



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

NICHOLAS J. TENNYSON
SECRETARY

October 12, 2015

Wilmington Regulatory Field Office
US Army Corps of Engineers
69 Darlington Avenue
Wilmington, North Carolina 28403

ATTN: Mr. Brad Shaver
NCDOT Coordinator

Dear Sir:

Subject: **Revised Request for Modification to Individual Section 404 and Section 401 Water Quality Certification** for the proposed construction of an extension of SR 1163 (Old Georgetown Rd) from SR 1184 (Ocean Isle Beach Rd) to NC 179 in Brunswick County, State Project 6.231023, TIP R-3432. Debit \$570.00 from WBS 35501.1.1

References: Section 404 Individual Permit issued February 26, 2013 (SAW-2007-00983)
Section 401 Water Quality Certification issued January 4, 2013 (20120935)
Section 404 IP Modification issued May 27, 2014 (SAW-2007-00983)
Section 401 WQC Modification issued May 30, 2014 (20120935v2)
Request for Modification to Individual Section 404 and Section 401 Water Quality Certification dated October 1, 2015

The purpose of this letter is to revise the permit modification request, dated October 1, 2015, for the above referenced 404 Permit and 401 Water Quality Certification. Please replace the permit drawings provided with our latest request with the enclosed revised copies.

The following addresses revisions to each permitted site:

- Site 1. Additional riprap will be added at the inlet of the 84" CAAP. Surface water impacts will increase by 0.1 acre;
- Site 2. The ditch block and special lateral ditch from Site 2 to the ditch block at 100+50 LT will be removed. No additional impacts to jurisdictional resources;
- Site 3. Riprap will be added to line the ditch from Station 106+00 to 108+67 LT, additional riprap will be added at the inlet of the main culvert to fill in the hole

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

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

WEBSITE: NCDOT.GOV

LOCATION:
CENTURY CENTER, BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

created by construction of the culvert, headwall, and wing walls. There are no additional impacts to jurisdictional resources;

- Site 4. No additional changes or impacts to jurisdictional resources;
- Site 5A. Additional riprap will be added to the bed and slopes of the relocated channel to stabilize the slopes and prevent undercutting of the log sills resulting in 97 linear ft. of permanent fill;
- Site 5B. No additional changes or impacts to jurisdictional resources.

Regulatory Approvals

Section 404: We are hereby requesting the modification described above for the USACE Individual 404 Permit signed February 26, 2013 (SAW-2007-00983), for the above-described activities.

Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the NCDWR issued January 4, 2013 (DWQ No. 20120935). 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.

A copy of this modification request and its distribution list will be posted on the NCDOT website at: <https://connect.ncdot.gov/resources/Environmental>

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at 919-707-6156 or tstanton@ncdot.gov.

Sincerely,



RWH Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit

cc:

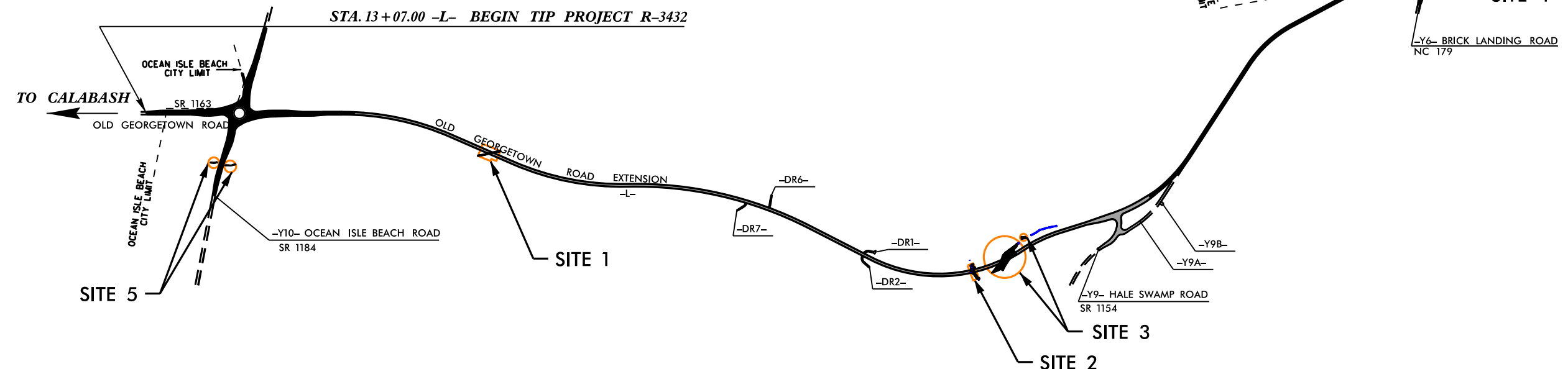
NCDOT Permit Application Standard Distribution List

VICINITY MAP

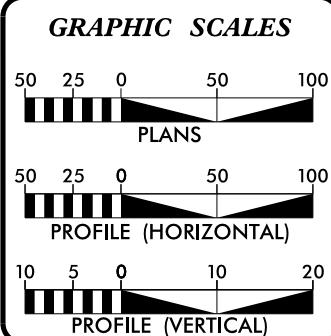
**LOCATION: SR 1163 (OLD GEORGETOWN ROAD EXTENSION) FROM SR 1184
(OCEAN ISLE BEACH ROAD) TO NC 179**

**WETLAND & SURFACE WATER
PERMIT DRAWING
REVISED 10/08/2015**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3432	1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
35501.1.1		P.E.	
35501.2.1		R/W,UTL.	
35501.3.D1		CONST.	



THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS.



DESIGN DATA

ADT 2013 = 7,312
ADT 2033 = 12,592
DHV = 55 %
D = 13 %
T = 3 % *
V = 60 MPH
* (TTST 1 % + DUAL 2 %)
FUNC. CLASS. = COLLECTOR
SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-3432	=	2.859 MILES
TOTAL LENGTH TIP PROJECT R-3432	=	2.859 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 29, 2011

LETTING DATE:
DECEMBER 17, 2013

G. E. BREW, PE
PROJECT ENGINEER

THAD F. DUNCAN, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

P.E.

SIGNATURE: _____

**ROADWAY DESIGN
ENGINEER**

SIGNATURE: _____ *P.E.*

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA




P.E.

STATE HIGHWAY DESIGN ENGINEER

TIP PROJECT: R-3432

CONTRACT: C203163

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$SYTIME$$$$$
$SYSTEM$$$$$DCN$$$$$
$USERNAME$$$$$
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REVISÉ 10/08/2015

PERMIT DRAWING
SHEET 3 OF 29

SIAD 83/NRS 2007

PROJECT REFERENCE NO. R-3432 SHEET NO. 6

RW SHEET NO. ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

REVISED 10/08/2015

PERMIT DRAWING SHEET 3 OF 29

DETAIL K
SPECIAL LATERAL "V" DITCH
(Not to Scale)
Natural Ground 2:1 D 4:1 or Flatter Fill Slope
Min. D= Var.
-L- STA. 40+82 TO STA. 41+47 (LT)

DETAIL L
SPECIAL LATERAL "V" DITCH
(Not to Scale)
Natural Ground 2:1 D 4:1 Fill Slope
Min. D= 1.0 Ft.
-L- STA. 41+50 TO STA. 45+00 (RT)

DETAIL M
SPECIAL LATERAL "V" DITCH
(Not to Scale)
Natural Ground 2:1 D 4:1 Fill Slope
Min. D= 1.5 Ft.
-L- STA. 49+26 TO STA. 57+50 (LT)

SITE 1

FILL IN SURFACE WATERS

TEMPORARY IMPACTS SURFACE WATERS

ANDREW BOLNICK, TRUSTEE

LEGEND

200' 0' 200'

GRAPHIC SCALE

FOR -L- PROFILE SEE SHEET 17


REVISIONS


HYDRO REV.: ADDED RIPRAP AT PIPE INLET 10/8/15 MGB

8/17/99

[illegible]

LEGEND

 DENOTES IMPACTS IN SURFACE WATER

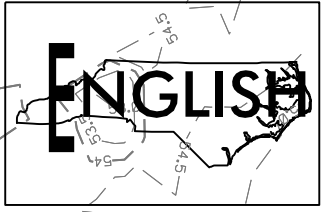
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

200' 0' 200'

GRAPHIC SCALE

FOR -L- PROFILE SEE SHEET 17

PROJECT REFERENCE NO.	SHEET NO.
R-3432	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

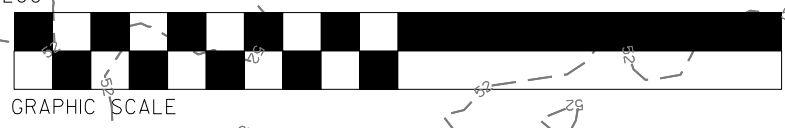
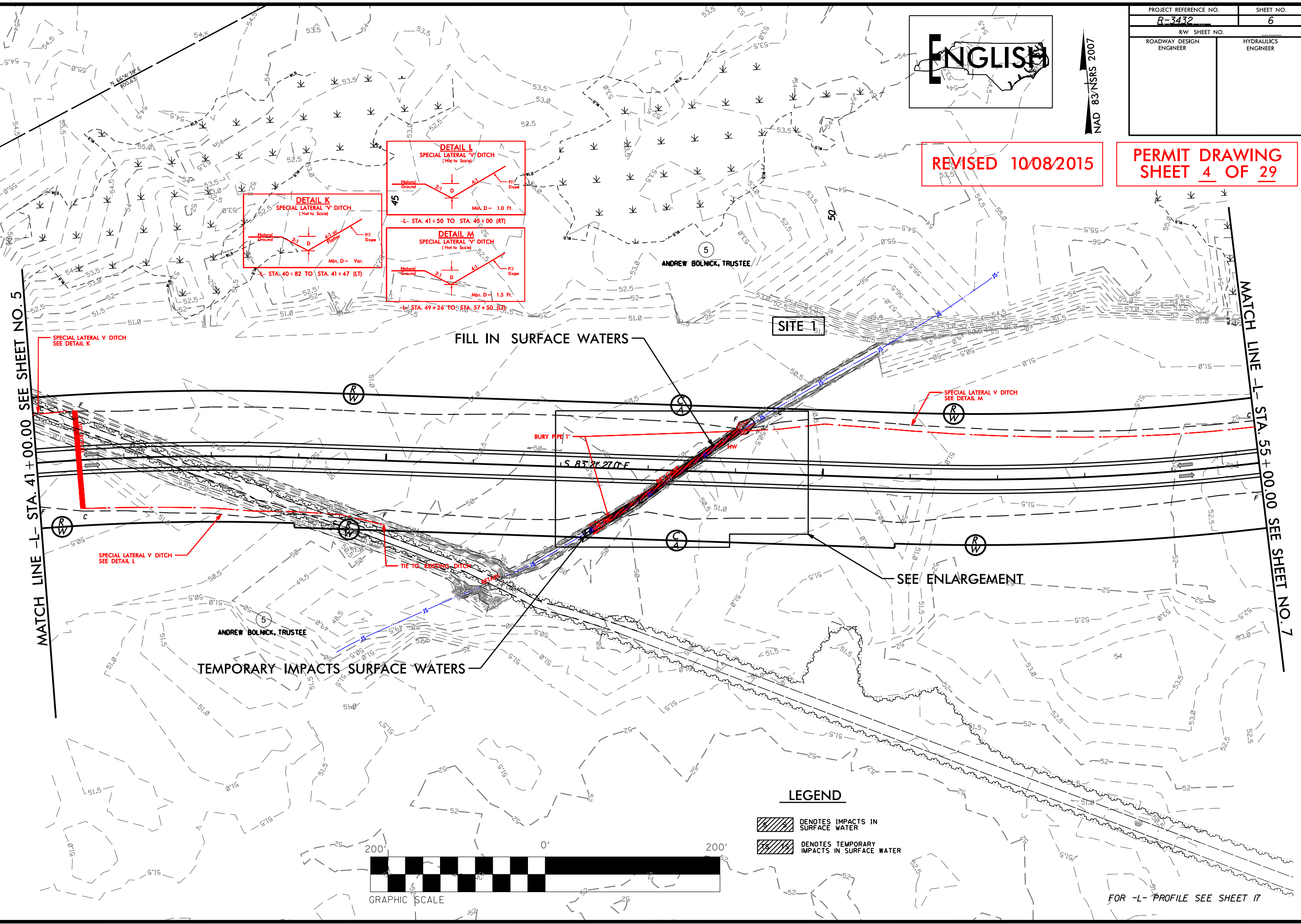


REVISED 10/08/2015

PERMIT DRAWING
SHEET 4 OF 29

REVISIONS

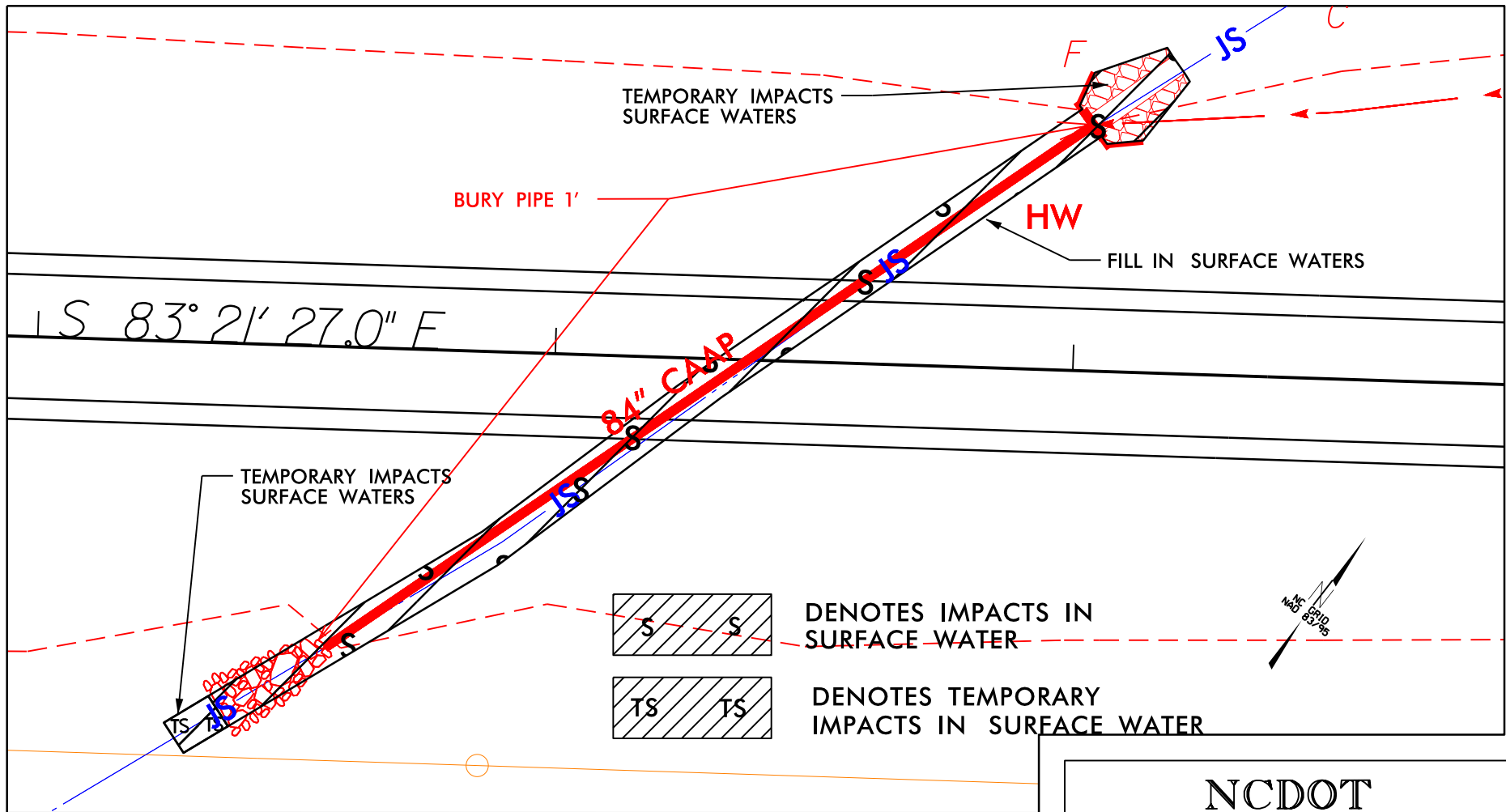
HYDRO REV.: ADDED RIPRAP AT PIPE INLET 10/8/15 MGB



LEGEND

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

FOR -L- PROFILE SEE SHEET 17



SITE 1 ENLARGEMENT

NCDOT
DIVISION OF HIGHWAYS
BRUNSWICK COUNTY
PROJECT: 35501.1.1 (R-3432)
SR 1163 (OLD GEORGETOWN RD.
EXTENSION) FROM SR 1184 (OCEAN
ISLE BEACH RD) TO NC 179

8/17/99

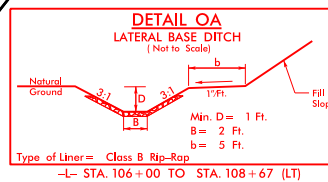
REVISIONS

HYDROLOGY REVISED PER ENVIRONMENTAL DAMAGE BASEMENT 108+60 TO 108+50 LT. 6/11/15 GSB

SYTIME
DESIGN
DATE

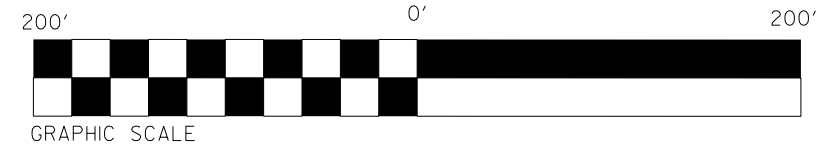
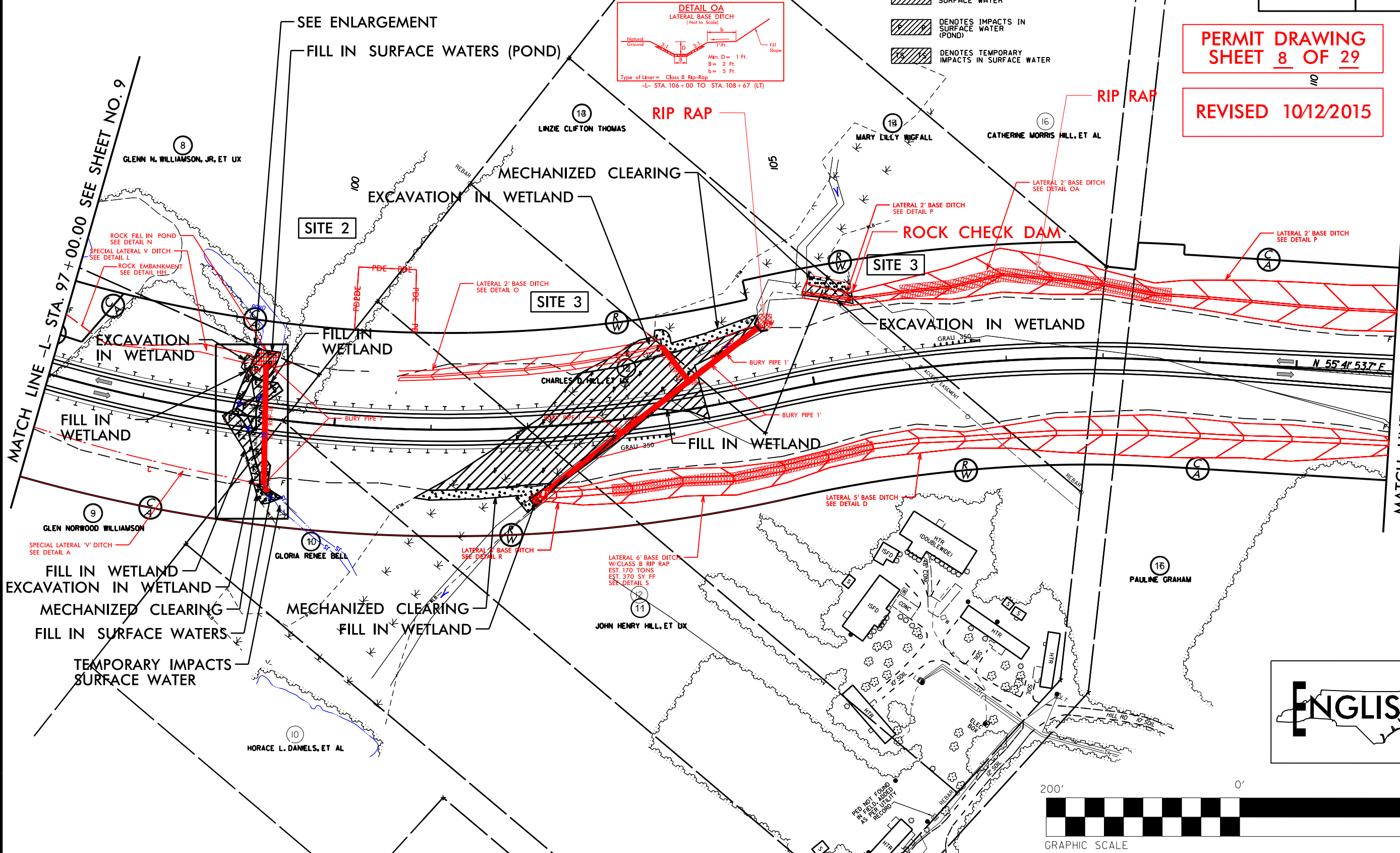
LEGEND

- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER (POND)
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PERMIT DRAWING
SHEET 8 OF 29
REVISED 10/12/2015

MATCH LINE -L- STA. 111+00.00 SEE SHEET NO. 11



FOR -L- PROFILE SEE SHEET 19

8/17/99

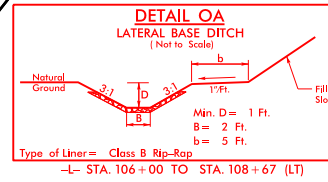
REVISIONS

HYDROLOGY REVISED PER ENVIRONMENTAL PERMIT 108+64081 8 10/08/2008 A.M. 108+50 LT. 6/11/15 GSB

SYTIME
DESIGN
DATE

LEGEND

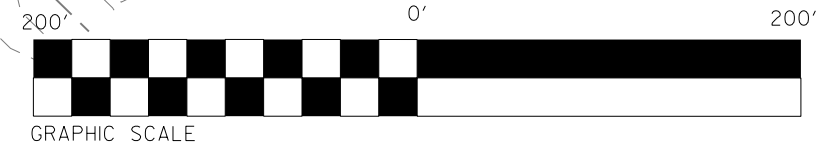
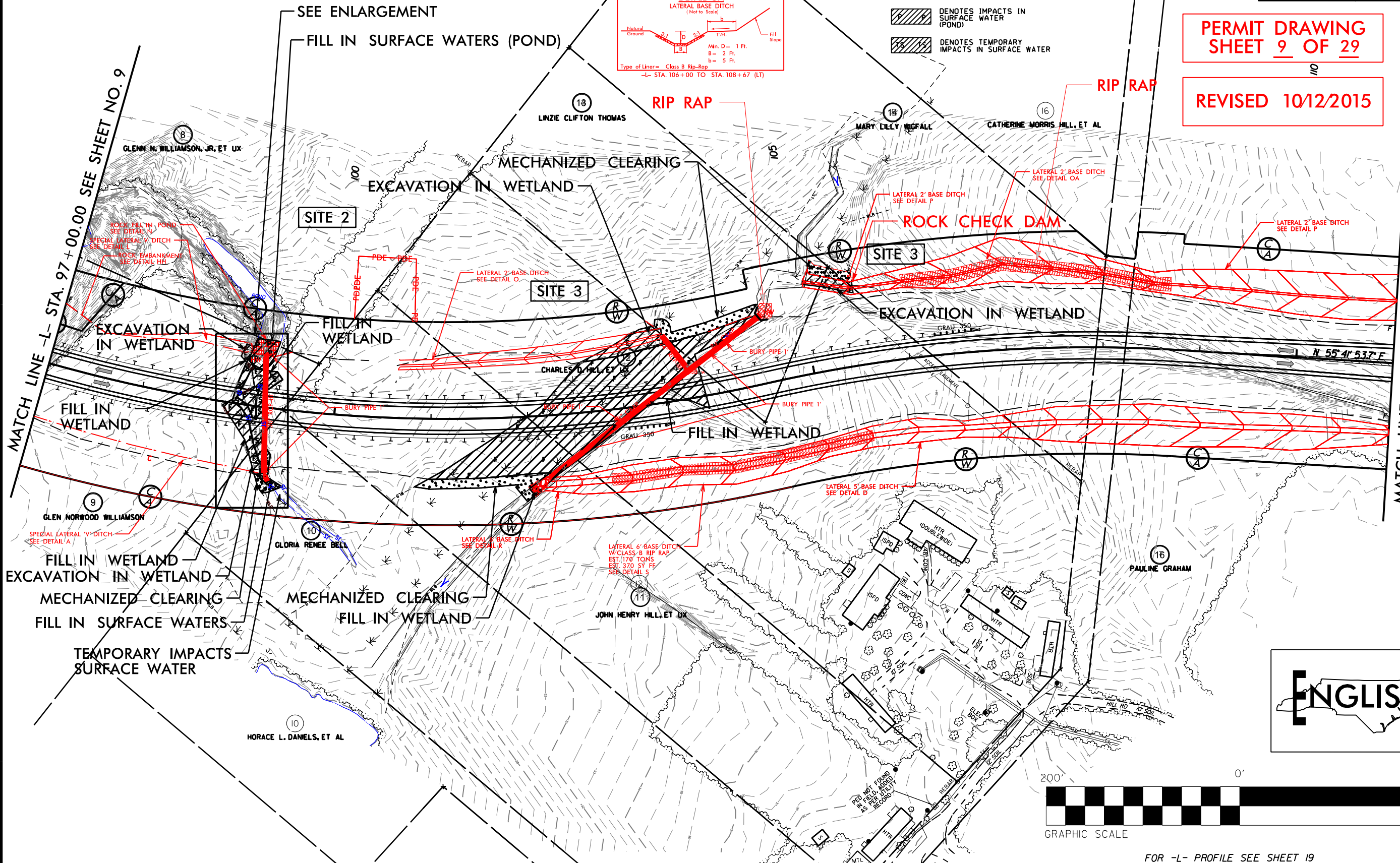
- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER (POND)
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



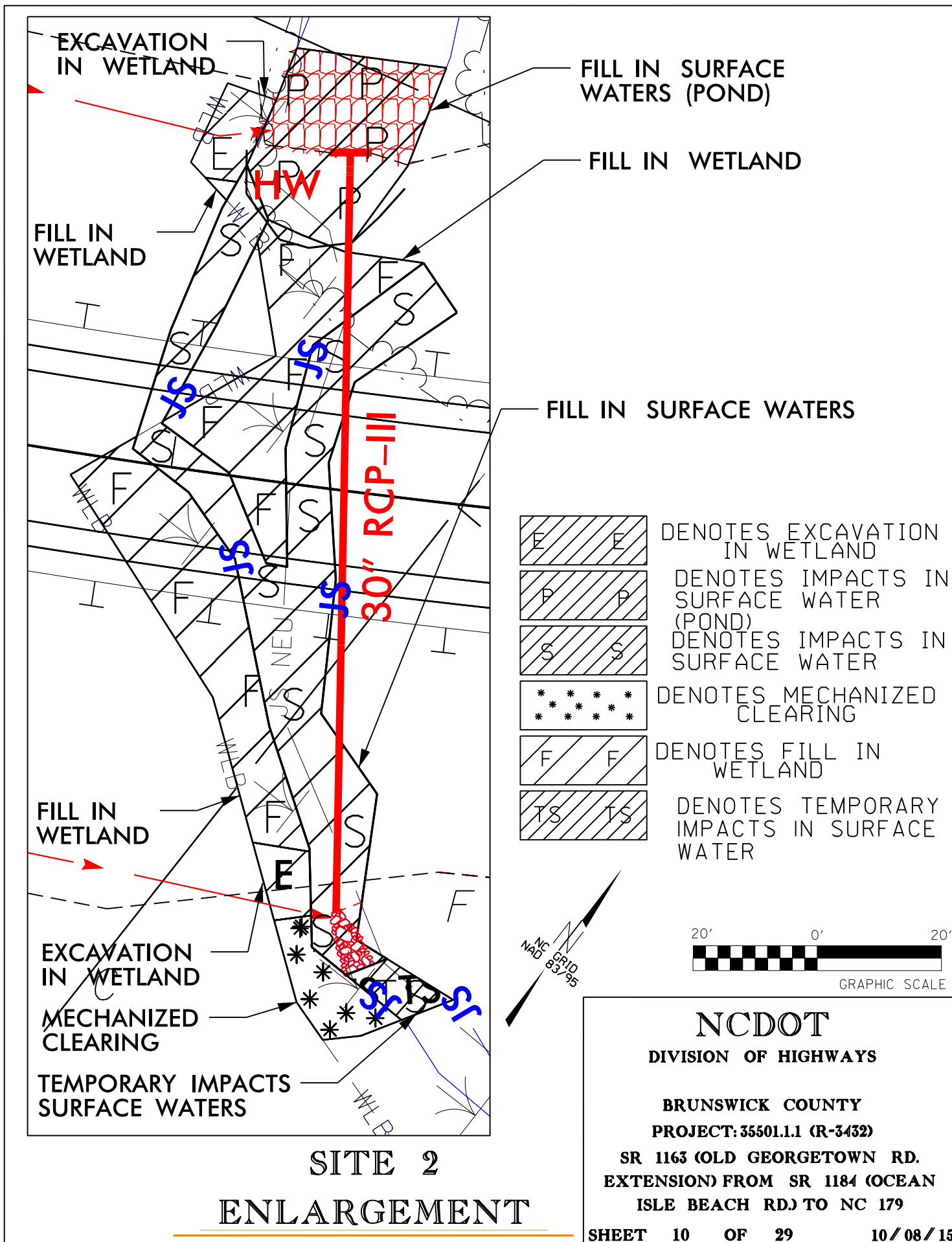
PERMIT DRAWING
SHEET 9 OF 29
REVISED 10/12/2015

MATCH LINE -L- STA. 111+00.00 SEE SHEET NO. 11

MATCH LINE -L- STA. 97+00.00 SEE SHEET NO. 9



FOR -L- PROFILE SEE SHEET 19



5/28/99

PROJECT REFERENCE NO.		SHEET NO.	
R-3432		19	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

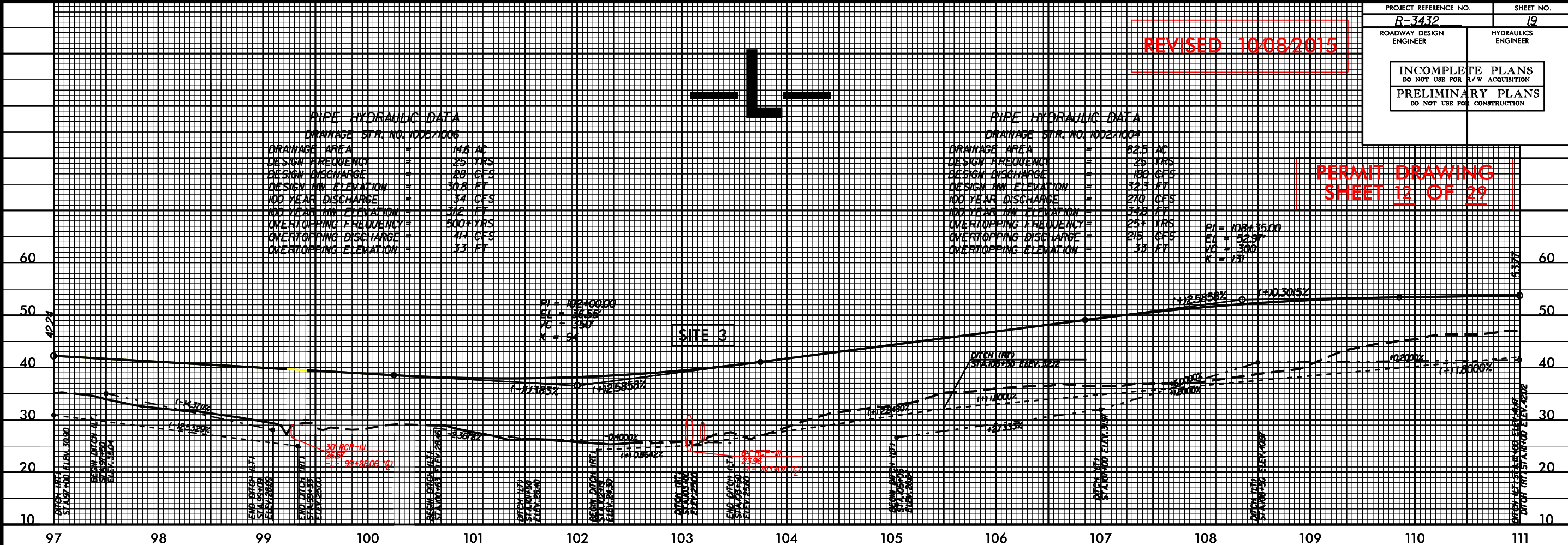
REVISED 10/08/2015

PERMIT DRAWING
SHEET 12 OF 29

PIPE HYDRAULIC DATA
DRAINAGE STR. NO. 100571006
DRAINAGE AREA = 146 AC
DESIGN FREQUENCY = 25 YRS
DESIGN DISCHARGE = 28 CFS
DESIGN HW ELEVATION = 30.8 FT
100 YEAR DISCHARGE = 34 CFS
100 YEAR HW ELEVATION = 31.2 FT
OVERTOPPING FREQUENCY = 500 YRS
OVERTOPPING DISCHARGE = 41.4 CFS
OVERTOPPING ELEVATION = 33 FT

PIPE HYDRAULIC DATA
DRAINAGE STR. NO. 100271004
DRAINAGE AREA = 82.5 AC
DESIGN FREQUENCY = 25 YRS
DESIGN DISCHARGE = 180 CFS
DESIGN HW ELEVATION = 52.5 FT
100 YEAR DISCHARGE = 210 CFS
100 YEAR HW ELEVATION = 53.8 FT
OVERTOPPING FREQUENCY = 25 YRS
OVERTOPPING DISCHARGE = 215 CFS
OVERTOPPING ELEVATION = 53 FT

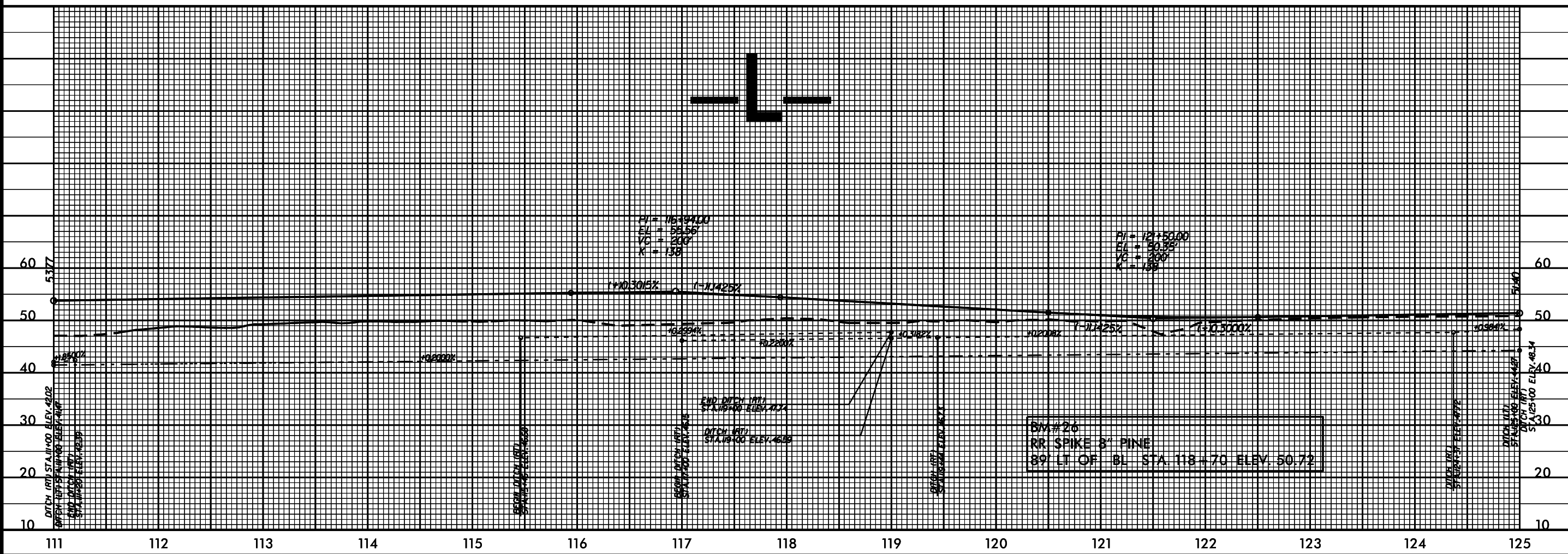
PI = 108+35.00
EL = 52.57
VC = 300
K = 131

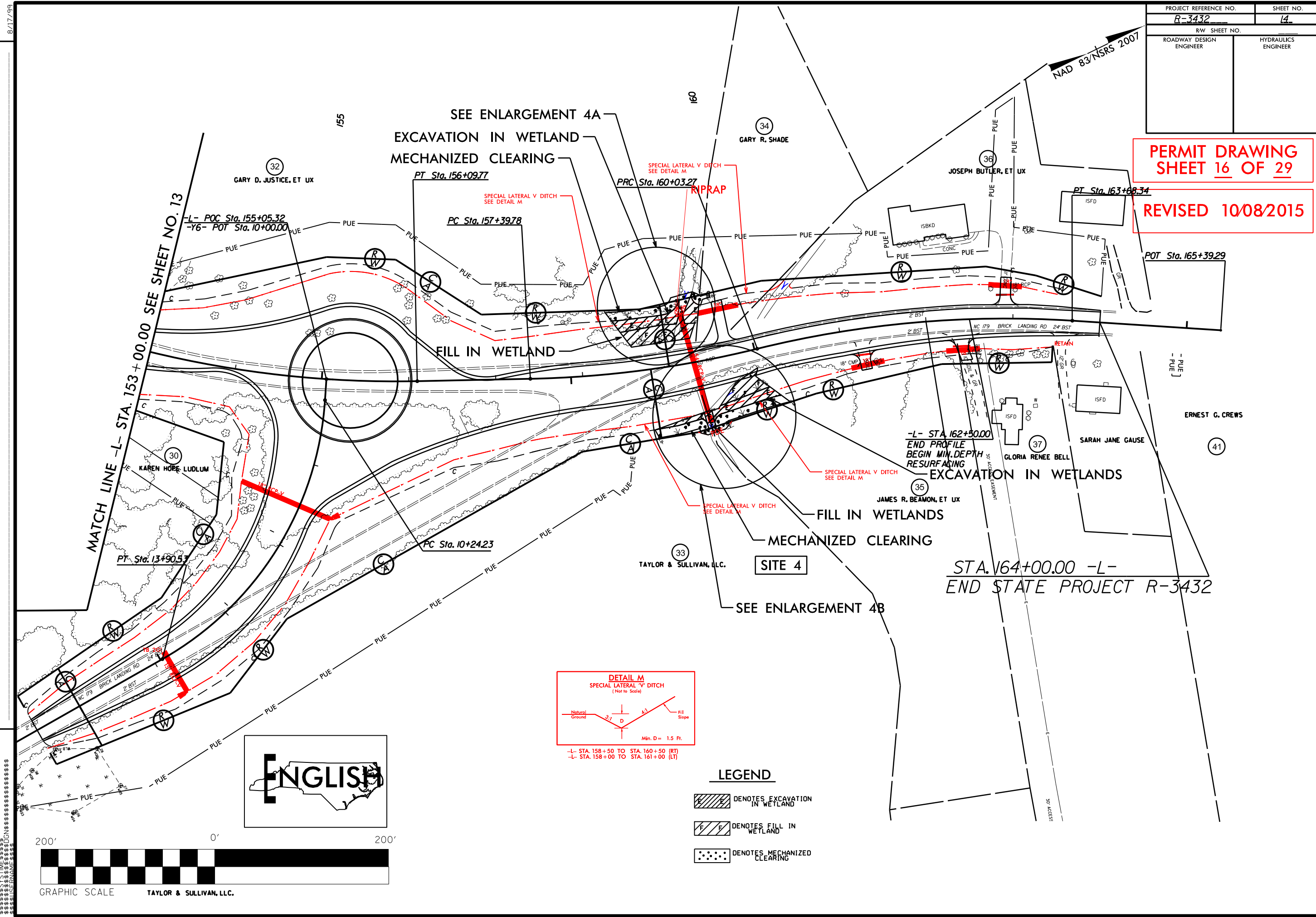


PI = 116+94.00
EL = 55.56
VC = 200
K = 130

PI = 121+50.00
EL = 50.35
VC = 200
K = 130

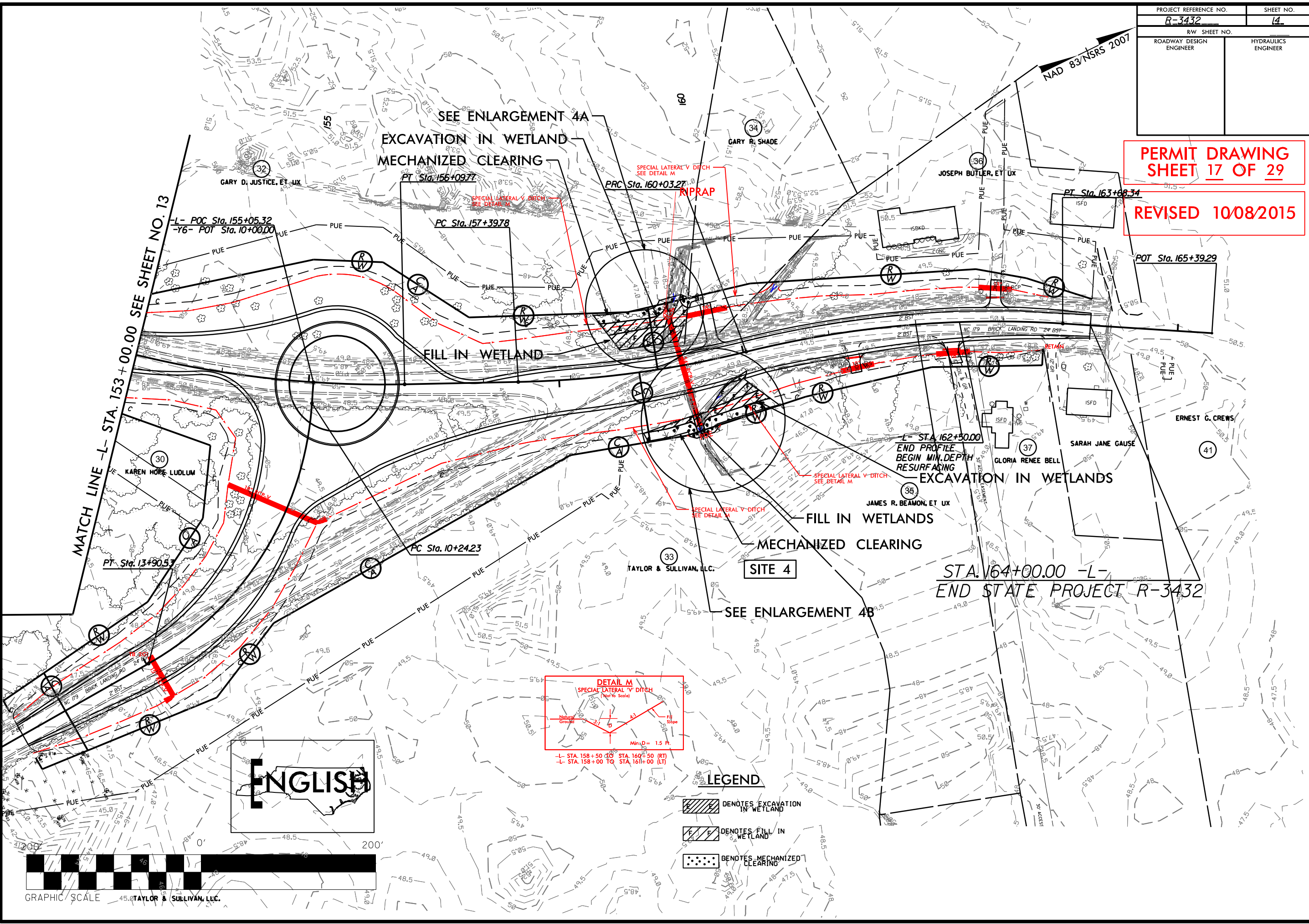
BM #26
RR SPIKE 8" PINE
89' LT OF BL STA. 118+70 ELEV. 50.72

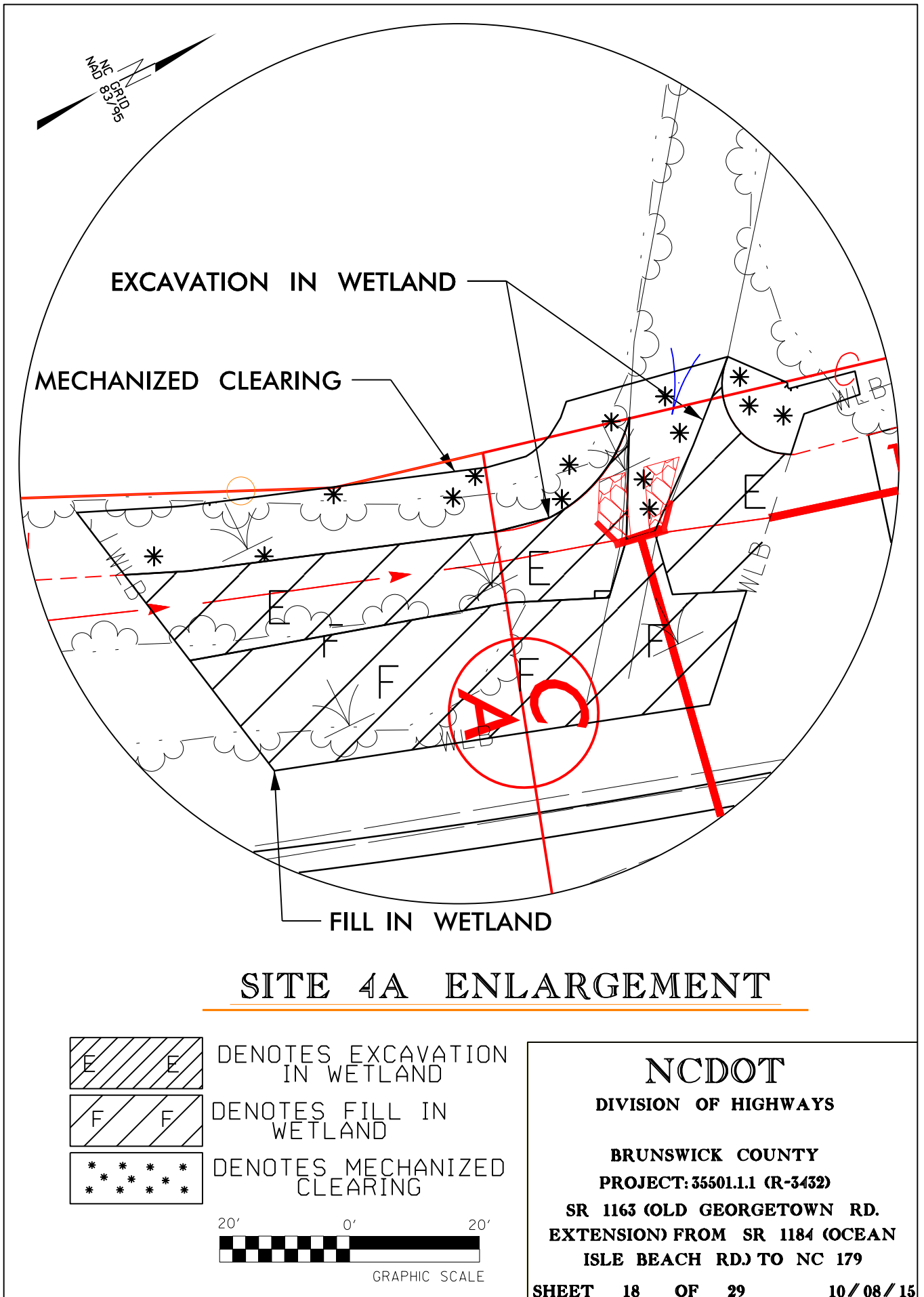




PROJECT REFERENCE NO.	SHEET NO.
R-3432	14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWING
SHEET 17 OF 29
REVISED 10/08/2015





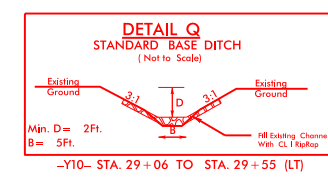
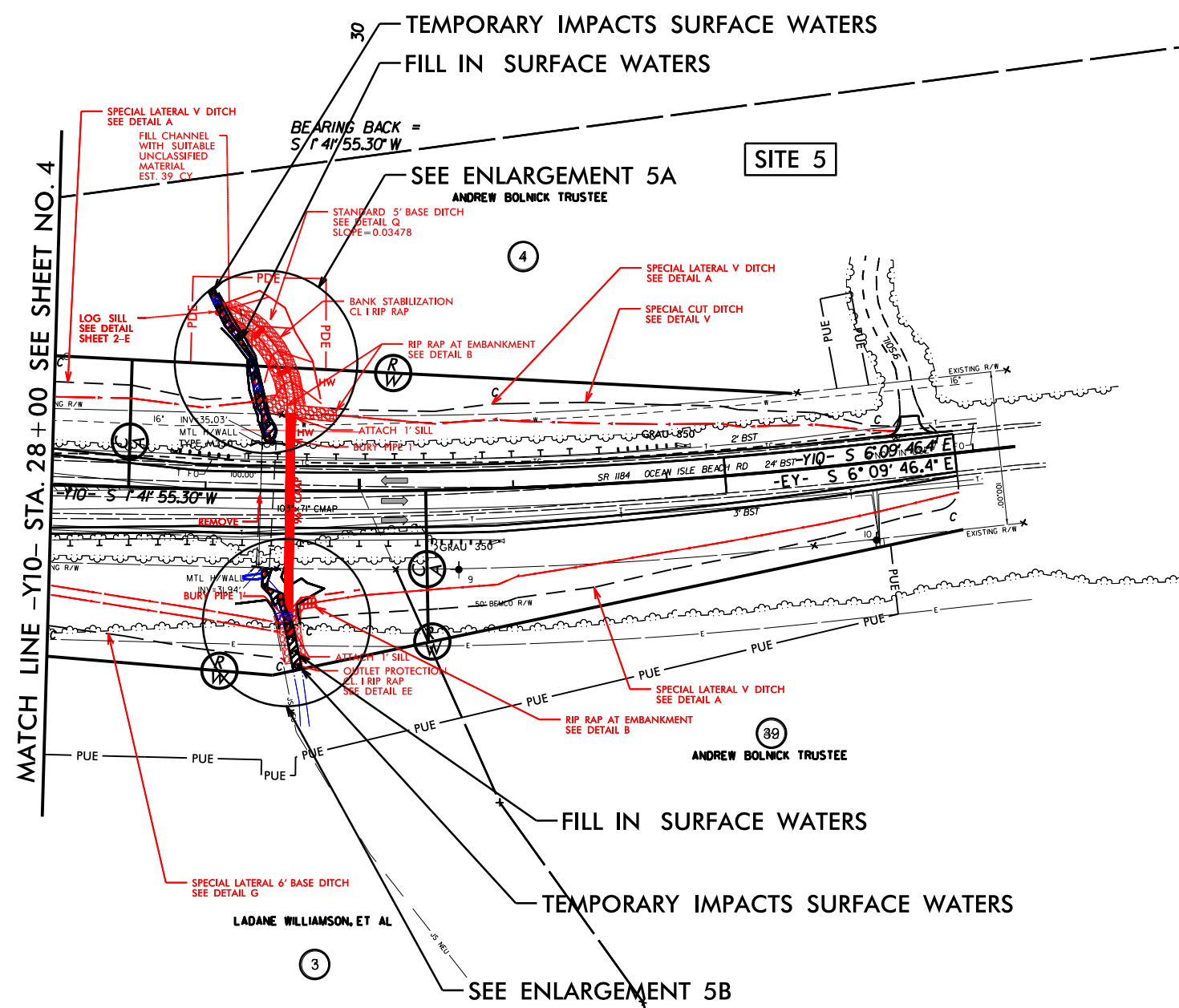
PROJECT REFERENCE NO.	SHEET NO.
R-3432	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PERMIT DRAWING
SHEET 22 OF 29

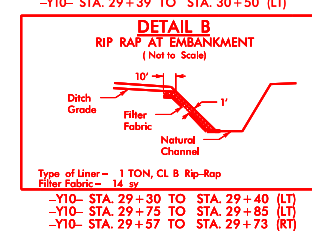
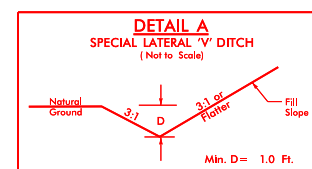
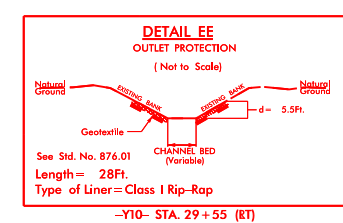
REVISED 10/08/2015

NAD 83/NSRS 2007

-Y10-
PI Sta 31+16.11
 $\Delta = 7^{\circ} 51' 41.7" (LT)$
 $D = 1^{\circ} 47' 25.8"$
 $L = 439.07'$
 $T = 219.88'$
 $R = 3,200.00'$
 $SE = .03$
 $RO = 8'$

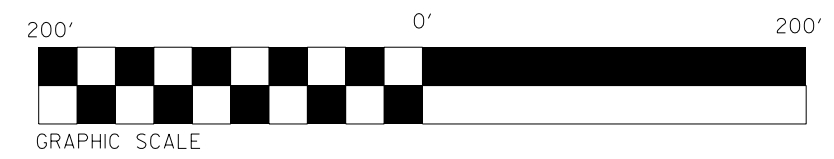
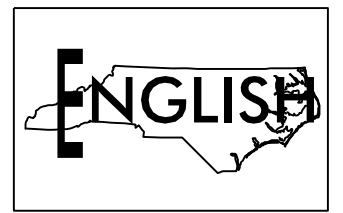


STREAMBANK REFORESTATION
TO BE USED ON BANKS



LEGEND

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



FOR -Y10- PROFILE SEE SHEET 21A

REVISIONS
HYDRO REV: REVISING INLET DITCH Q FOR RIRRAP LINING. 10/08/15 MGB

NAD 83/NSRS 2007

TEMPORARY IMPACTS SURFACE WATERS

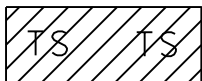
STREAMBANK
REFORESTATION

CL I RIP RAP

SILL (TYP.)

FILL IN SURFACE WATERS

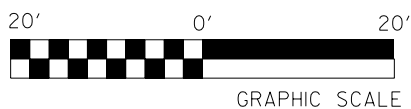
SITE 5A ENLARGEMENT



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



DENOTES IMPACTS IN
SURFACE WATER



NCDOT

DIVISION OF HIGHWAYS

BRUNSWICK COUNTY

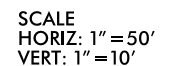
PROJECT: 35501.1.1 (R-3432)

**SR 1163 (OLD GEORGETOWN RD.
EXTENSION) FROM SR 1184 (OCEAN
ISLE BEACH RD.) TO NC 179**

SHEET 24 OF 29 10/08/15

REVISED

SHEET 26 OF 29 10 / 08 / 15



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	-L- 46+95/49+28	84" CAAP						0.04	<0.01			
2	-L- 98+85/99+39	30" RCP	0.03		<0.01	<0.01		0.05	<0.01	200	10	
3	-L- 100+97/105+53	84" CAAP	0.40		0.04	0.07						
4	-L- 158+32/160+27	54" RCP-V	0.06		0.06	0.07						
5A	-Y10- 29+37/29+63	96" CAAP						0.01	<0.01	97	10	
5B	-Y10- 29+37/29+63	96" CAAP						<0.01	<0.01	39	33	
TOTALS:			0.49		0.10	0.14		0.10	0.01	336	53	