



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

May 21, 2010

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

N. C. Dept. of Environment and Natural Resources
Division of Coastal Management
1367 U. S. Highway 17
Elizabeth City, NC 27909

ATTN: Mr. William J. Biddlecome
NCDOT Coordinator

ATTN: Mr. Jim Hoadley
NCDOT Coordinator

Dear Sirs:

Subject: Request for a Modification to the Individual Section 404 Permit, Section 401 Water Quality Certification, and CAMA Major Development Permit for the widening of US 158/NC 34 from East of Pasquotank River to the US 158/ NC 34 split in Camden County. Federal Aid Project No. STP-158(2), Division 1, TIP No. R-2414 A & B. Debit \$570 from WBS 34430.1.1.

**Reference: Individual 404 Permit SAW 1994-02124 issued January 14, 2009
Individual 401 Certification No. 003774 issued December 18, 2008
Major CAMA Permit No. 03-09 issued January 12, 2009**

NCDOT proposes a modification to the existing Individual Section 404, 401 and CAMA Authorizations for the above referenced project. Revised permit drawings are included with this permit modification request. This modification affects both the A section (which let in March of 2009), and the B section of this project, which currently has a let date of December 21, 2010. The let date, however, may advance as additional funds become available.

Modification for Section A

Due to lower ground elevations than anticipated by surveyed drawings, current road shoulder slopes along Site 8 and Site 10 are greater than 1:1 and the roadway shoulder is eroding. An additional 0.55 acre of permanent fill in wetland areas is required to correct the roadway grade elevations to establish a wider toe of fill. Most of this fill will occur in the areas previously permitted as hand clearing. No additional clearing will be required.

Modifications for Section B

This modification will result in a 0.24 acre reduction in wetland impacts as described below.

Site 3

A wetland that was accounted for in our previous application, and later permitted has been filled by the landowner, Camden County Public Schools. Therefore Site 3 has a decrease of permanent fill from 0.3 acre to 0.1 acre, and a decrease of excavation in wetland from 0.09 to 0.05 acre. Revised drawings are included for this change.

Site 4

The existing 24" pipe that was originally planned to be retained was determined to be in need of replacement. There will be no additional impacts due to the replacement.

As utility impacts have been finalized for the B section of this project, specific impacts have been identified. All utility impacts at jurisdictional sites occur in previously permitted fill in wetlands. Therefore, no additional impacts for utilities will occur.

Below is a list of the utility impacts for the B section of this project:

Site 3

A 3-inch forced main sewer and a 10-inch water line will be installed in previously permitted fill in wetland.

Site 5

An 8-inch and 12-inch water line will be installed in previously permitted fill in wetland.

Site 6

A 12-inch water line will be installed in previously permitted fill in wetland.

Site 7

A 12-inch water line will be installed in previously permitted fill in wetland.

Impact Summary

Due to these modifications, mitigation has been requested for an additional 0.31 acre of wetlands. (0.55 acre of new impacts 0.24 acre of reduced impact.) A copy of the revised EBP acceptance letter is forthcoming.

REGULATORY APPROVALS

Section 404: Request is hereby made for a modification to the USACE Individual 404 Permit as required for the above-described activities.

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the N. C. Division of Water Quality. In compliance with Section 143 215.3D(e) of the NCAC, we will provide \$570.00 to act as payment for processing the Section 401 permit

modification previously noted in this application (see Subject line). We are providing five (5) copies of this modification request to the NCDWQ for their review and approval.

Coastal Area Management Act: Request is hereby made for modification to the Division of Coastal Management Major Development Permit for the above described activities.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Mr. Michael Turchy at maturchy@ncdot.gov or (919) 431-6696. A copy of this application will also be posted at <http://www.doh.dot.state.nc.us/preconstruct/pe/>.

Sincerely,



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

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)
Ms. Jennifer Derby, USEPA
Ms. Cathy Brittingham, NCDCM

W/o attachment (see website for attachments)

Mr. Scott McLendon, USACE, Wilmington
Mr. Travis Wilson, NCWRC
Mr. Gary Jordan, USFWS
Mr. Ron Sechler, NMFS
Ms. Anne Deaton, NCDMF
Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. Victor Barbour, P.E., Project Services Unit

Mr. Jerry Jennings, P.E., Division 1 Engineer
Mr. Clay Willis, Division 1 Environmental Officer
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Charles Cox, P.E., PDEA Project Planning Engineer
Mr. Drew Joyner, PE, Human Environment Unit Head
Mr. Clarence W. Coleman, P.E., FHWA
Ms. Beth Harmon, EEP
Mr. Phillip Ayscue, NCDOT External Audit Branch

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	7+00 -L-	18" RCP	<0.01					0.01							
2	10+75 -L- LT							<0.01							
3	12+30 -L- RT	Rip Rap	0.01												
4*	13+80 - 14+63 -L- LT		0.03												
5	15+60 - 15+75 -L- LT		<0.01												
6	16+62 - 18+17 -L- RT		0.02					0.10							
7*	16+79 - 23+30 -L- LT		0.12					0.31							
8*	20+16 - 43+00 -L- RT		1.9 (increase of 0.44)					1.07 (decrease of 0.44)							
9	24+50 - 25+12 -L- LT		0.01					0.03							
10	25+90 - 42+90 -L- LT		0.29 (increase of 0.11)					0.89 (decrease of 0.11)							
11**	43+10 -L-	3 span bridge (Length=100')										0.080		105	50
TOTALS:			2.38 (increase of 0.55)					1.75 (decrease of 0.55)				0.080		105	50

* Portion of CAMA Wetland Impacts. Total Listed in Table.

Site 3 = 0.01 ac (Fill)

Site 4 = 0.03 ac (Fill)

Site 7 = 0.01 ac (Fill); 0.05 ac (Hand Clearing)

Site 8 = <0.01 ac (Fill); 0.02 ac (Hand Clearing)

** 50 ft of existing box culvert to be removed and replaced with open channel and bridged.

NOTE: 0.79 ac of Temp Impacts in Wetlands in the Hand Clearing areas due to erosion control measures. Includes 0.77 ac and 0.02 ac of impact to 404 and CAMA wetlands, respectively.

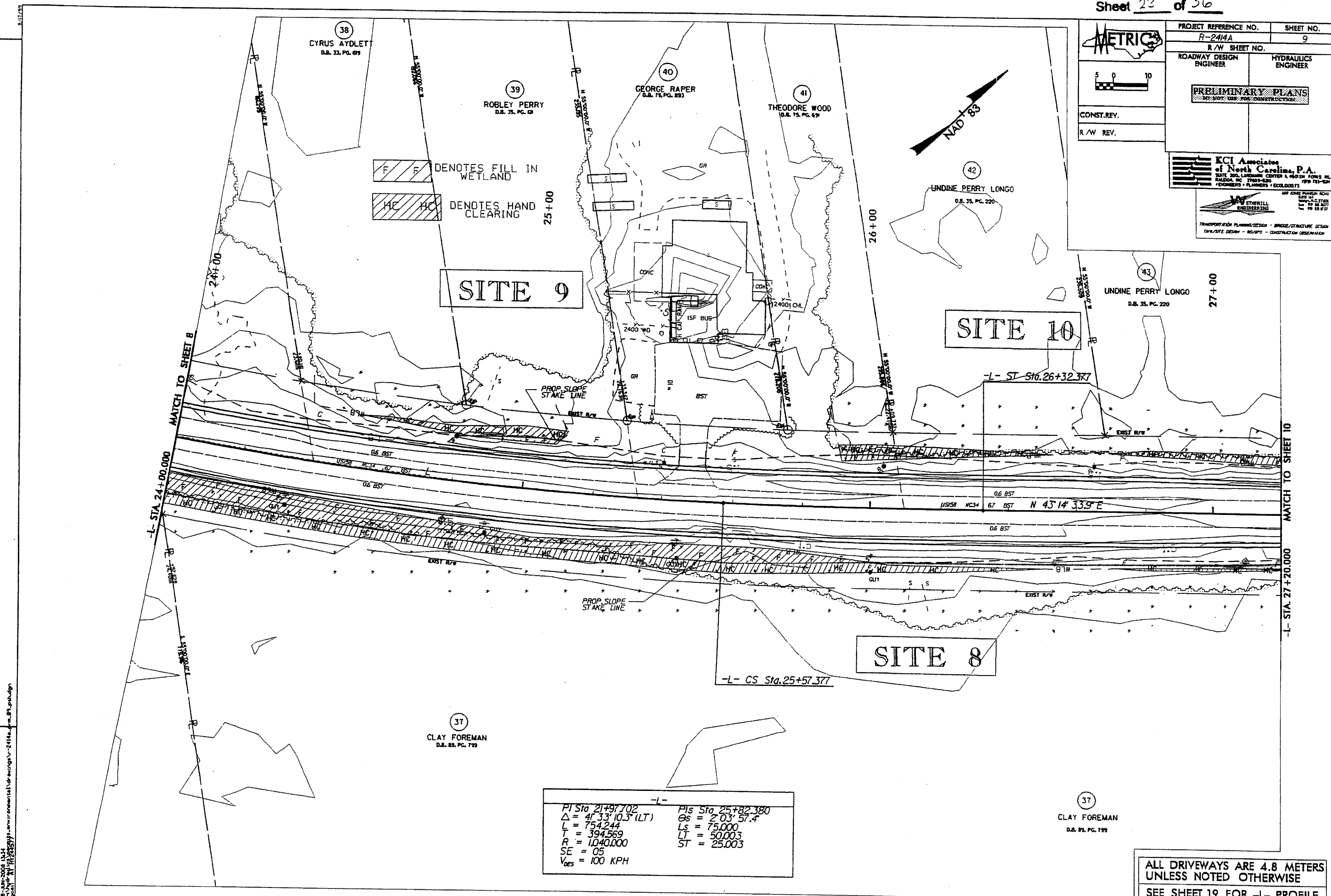
Revised May 2010
Permit Drawing
Sheet 2 of 36

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

CAMDEN COUNTY
 WBS - 34430.1.1 (R-2414A)

US 158 Widening

PROJECT REFERENCE NO. R-2414A	SHEET NO. 9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
ECI Associates of North Carolina, P.A. SUITE 200, LAYMAN CENTER & HIGHWAY FORCES RD. RALEIGH, NC 27604-4300 919-781-1241 ENGINEERS • PLANNERS • ECOCOLOGISTS	
ETHRELL ENGINEERING 100 STATE STREET, SUITE 100 RALEIGH, NC 27601 919-781-1241 ENGINEERS • PLANNERS • ECOCOLOGISTS	



PI Sta 21+97.702	PIs Sta 25+82.380
$\Delta = 47^{\circ}33'10.3"$ (LT)	$Gs = 2^{\circ}03'57.4"$
$L = 754.244$	$Ls = 75.000$
$T = 394.569$	$LT = 50.003$
$R = 1040.000$	$ST = 25.003$
$SE = 05$	
$V_{des} = 100$ KPH	

REVISIONS

20-JUN-2008 11:14
 C:\Users\j... \Documents\Environmental\2414a\23.dwg
 j...

ALL DRIVEWAYS ARE 4.8 METERS
 UNLESS NOTED OTHERWISE
 SEE SHEET 19 FOR -L- PROFILE

Revised 10/10/13
Sheet 3/2 of 56

METRICS

PROJECT REFERENCE NO. R-2414A SHEET NO. 13
R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONST. REV.
R/W REV.

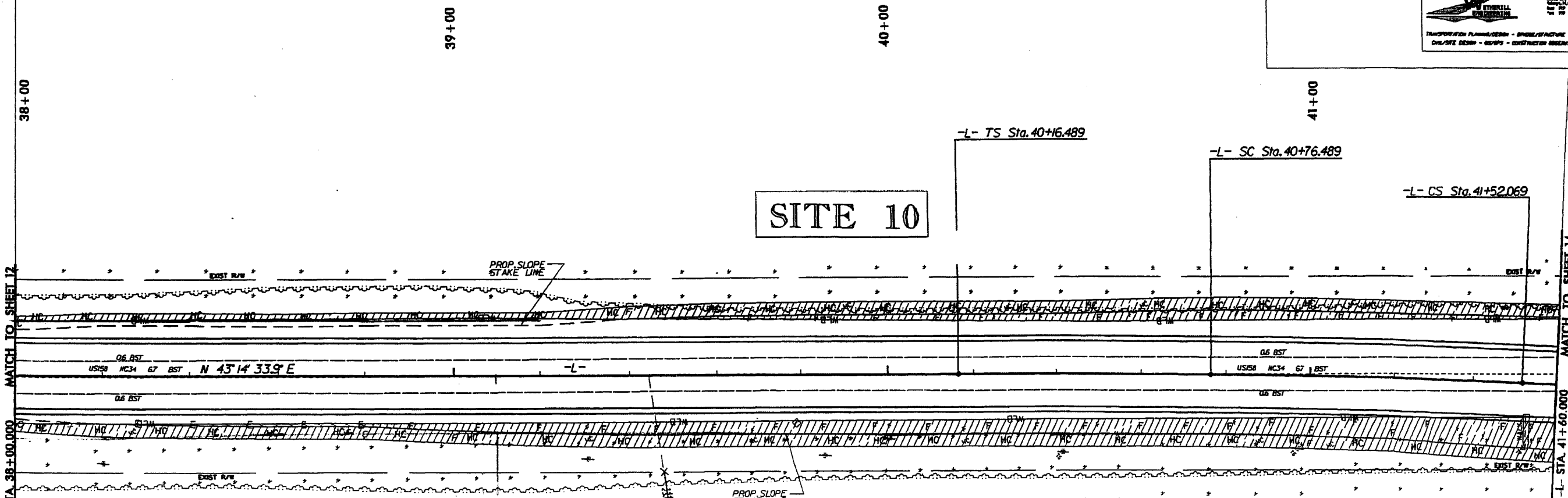
KCI Associates of North Carolina, P.A.
2000 200 LAMARCA CENTER, NORTH FORT MYERS, FL 33901
PH: 888-888-8888 FAX: 888-888-8888
WWW.KCI-ASSOCIATES.COM

W. STUBBS ENGINEERING
1000 W. WILSON ST., SUITE 100, RALEIGH, NC 27601
PH: 919-876-1111 FAX: 919-876-1112
WWW.WSTUBBS.COM

TRANSPORTATION PLANNING DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GEOTECHNICAL - CONSTRUCTION OBSERVATION

DENOTES EXCAVATION IN WETLAND
 DENOTES FILL IN WETLAND
 DENOTES HAND CLEARING

53
COLLEGE OF THE ALBEMARLE
D.B. 86, PG. 362



SITE 10

SITE 8

REVISIONS

MATCH TO SHEET 12

L- STA. 38+00.000

MATCH TO SHEET 14

L- STA. 41+60.000

54
ROBERT LUTHER
D.B. 86, PG. 843

85
PECAN FARMS, LLC
D.B. 237, PG. 729

PIs Sta. 40+56.489 Gs = 0' 4" 15.2" Ls = 60.000 LT = 40.000 ST = 20.000	-L- PI Sta. 41+14.282 $\Delta = 1' 43' 55.8" (RT)$ L = 75.580 T = 37.793 R = 2,500.000 SE = RC V _{DES} = 100 KPH	PIs Sta. 41+72.069 Gs = 0' 4" 15.2" Ls = 60.000 LT = 40.000 ST = 20.000
---	--	---

ALL DRIVEWAYS ARE 4.8 METERS UNLESS NOTED OTHERWISE
SEE SHEET 21 FOR -L- PROFILE

10/10/13 10:48 AM
 C:\Users\jlp\Documents\Drawings\2414\2414-3-13.psd.dwg
 13/10/13 10:48 AM

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)			
1	-L- 47+83 LT / 47+94 RT	1 @ 30" RCP						0.01						
2	-L- 51+60 LT / 51+95 RT	1 @ 30" RCP	0.09					0.05						
3	-L- 55+12 LT / 56+49 RT	1 @ 8' x 6' RCBC	0.65					0.26			0.04	0.01	121	29
	-L- 57+44 / 59+45 RT		0.10 (decrease of 0.2)		0.05 (decrease of 0.04)									
4	-L- 62+65 LT / 62+94 RT	1 @ 24" RCP	0.06					0.04						
5	-L- 67+19 LT / 67+70 RT	1 @ 30" RCP	0.08					0.06						
6	-L- 72+48 LT / 74+48 RT	2 @ 6' x 5' RCBC	0.85		0.01			0.37			0.05	0.01	92	21
Old SITE 7	-L- 82+23 / 82+43 RT	SITE DELETED												
7	-L- 88+60 / 89+28 LT	1 @ 10' x 5' RCBC	0.38					0.16			0.02	0.01	83	19
TOTALS:			2.22 (decrease of 0.2)		0.06 (decrease of 0.04)			0.95			0.11	0.03	297	69


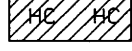

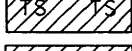
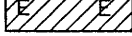
0.22 Ac of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures.

Revised *May 2010*
Permit Drawing
 Sheet 1 of 38


NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PROJECT 8:T020401 (R-2414B)
 US 158 - NC 34 WIDENING
 SHEET 1 May-10

REVISIONS

11/07/06 - REVISED ROW, TCE & PDE ON PARCEL 25 (ABP)
 R/W REVISION - REVISED PROPERTY OWNER NAMES ON PARCEL NO. 23 & 24. ADDED PARCEL NO. 24A & 25A. CORRECTED PROPERTY OWNER NAMES CHARLES H. HODGES & HOWARD S. STEVENS, HEIRS, BAM
 R/W REVISION - REVISED PROPERTY OWNER NAME ON PARCEL NO. 22. BAM

-  DENOTES FILL IN WETLAND
-  DENOTES HAND CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES EXCAVATION IN WETLAND

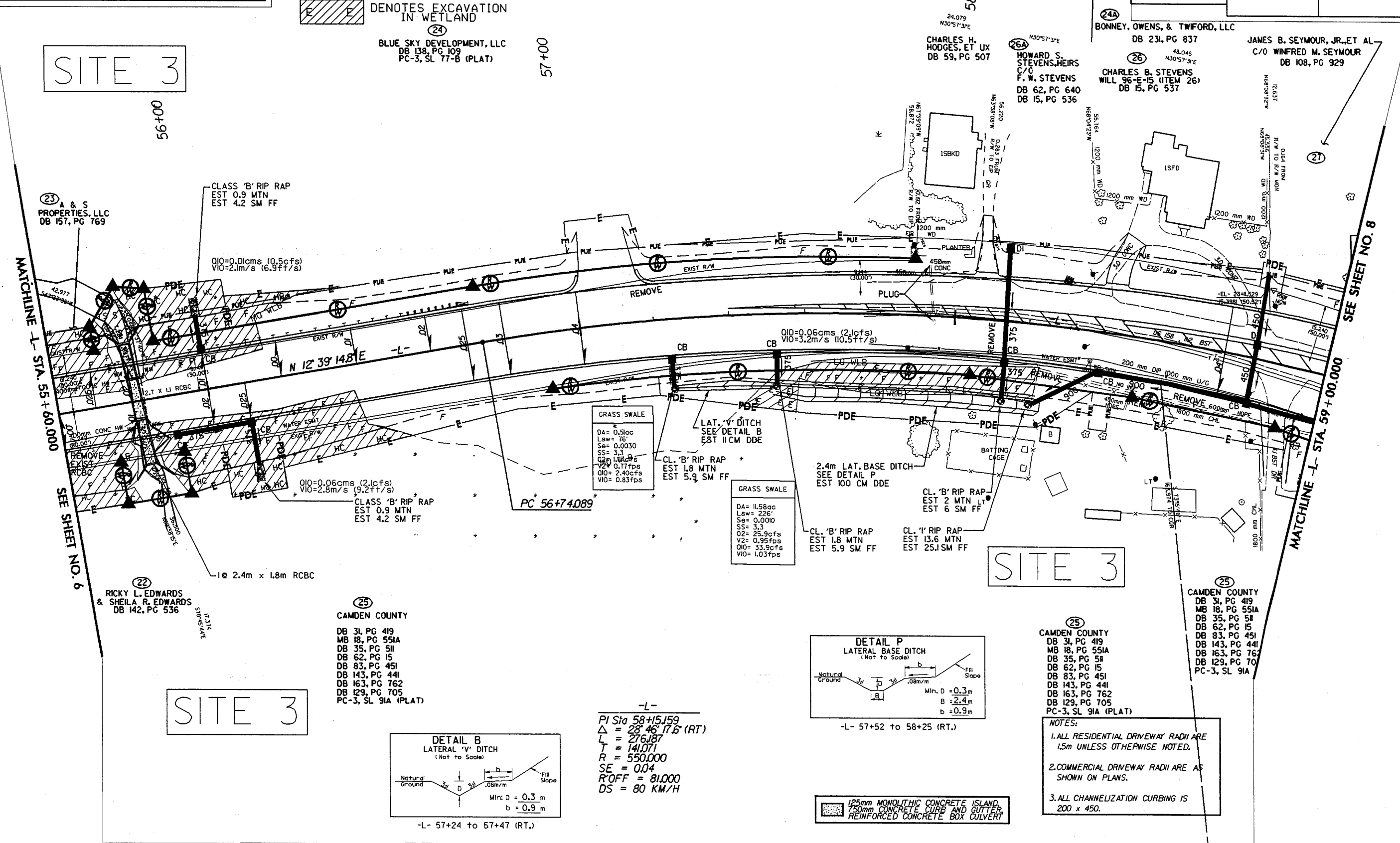
Revised May 2010
 Permit Drawing
 Sheet 16 of 38


 TRAN SITE CONSULTING
 ENGINEERS, INC. 01/14/13
 200 Parsons Drive, Suite G-10
 Raleigh, N.C. 27609

PROJECT REFERENCE NO. R-2414B	SHEET NO. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
(Note: For Construction)	

BLUE SKY DEVELOPMENT, LLC
 DB 138, PG 105
 PC-3, SL 77-B (PLAT)

SITE 3

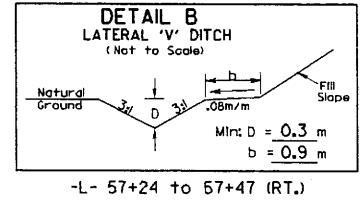


GRASS SWALE
 DA = 0.51cc
 Lsw = 76'
 Ss = 0.0030
 SS = 3.3
 Q₂₅ = 1.84 cfs
 V₂ = 0.77 fps
 Q₁₀ = 2.40 cfs
 V₁₀ = 0.83 fps

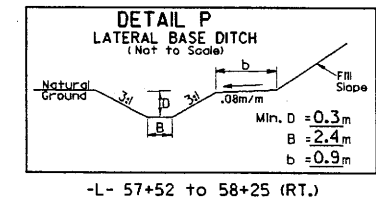
GRASS SWALE
 DA = 11.58cc
 Lsw = 226'
 Ss = 0.0010
 SS = 3.3
 Q₂₅ = 25.9 cfs
 V₂ = 0.95 fps
 Q₁₀ = 33.9 cfs
 V₁₀ = 1.03 fps

CAMDEN COUNTY
 DB 31, PG 419
 MB 18, PG 551A
 DB 35, PG 511
 DB 62, PG 15
 DB 83, PG 451
 DB 143, PG 441
 DB 163, PG 762
 DB 129, PG 705
 PC-3, SL 91A (PLAT)

CAMDEN COUNTY
 DB 31, PG 419
 MB 18, PG 551A
 DB 35, PG 511
 DB 62, PG 15
 DB 83, PG 451
 DB 143, PG 441
 DB 163, PG 762
 DB 129, PG 705
 PC-3, SL 91A (PLAT)



-L-
 PI Sta 58+15.59
 Δ = 28° 46' 17.6" (RT)
 L = 276.187
 T = 141.071
 R = 550.000
 SE = 0.04
 R'OFF = 81.000
 DS = 80 KM/H



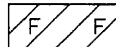
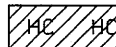
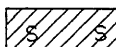
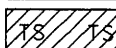
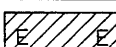
125mm MONOLITHIC CONCRETE ISLAND
 150mm CONCRETE CURB AND GUTTER
 REINFORCED CONCRETE BOX CULVERT

- NOTES:**
1. ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 2. COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 3. ALL CHANNELIZATION CURBING IS 200 x 450.

11/14/2008 06:57
 I:\proj\2414b\2414b.dwg
 11/14/2008 06:57
 11/14/2008 06:57

REVISIONS

11/07/06 - REVISED ROW, TCE & PDE ON PARCEL 25.(ABP)
 R/W REVISION - REVISED PROPERTY OWNER NAMES ON PARCEL NO.23 & 24. ADDED PARCEL NO.24A & 25A. CORRECTED PROPERTY OWNER NAMES CHARLES H.HODGES & HOWARD S.STEVENS, HEIRS, BAW
 R/W REVISION - REVISED PROPERTY OWNER NAME ON PARCEL NO.22. BAW

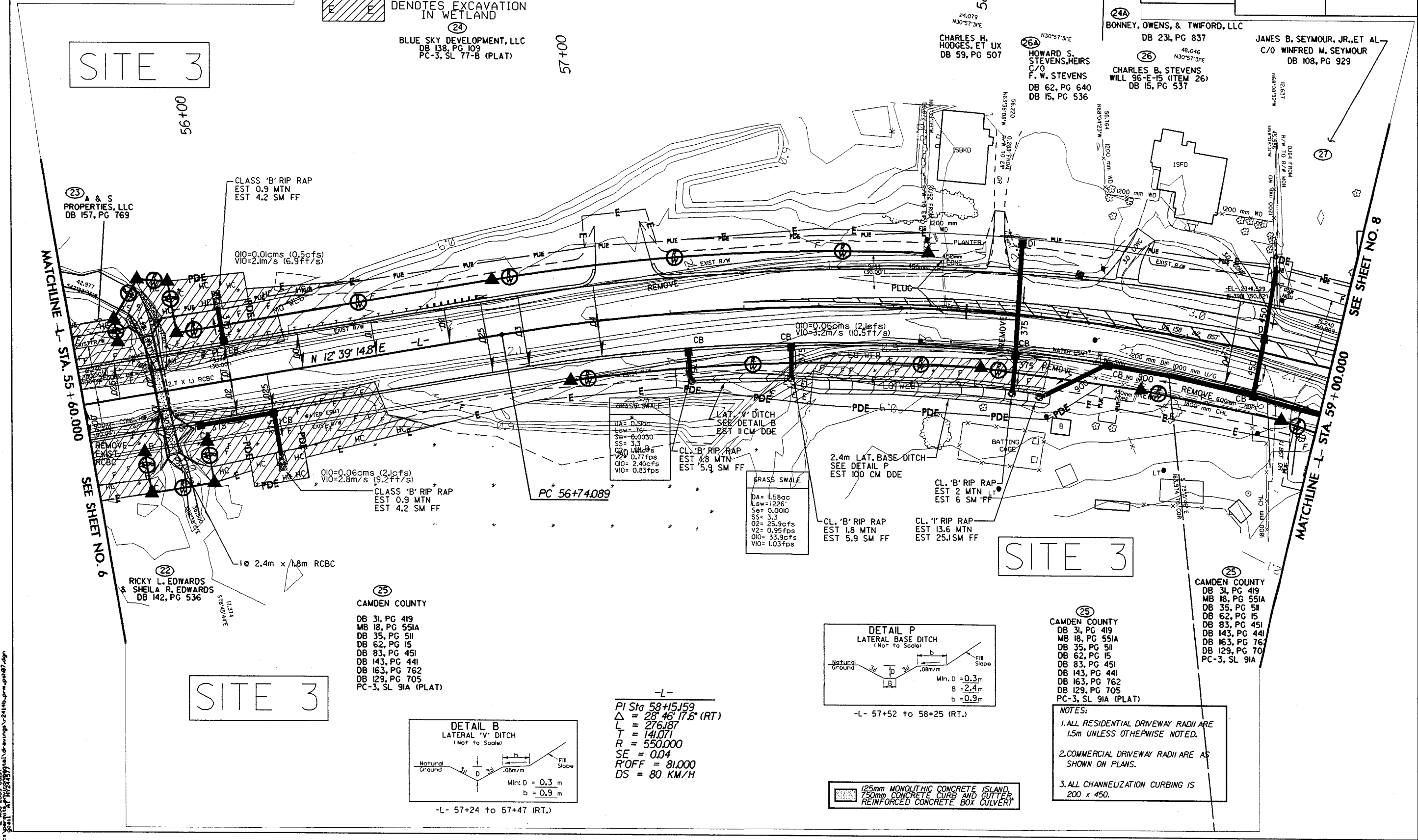
-  DENOTES FILL IN WETLAND
-  DENOTES HAND CLEARING
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES EXCAVATION IN WETLAND

Revised May 2010
 Permit Drawing
 Sheet 17 of 38

WETHERILL ENGINEERING
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GS/OPS - CONSTRUCTION OBSERVATION

TRANSITE CONSULTING ENGINEERS, INCORPORATED
 300 Peacock Drive, Suite G-10
 Raleigh, N.C. 27609

PROJECT REFERENCE NO. R-2414B	SHEET NO. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
CONST. REV.	
R/W REV.	



SITE 3

SITE 3

MATCHLINE -L- STA. 55+60.000

MATCHLINE -L- STA. 59+00.000

23 A & S PROPERTIES, LLC
 DB 157, PG 769

22 RICKY L. EDWARDS & SHEILA R. EDWARDS
 DB 142, PG 536

24 BLUE SKY DEVELOPMENT, LLC
 DB 138, PG 109
 PC-3, SL 77-B (PLAT)

CHARLES H. HODGES, ET UX
 DB 59, PG 507

26A HOWARD S. STEVENS, HEIRS C/O F. W. STEVENS
 DB 62, PG 640
 DB 15, PG 536

26 CHARLES B. STEVENS
 WILL 96-E-15 (ITEM 26)
 DB 15, PG 537

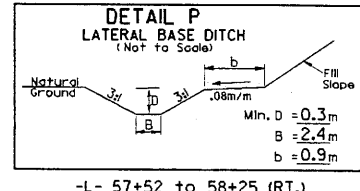
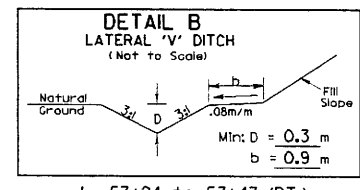
BONNEY, OWENS, & TWIFORD, LLC
 DB 231, PG 837

JAMES B. SEYMOUR, JR., ET AL
 C/O WINFRED M. SEYMOUR
 DB 108, PG 929

25 CAMDEN COUNTY
 DB 31, PG 419
 MB 18, PG 551A
 DB 35, PG 511
 DB 62, PG 15
 DB 83, PG 451
 DB 143, PG 441
 DB 163, PG 762
 DB 129, PG 705
 PC-3, SL 91A (PLAT)

25 CAMDEN COUNTY
 DB 31, PG 419
 MB 18, PG 551A
 DB 35, PG 511
 DB 62, PG 15
 DB 83, PG 451
 DB 143, PG 441
 DB 163, PG 762
 DB 129, PG 705
 PC-3, SL 91A (PLAT)

- NOTES:**
- ALL RESIDENTIAL DRIVEWAY RADII ARE 1.5m UNLESS OTHERWISE NOTED.
 - COMMERCIAL DRIVEWAY RADII ARE AS SHOWN ON PLANS.
 - ALL CHANNELIZATION CURBING IS 200 x 450.



-L-
 PI Sta 58+15.59
 $\Delta = 28^\circ 46' 17.6''$ (RT.)
 L = 276.187
 T = 141.071
 R = 550.000
 SE = 0.04
 R/OFF = 81.000
 DS = 80 KM/H

125mm MONOLITHIC CONCRETE ISLAND,
 750mm CONCRETE CURB AND GUTTER,
 REINFORCED CONCRETE BOX CULVERT

12-AUG-2009 06:57
 Scale: 1"=100'-0" (1:1200)
 I:\projects\2414b\2414b.dwg
 I:\projects\2414b\2414b.dwg