



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

September 27, 2010

U. S. Army Corps of Engineers
Regulatory Field Office
Post Office Box 1000
Washington, NC 27889-1000

Attention: Mr. Tom Steffens
NCDOT Coordinator

Dear Sir:

Subject: Permit Modification Request for **Nationwide Permit 23, 401 Water Quality Certification, and Tar-Pamlico Riparian Buffer Authorization** for the proposed replacement of Bridge Nos. 127 over the Tar River Overflow and 129 over the Tar River on SR 1565 in Pitt County. TIP No. B-3684; Federal Aid Project No. BRSTP-1565(4); State Project No. 8.2221101. Debit \$475 from WBS No. 33225.1.1

Reference: Nationwide Permits 23, 33, and 12 issued March 20, 2008; USACE Action ID – saw-2008-01011
Modifications issued May 18, 2009 and September 30, 2009
Section 401 Water Quality Certification and Tar-Pamlico River Buffer
Authorization issued April 25, 2008; DWQ Project No. 20080356
Modifications issued May 22, 2009 and October 13, 2009; DWQ Project No. 20080356 v.2 and 20080356 v.3

Please see the enclosed revised permit drawings and buffer drawings for the above referenced project. Additional hand clearing in riparian wetland (0.15 acre) at Site 3 (St 29+18 to St 52+65) and 6,213 ft² of impacts to riparian buffers at Site 10 (St 33+02 to St 33+70) are necessary to facilitate bridge removal and construction. This brings total project hand clearing to 3.55 acres and total project buffer impacts to 28,770 ft². In addition, NCDOT is requesting the permit expiration date be extended to March 18, 2012.

Section 404 Permit: NCDOT requests that the U.S. Army Corps of Engineers (USACE) review this application and issue a modification for the Section 404 Nationwide Permit 23 (Categorical Exclusion) issued March 20, 2008, as required for the above-described activities.

Section 401 Permit: NCDOT requests that the NCDWQ review this application and issue a modification for the General 401 Water Quality Certification issued April 25, 2008, as required for the above-described activities. In accordance with 15A NCAC 2H .0501(a) we are providing five

copies of this modification request to the North Carolina Department of Environmental and Natural Resources for their approval and \$475 to act as payment for processing the permit modification (see subject line).

Tar-Pamlico Riparian Buffer Authorization: NCDOT requests that the NC Division of Water Quality review this application and issue a modification for the Tar-Pamlico Riparian Buffer Authorization issued April 25, 2008.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at tstanton@ncdot.gov or (919) 431-6748.

Sincerely,



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

Cc:

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Dewayne Sykes, P.E., Utilities Unit
Mr. Mark Staley, Roadside Environmental
Mr. C. E. Lassiter, P.E., Div. 2 Engineer
Mr. Jay Johnson, Div. 2 Environmental Officer
Mr. Scott McLendon, USACE, Wilmington
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Mr. Ron Sechler, NMFS
Ms. Anne Deaton, NCDMF
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Ms. Stacy Oberhausen, P.E., PDEA
Ms. LeiLani Paugh, NEU
Mr. Randy Griffin, NEU

BUFFER IMPACTS SUMMARY

SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	IMPACT						BUFFER REPLACEMENT				
			TYPE		ALLOWABLE		MITIGABLE		ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)		
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	ZONE 1 (ft ²)				ZONE 2 (ft ²)	
7	3@48" & 1 @ 60"	15+86 to 17+68 Rt	X			4649	2089	6738					
8	3@48" & 1 @ 60"	16+56 to 18+40 Lt	X			4151	3333	7484					
9	15@100ft & 5@90 ft 54" prestress girder	29+40 to 30+14		X		1585	1586	3171					
10	15@100ft & 5@90 ft 54" prestress girder	33+02 to 33+70		X		7699	3678	11377					
TOTAL:						18084	10686	28770	0	0	0		

Site 7 - Total Buffer length is 75 feet.
 Site 8 - Total Buffer length is 85 feet.
 Site 9 - Total Buffer length is 105 feet.
 Site 10 - Total Buffer length is 100 feet.

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PITT COUNTY
 PROJECT: B-3684
 BRIDGE NO. 129 OVER TAR RIVER
 AND BRIDGE NO. 127 OVER TAR RIVER OVERFLOW
 Rev. 9/24/2010

Buffer Drawing
 Sheet 5 of 9

SHEET _____ OF _____

BUFFER IMPACTS

PROJECT REFERENCE NO. B-3684	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Buffer Drawing	
Sheet 7 of 9	
Rev. 9/24/10	



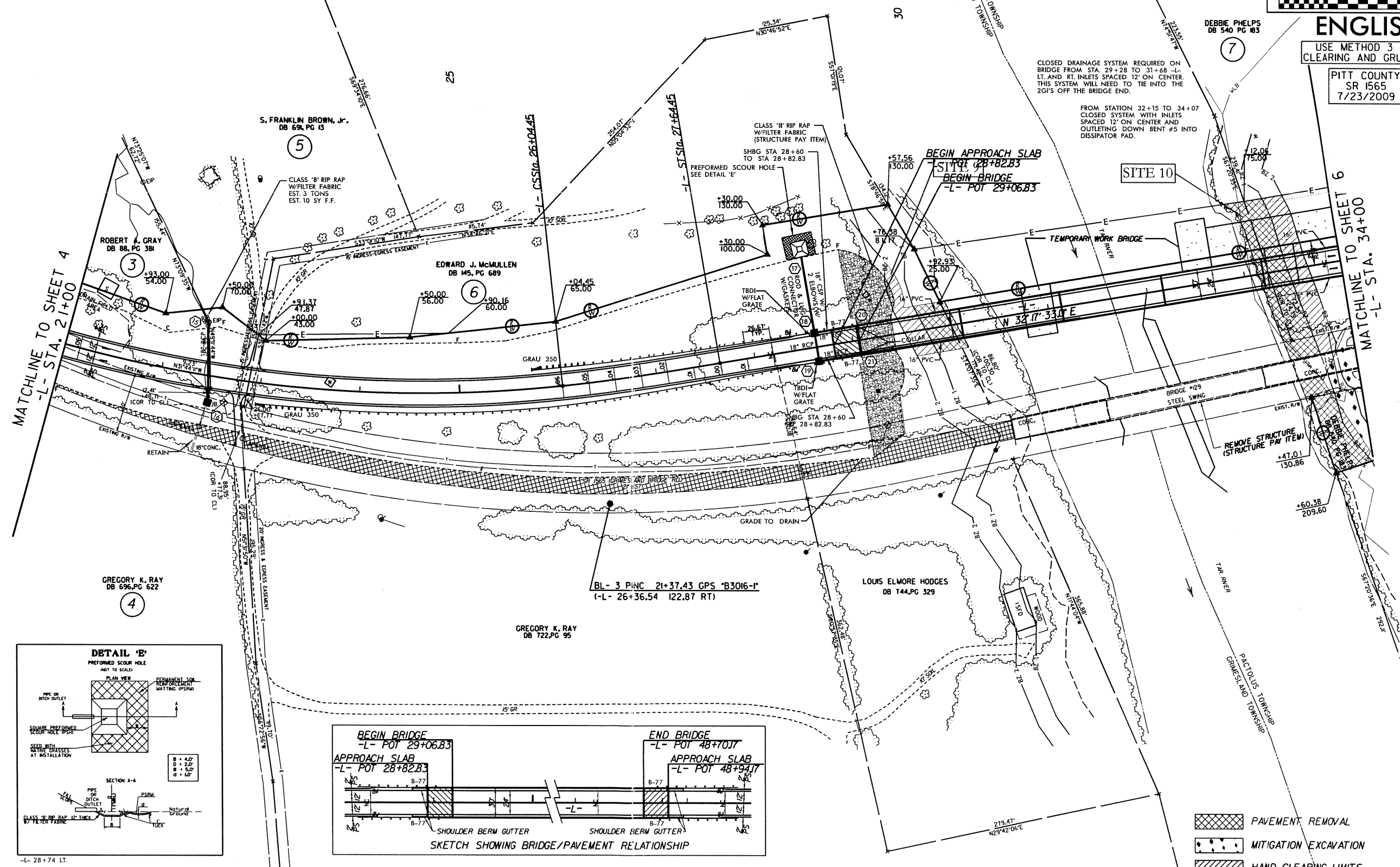
ENGLISH
USE METHOD 3 FOR CLEARING AND GRUBBING

PITT COUNTY
SR 1565
7/23/2009

-L-

Pls Sta 17+67.66	PI Sta 22+24.27	Pls Sta 26+57.80
$\Theta_s = 3^\circ 25' 14.3"$	$\Delta = 33^\circ 29' 59.0" (LT)$	$\Theta_s = 3^\circ 25' 14.3"$
LS = 160.00'	D = 4' 16" 32.9"	LS = 160.00'
LT = 106.69'	L = 783.47'	LT = 106.69'
ST = 53.35'	T = 403.29'	ST = 53.35'
	R = 1,340.00'	
	Se = 0.06	

- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2

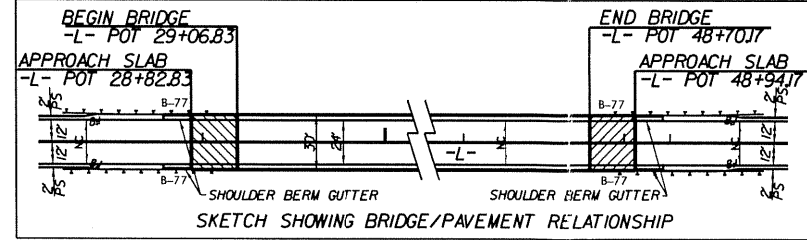
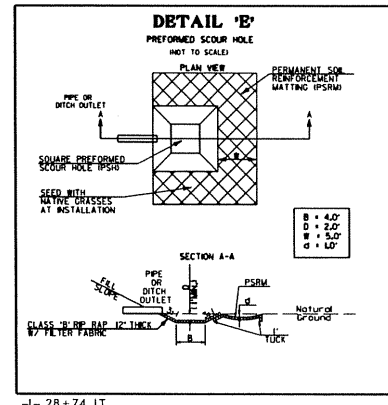


CLOSED DRAINAGE SYSTEM REQUIRED ON BRIDGE FROM STA. 29+28 TO 31+68 -L- AND RT. INLETS SPACED 12' ON CENTER. THIS SYSTEM WILL NEED TO TIE INTO THE 2GI'S OFF THE BRIDGE END.

FROM STATION 32+15 TO 34+07 CLOSED SYSTEM WITH INLETS SPACED 12' ON CENTER AND OUTLETING DOWN BENT #5 INTO DISSIPATOR PAD.

MATCHLINE TO SHEET 4
-L- STA. 21+00

MATCHLINE TO SHEET 6
-L- STA. 34+00



- PAVEMENT REMOVAL
- MITIGATION EXCAVATION
- HAND CLEARING LIMITS

REVISIONS
12-07-07 R/W REVISION ADJUSTED EASEMENT TO PARCEL NO.7 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.

8/17/09

GATES FILES

WETLANDS IMPACT PERMIT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Hand Clearing In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Wetland Restoration (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)
1	15+00 to 17+80 Rt.	3@48" & 1@60" RCP	0.18	<0.01	<0.01		0.07		0.02			100	
2	15+00 to 17+80 Lt.	3@48" & 1@60" RCP	0.18	<0.01	<0.01		0.07		0.02			81	
3	29+18 TO 52+65 (Tar River and Floodplain)	15@100ft & 5@90 ft 54" prestressed girder bridge (L = 1950 ft.)											
		Impacts due to bridge construction	0.06	0.01		3.52	0.12	3.05	0.03				
		Impacts due to roadway fill	0.44										
4	54+00 Lt.		0.19			0.03	0.05						
5	56+30 Rt.		0.01				0.03						
6	57+15 Lt.		0.01			<0.01	0.01						
TOTALS:			1.07	0.01	<0.01	3.55	0.35	3.05	0.07			181	

NCDOT

DIVISION OF HIGHWAYS
PITT COUNTY
PROJECT 333225.1.1.0 (B-3684)
BRIDGES NO. 129 OVER TAR RIVER
AND BRIDGE NO. 127 OVER TAR RIVER
OVERFLOW ON SR 1565

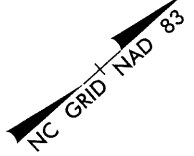
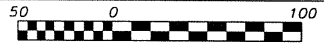
Rev.
9/24/2010

Form Revised 3/22/01

SHEET OF

Permit Drawing

Sheet 5 of 35



- DENOTES HAND CLEARING
- DENOTES FILL IN SURFACE WATER
- DENOTES RESTORED WETLANDS
- DENOTES FILL IN WETLAND

-L-

Pls Sta 17+67.66	PI Sta 22+24.27	Pls Sta 26+57.80
$\Theta s = 3^{\circ} 25' 14.3''$	$\Delta = 33^{\circ} 29' 59.0''$ (LT)	$\Theta s = 3^{\circ} 25' 14.3''$
$Ls = 160.00'$	$D = 4' 16' 32.9''$	$Ls = 160.00'$
$LT = 106.69'$	$L = 783.47'$	$LT = 106.69'$
$ST = 53.35'$	$T = 403.29'$	$ST = 53.35'$
	$R = 1,340.00'$	
	$Se = 0.06$	

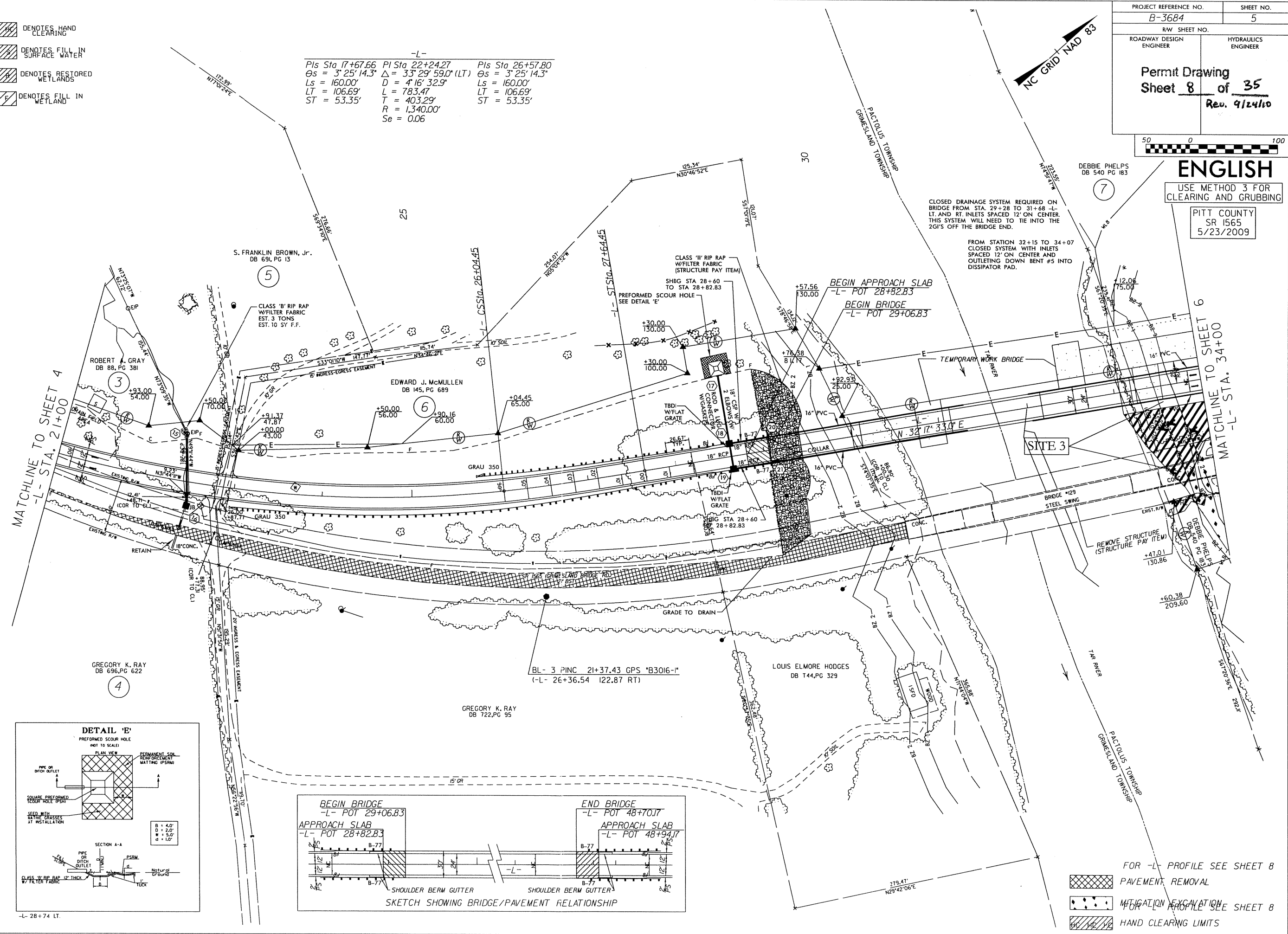
ENGLISH

USE METHOD 3 FOR CLEARING AND GRUBBING

PITT COUNTY
SR 1565
5/23/2009

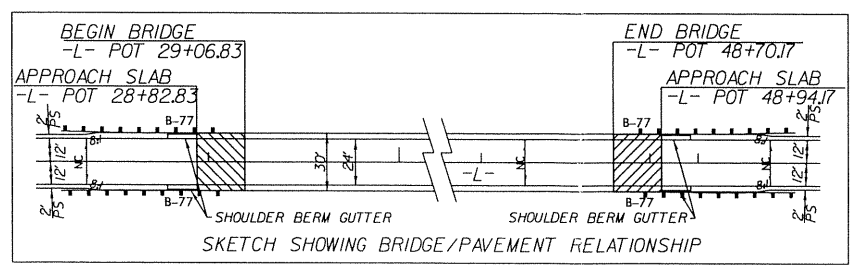
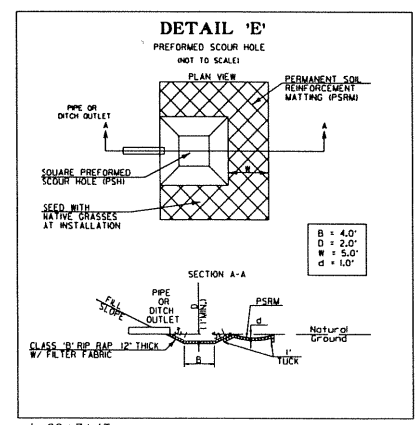
CLOSED DRAINAGE SYSTEM REQUIRED ON BRIDGE FROM STA. 29+28 TO 31+68 -L- LT. AND RT. INLETS SPACED 12' ON CENTER. THIS SYSTEM WILL NEED TO TIE INTO THE 2GI'S OFF THE BRIDGE END.

FROM STATION 32+15 TO 34+07 CLOSED SYSTEM WITH INLETS SPACED 12' ON CENTER AND OUTLETING DOWN BENT #5 INTO DISSIPATOR PAD.



MATCHLINE TO SHEET 4
-L- STA. 2+1+00

MATCHLINE TO SHEET 6
-L- STA. 34+00



- FOR -L- PROFILE SEE SHEET 8 PAVEMENT REMOVAL
- MITIGATION EXCAVATION FOR -L- PROFILE SEE SHEET 8
- HAND CLEARING LIMITS




REVISIONS

12-07-07 R/W REVISION ADJUSTED EASEMENT TO PARCEL NO.7 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.

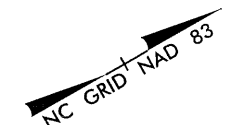
8/17/99

DATE & FILES

8/17/09

-  DENOTES RESTORED WETLANDS
-  DENOTES HAND CLEARING
-  DENOTES FILL IN WETLAND

PROJECT REFERENCE NO. B-3684	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Permit Drawing Sheet 10 of 35 Rev. 9/24/10	
50 0 100	



ENGLISH

USE METHOD 3 FOR CLEARING AND GRUBBING

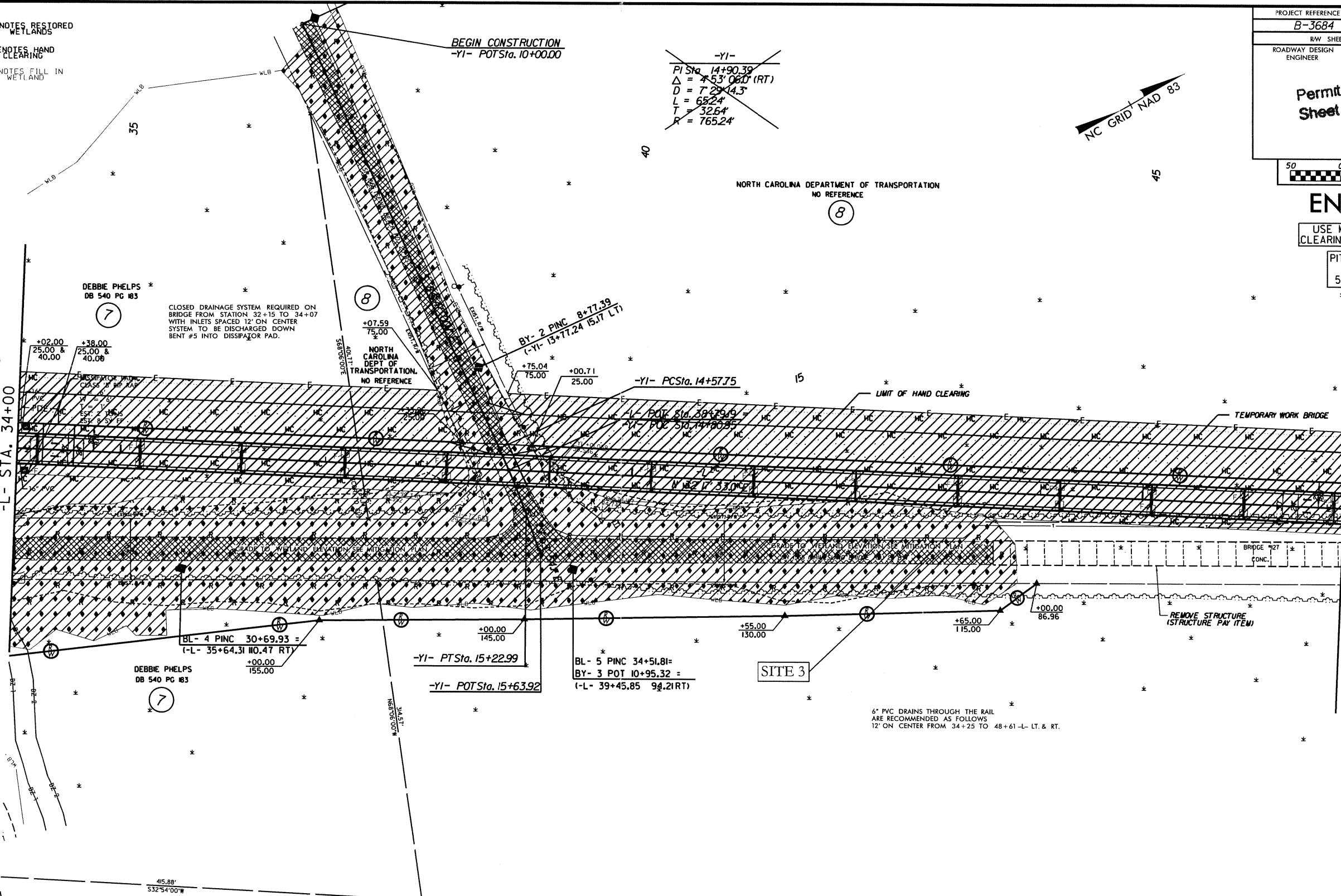
PITT COUNTY
SR 1565
5/23/2009

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE

8

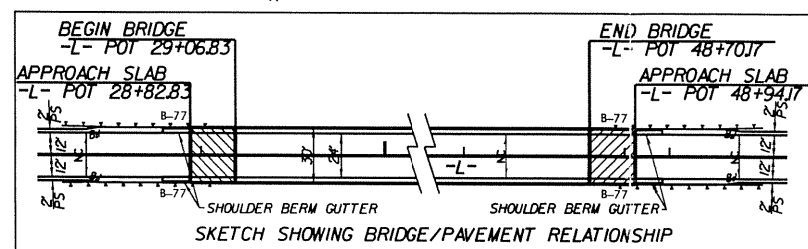
MATCHLINE TO SHEET 5
-L- STA. 34+00

MATCHLINE TO SHEET 7
-L- STA. 47+00






CLOSED DRAINAGE SYSTEM REQUIRED ON BRIDGE FROM STATION 32+15 TO 34+07 WITH INLETS SPACED 12' ON CENTER SYSTEM TO BE DISCHARGED DOWN BENT #5 INTO DISPOSAL PAD.

6" PVC DRAINS THROUGH THE RAIL ARE RECOMMENDED AS FOLLOWS
12' ON CENTER FROM 34+25 TO 48+61 -L- LT. & RT.



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NO REFERENCE

8

-  PAVEMENT REMOVAL
-  MITIGATION EXCAVATION
-  HAND CLEARING LIMITS

REVISIONS
 12-07-07 R/W REVISION ADJUSTED EASEMENT TO PARCEL NO.7 & NO.8 DUE TO PERMIT DRAWING IN THE GRIMESLAND MITIGATION SITE.

DATE: 8/17/09
FILE: 1565