CONSTRUCTION REVISION - MAY 10, 2011
 ADDED ENDWALLS TO PIPES AT STRUCTURE NUMBERS 66 AND 72
 ADDED ENDWALLS TO PERFORMED SCOUR HOLE AT STA. 33+22 ERT -L- SEE DETAIL 2-K
 ADDED BASE DITCH TO PERFORMED SCOUR HOLE AT STA. 33+22 ERT -L- SEE DETAIL 2-K

MATCHLINE -L- STA. 33+00.000 SEE SHEET 10

MATCHLINE -L- STA. 36+40.000 SEE SHEET 12

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HT FORESTVILLE, LLC
 DB 11762 PG 1752
 BM 2005 PG 1287

41
 HT FORESTVILLE, LLC
 DB 11762 PG 1752
 BM 2005 PG 1287

Rev. 6/7/11
 Buffer Drawing
 Sheet 8 of 9

LEGEND

- MITIGABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 2

NOTE: SEE SHEETS 20 & 21 FOR -L- PROFILE

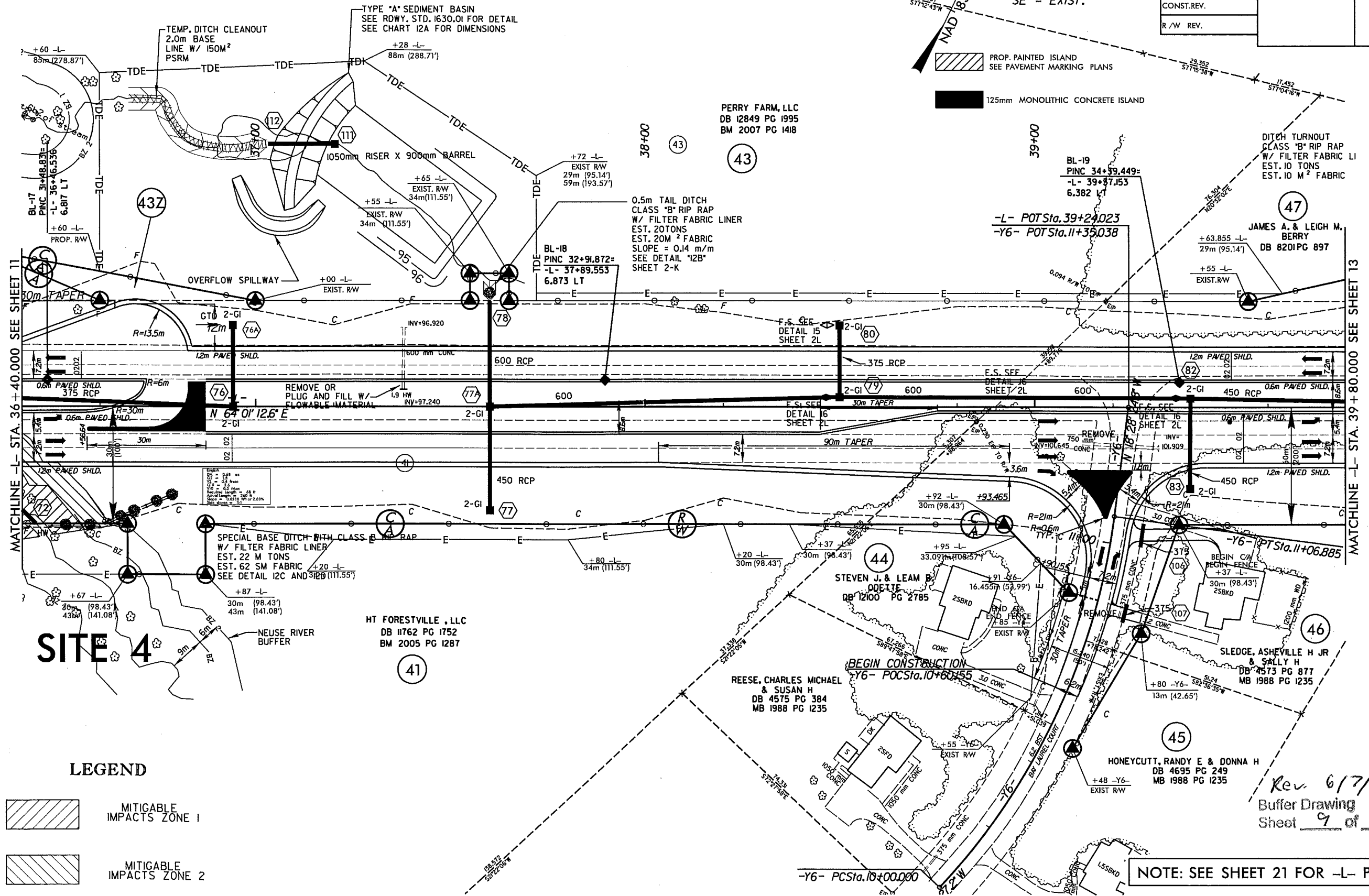
NOTE: SEE SHEET 2 FOR DETAIL OF LEFT-TURN OFFSET LANE

CHART 12A

BASIN	APPROX. STA.	P	H	T	D	E	F	B	X	Y	XI	YI	SURFACE AREA (m ²)	STORAGE VOLUME (m ³)
1	31+00	900	0.3	2.0	2.7	2.0	.46	2.4	2.1	0.6	1.8	0.6	890	482

-Y6-
 PI Sta. 10+55.231
 $\Delta = 35^\circ 35' 52.0" (LT)$
 $L = 106.884$
 $T = 55.230$
 $R = 172.034$
 $SE = EXIST.$

DESIGN REVISION - APRIL 6, 2010
 CONSTRUCTION REVISION - MAY 11, 2010
 CONSTRUCTION REVISION - JUNE 21, 2010 - ADDED ENDWALL TO PIPE AT STRUCTURE NUMBER 72
 CONSTRUCTION REVISION - MAY 10, 2011 - REMOVED PREFORMED SCOUR HOLE AT STA. 36+75 RT -L- AND ADDED 2' BASE DITCH FROM STA. 36+47 TO 36+80 RT -L-
 REVISIONS



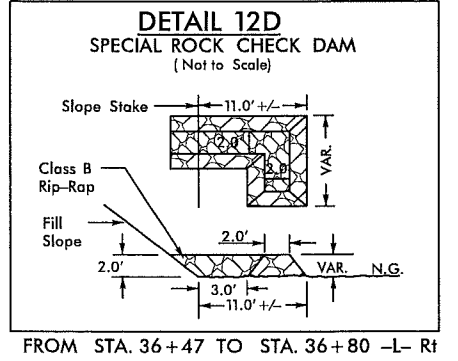
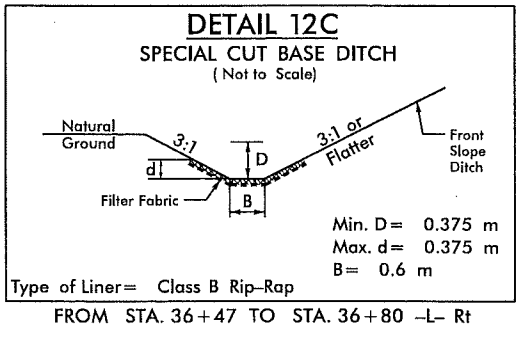
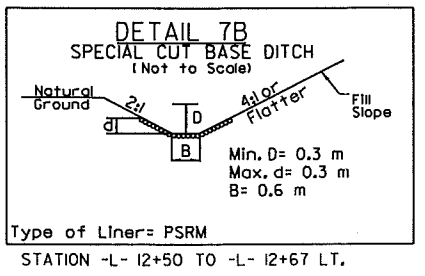
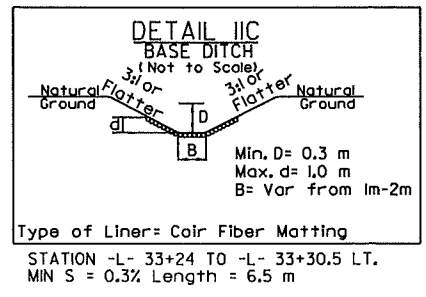
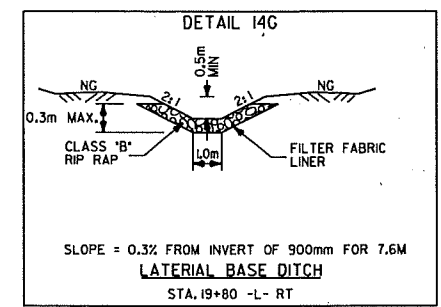
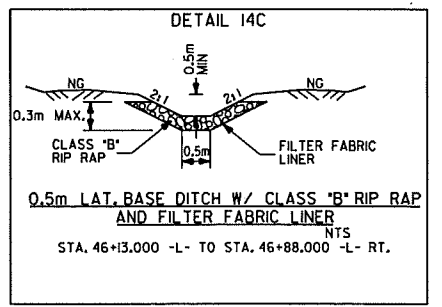
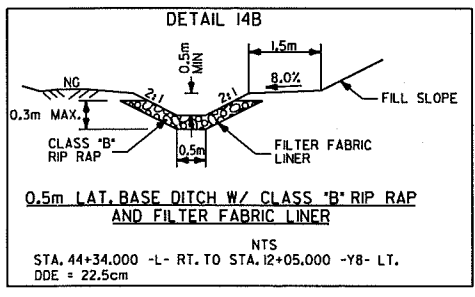
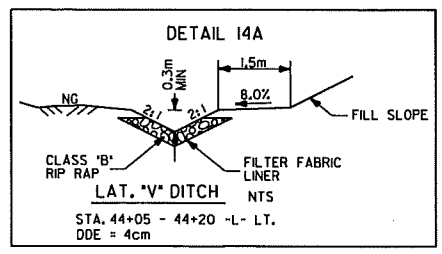
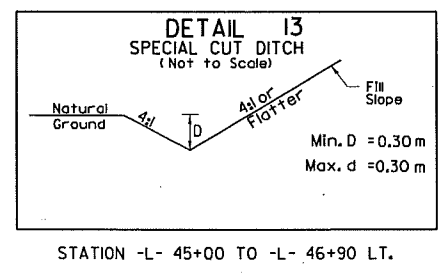
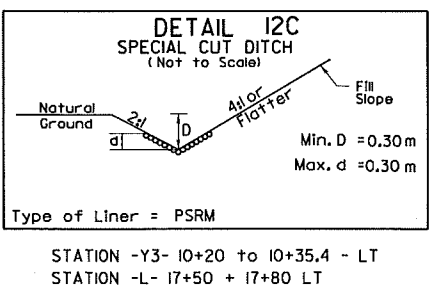
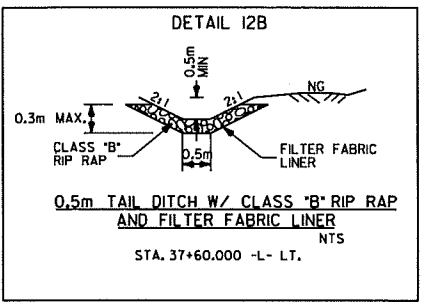
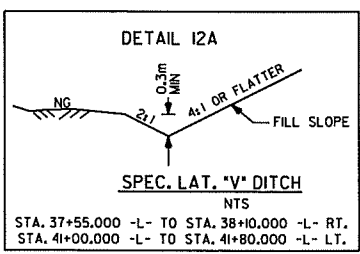
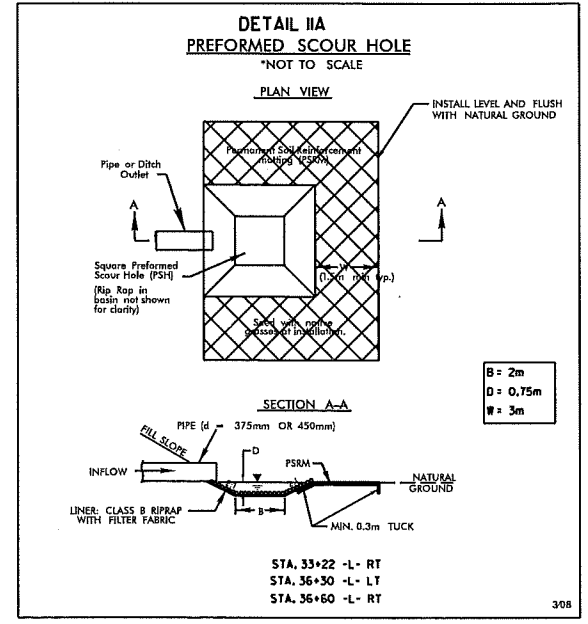
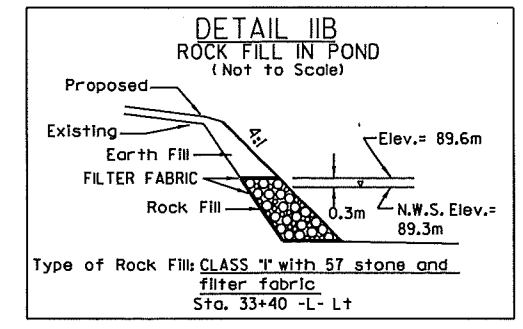
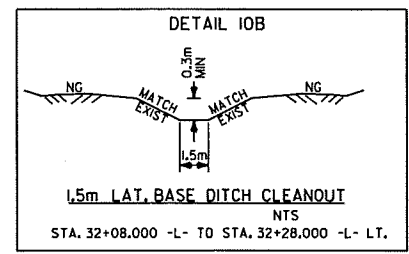
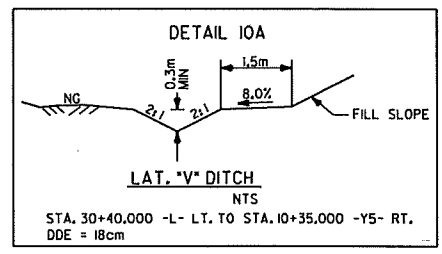
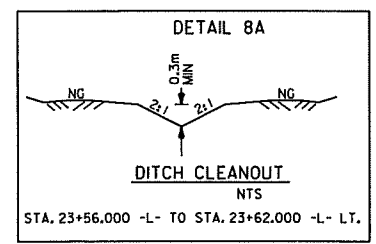
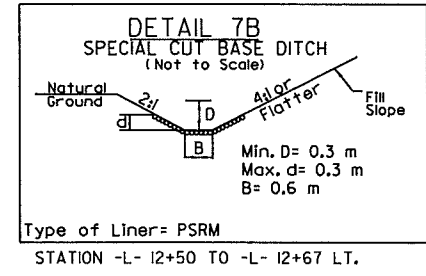
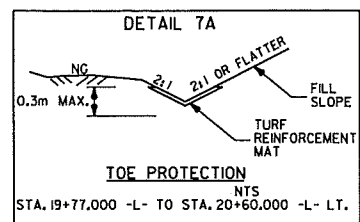
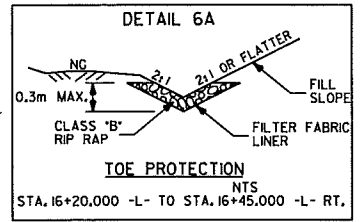
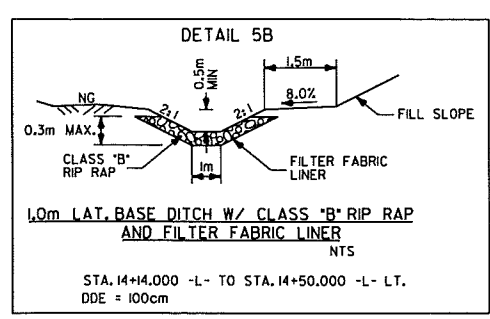
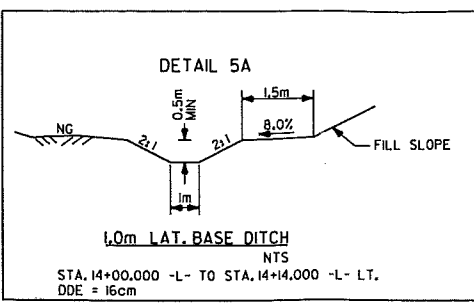
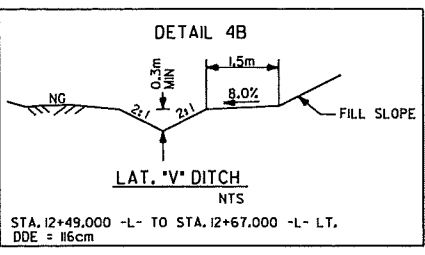
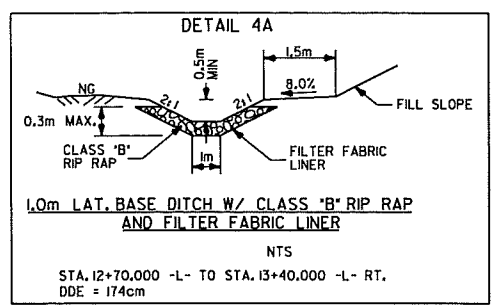
LEGEND

- MITIGABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 2

NOTE: SEE SHEET 21 FOR -L- PROFILE

Rev. 6/7/11
 Buffer Drawing
 Sheet 9 of 9

	PROJECT REFERENCE NO.	SHEET NO.
	R-2814A	2-K
	R/W SHEET NO.	
		HYDRAULICS ENGINEER
CONST. REV.		
R/W REV.		



Revised
6/7/11

REVISIONS

*****SYSTEMS*****
*****CADD*****
*****DRAWING*****