



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

March 5, 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: Request for Modification to Individual Section 404 and Section 401 Water Quality Certification** for the proposed NC 133 Connector from NC 211-133 (Southport Supply Road) to NC 87-133 (River Road), Brunswick County. Federal Aid Project No. STP-133(3), Debit \$570.00 from WBS No. 34531.1.1, TIP R-3324

**References:** Section 404 and 401 Individual Permit Application dated December 13, 2012  
Section 404 Individual Permit issued February 6, 2013 (SAW-2001-00921)  
Section 401 Water Quality Certification issued January 25, 2013 (12-0711)  
CAMA Consistency Concurrence issued January 16, 2013 (CD13-002)

The purpose of this letter is to request a modification to the United States Army Corps of Engineers (USACE) Individual Permit and North Carolina Division of Water Resources Water Quality Certification for the above referenced project. The requested modification is to account for additional permanent wetland impacts. Also please find attached the revised: permit drawing sheets, wetland impact summary table, and NCEEP acceptance letter.

As you are aware, construction is currently underway and site conditions have necessitated a 5-foot wide mechanized clearing throughout the project. Mechanized clearing impacts to non-riparian wetlands will increase by 0.61 acre to a total of 1.04 acres. As a result hand-clearing impacts will decrease by 0.6 acre to a total of 0.54 acre. Please see the enclosed revised permit drawings.

Due to the increased mechanized clearing, the temporary fill in wetlands has decreased by 0.06. Temporary channel impacts will increase by 38 feet due to an oversight where the impact was previously shown but not accounted for in impact tables. These changes are reflected in the revised wetland impact summary sheet.

Compensatory mitigation for the additional 0.61 acre of non-riparian wetland impacts will be provided by the N.C. Ecosystem Enhancement Program. This brings total project wetland impacts to 9.45 acres (1.51 riparian, 7.94 non-riparian).

### **Regulatory Approvals**

Section 404: We are hereby requesting the modifications described above for the USACE Individual 404 Permit signed February 6, 2013 (SAW-2001-00921), for the above-described activities.


Section 401: We are hereby requesting a modification to the 401 Water Quality Certification from the NCDWQ issued January 25, 2013 (12-0711). 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.

CAMA: We are hereby requesting the modification if determined necessary, to the CAMA Consistency Concurrence issued by NCDOT on January 16, 2013.

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 John Merritt at 919-707-6140 or [jsmerritt@ncdot.gov](mailto:jsmerritt@ncdot.gov).

Sincerely,



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

cc:

NCDOT Permit Application Standard Distribution List.



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Ecosystem Enhancement Program

Donald R. van der Vaart  
Secretary

March 4, 2015

Mr. Richard W. Hancock, P.E.  
Manager, Project Development & Environmental Analysis Unit  
North Carolina Department of Transportation  
1548 Mail Service Center  
Raleigh, North Carolina 27699-1548

Dear Mr. Hancock:

Subject: EEP Mitigation Acceptance Letter:

**R-3324**, New Route from NC 211 to NC 87 at SR 1525 (Bethel Road),  
Brunswick County

References: USACE 404 Individual Permit issued February 21, 2013 (USACE Action ID  
2001-00921)

NCDWR 401 Water Quality Certification issued January 25, 2013 (NCDWR  
Project ID 2012-0711)

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the additional wetland mitigation for the subject project. Based on the information supplied by you on March 4, 2015, the additional wetland impacts are located in CU 03030005 of the Cape Fear River Basin in the Southern Outer Coastal Plain (SOCP) Eco-Region, and are as follows:

**Table 1 – Additional Impacts (feet / acres)**

Cape Fear 03030005 SOCP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1 (3:1)	Zone 2 (1.5:1)
Impacts (feet/acres)	0	0	0	0.00	0.61	0	0	0

These impacts and associated mitigation needs were not projected by the NCDOT in the 2015 impact data. EEP is currently providing stream and wetland (riparian and non-riparian) mitigation for the impacts associated with this project located in cataloging unit 03030005 of the Cape Fear River basin as required by the 404 and 401 permits that were issued in 2013, as shown in the below table (in mitigation credits):

Mr. Hancock  
TIP R-3324 Additional  
March 4, 2015  
Page Two

**Table 2 – Current Permitted Impacts and Mitigation Requirements (based on 2013 permits) and Revised Anticipated Impacts (based on mitigation request)**

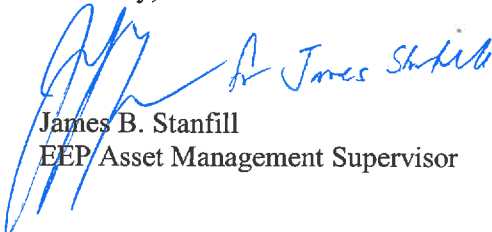
<b>Impact Type</b>	<b>Total Permitted Impacts (feet / acre)</b>	<b>Mitigation Provided by EEP per Issued Permits (Credits)</b>	<b>Additional Impact (for approval)</b>	<b>Revised Total Impacts*</b>
Stream	992.0	1,984.0	0	992.0
Riparian Wetland	1.51	3.02	0.00	1.51
Non-Rip Wetland	7.33	13.17	0.61	7.94

\*Some of the stream and wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details. EEP will provide the amount of mitigation as determined by the regulatory agencies.

EEP has previously made debits for the stream and wetland mitigation requirements to mitigation sites available in the cataloging unit based on the amounts required in the 404 and 401 permits issued in 2013. Upon issuance of the permit modifications for the project, EEP will make appropriate adjustments to the existing mitigation debits. .

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,



James B. Stanfill  
EEP Asset Management Supervisor

Cc: Mr. Brad Shaver, USACE – Wilmington Regulatory Field Office  
Mr. Mason Herndon, NC Division of Water Quality  
Mr. Steve Sollod, NC Division of Coastal Management  
File: R-3324 Additional





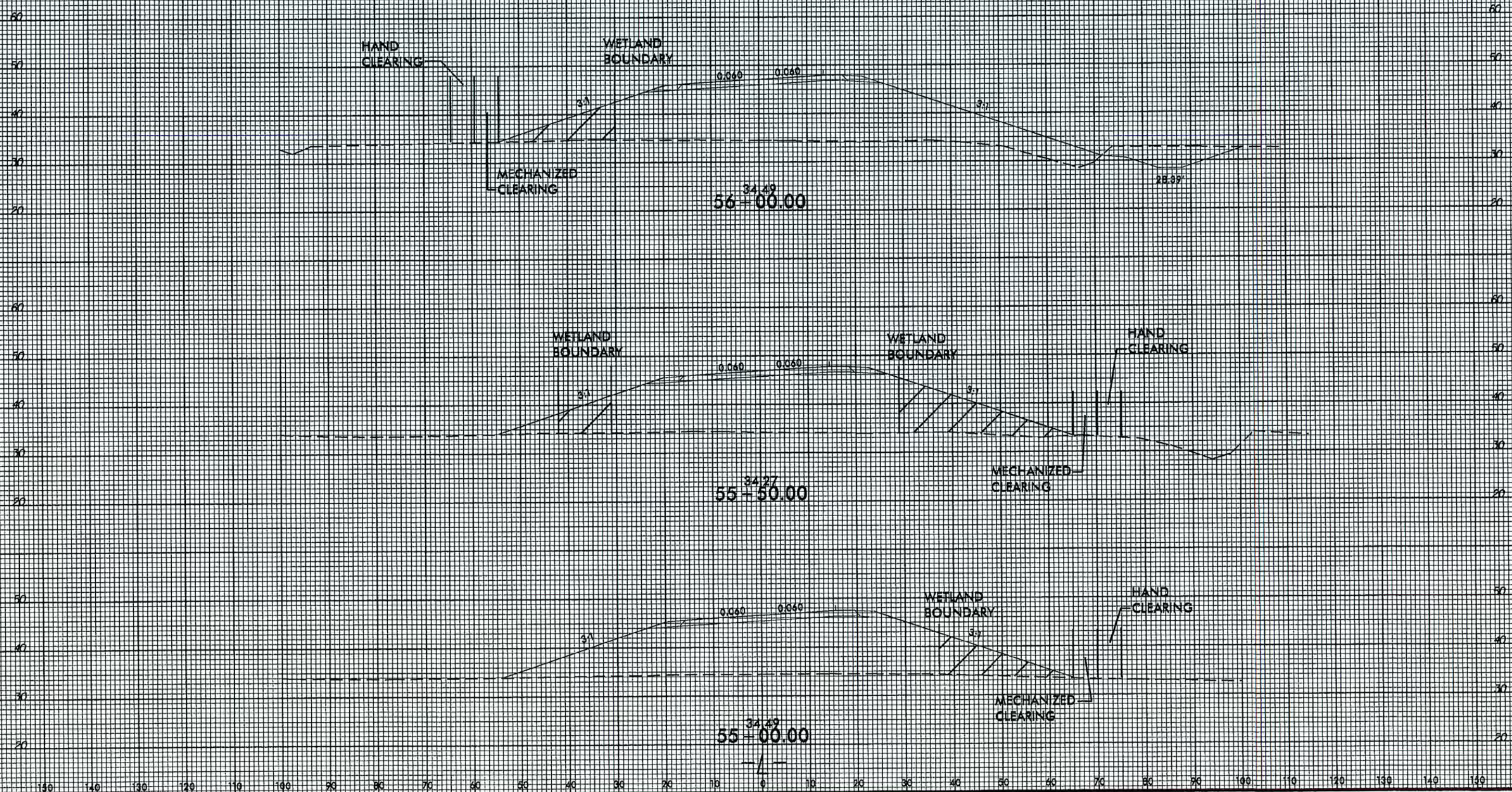


6/23/99

PERMIT DRAWING  
SHEET 14 OF 54

REVISED 3/2/2015

# SITE IV



DATE: 6/23/99  
DRAWN BY: [illegible]  
CHECKED BY: [illegible]  
SCALE: AS SHOWN







8/17/99

PROJECT REFERENCE NO. R-3324	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
RY PLANS CONSTRUCTION	

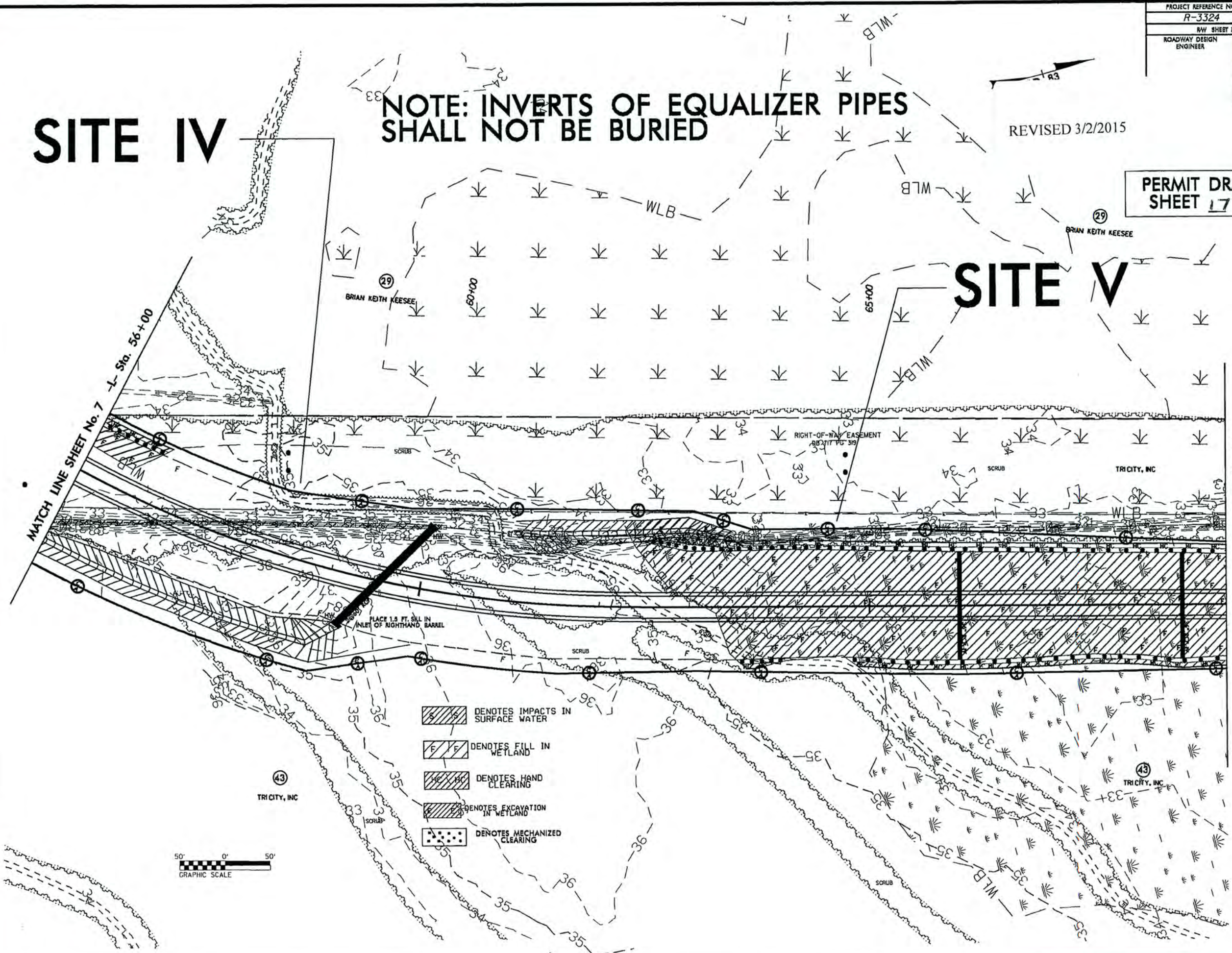
# SITE IV

## NOTE: INVERTS OF EQUALIZER PIPES SHALL NOT BE BURIED

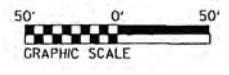
REVISED 3/2/2015

### PERMIT DRAWING SHEET 17 OF 54

25 FOR -L- PROFILE



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



\*\*\*\*\*  
STIMES  
\*\*\*\*\*







8/17/99

PROJECT REFERENCE NO. R-3324	SHEET NO. 9
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
MINIARY PLANS USE FOR CONSTRUCTION	

REVISED 3/2/2015

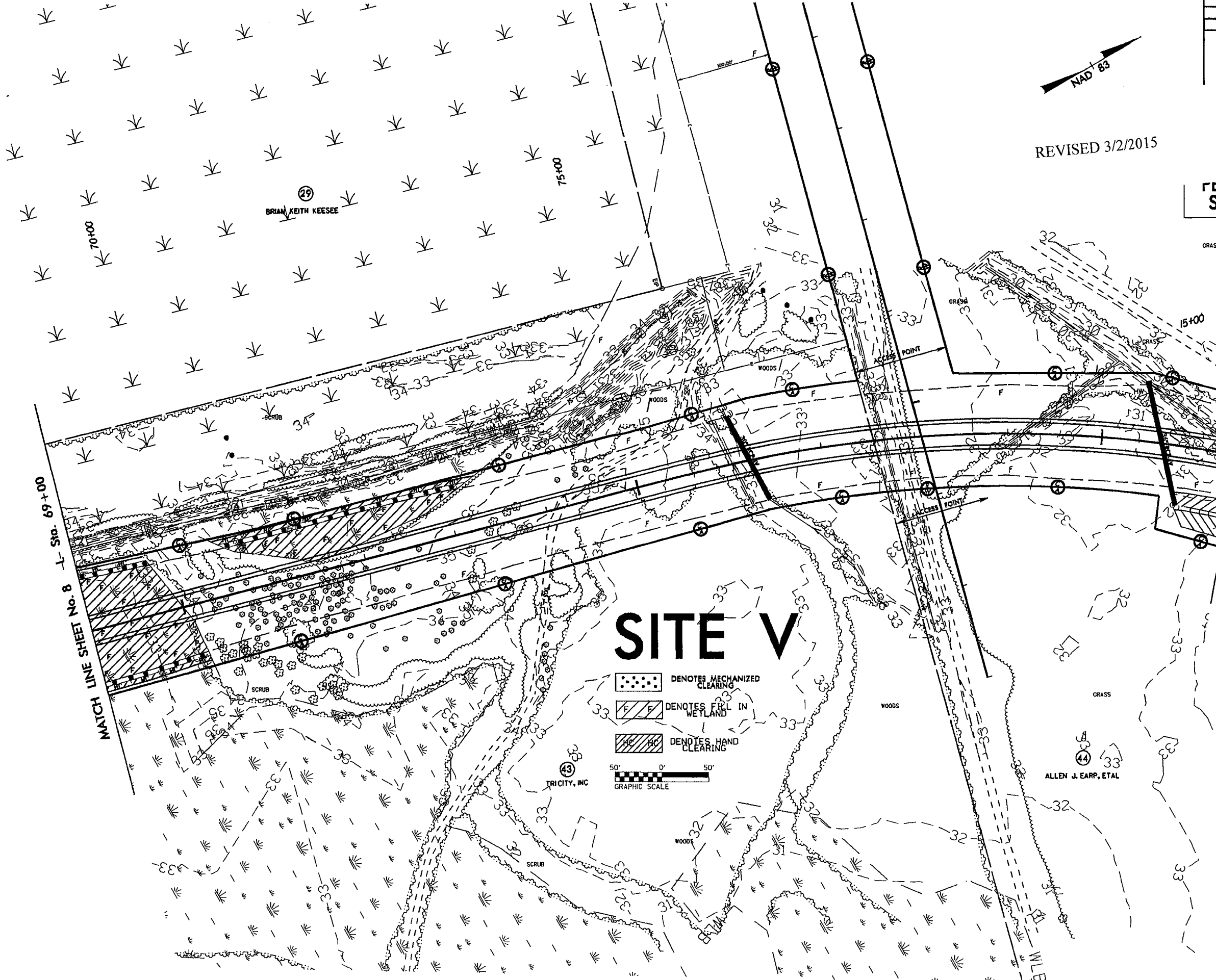
No. 25 FOR -L- PROFILE

PERMIT DRAWING  
SHEET A OF 54




REVISIONS

MATCH LINE SHEET No. 8 -L- Sta. 69+00

MATCH LINE SHEET No. 10 -L- Sta. 81+50



# SITE V

-  DENOTES MECHANIZED CLEARING
-  DENOTES FILL IN WETLAND
-  DENOTES HAND CLEARING



TRICITY, INC

ALLEN J. EARP, ETAL

DATE TIME DRAWN BY CHECKED BY

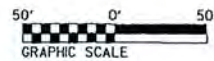






8/17/99

PROJECT REFERENCE NO. R-3324	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
SEE SHEET No. 26 & 27 FOR -L- PROFILE	



DENOTES FILL IN WETLAND

DENOTES HAND CLEARING

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES MECHANIZED CLEARING

# SITE VII

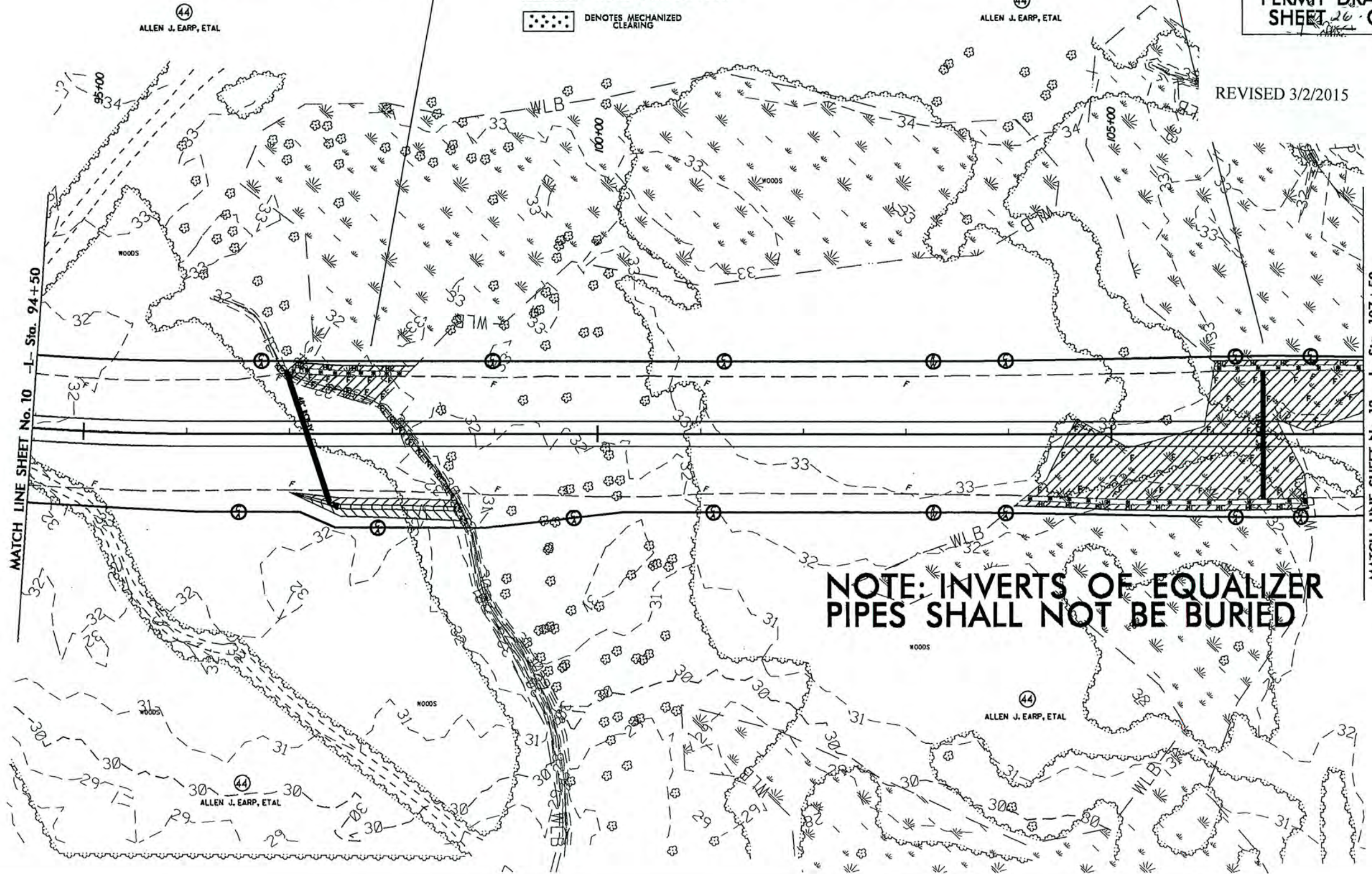
44  
ALLEN J. EARP, ETAL

# SITE VIII

44  
ALLEN J. EARP, ETAL

PERMIT DRAWING  
SHEET 26 OF 54

REVISED 3/2/2015



\*\*\*\*\*  
SYSTEMS  
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8/17/99

PROJECT REFERENCE NO. R-3324	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

# SITE VIII

# SITE IX

# SITE X

44  
ALLEN J. EARP, ETAL

44  
ALLEN J. EARP, ETAL

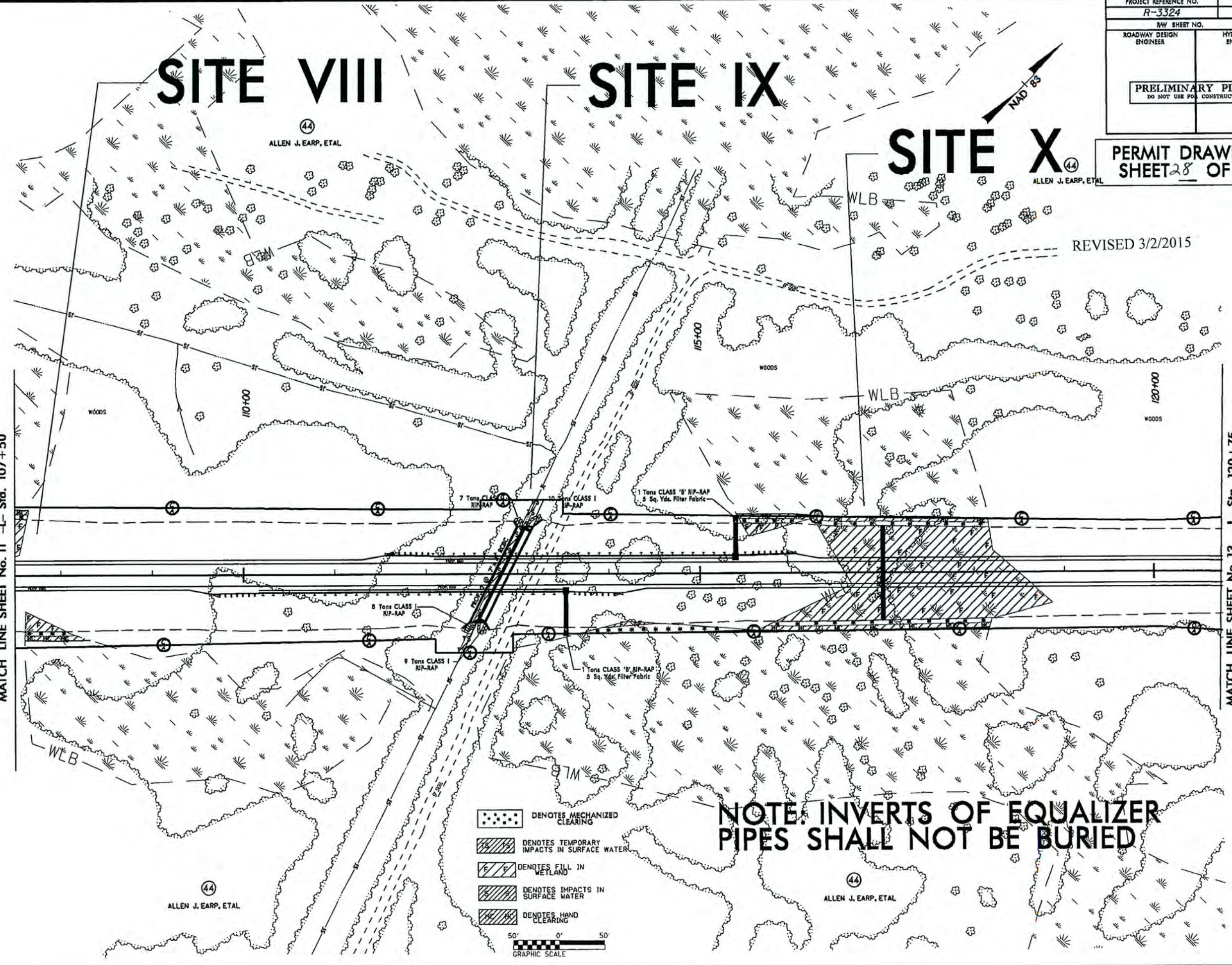
## PERMIT DRAWING SHEET 28 OF 54








REVISED 3/2/2015

MATCH LINE SHEET No. 11 -L- Sta. 107+50

MATCH LINE SHEET No. 13 -L- Sta. 120+75

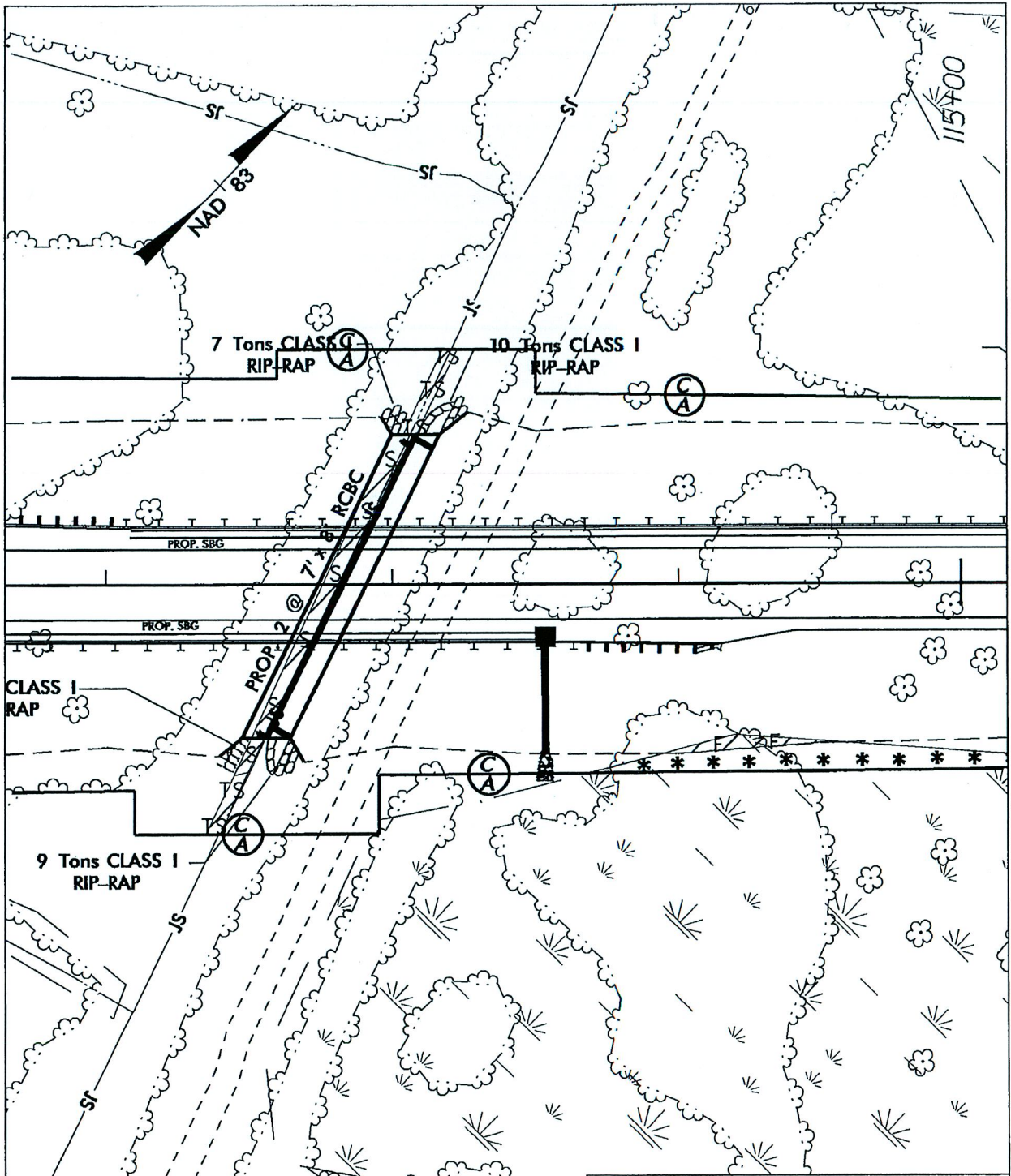






-  DENOTES MECHANIZED CLEARING
  -  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
  -  DENOTES FILL IN WETLAND
  -  DENOTES IMPACTS IN SURFACE WATER
  -  DENOTES HAND CLEARING
- 50' 0' 50'  
GRAPHIC SCALE

### NOTE: INVERTS OF EQUALIZER PIPES SHALL NOT BE BURIED

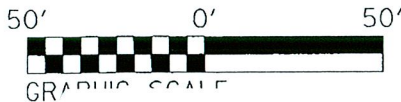
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STIMES  
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-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES FILL IN WETLAND
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES MECHANIZED CLEARING

**SITE IX**



**NCDOT**  
 DIVISION OF HIGHWAYS  
 BRUNSWICK COUNTY  
 PROJECT: 34531.1.1 (R-3324)

**NEW ROUTE FROM NC 133  
 AND NC 87**

REVISED  
 2/03/15

30 49 54



8/17/99

PROJECT REFERENCE NO. R-3324	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

# SITE VIII

# SITE IX

# SITE X

44  
ALLEN J. EARP, ETAL

ALLEN J. EARP, ETAL

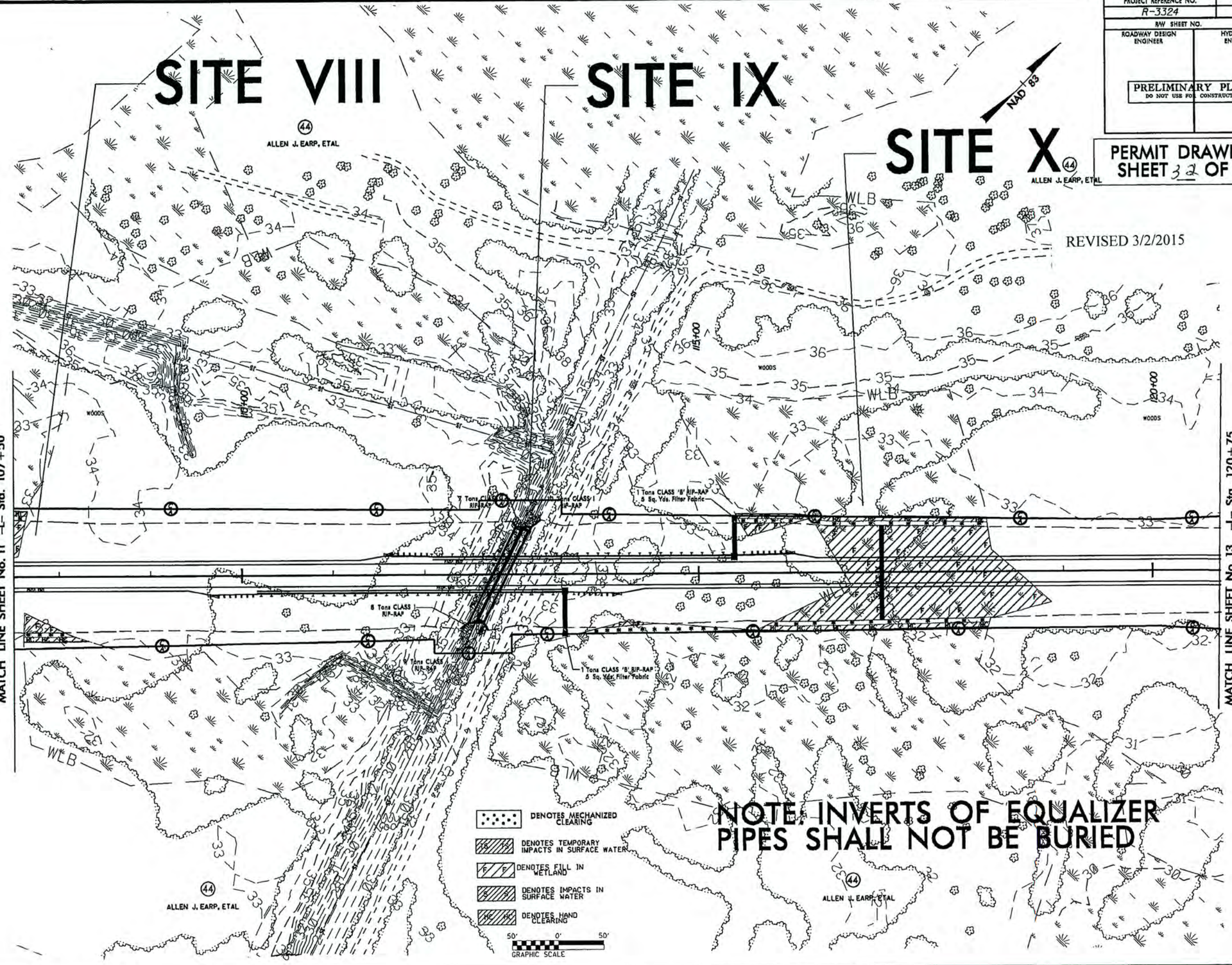
## PERMIT DRAWING SHEET 32 OF 54








REVISED 3/2/2015

MATCH LINE SHEET No. 11 -L- Sta. 107+50

MATCH LINE SHEET No. 13 -L- Sta. 120+75



-  DENOTES MECHANIZED CLEARING
  -  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
  -  DENOTES FILL IN WETLAND
  -  DENOTES IMPACTS IN SURFACE WATER
  -  DENOTES HAND CLEARING
- 50' 0' 50'  
GRAPHIC SCALE

### NOTE: INVERTS OF EQUALIZER PIPES SHALL NOT BE BURIED

SYSDIGEN







8/17/99

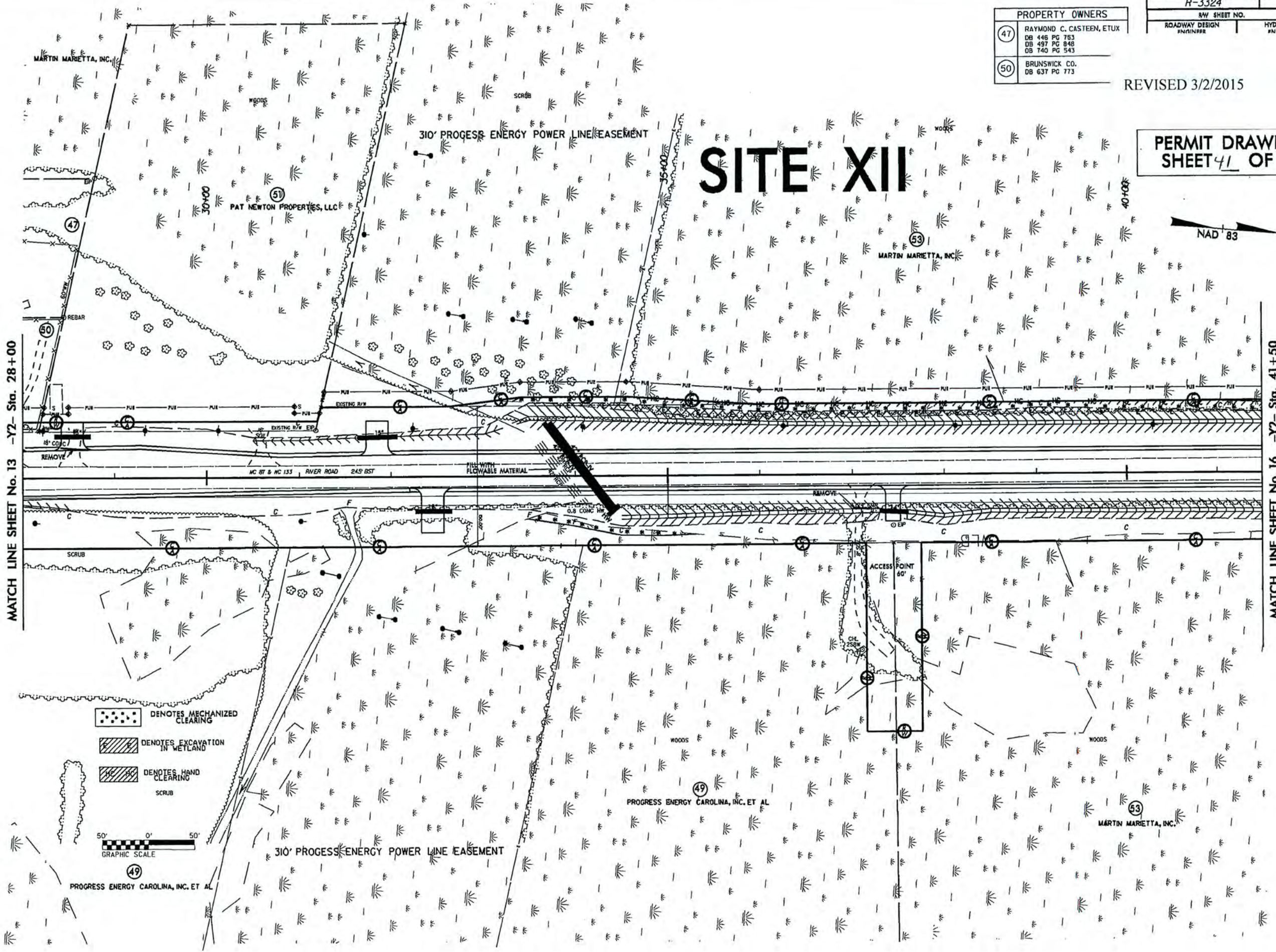
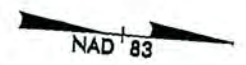
PROJECT REFERENCE NO.	SHEET NO.
R-3324	15
HW SHEET NO.	HYDRAULICS
ROADWAY DESIGN ENGINEER	#N/C/M/P/R

PROPERTY OWNERS	
47	RAYMOND C. CASTEEN, ETUX DB 446 PG 753 DB 497 PG 848 DB 740 PG 543
50	BRUNSWICK CO. DB 637 PG 773

REVISED 3/2/2015

PERMIT DRAWING SHEET 41 OF 54

# SITE XII



MATCH LINE SHEET No. 13 -Y2- Sta. 28+00

MATCH LINE SHEET No. 16 -Y2- Sta. 41+50

DENOTES MECHANIZED CLEARING  
 DENOTES EXCAVATION IN WETLAND  
 DENOTES HAND CLEARING SCRUB  
 GRAPHIC SCALE

\*\*\*\*\*  
SUSTAINING ENGINEER  
\*\*\*\*\*







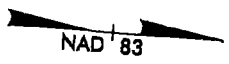


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PROJECT REFERENCE NO.	SHEET NO.
R-3324	16
RAW SHEET NO.	
ROADWAY DESIGN	HYDRAULICS

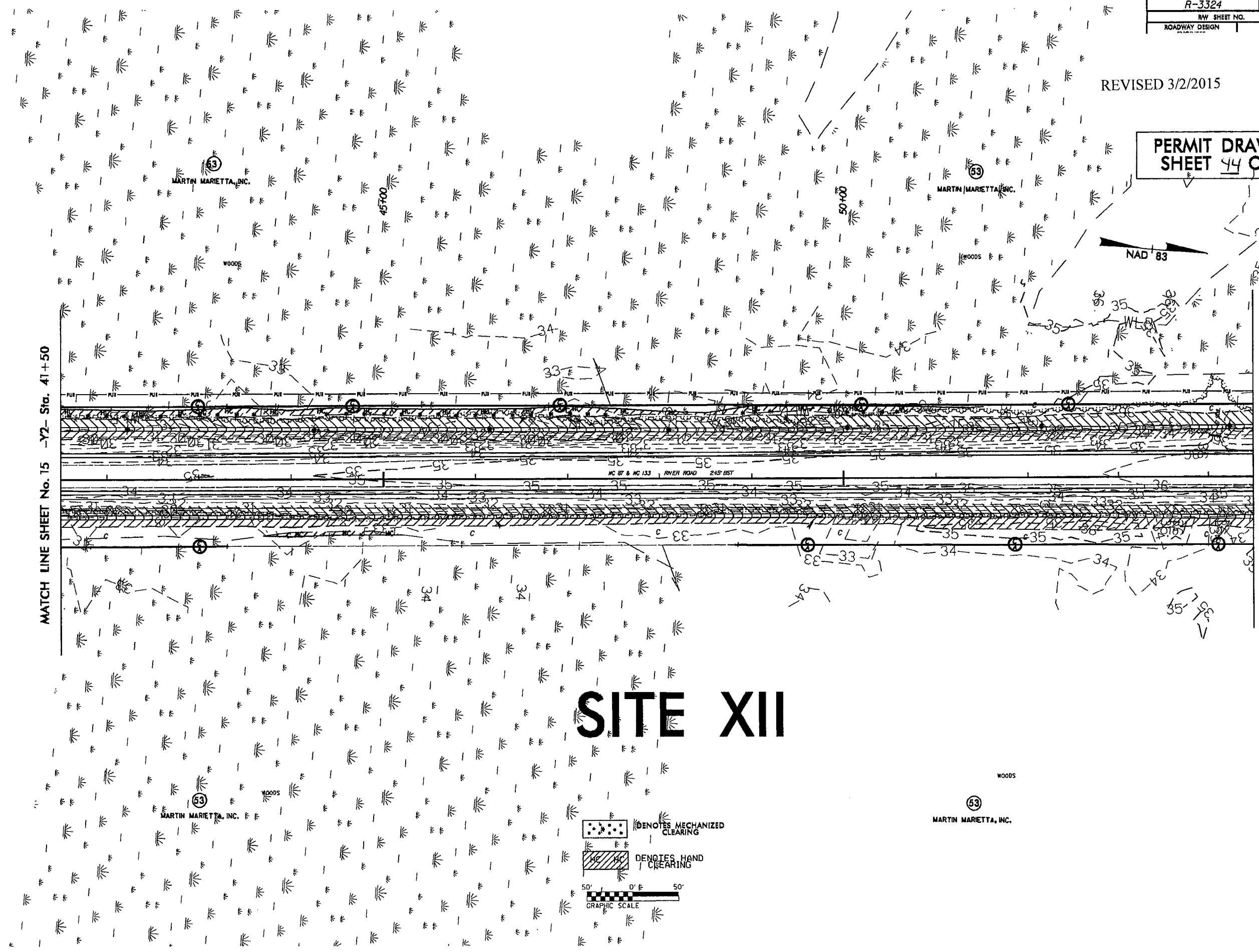
REVISED 3/2/2015

PERMIT DRAWING  
SHEET 44 OF 54



MATCH LINE SHEET No. 15 -Y2- Sta. 41+50

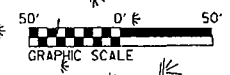
MATCH LINE SHEET No. 17 -Y2- Sta. 54+50



# SITE XII

⊗ DENOTES MECHANIZED CLEARING

▨ DENOTES HAND CLEARING



\*\*\*\*\*  
CUSTOMER'S PROPERTY  
\*\*\*\*\*









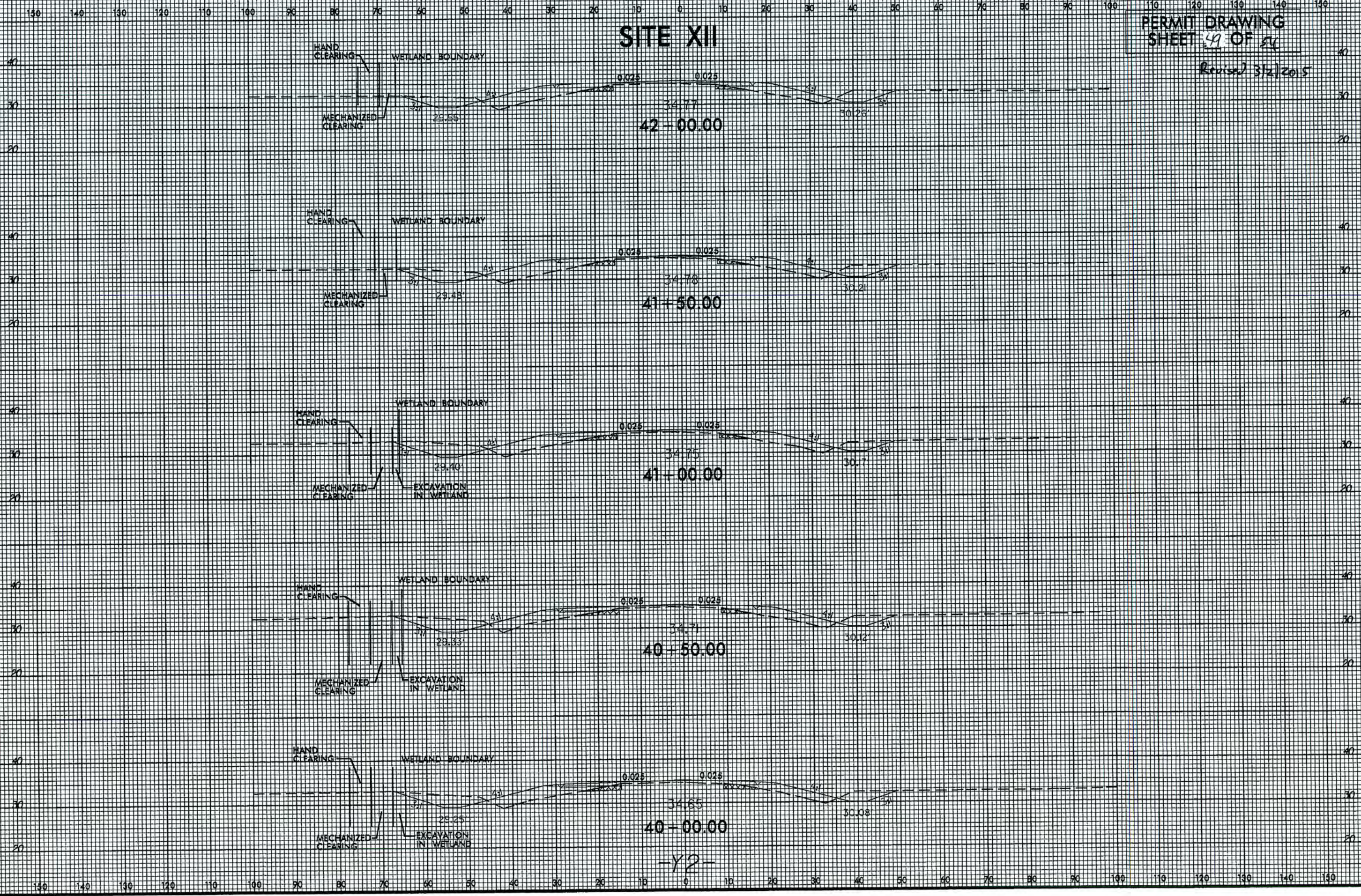


8/23/99

# SITE XII

## PERMIT DRAWING SHEET 49 OF 50

Revised 3/2/2015



UNIVERSITY OF CALIFORNIA  
SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING  
101 SHIVERS DRIVE  
DUBLIN, CA 94568-1707  
TEL: (916) 422-2000  
WWW.CEE.UCALIF.EDU







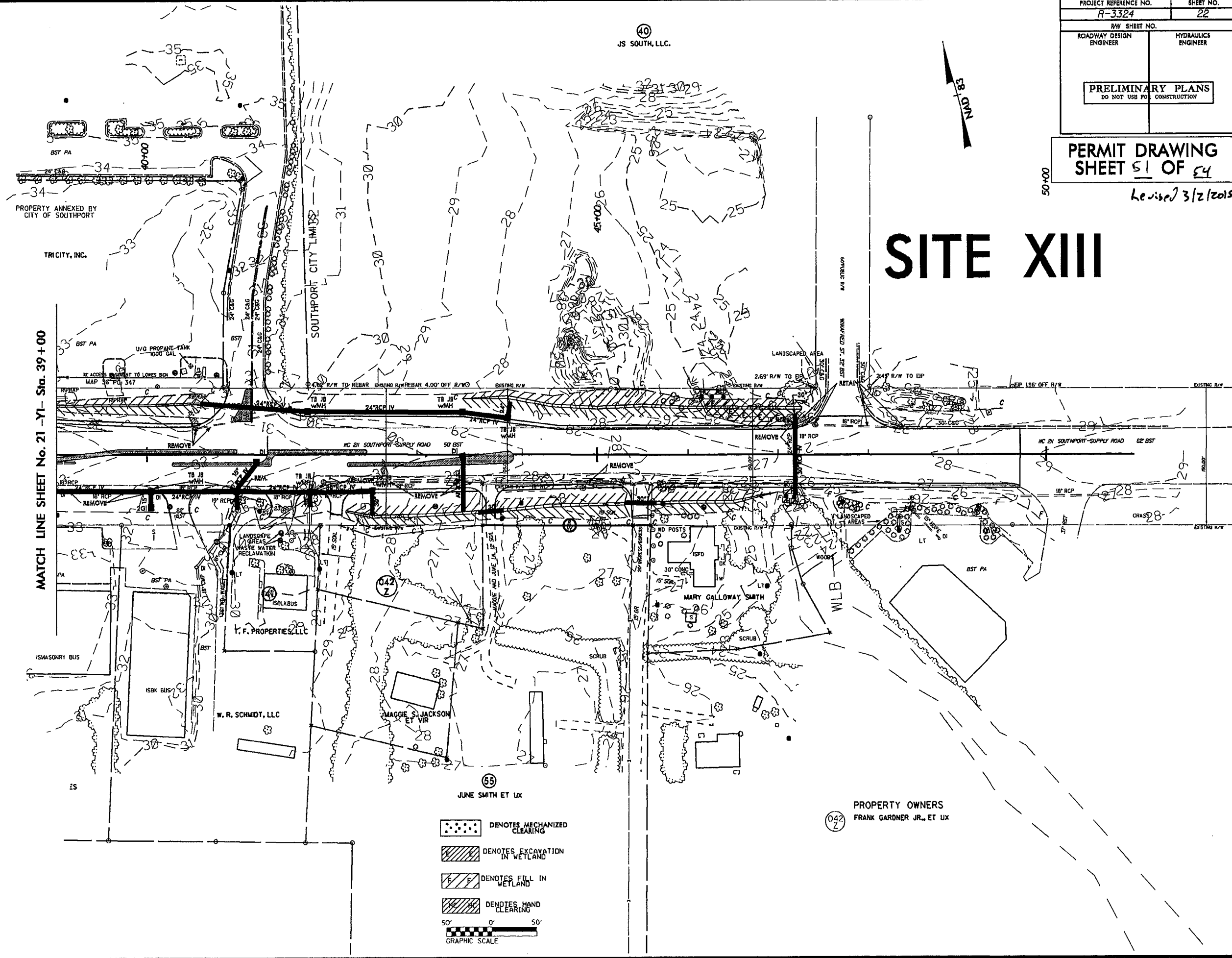
8/17/99

PROJECT REFERENCE NO. R-3324	SHEET NO. 22
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

**PERMIT DRAWING**  
**SHEET 51 OF 54**

Revised 3/2/2015

# SITE XIII



- DENOTES MECHANIZED CLEARING
  - DENOTES EXCAVATION IN WETLAND
  - DENOTES FILL IN WETLAND
  - DENOTES HAND CLEARING
- 50' 0' 50'  
GRAPHIC SCALE

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SYSTEMS DESIGN  
\*\*\*\*\*



**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)
I	22+00 -L-	BRG 3@45'						<0.01	0.02	26	160	
II	12+30-25+00-Y1-	N/A	0.10		0.03							
IV	51+70-60+00-L-	2@60" RCP	0.15			0.03	0.03	0.05		481		
V	61+00-73+40-L-	N/A	1.98		0.05	0.15	0.15	0.03		242		
VI	83+50-91+70-L-	BRG 3@55'	1.08	0.33	0.18	0.27		0.10		395	73	
VII	98+00 -L-	48" RCP	0.06			0.01	0.01		0.01		38	
VIII	104+00-107+70-L-	N/A	0.56			0.06	0.06					
IX	112+80 -L-	2@7'x8' RCBC						0.02	0.01	128	55	
X	113+60-118+80-L-	N/A	0.49			0.09	0.06					
XI	123+50-127+60-L-	1@9'x7' RCBC	1.05			0.22		0.01	0.01	96	46	
XII	32+00-81+50-Y2-	N/A			0.09	0.21	0.23					
XIII	46+00-47+30-Y1-	N/A	<0.01		0.04	<0.01	<0.01					
<b>TOTALS:</b>			5.47	0.33	0.39	1.04	0.54	0.21	0.05	1368	372	

Note: 0.48 acres of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures.

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

BRUNSWICK COUNTY  
WBS - 34531.1.1 (R-3324)

REVISOR  
SHEET **54/54** 3/2/2015

*Revised 3/2/15*