

MUDDY RUN II STREAM RESTORATION PROJECT

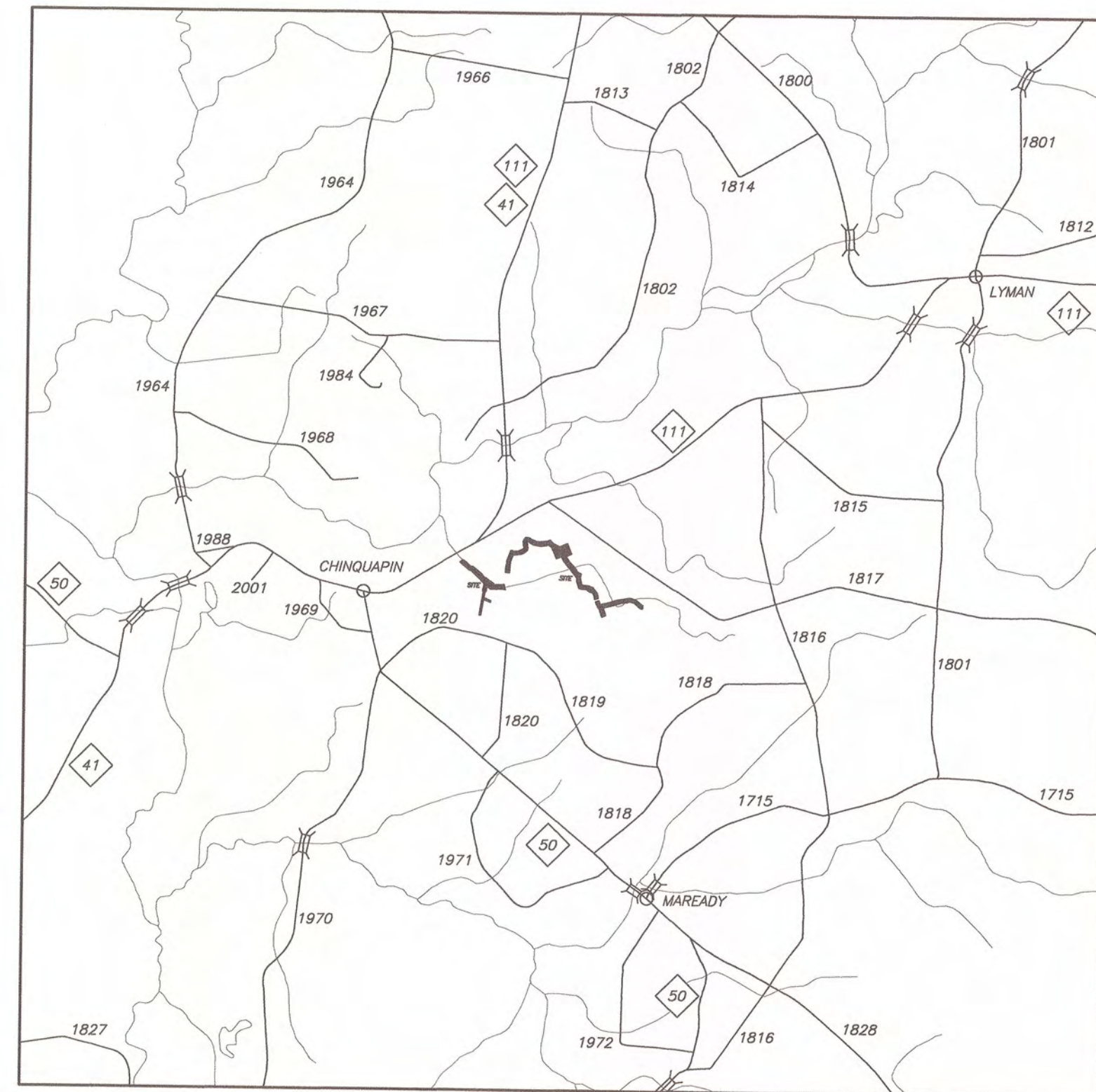
DUPLIN COUNTY, NORTH CAROLINA

CAPE FEAR RIVER BASIN
HUC 0030007060010

NORTH CAROLINA ECOSYSTEM ENHANCEMENT PROGRAM
PROJECT ID

95354 CONTRACT #004632

AS-BUILT SURVEY



VICINITY MAP
NOT TO SCALE

PROJECT COORDINATES:

LATITUDE: 34.823888° N
LONGITUDE: -77.793814° W

PROJECT DIRECTORY

DESIGNER:
WK DICKSON AND CO., INC.
720 CORPROATE CENTER DRIVE
RALEIGH, NC 27607
(919)782-0495
CONTACT: DANIEL INGRAM

MONITORING PERFORMERS:
WK DICKSON AND CO., INC.
720 CORPROATE CENTER DRIVE
RALEIGH, NC 27607
(919)782-0495

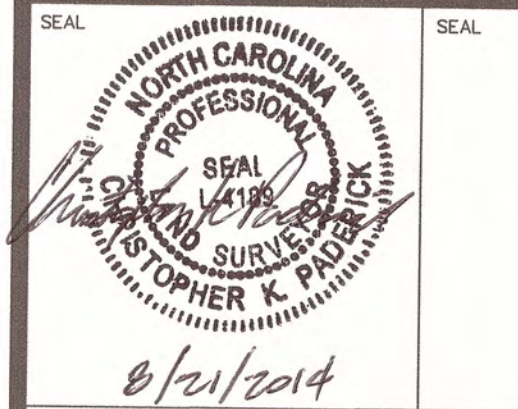
CONSTRUCTION CONTRACTOR:
GP JENKINS
6566 HWY 55 W
KINSTON, NC 28504
(252)569-1222

SURVEYING:
MATRIX EAST, PLLC
906 N. QUEEN ST., SUITE A
KINSTON, NC 28501
(252)522-2500

FULL DELIVERY PROVIDER:
ENVIRONMENTAL BANC & EXCHANGE, LLC
909 CAPABILITY DRIVE, SUITE 3100
RALEIGH, NC 27606
(919)829-9909
CONTACT: DAVID GODLEY

SHEET INDEX

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COVER SHEET

**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**

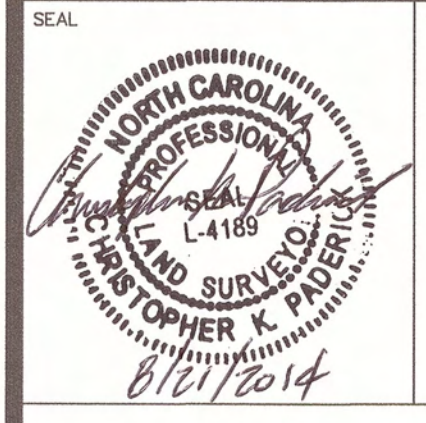


**MATRIX
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FIRM LIC. # P-0221
EMAIL: surveyor@matrixeast.net



**ENVIRONMENTAL BANC
& EXCHANGE, LLC**
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 1 OF 33
DRAWING NAME 20110047-MR2-ASB.dwg	DRAWING NO.
PROJECT NO. 20110047	S-1



Legend

**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**

- LEGEND**
- C/L =CENTERLINE
 - R/W =RIGHT OF WAY
 - CMP =CORRUGATED METAL PIPE
 - HDPE =HIGH DENSITY POLYETHYLENE PIPE
 - XS =CROSS SECTION
 - VP =VEGETATION PLOT
 - =GROUNDWATER WELL
 - AW =GROUNDWATER WELL
 - REFAW =GROUNDWATER WELL
 - =CREST GAUGE
 - CG =CREST GAUGE
 - =AUTO-CREST GAUGE
 - ACG =AUTO-CREST GAUGE
 - ⊗ =WOODY DEBRIS BUNDLE
 - ≡ =LOG GRADE CONTROL
 - ≡ =LOG STRUCTURE
 - ≡ =LOG TOE PROTECTION
 -  =BEDDED LOG STRUCTURE
 -  =DIFFUSE FLOW STRUCTURE
 - =CONSERVATION EASEMENT LINE
 - =BOUNDARY LINE
 - =BOUNDARY/CONSERVATION EASEMENT LINE
 - ~~~~~ =WOODLINE



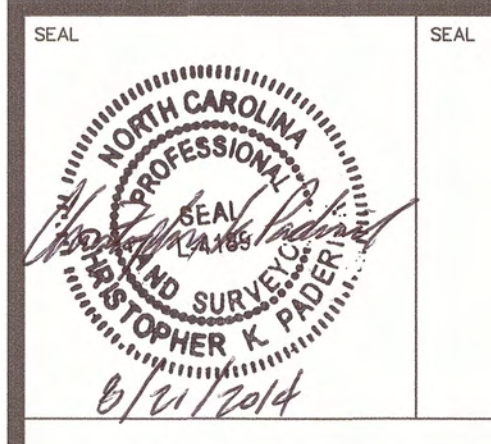
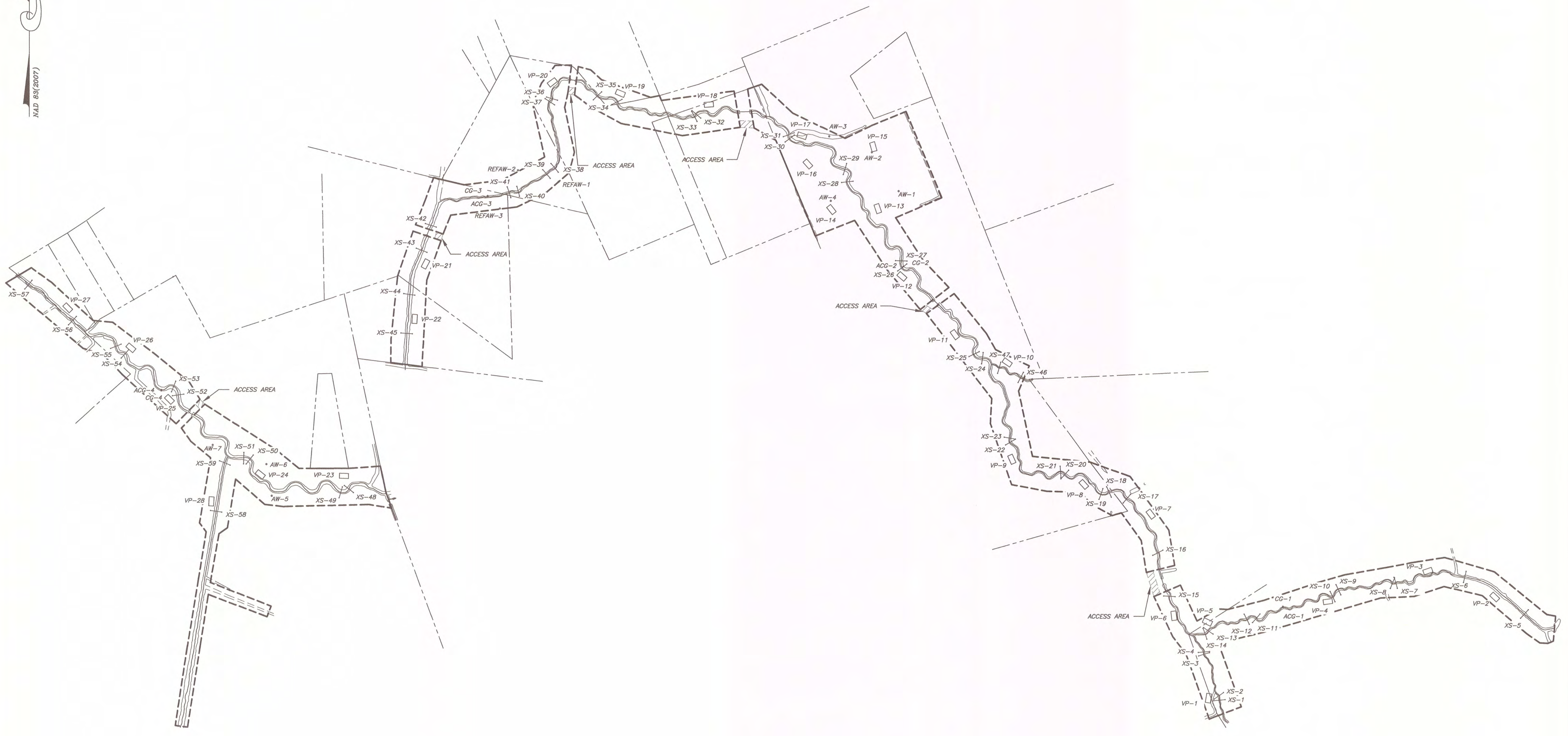
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SCALE		DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14	SHEET No. 2 OF 33
APPROVED CKP	DRAWING NO.	
DRAWING NAME 20110047-MR2-ASB.dwg		S-2
PROJECT No. 20110047		

NAD 83(2007)



STREAM MONITORING OVERVIEW

**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**

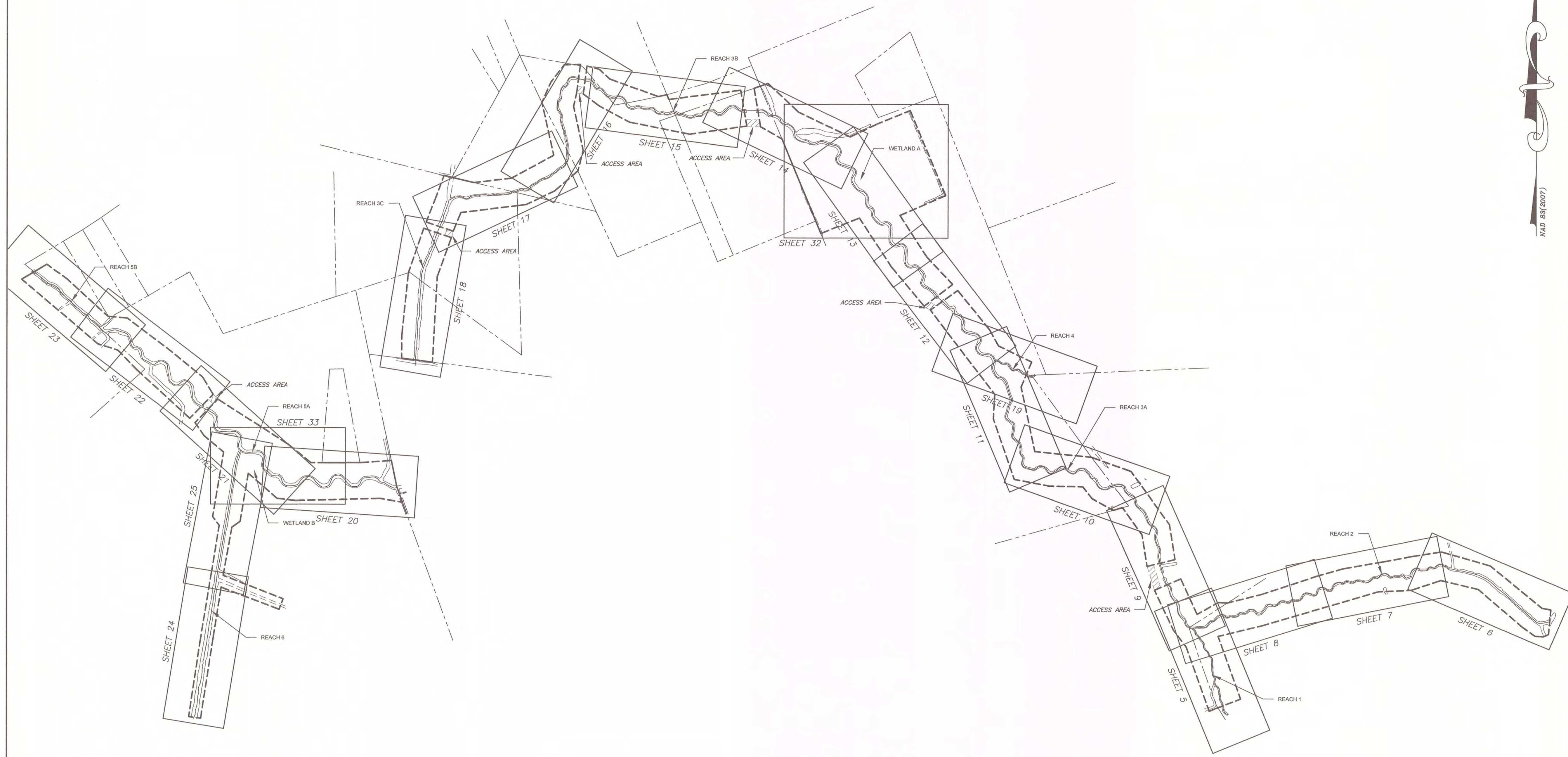


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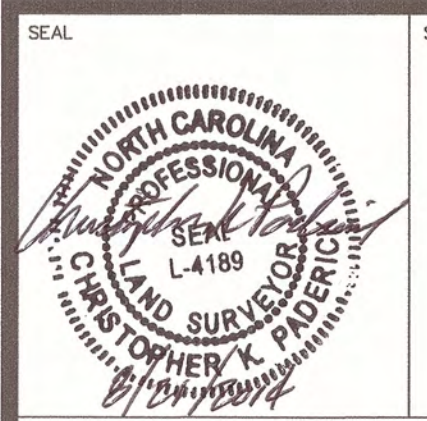
SCALE	1" = 250'	DEPARTMENT	
DRAWN BY	JRW	DATE STARTED	7-23-14
APPROVED	CKP	SHEET No.	3 OF 33
DRAWING NAME	20110047-MR2-ASB.dwg	DRAWING NO.	
PROJECT NO.	20110047		

S-3



REACH	MITIGATION TYPE	AS-BUILT LENGTH IN EASEMENT	SMUs
1	HWY RESTORATION	398'	398'
2	HWY RESTORATION	504'	504'
2	P1 RESTORATION	1,410'	1,410'
3A	P1 RESTORATION	3,586'	3,586'
3B	P1 RESTORATION	1,979'	1,979'
3C	ENHANCEMENT I	708'	472'
4	P1 RESTORATION	173'	173'
5A	P1 RESTORATION	1,926'	1,926'
5B	ENHANCEMENT II	409'	164'
6	ENHANCEMENT II	318'	127'
	TOTAL	11,411'	10,739'

WETLAND	MITIGATION TYPE	DESIGN AREA	DESIGN WMUs
A	RESTORATION	3.60 AC.	3.60
B	RESTORATION	1.32 AC.	1.32
	TOTAL	4.92 AC.	4.92



STREAM BASELINE OVERVIEW

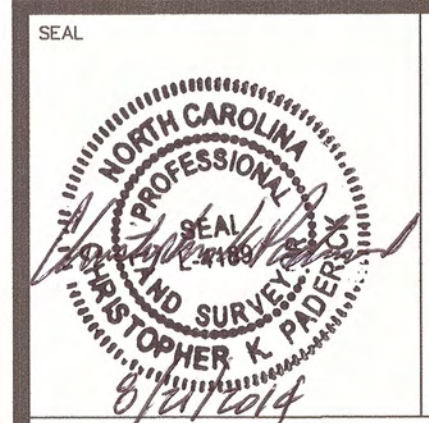
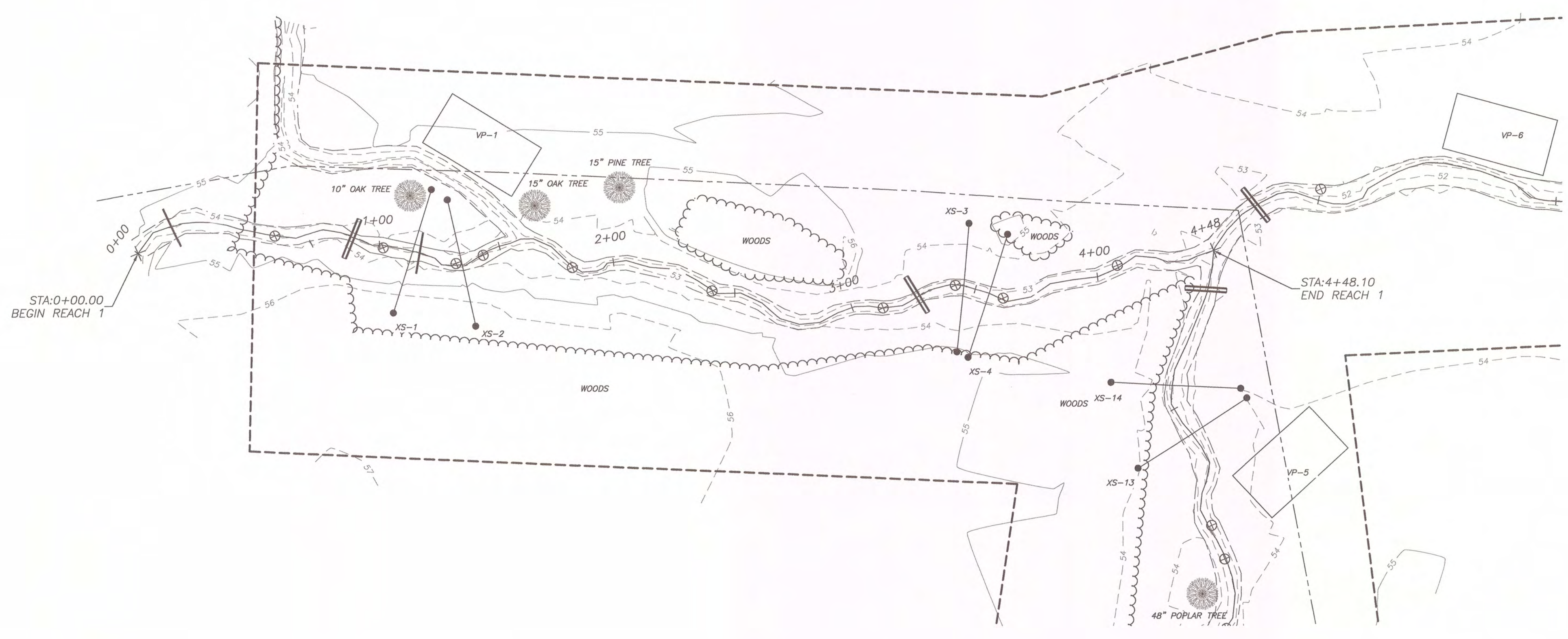
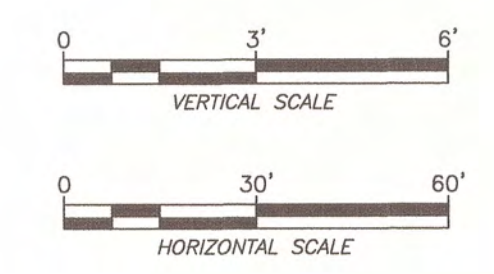
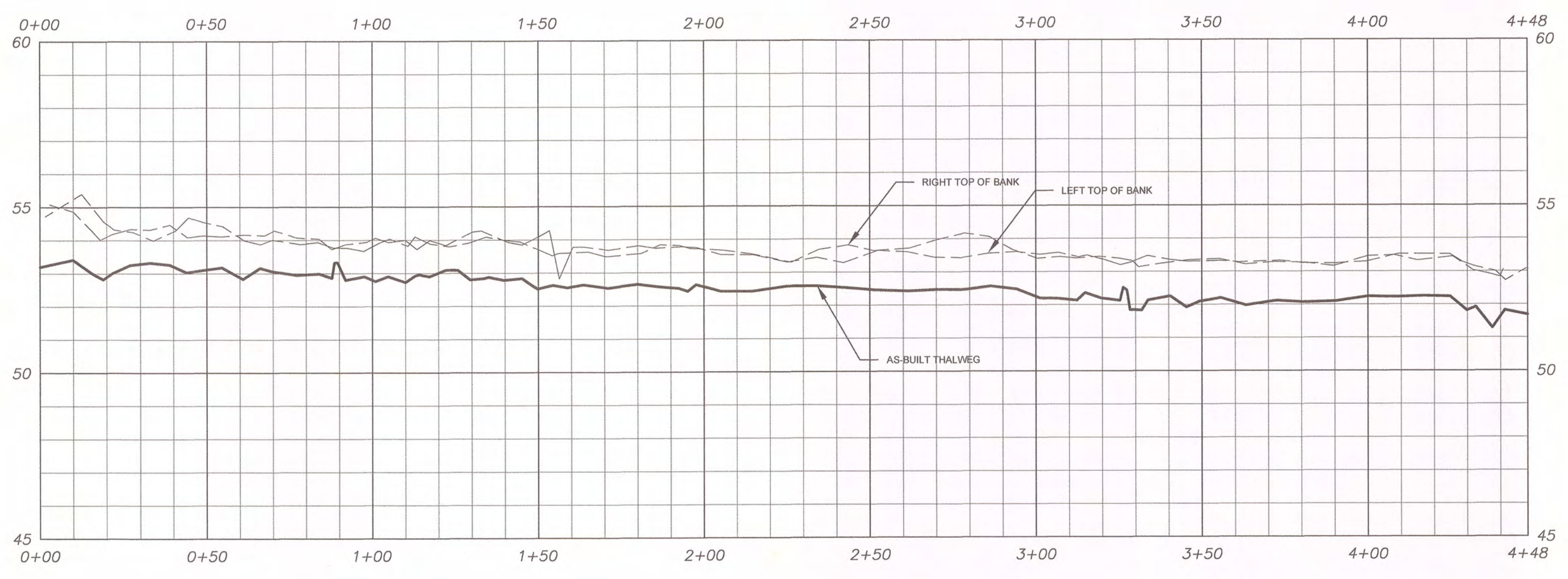
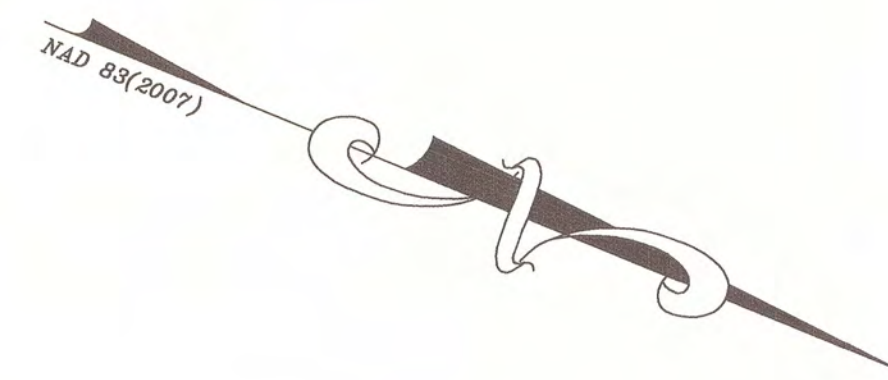
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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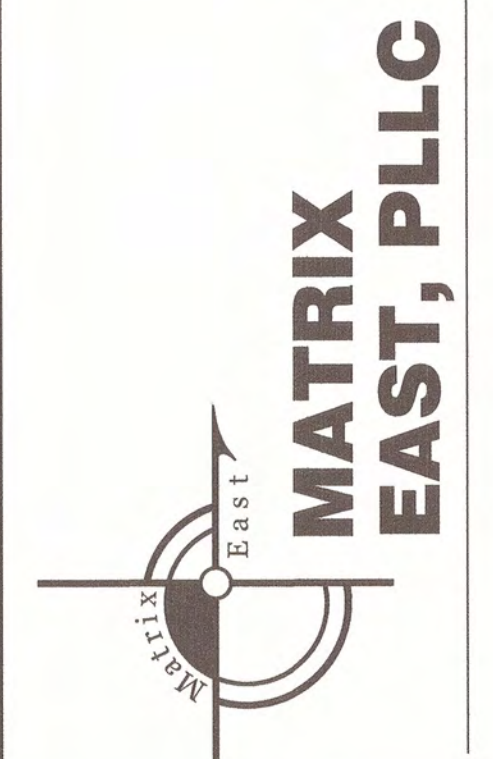
**ENVIRONMENTAL BANC
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909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE 1" = 250'	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 4 OF 33
DRAWING NAME 20110047-MR2-ASB.dwg	DRAWING NO.
PROJECT NO. 20110047	S-4



**STREAM BASELINE AS-BUILT
REACH 1 PLAN & PROFILE (0+00 - 4+48)**

**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**

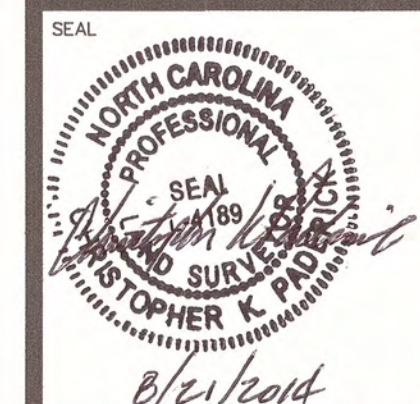


**MATRIX
EAST, PLLC**

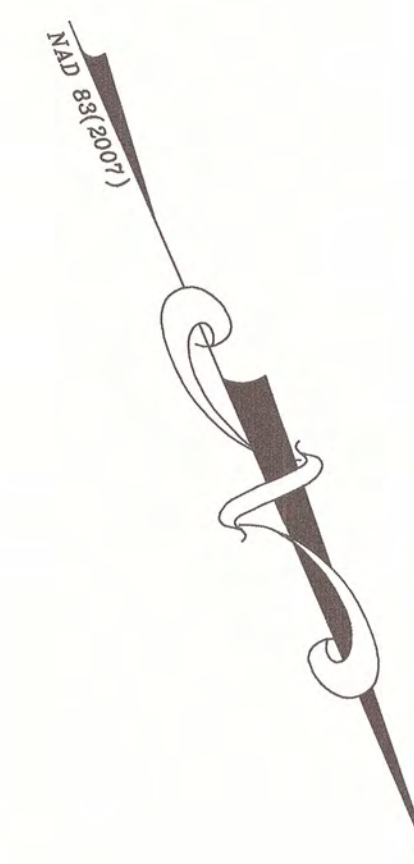
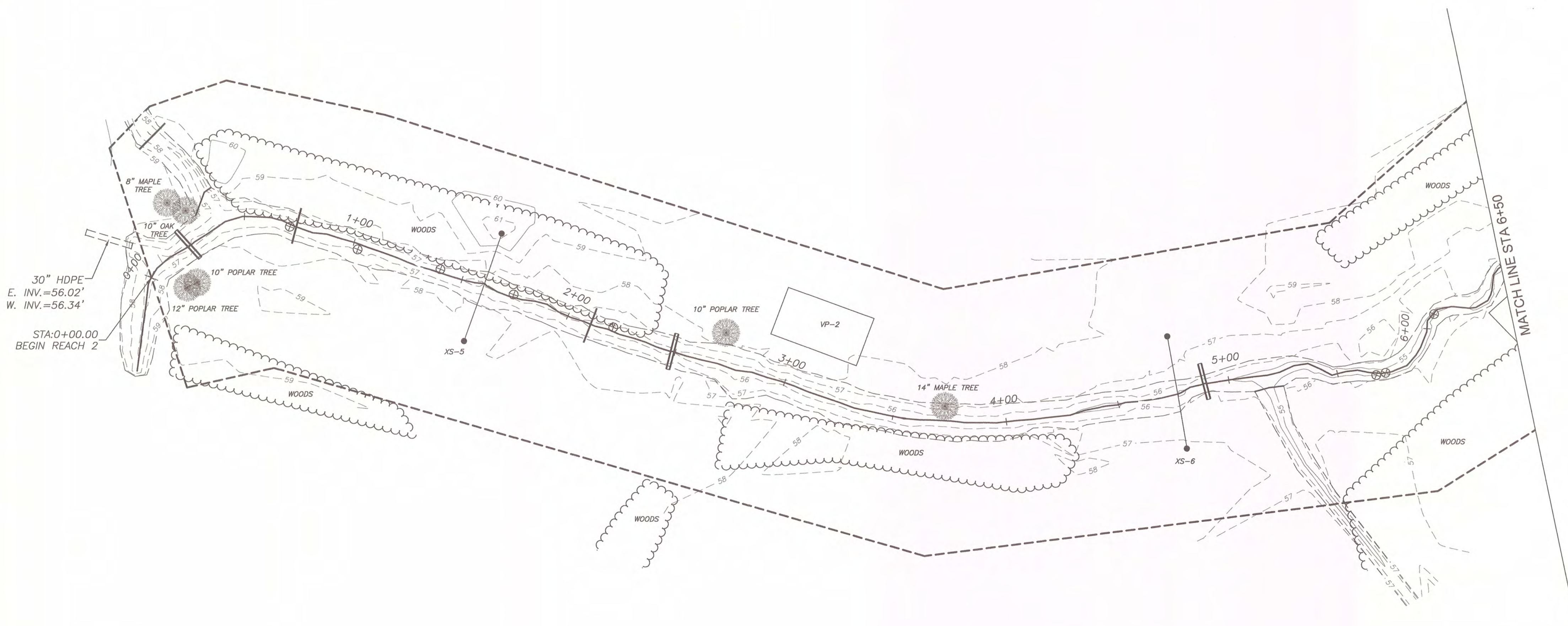
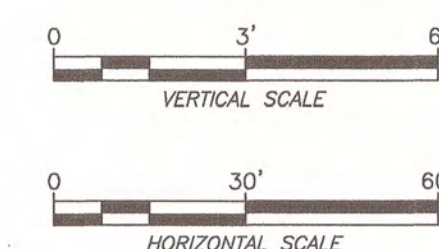
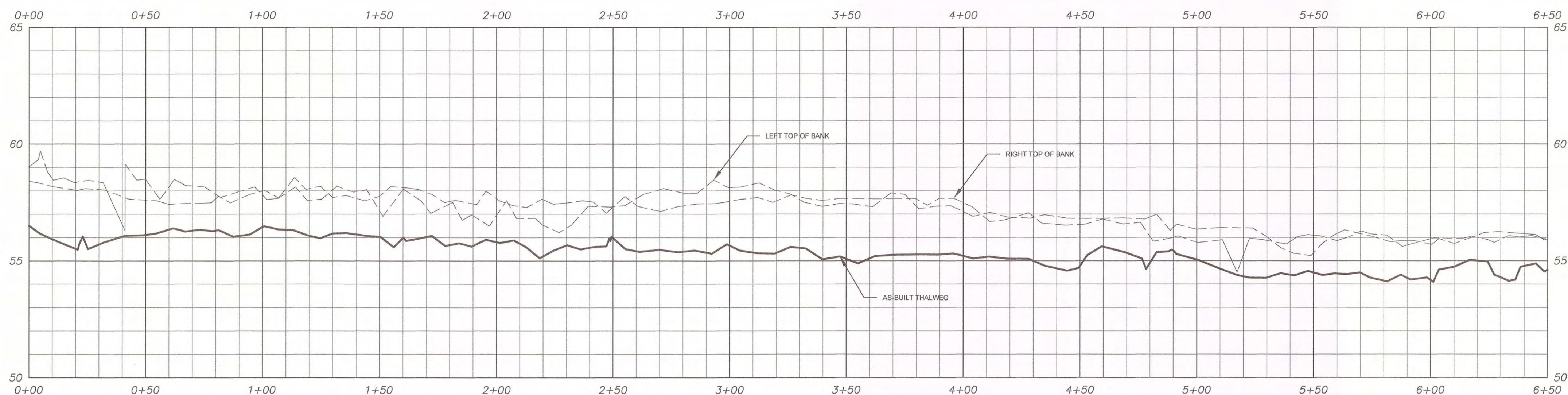
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SCALE 20110047-MR2-ASB.dwg		DEPARTMENT	
DRAWN BY JRW	DATE STARTED 7-23-14	SHEET No. 5 OF 33	
APPROVED CKP		DRAWING NO.	
DRAWING NAME 1" = 30'		S-5	
PROJECT NO. 20110047			



B/Le/Leard



STREAM BASELINE AS-BUILT
REACH 2 PLAN & PROFILE (0+00 - 6+50)

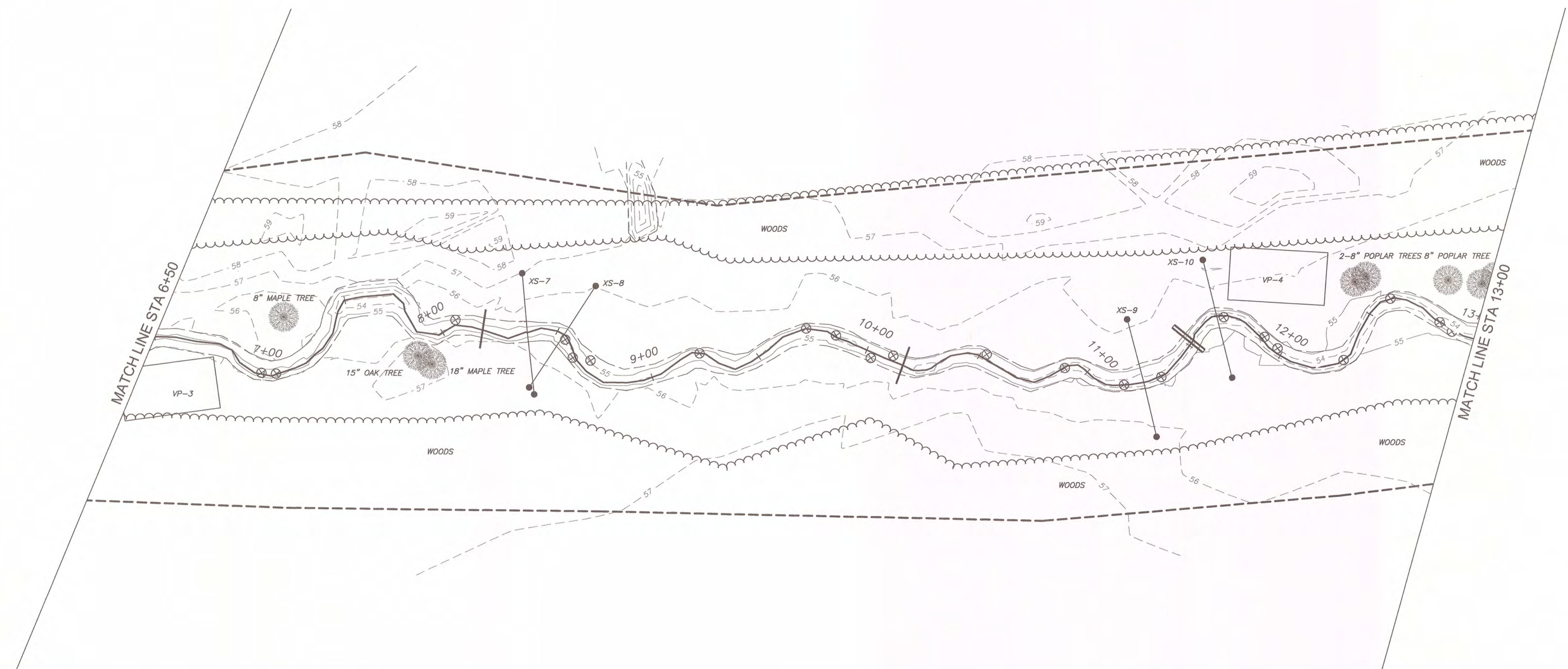
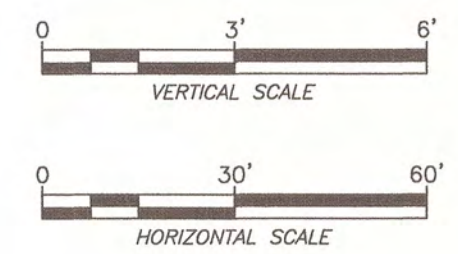
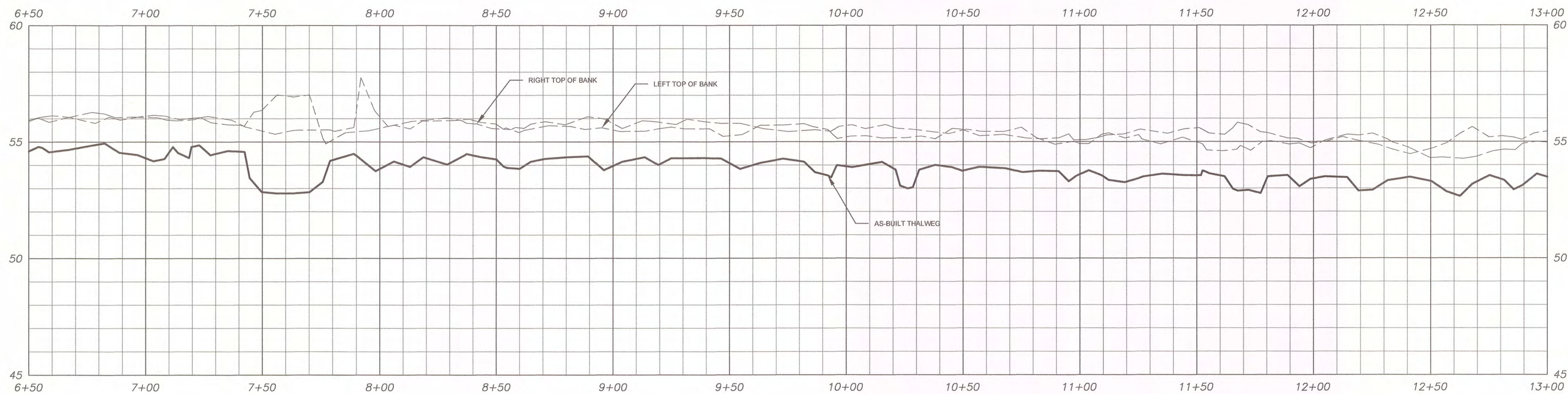
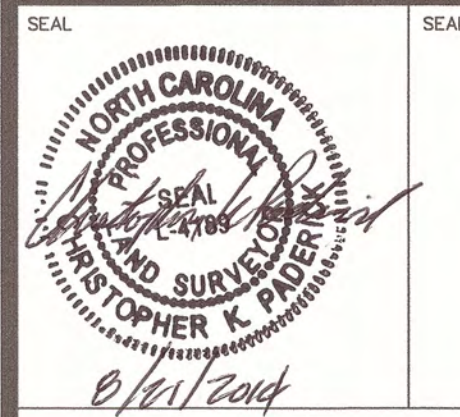
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 6 OF 33
DRAWING NAME 1" = 30'	DRAWING NO. S-6
PROJECT NO. 20110047	



STREAM BASELINE AS-BUILT
REACH 2 PLAN & PROFILE (6+50 - 13+00)

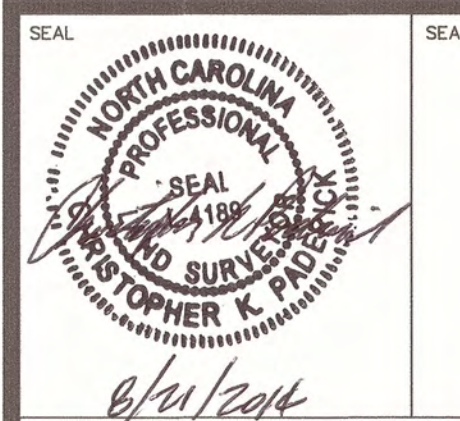
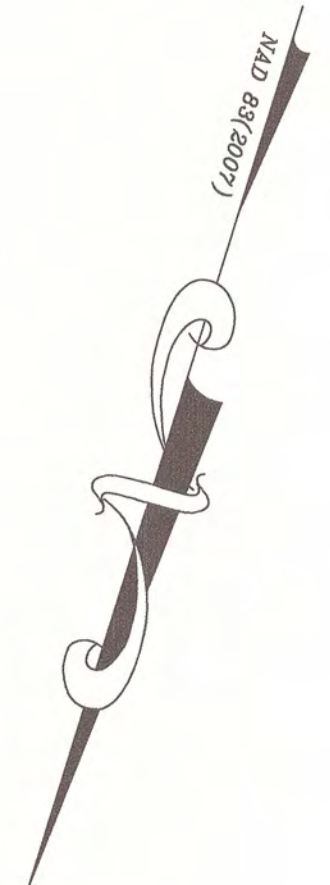
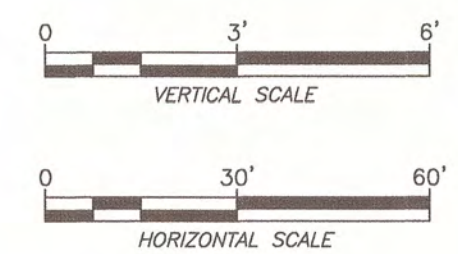
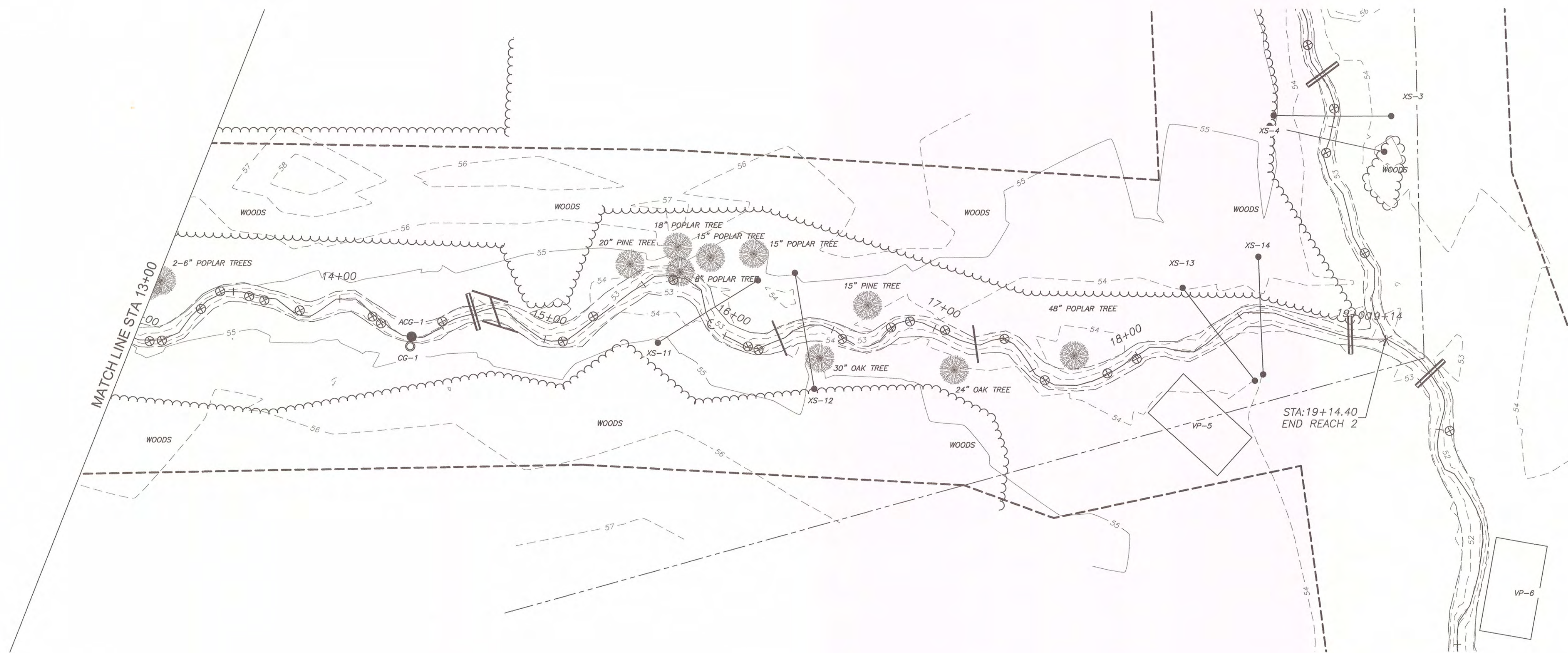
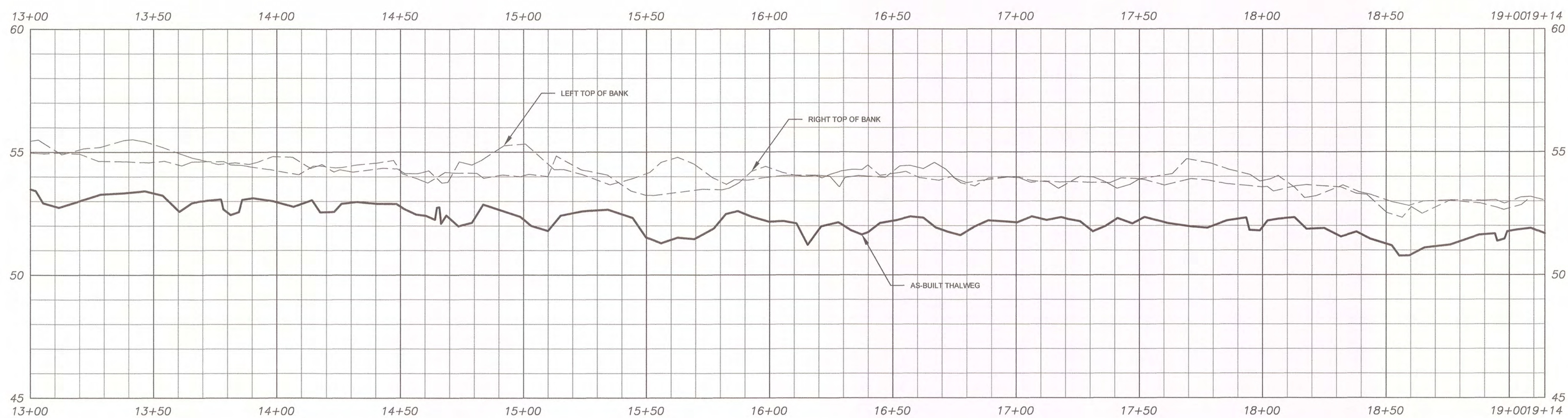
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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SUITE 3100
RALEIGH, N.C. 27606

SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 7 OF 33
DRAWING NAME 1" = 30'	DRAWING NO. S-7
PROJECT NO. 20110047	



**STREAM BASELINE AS-BUILT
REACH 2 PLAN & PROFILE (13+00 - 19+14)**

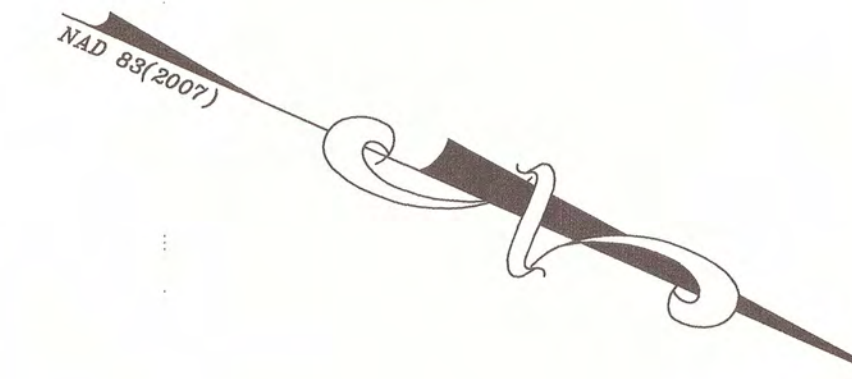
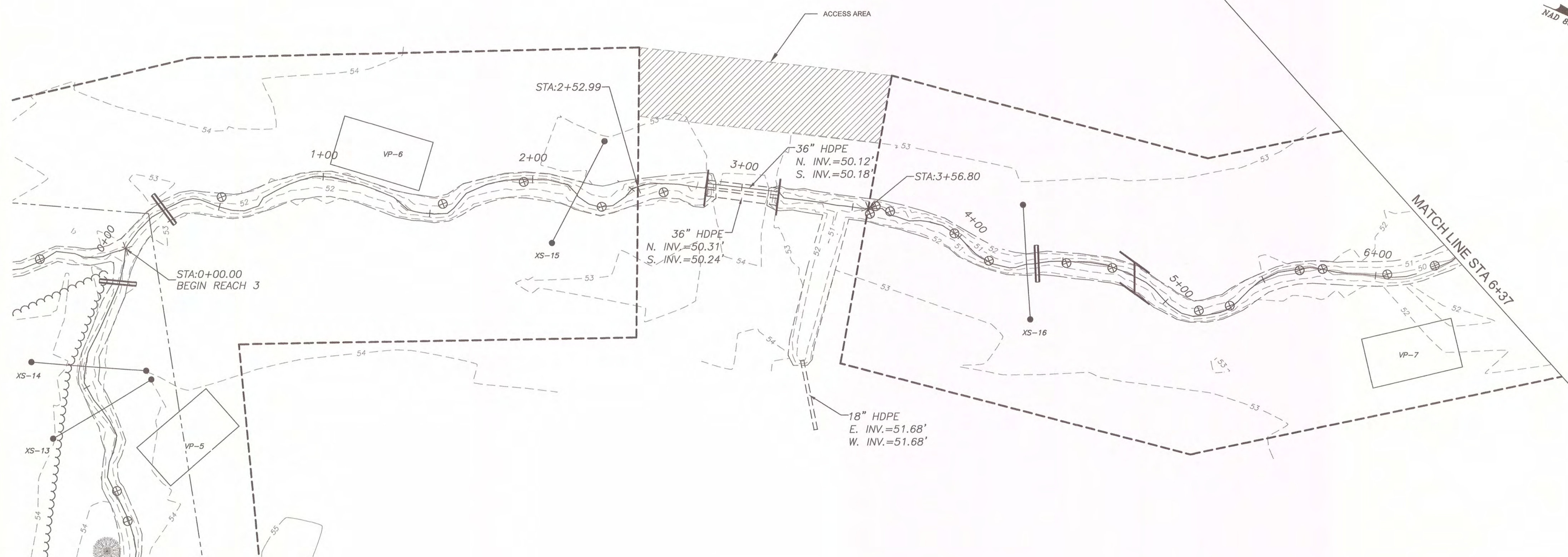
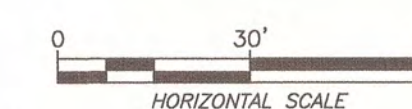
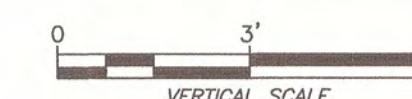
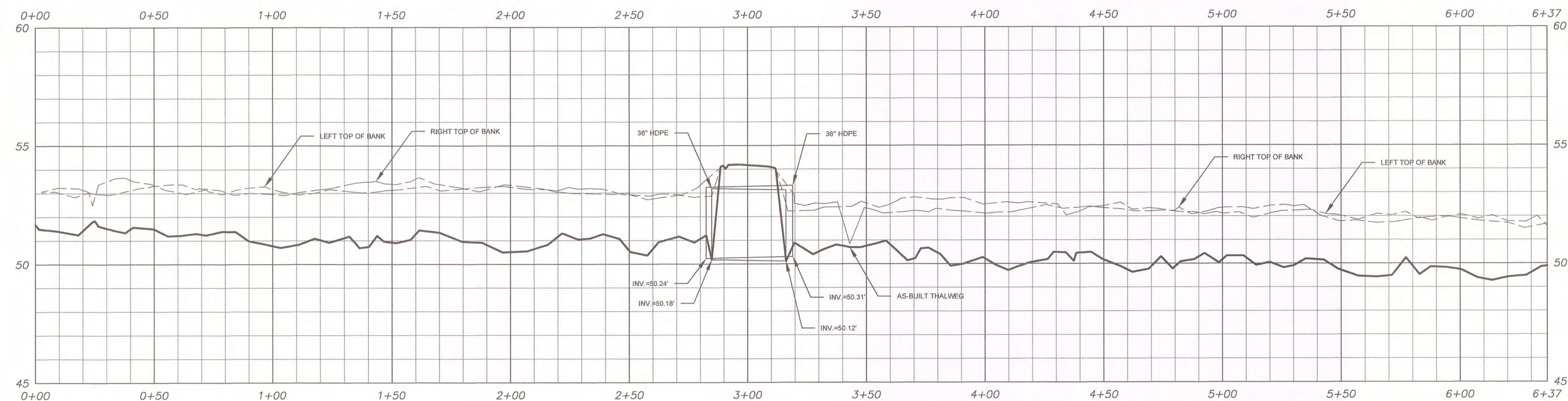
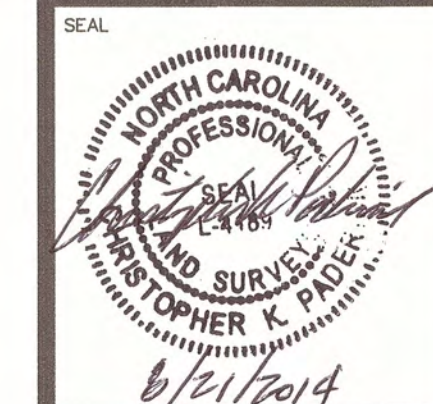
**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**



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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 8 OF 33
DRAWING NAME 1" = 30'	DRAWING NO. S-8
PROJECT NO. 20110047	



STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (0+00 - 6+37)

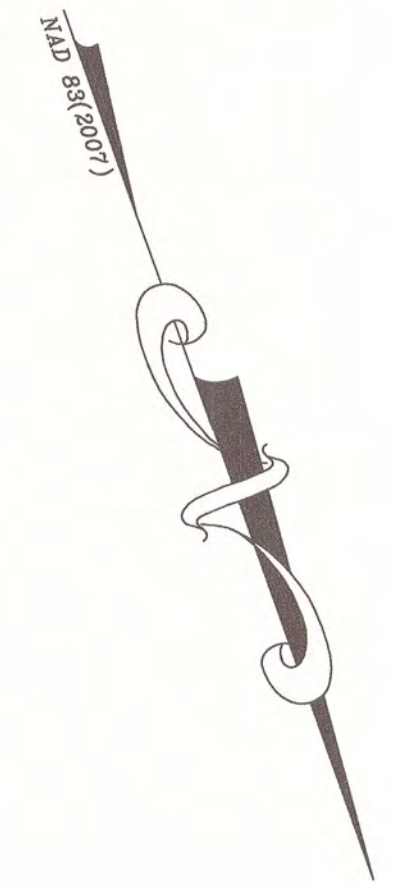
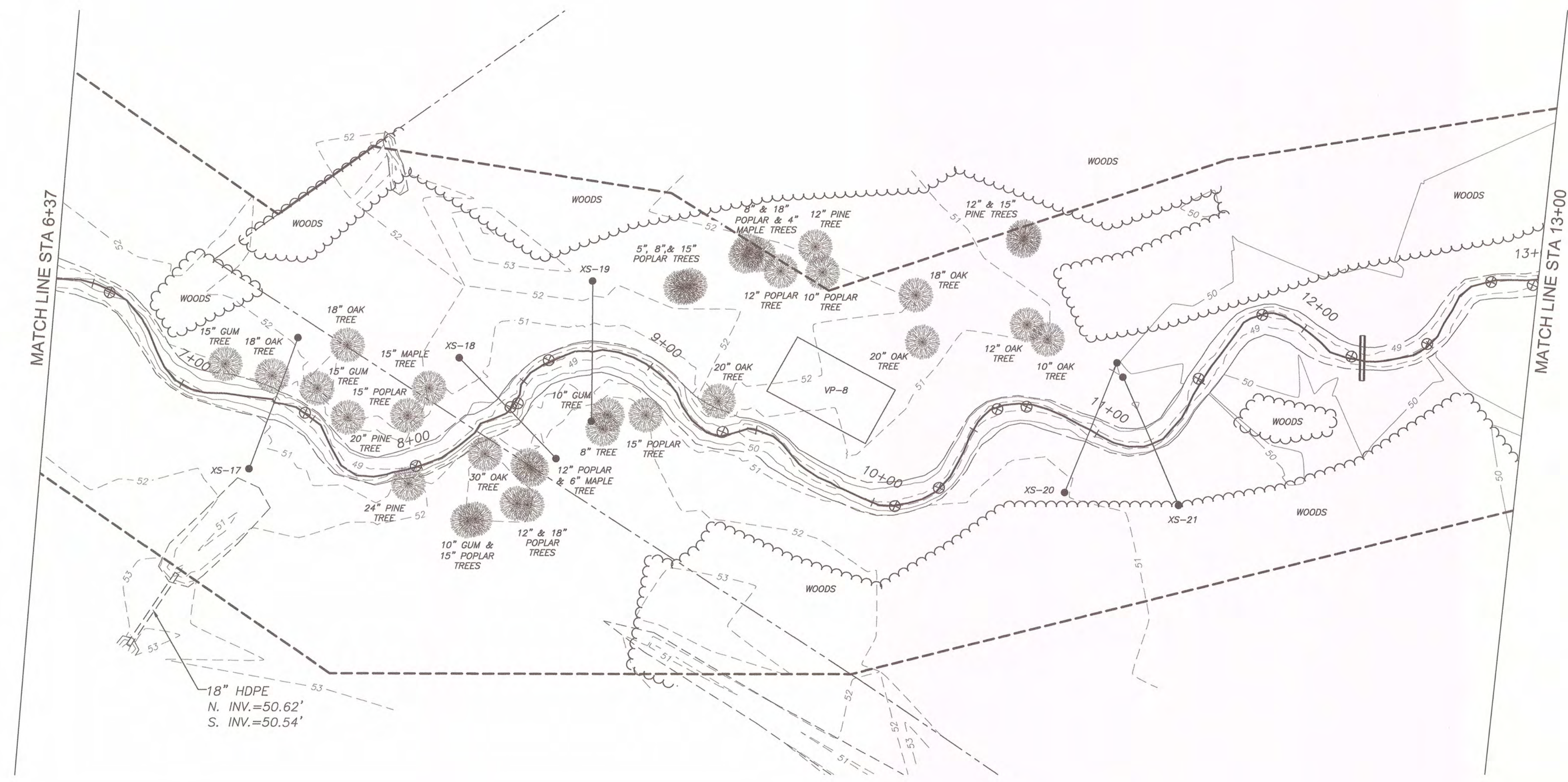
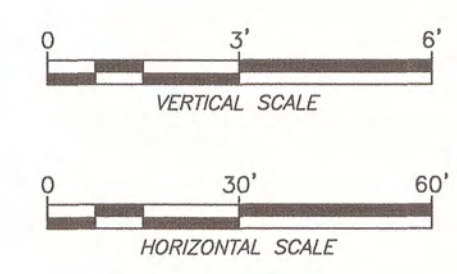
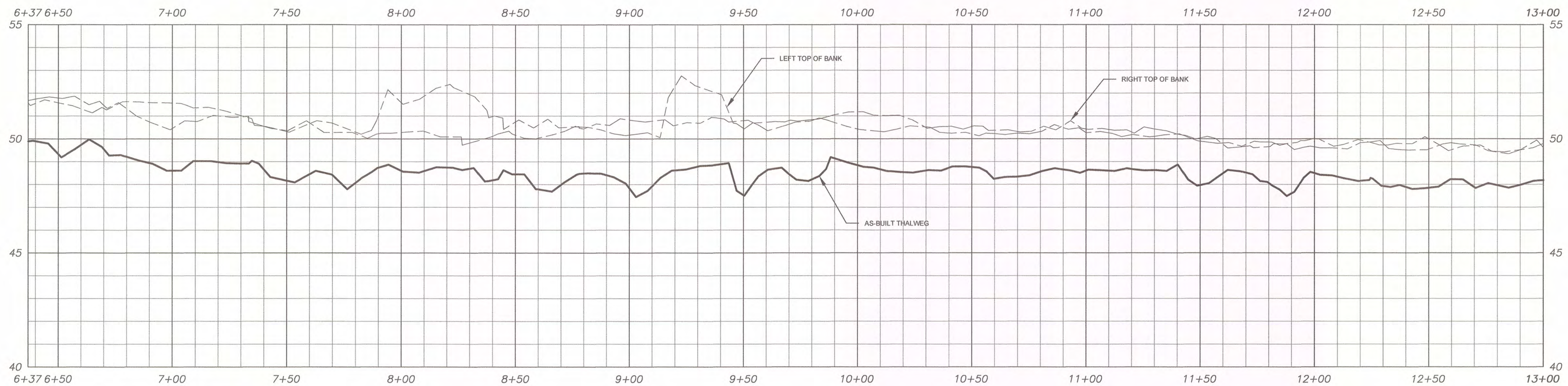
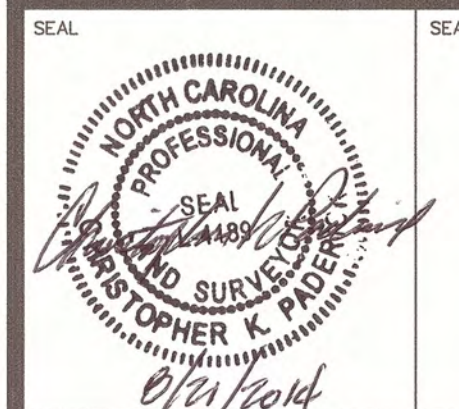
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 9 OF 33
DRAWING NAME 1" = 30'	DRAWING NO. S-9
PROJECT NO. 20110047	



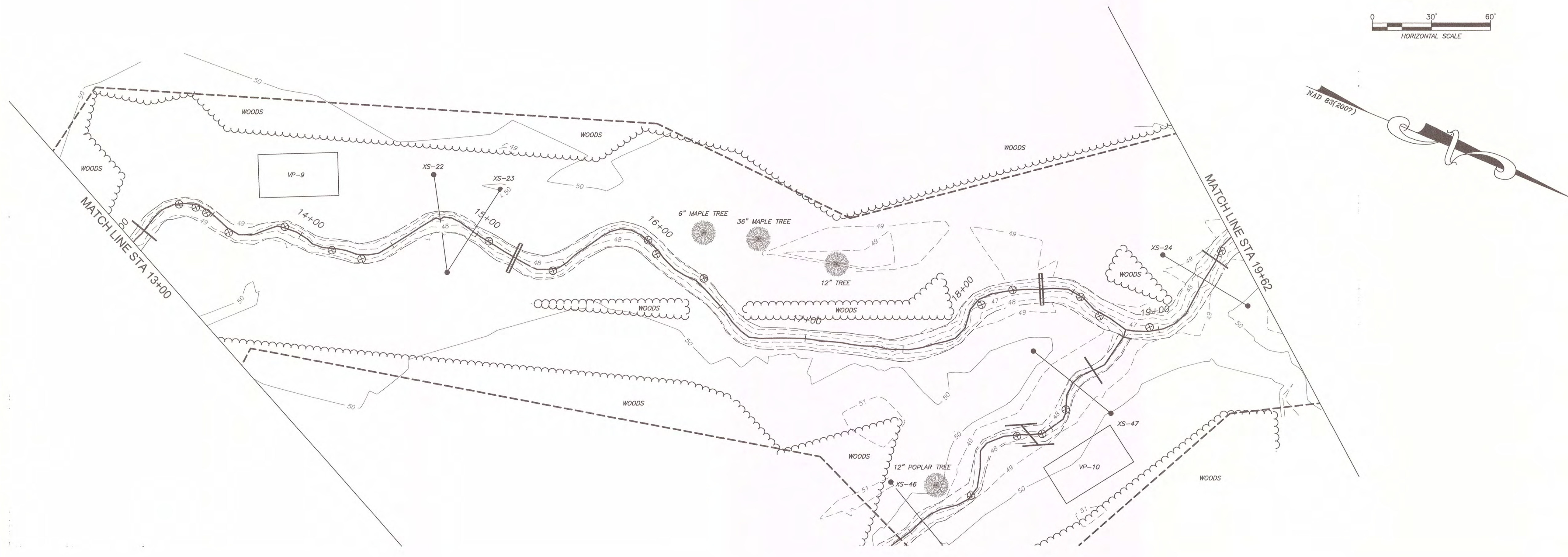
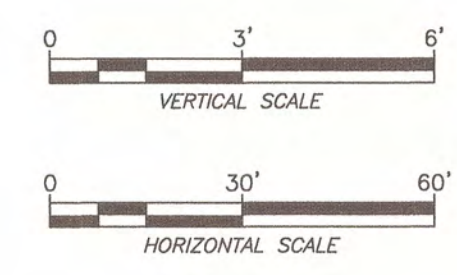
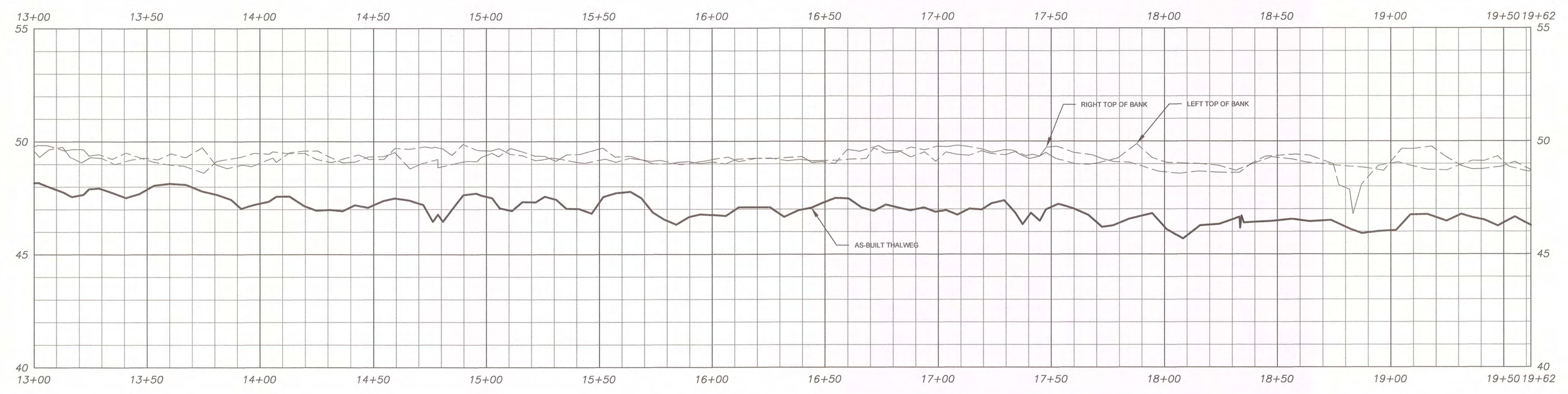
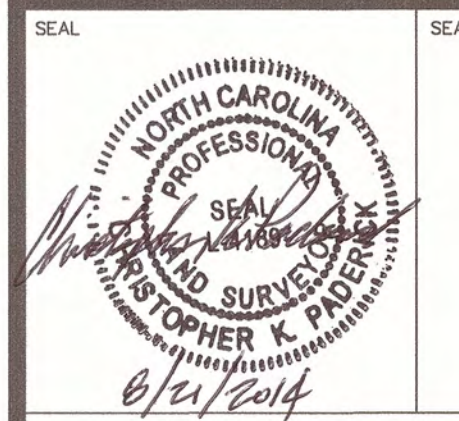
STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (6+37 - 13+00)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.



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RALEIGH, N.C. 27606

SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	SHEET No. 10 OF 33
DATE STARTED 7-23-14	DRAWING NO.
APPROVED CKP	S-10
DRAWING NAME 1" = 30'	
PROJECT NO. 20110047	



STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (13+00 - 19+62)

MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.

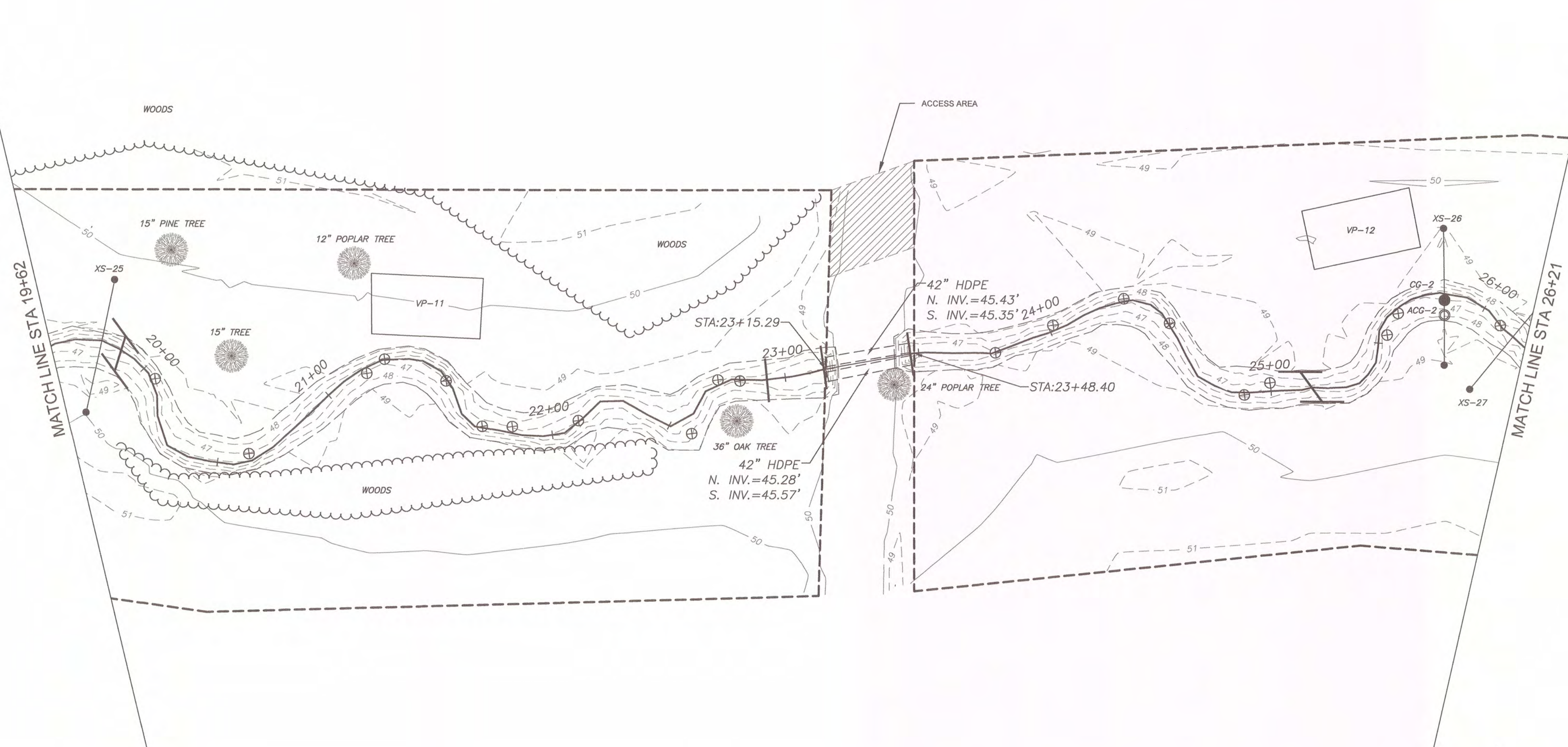
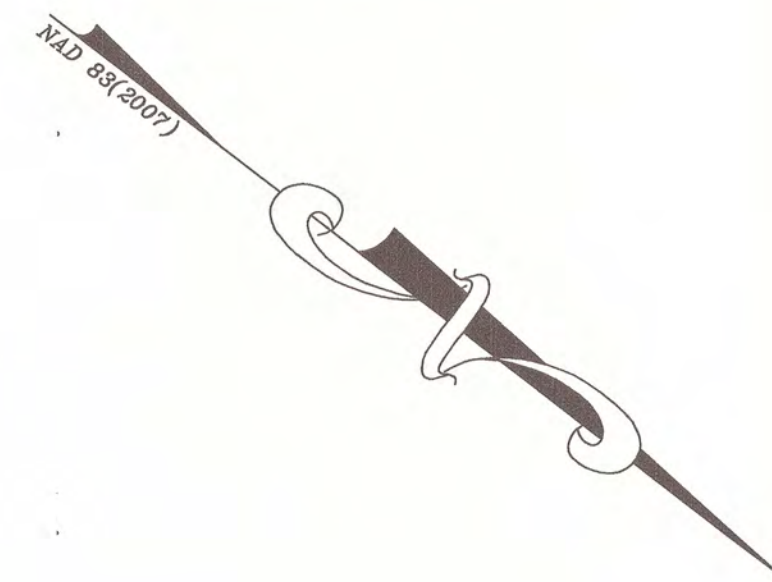
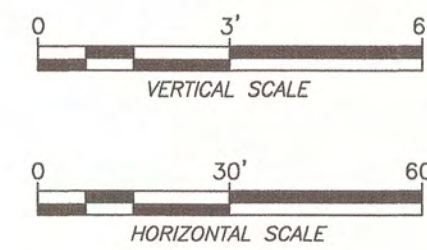
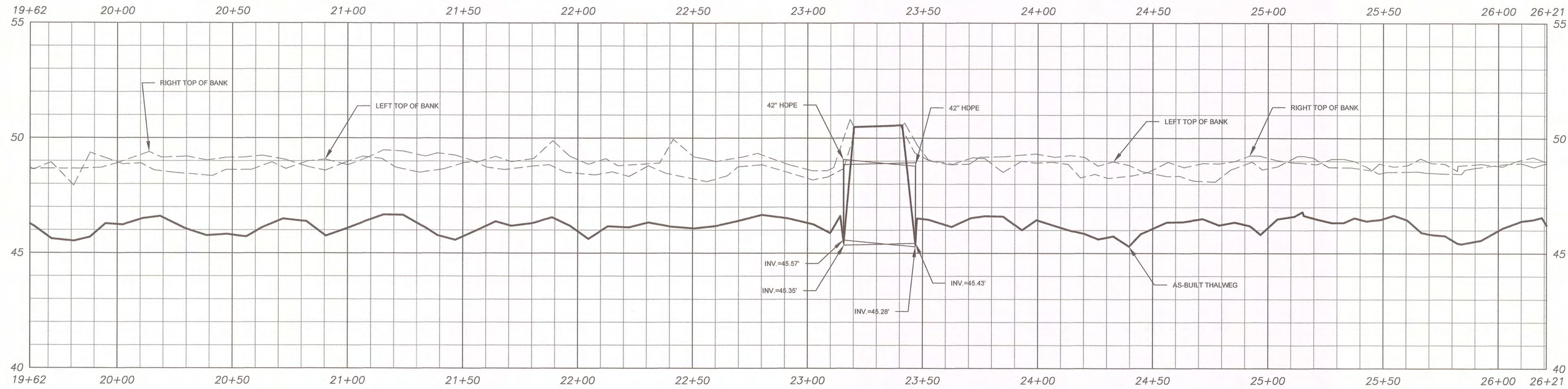
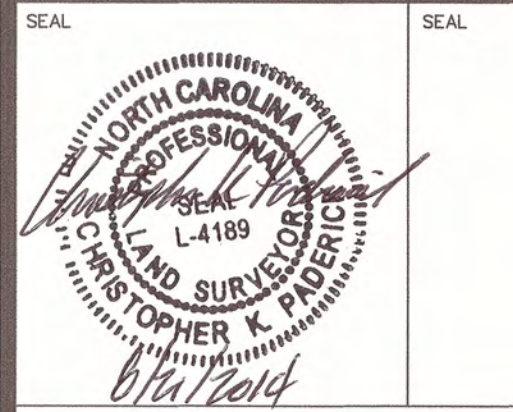


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RALEIGH, N.C. 27606

SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 11 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-11



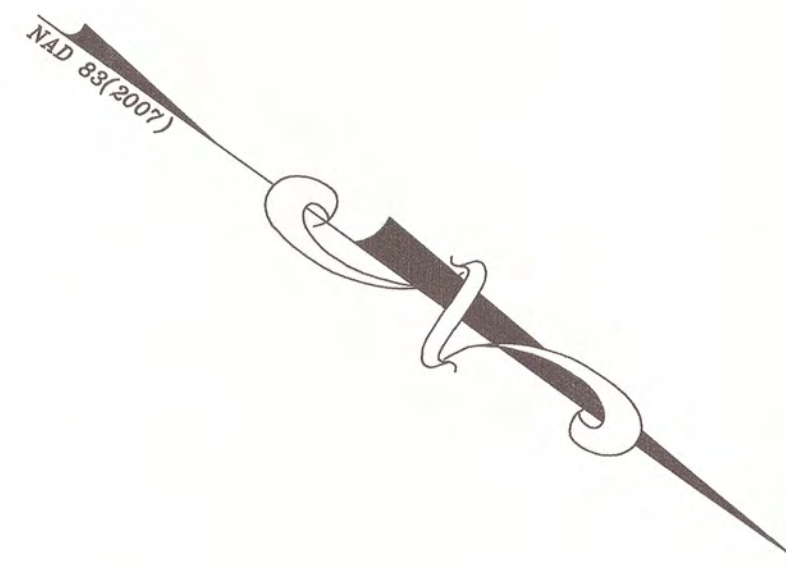
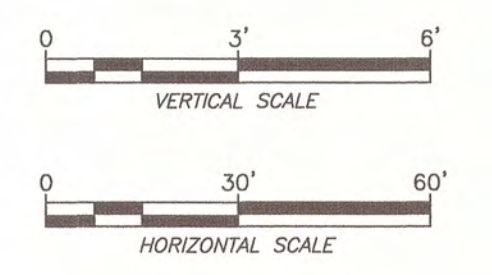
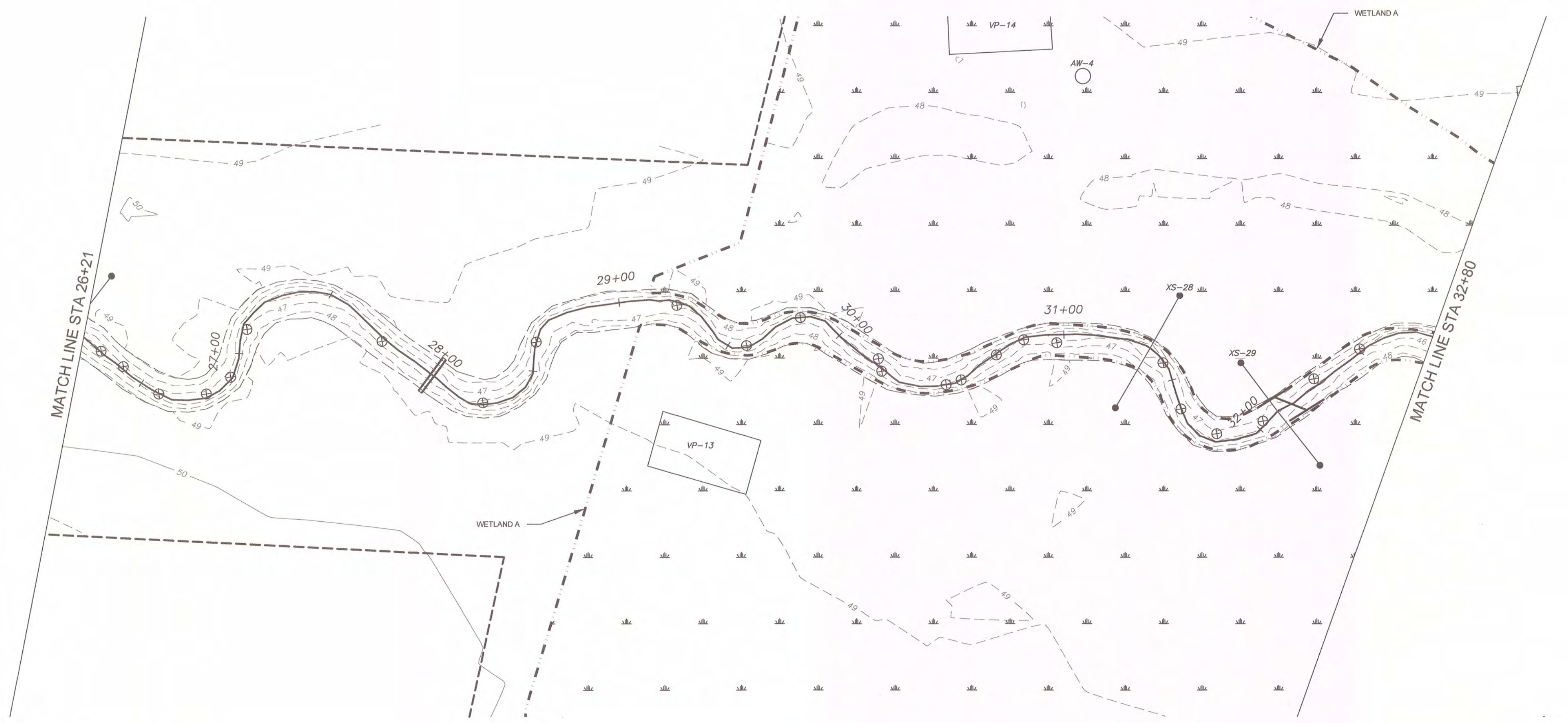
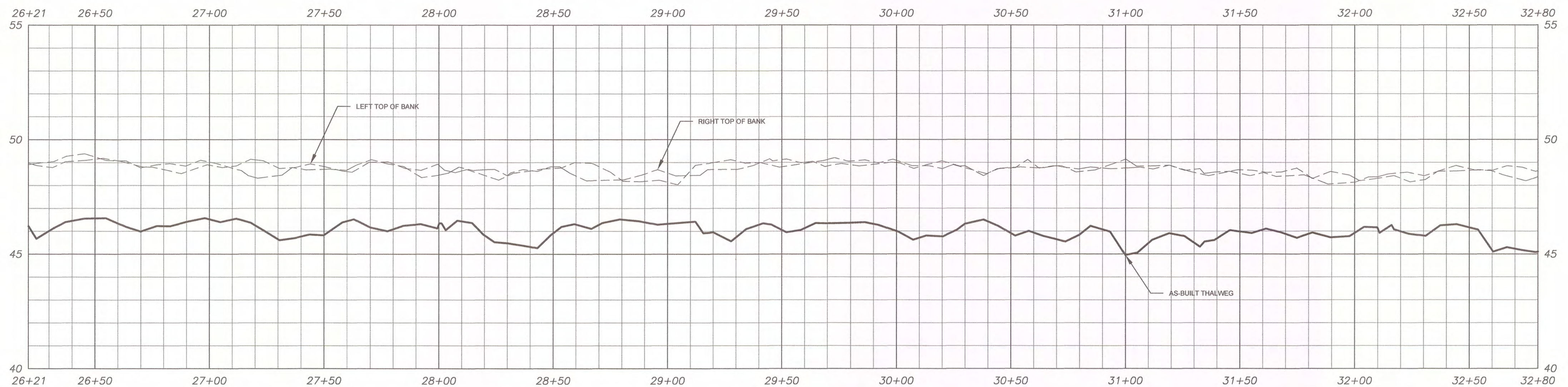
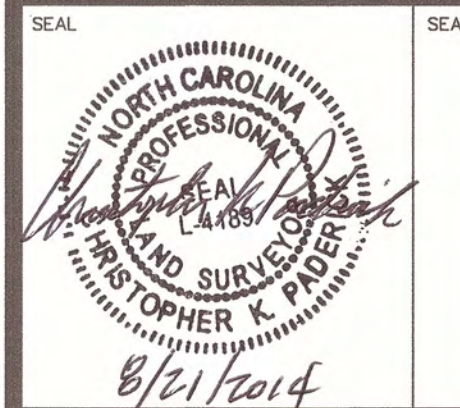
STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (19+62 - 26+21)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.



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ENVIRONMENTAL BANC
& EXCHANGE, LLC
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	SHEET No. 12 OF 33
DATE STARTED 7-23-14	DRAWING NO.
APPROVED CKP	S-12
DRAWING NAME 1" = 30'	
PROJECT NO. 20110047	



STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (26+21 - 32+80)

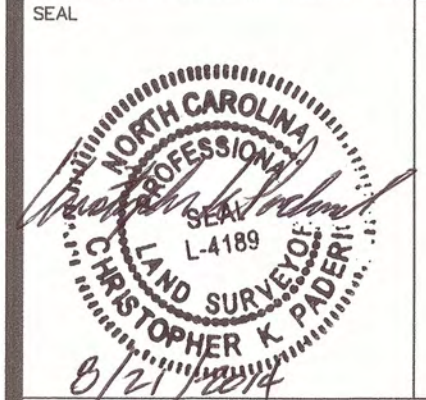
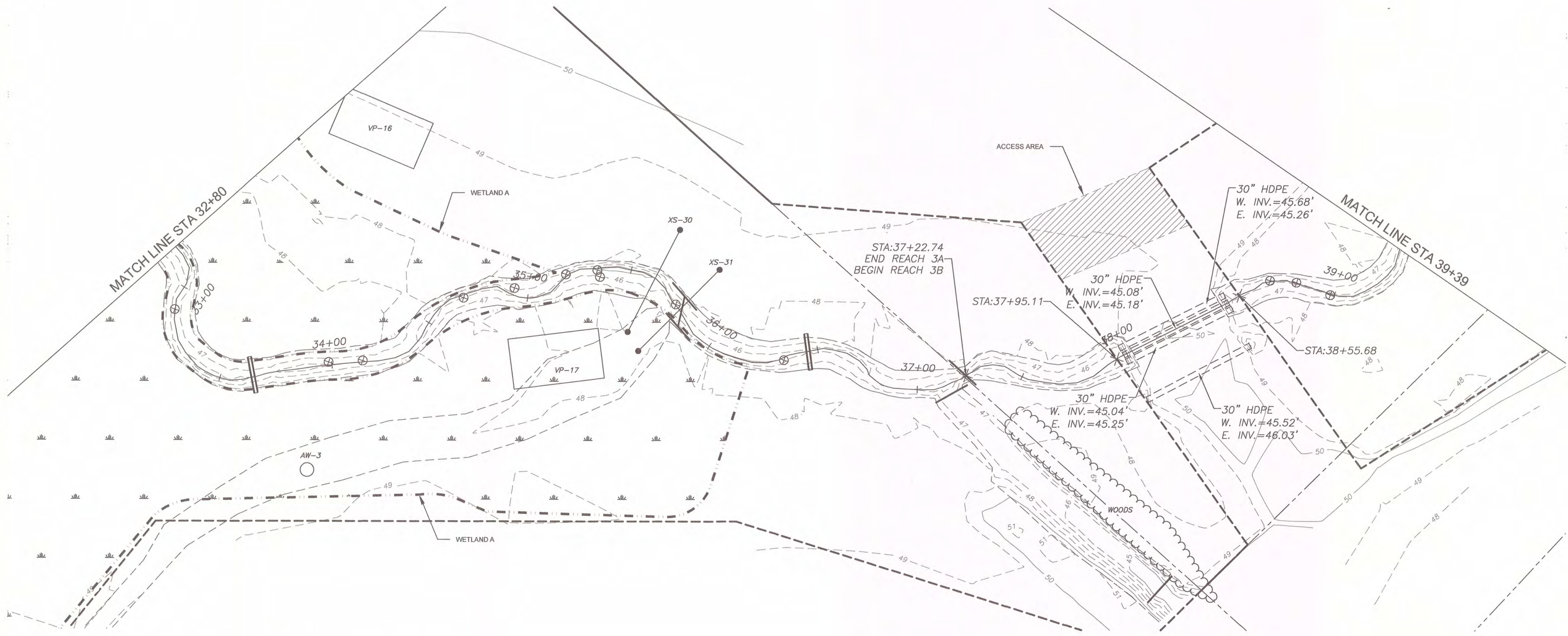
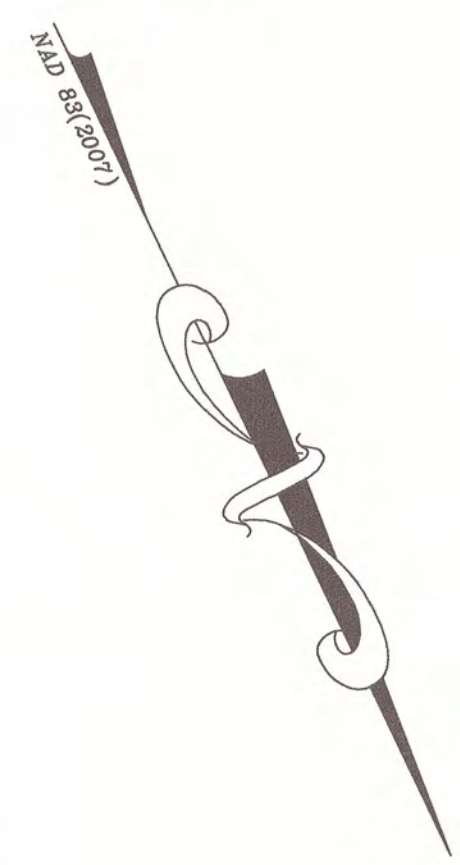
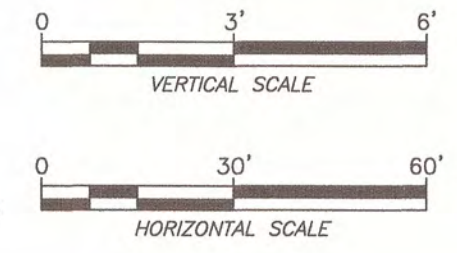
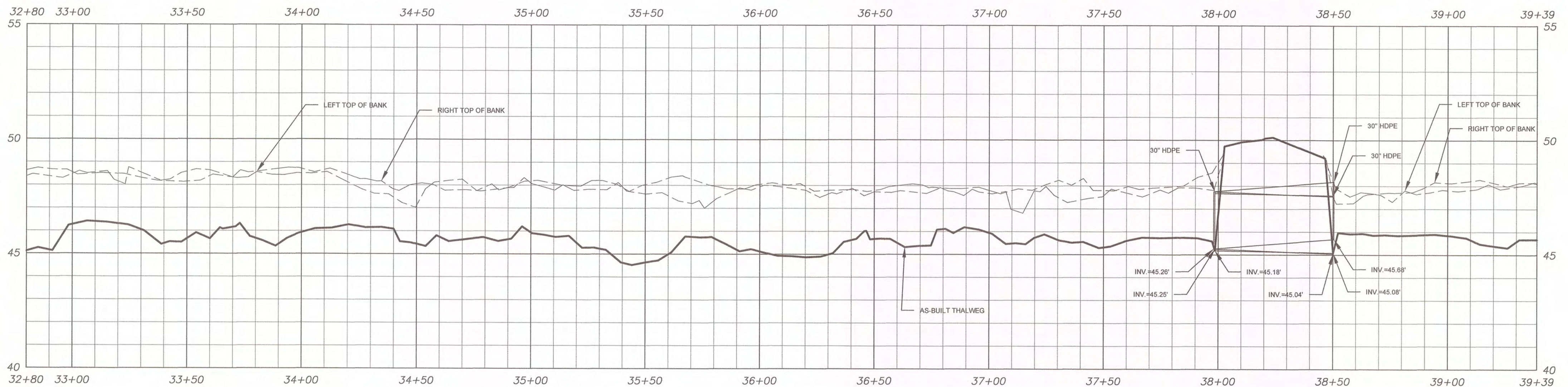
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 13 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-13



**STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (32+80 - 39+39)**

**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**

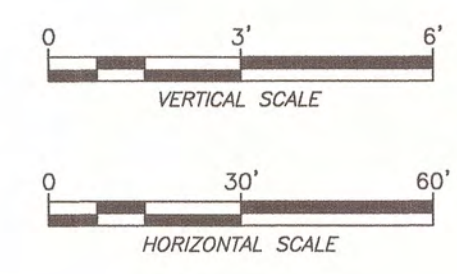
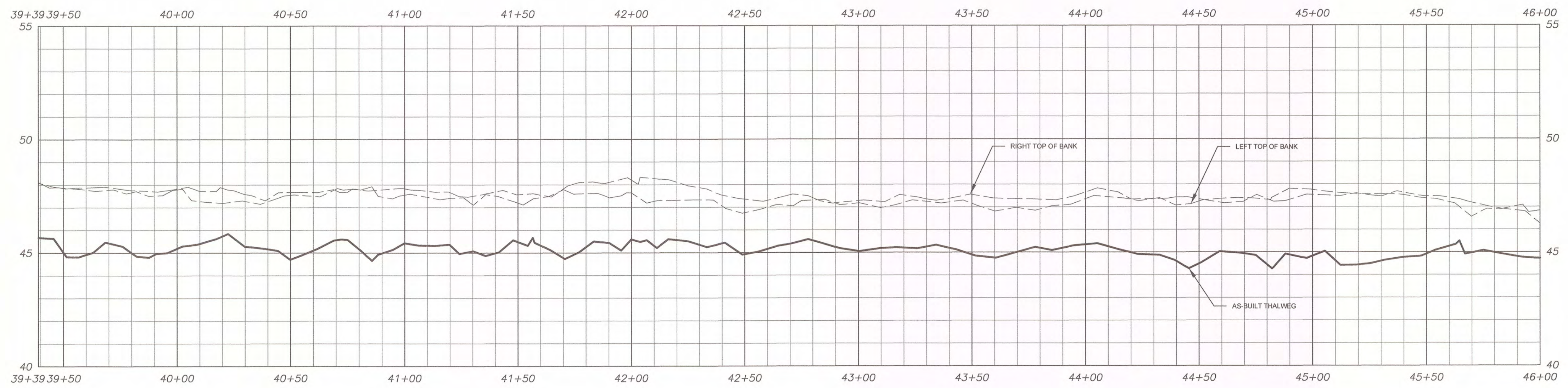
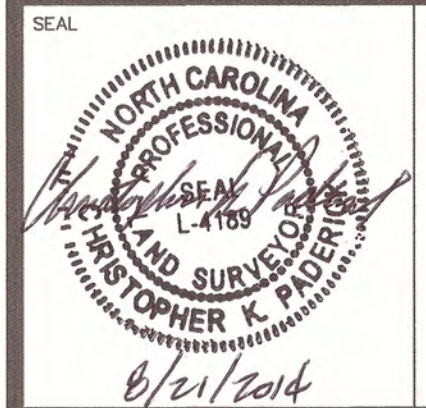


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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 14 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-14



STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (39+39 - 46+00)

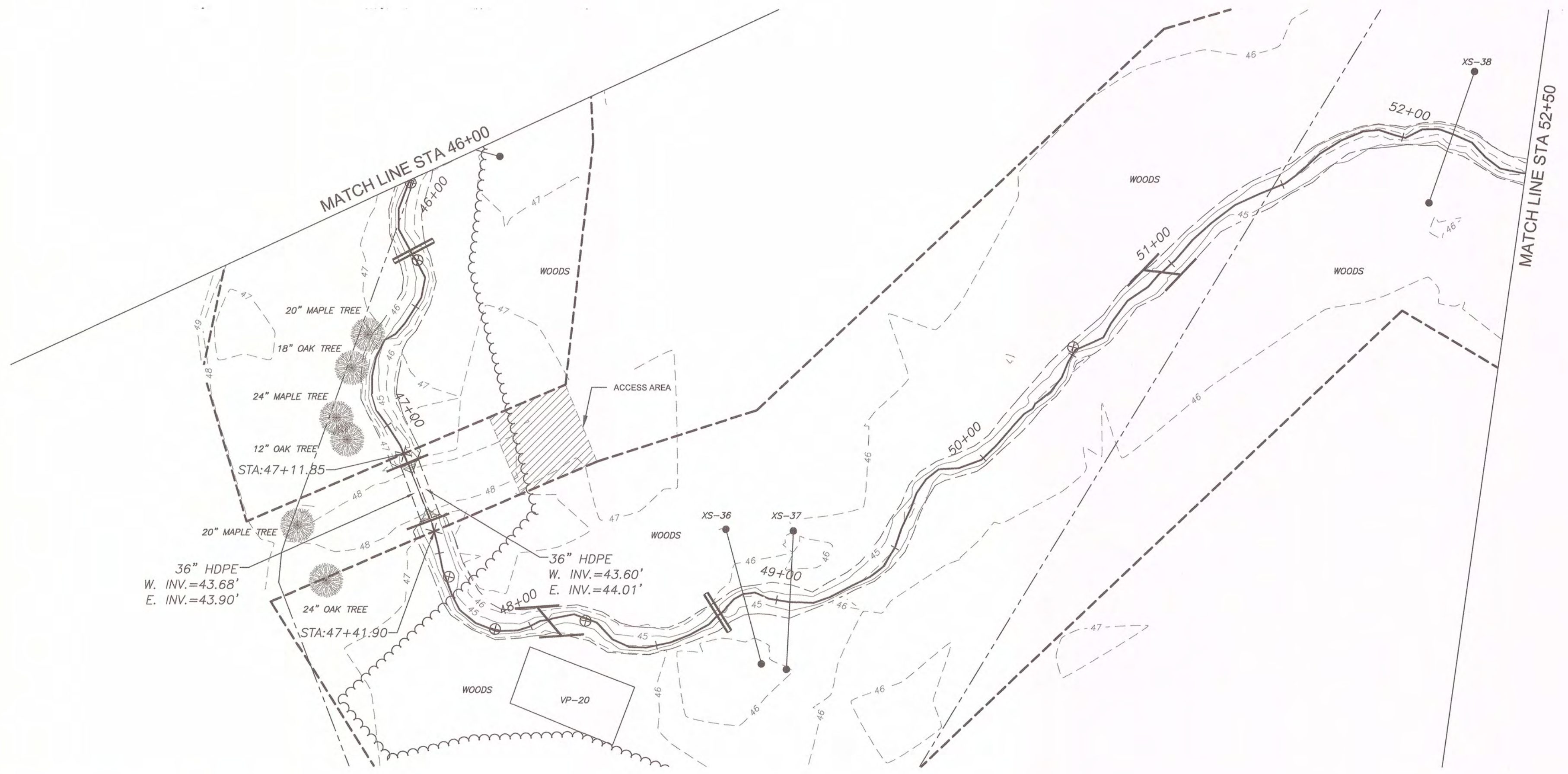
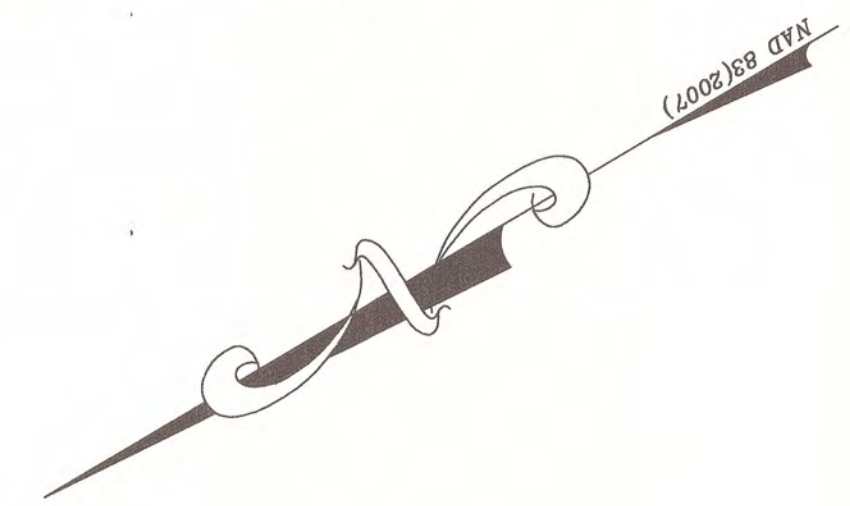
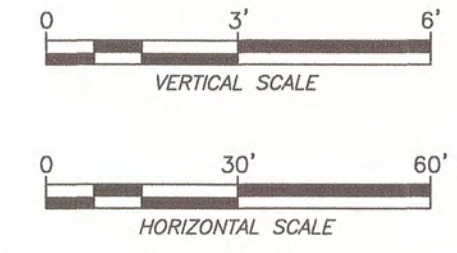
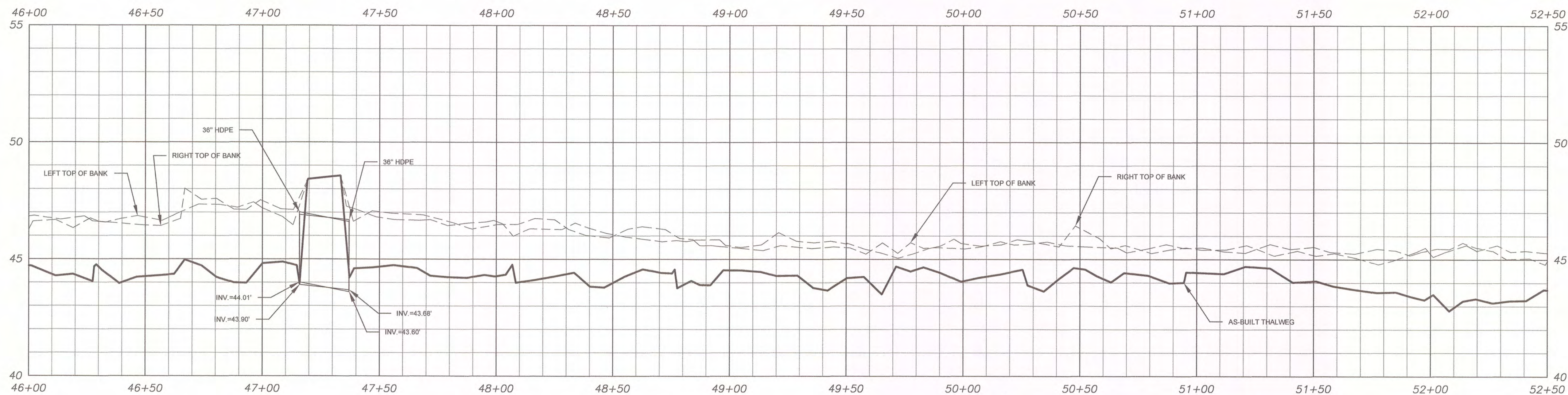
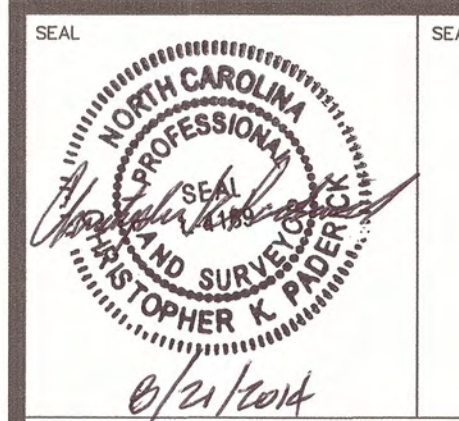
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 15 OF 33
DRAWING NAME 1" = 30'	DRAWING NO. S-15
PROJECT NO. 20110047	



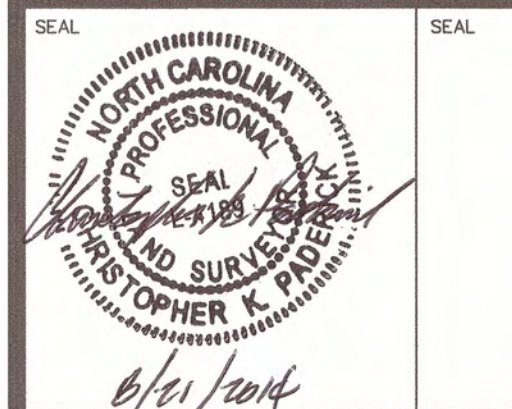
STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (46+00 - 52+50)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.



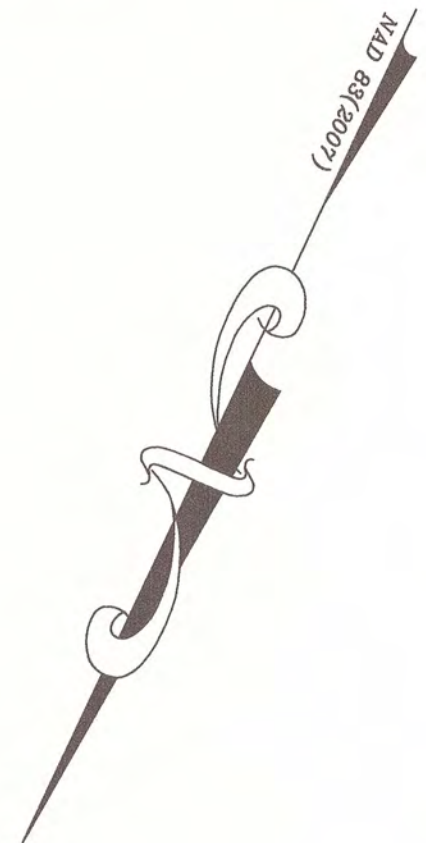
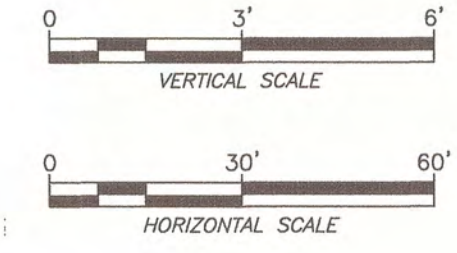
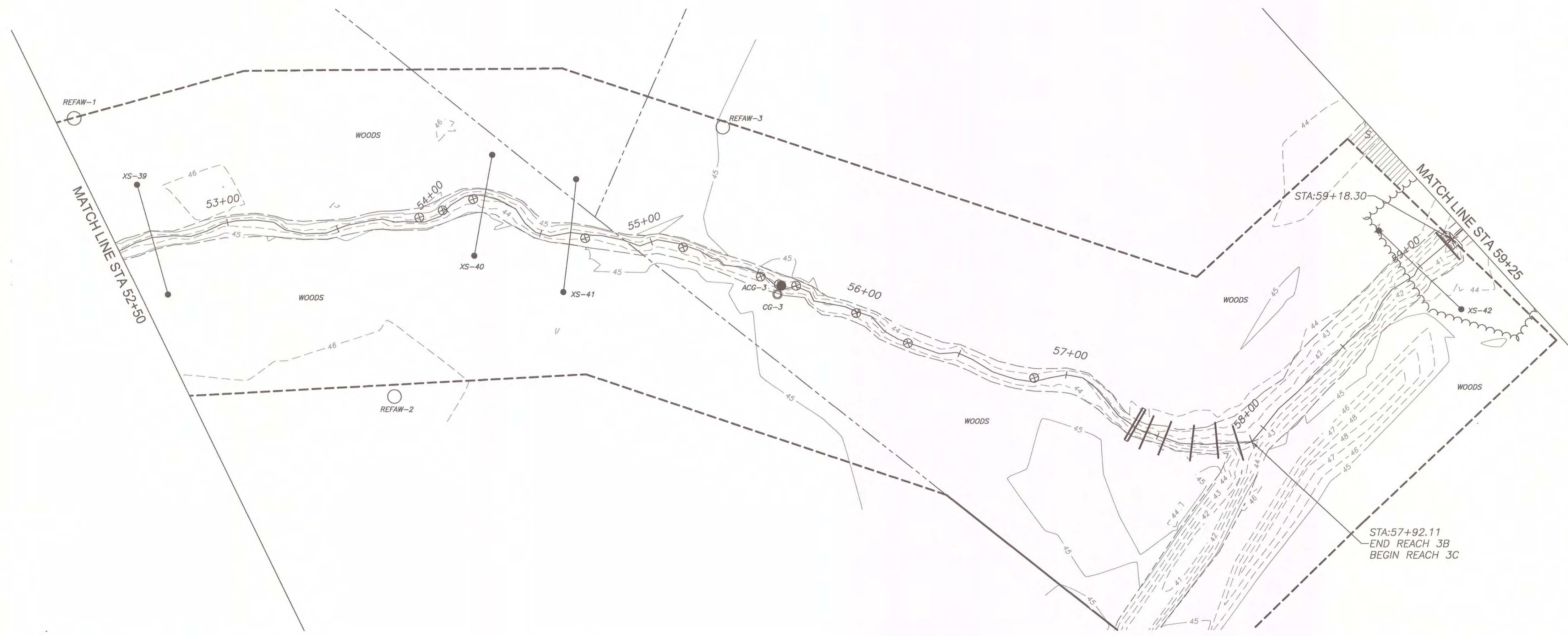
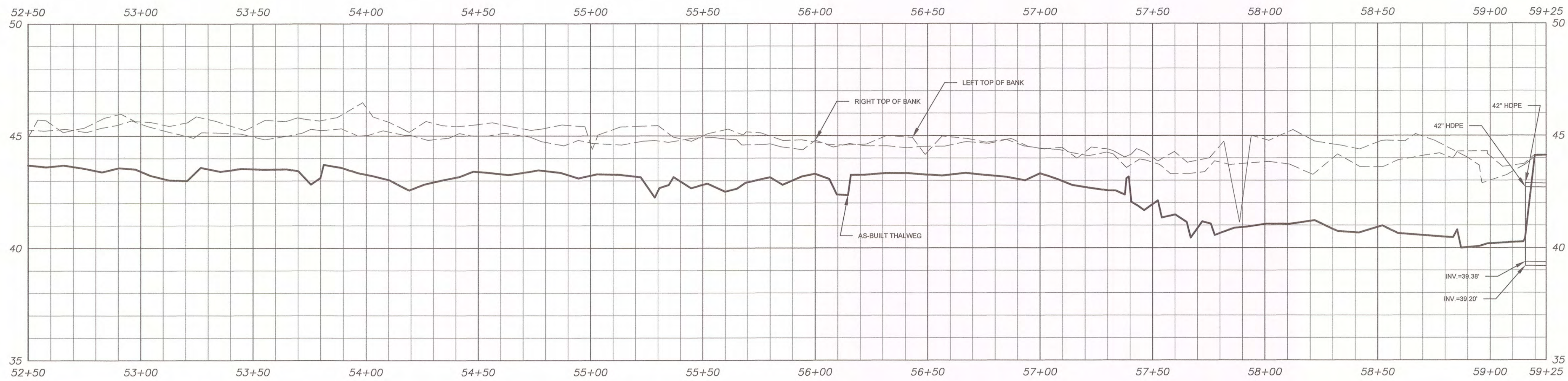
906 N. QUEEN ST., SUITE A
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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 16 OF 33
DRAWING NAME 1" = 30'	DRAWING No.
PROJECT NO. 20110047	S-16



6/21/2014



**STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (52+50 - 59+25)**

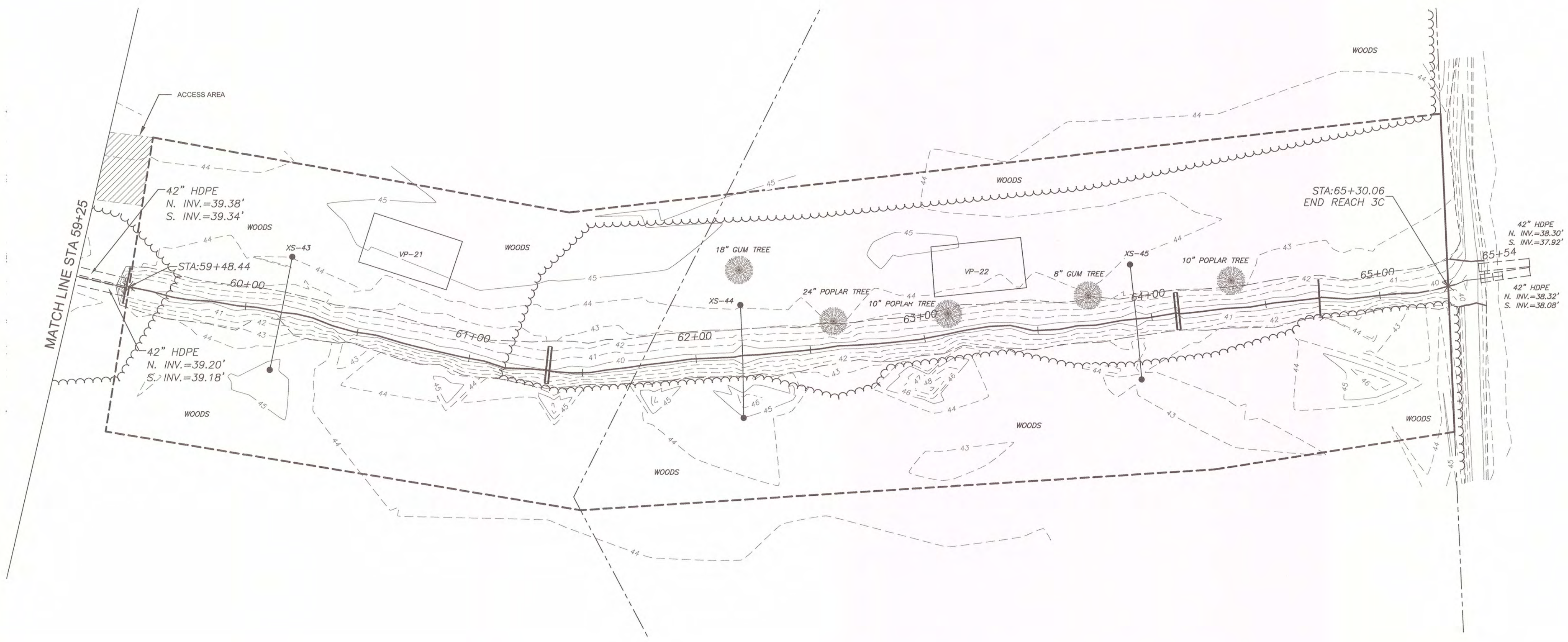
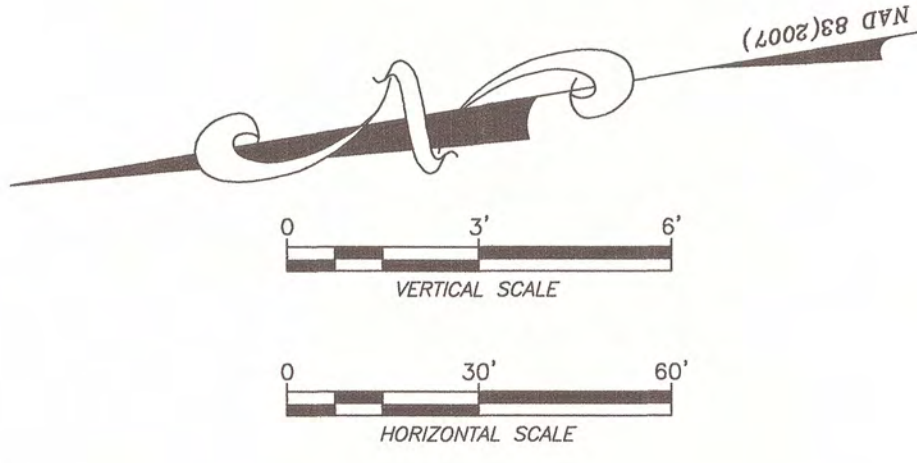
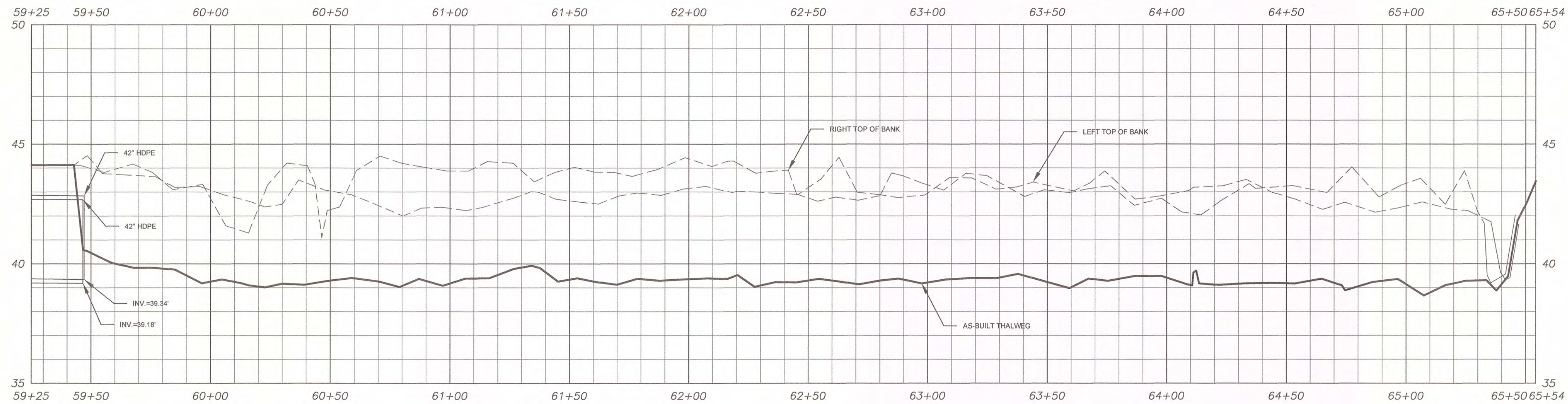
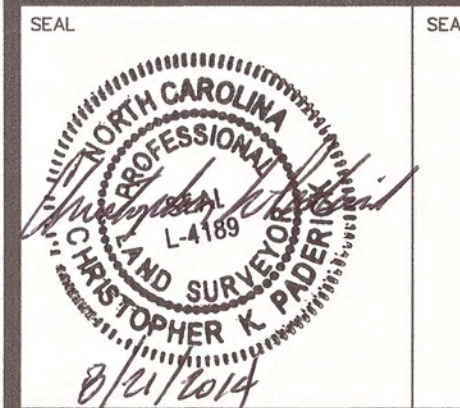
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MITIGATION PROJECT
DUPLIN COUNTY, N.C.**



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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 17 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-17



STREAM BASELINE AS-BUILT
REACH 3 PLAN & PROFILE (59+25 - 65+54)

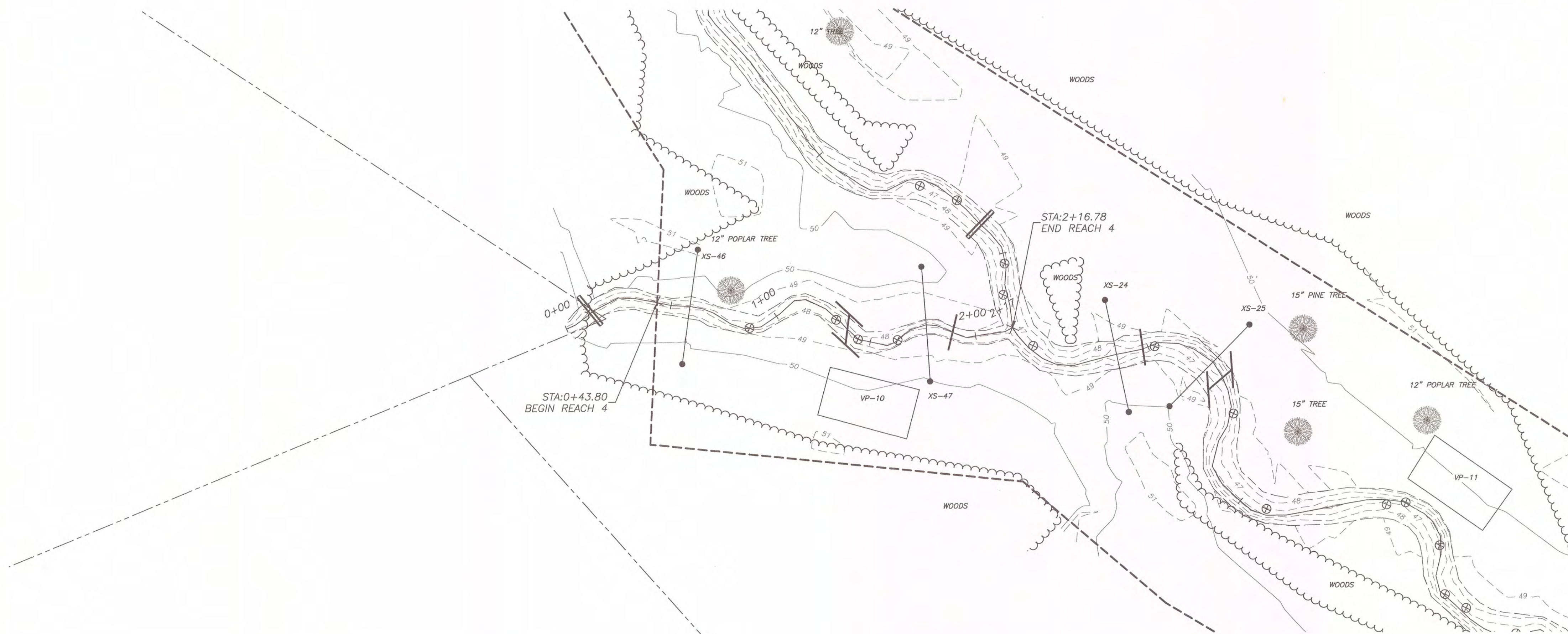
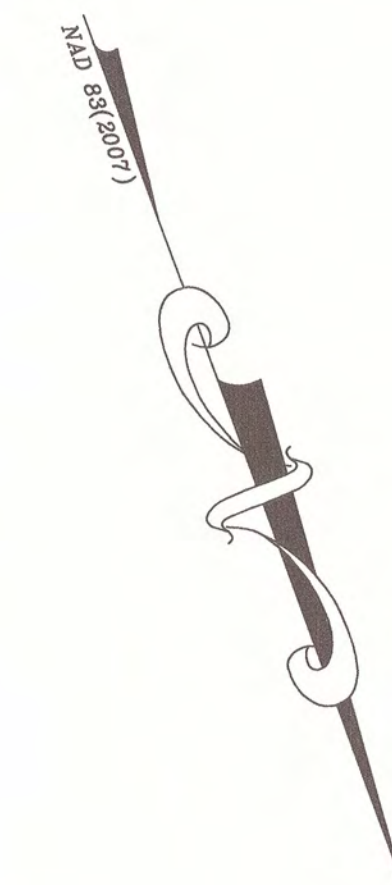
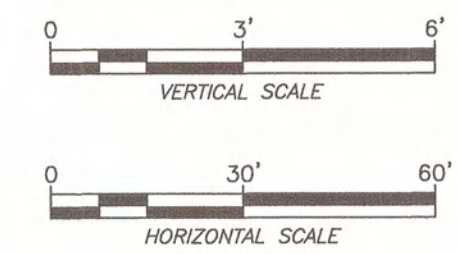
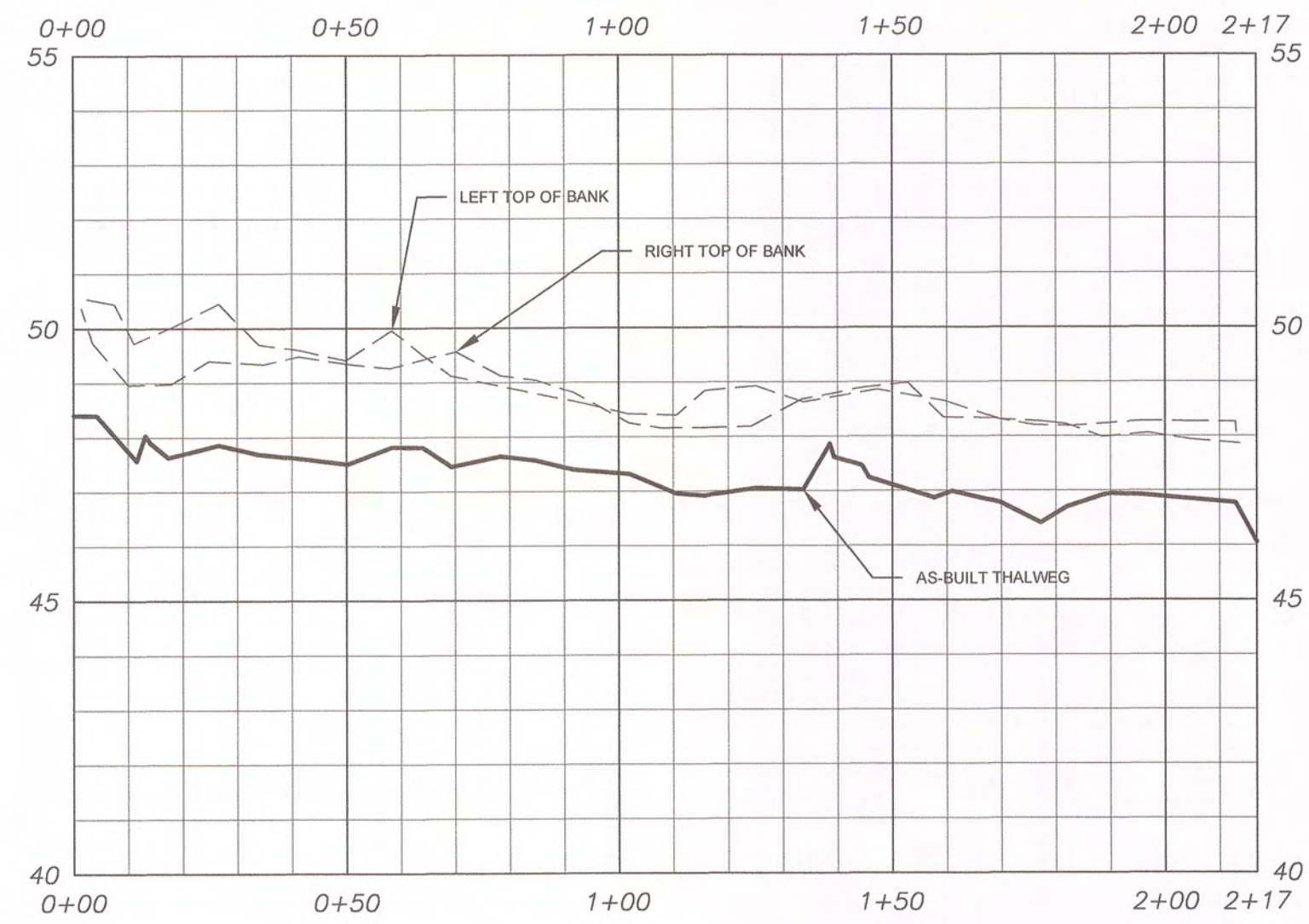
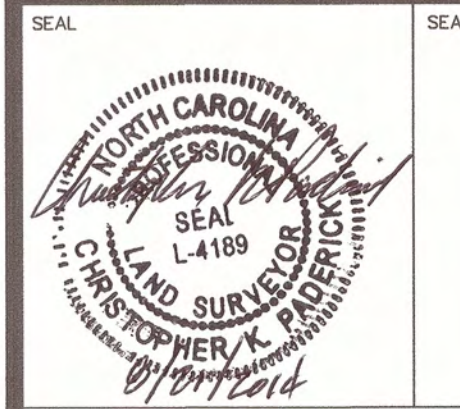
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 18 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-18



**STREAM BASELINE AS-BUILT
REACH 4 PLAN & PROFILE (0+00 - 2+17)**

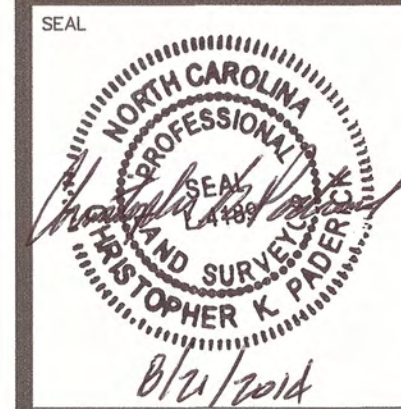
**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**



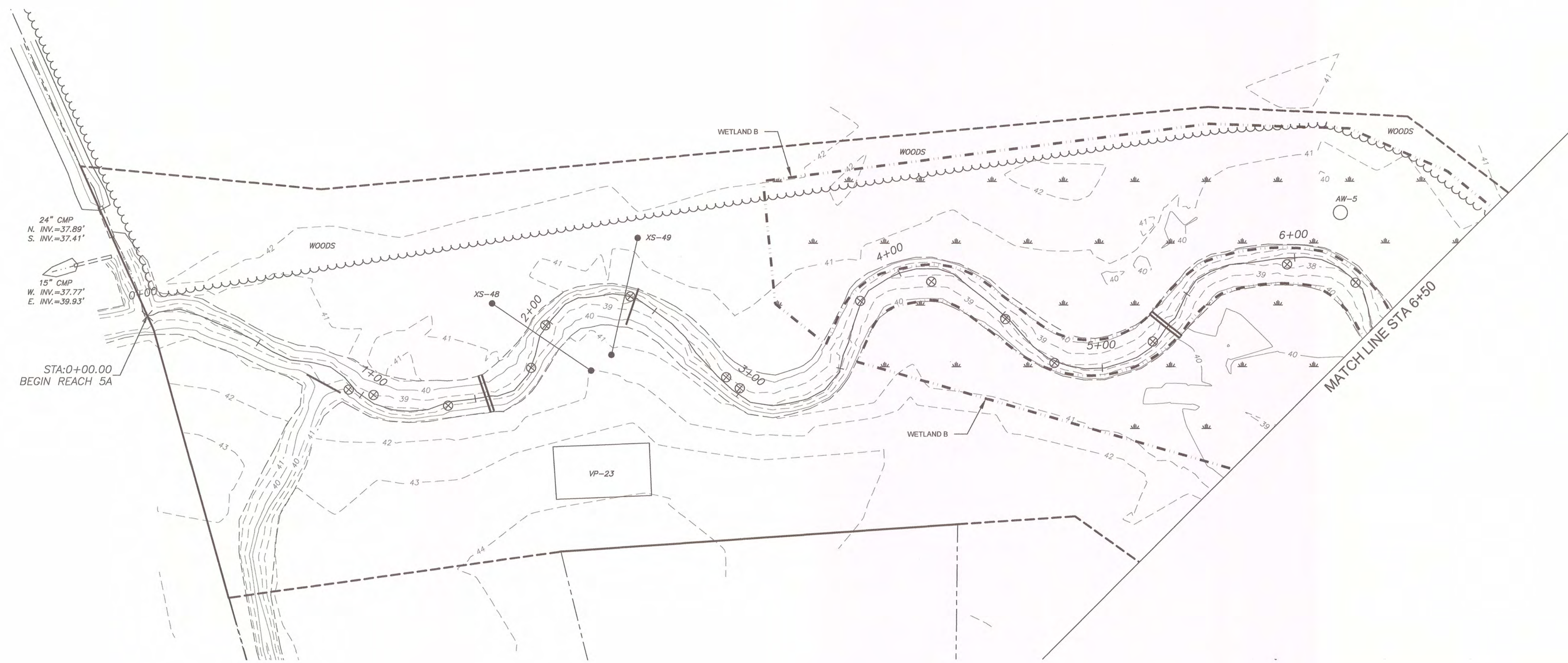
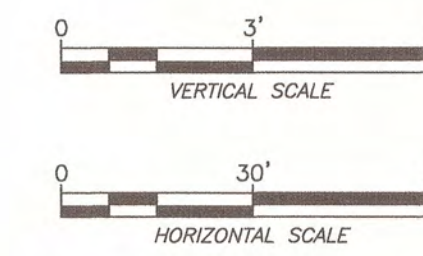
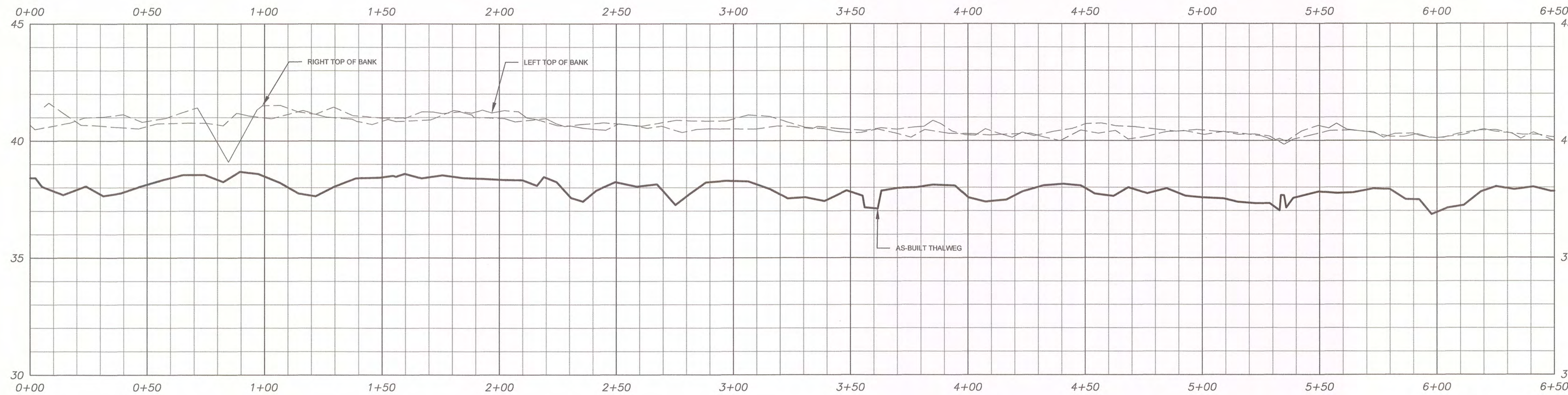
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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 19 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-19



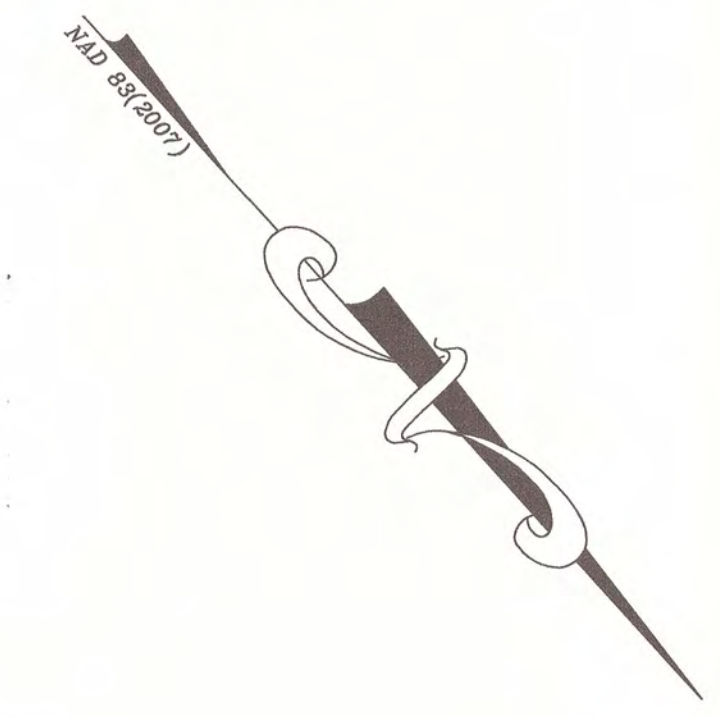
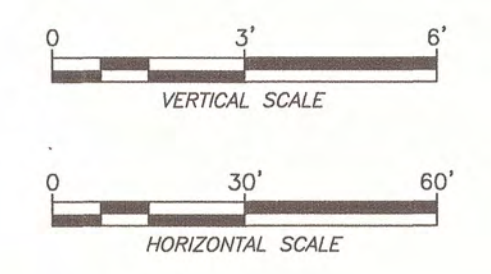
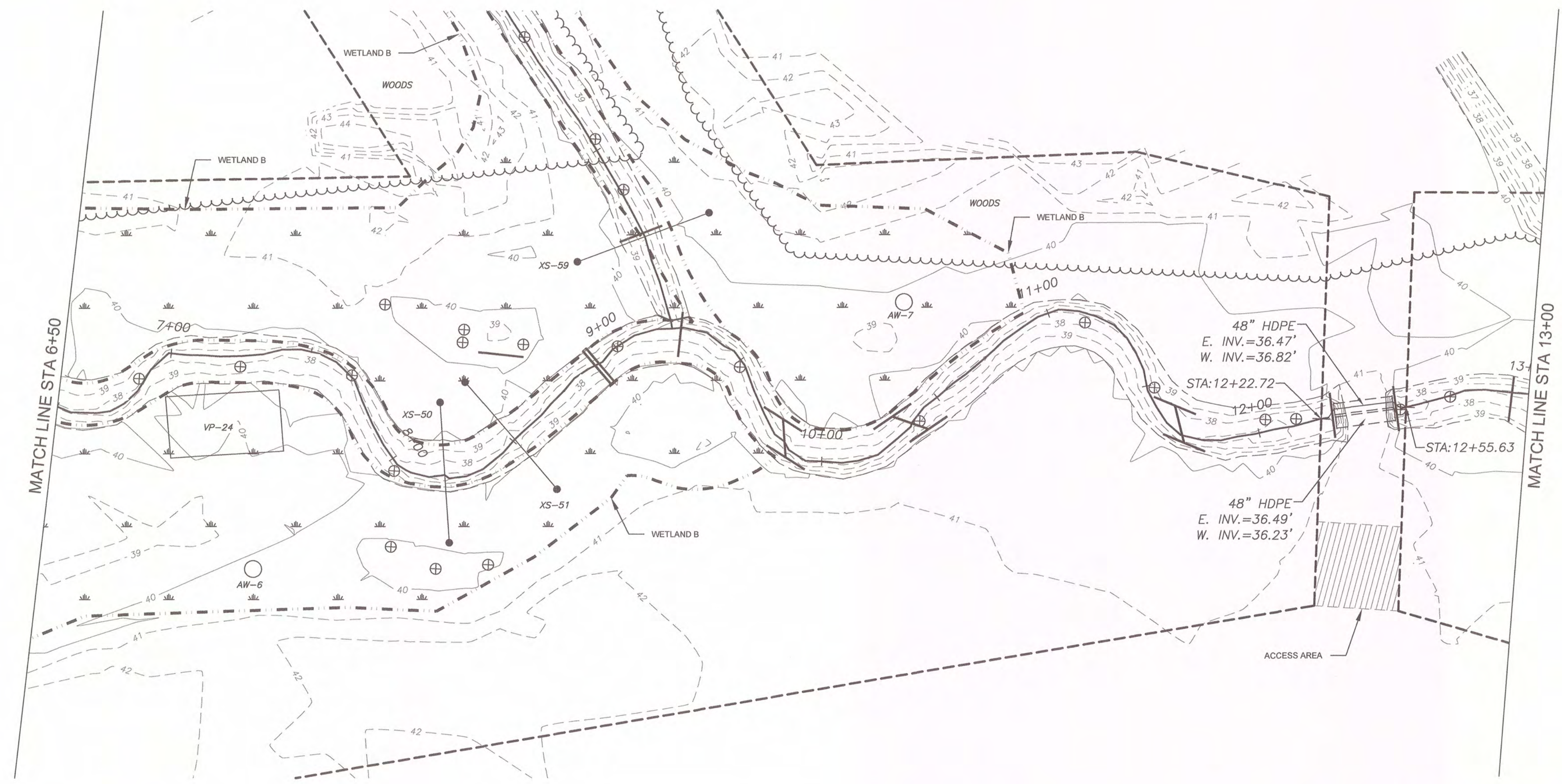
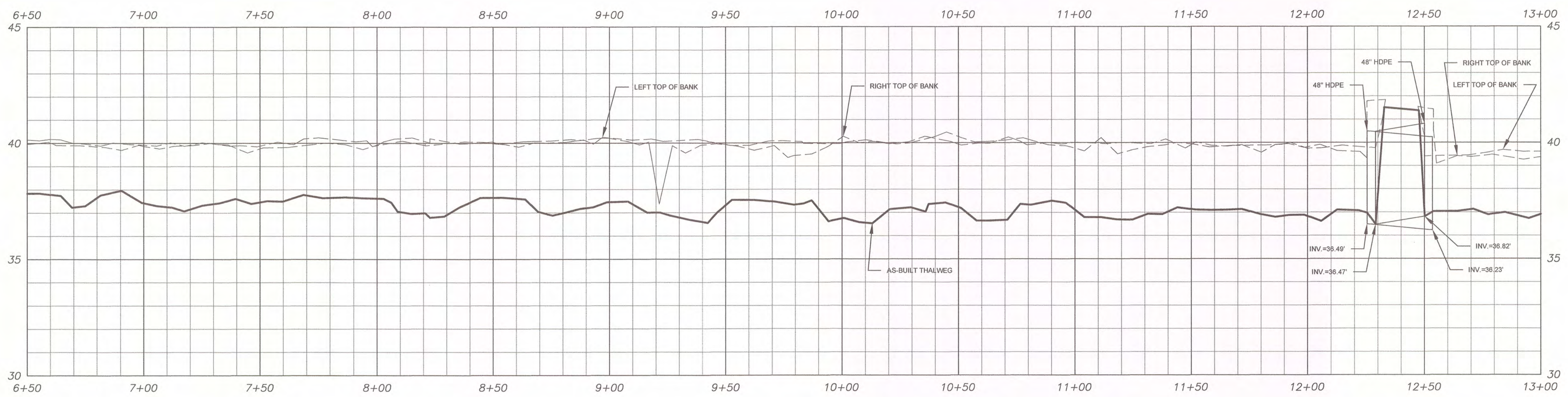
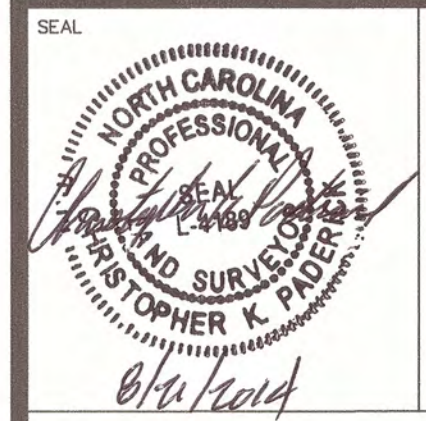
STREAM BASELINE AS-BUILT
REACH 5 PLAN & PROFILE (0+00 - 6+50)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.




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ENVIRONMENTAL BANC & EXCHANGE, LLC
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RALEIGH, N.C. 27606

SCALE 20110047-MR2-ASB.dwg DRAWN BY JRW APPROVED CKP DRAWING NAME PROJECT NO. 20110047	DEPARTMENT DATE STARTED 7-23-14 SHEET No. 20 OF 33 DRAWING NO. <div style="text-align: center; font-size: large; font-weight: bold;">S-20</div>
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**STREAM BASELINE AS-BUILT
REACH 5 PLAN & PROFILE (6+50 - 13+00)**

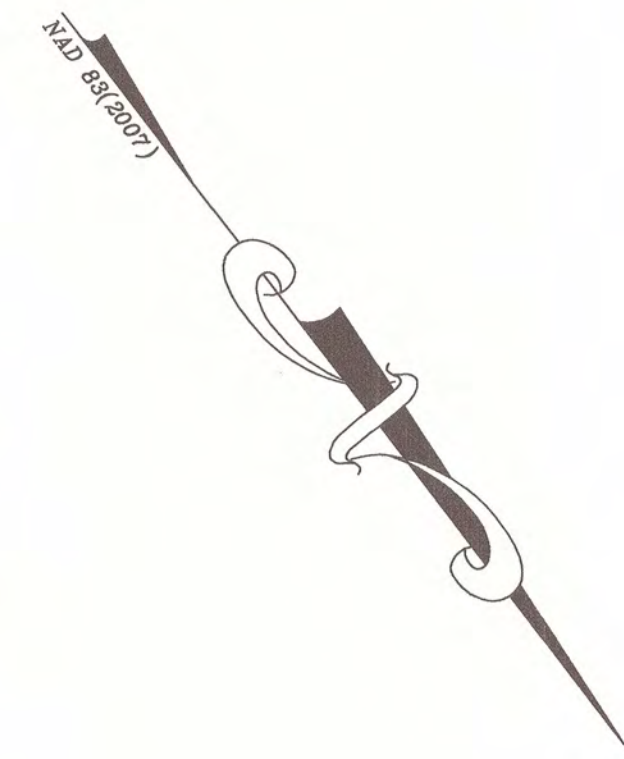
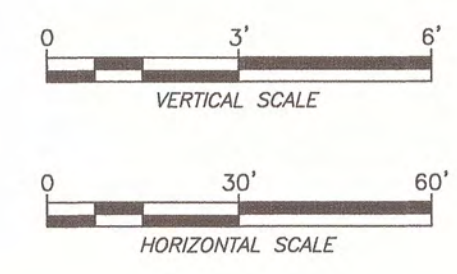
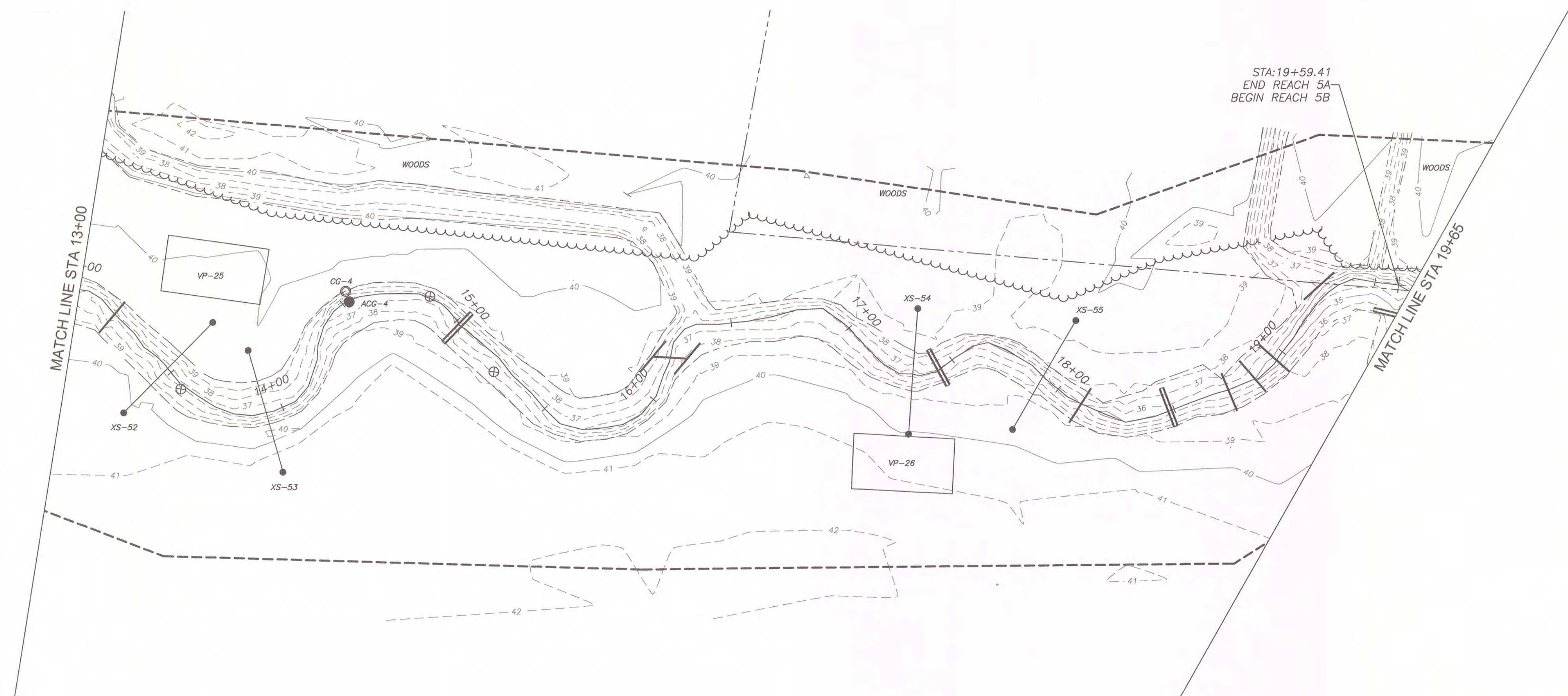
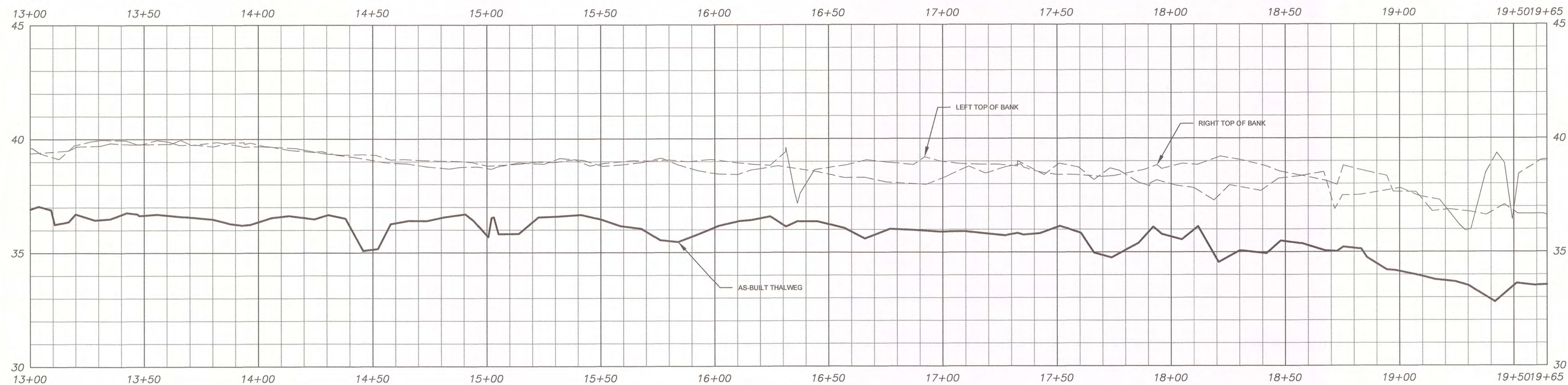
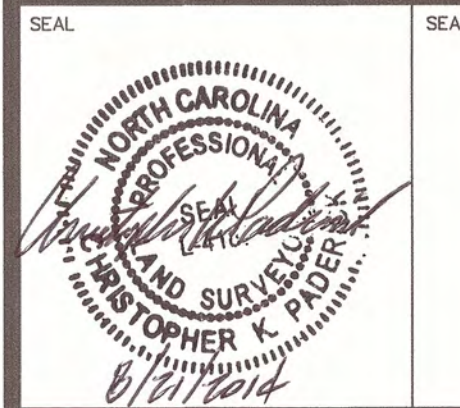
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



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**ENVIRONMENTAL BANC
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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 21 OF 33
DRAWING NAME 1" = 30'	DRAWING NO. S-21
PROJECT NO. 20110047	



STREAM BASELINE AS-BUILT
REACH 5 PLAN & PROFILE (13+00 - 19+65)

MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.

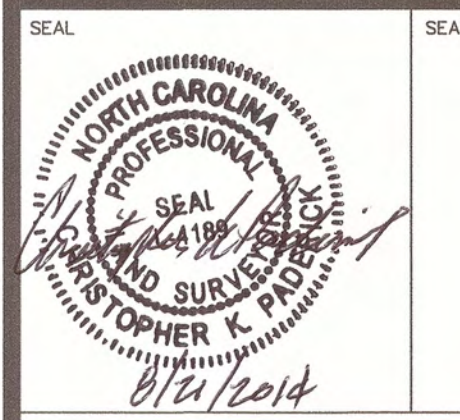
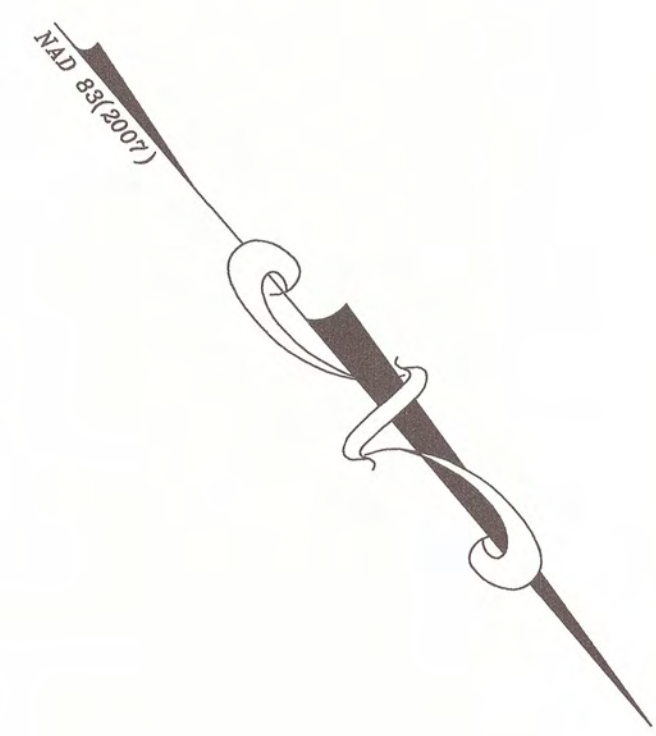
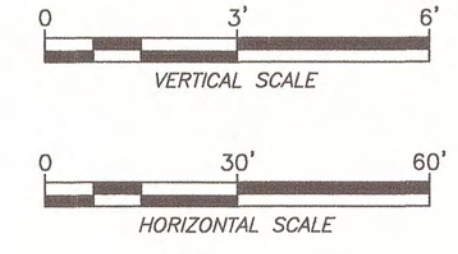
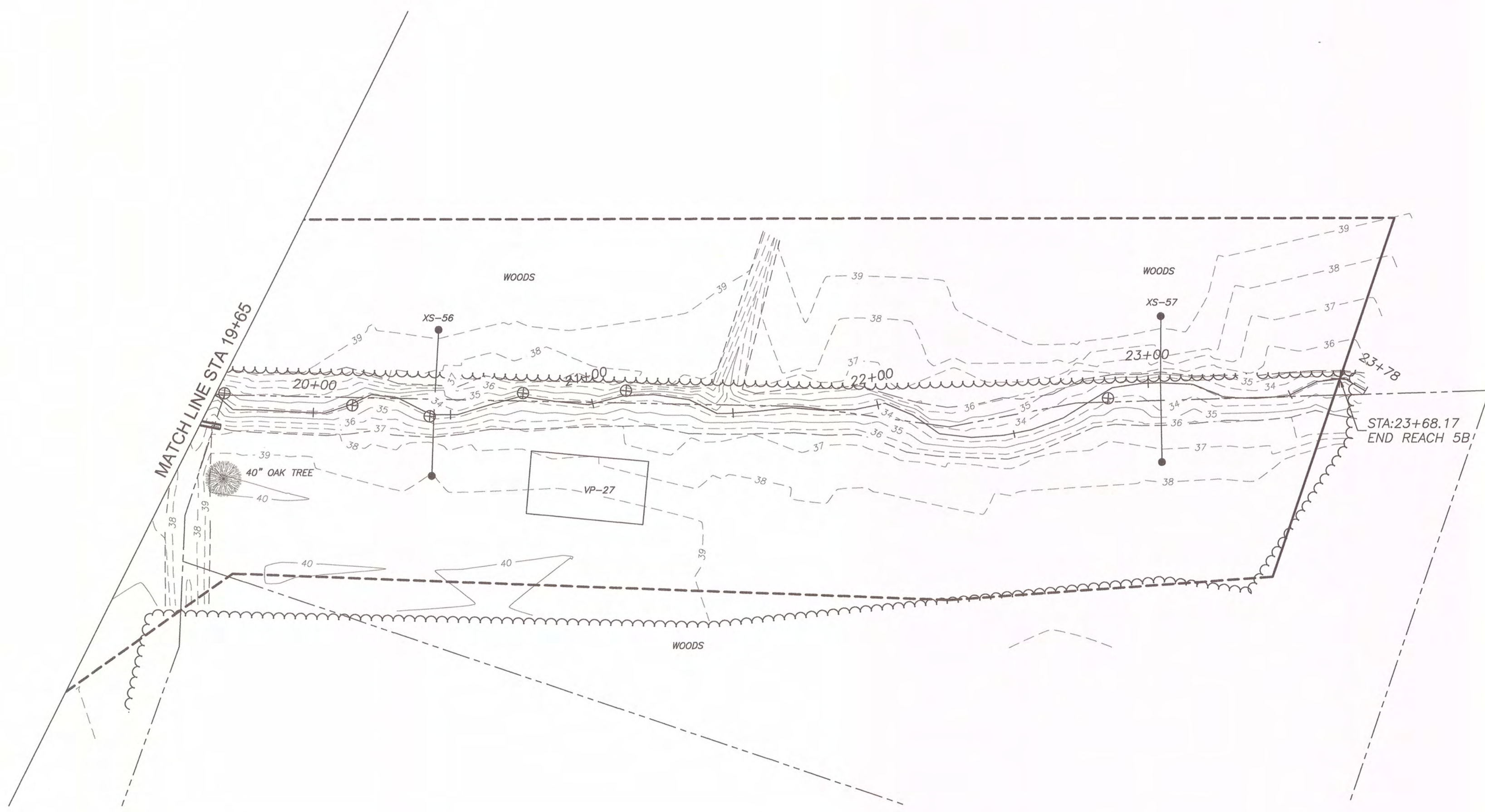
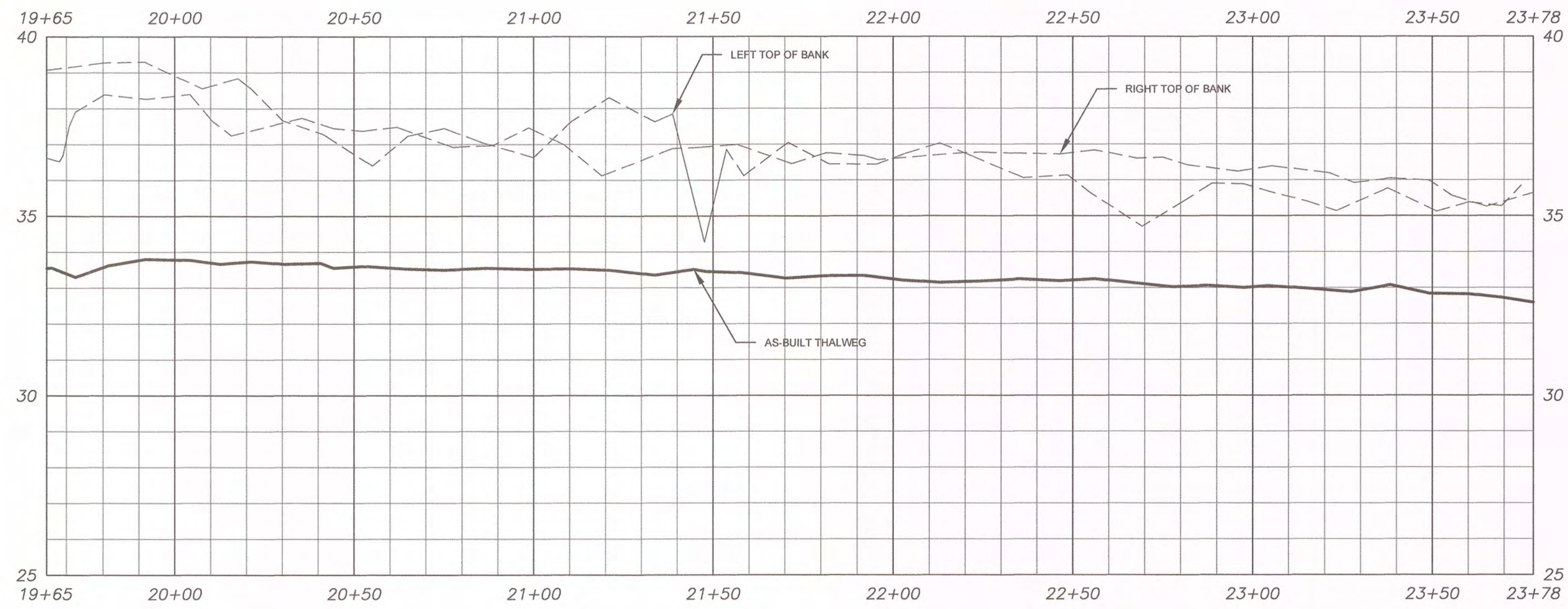


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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 22 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-22



**STREAM BASELINE AS-BUILT
REACH 5 PLAN & PROFILE (19+65 - 23+78)**

**MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.**

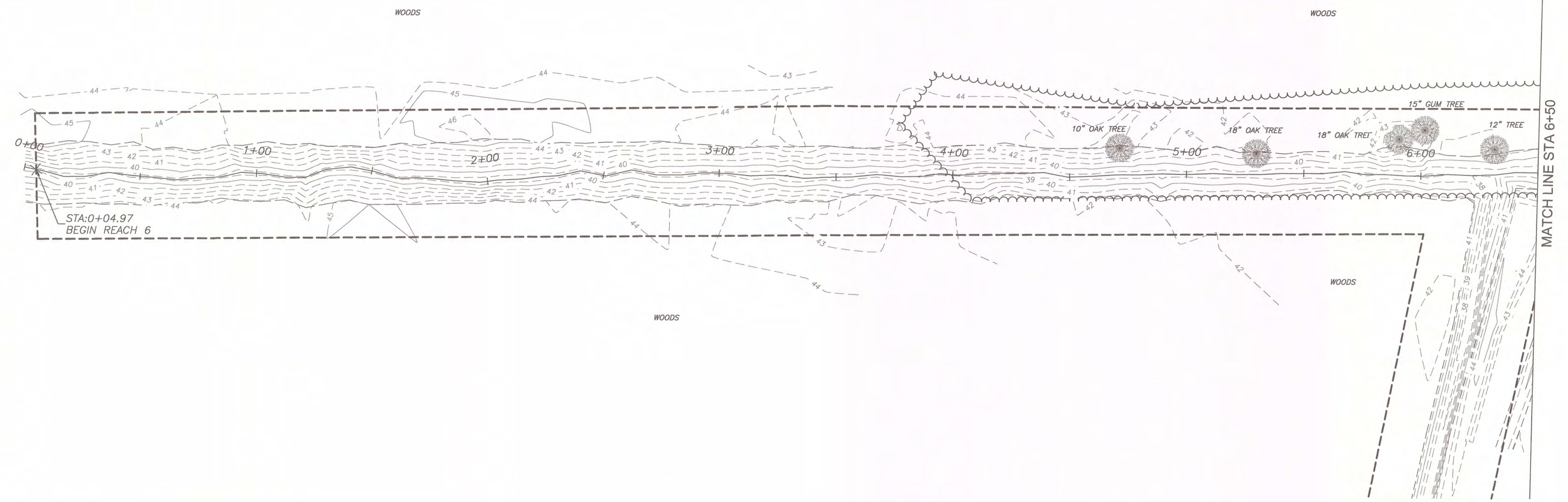
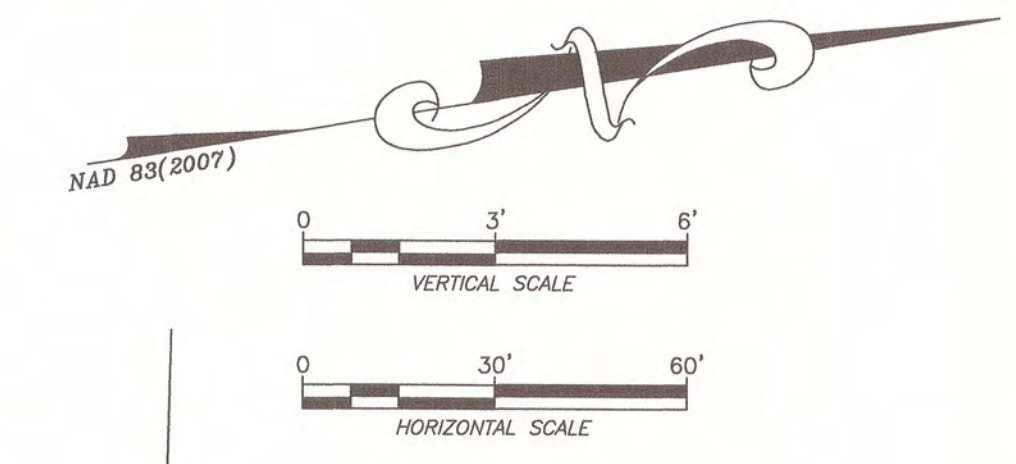
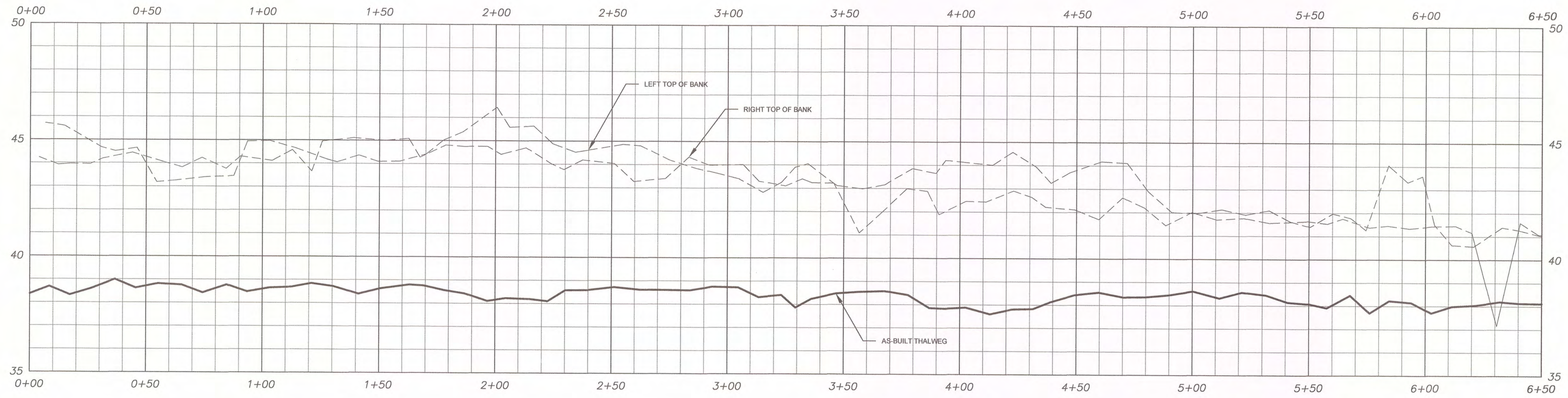
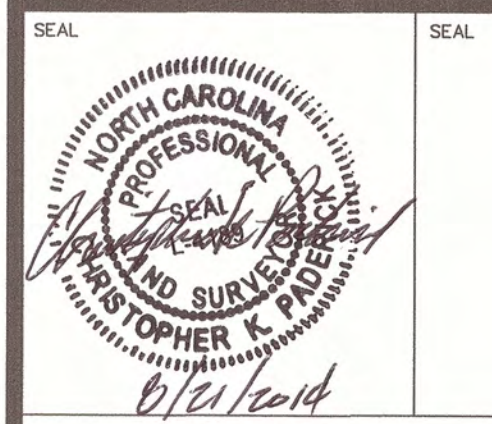


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**ENVIRONMENTAL BANC
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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 23 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-23



STREAM BASELINE AS-BUILT
REACH 6 PLAN & PROFILE (0+00 - 6+50)

MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.

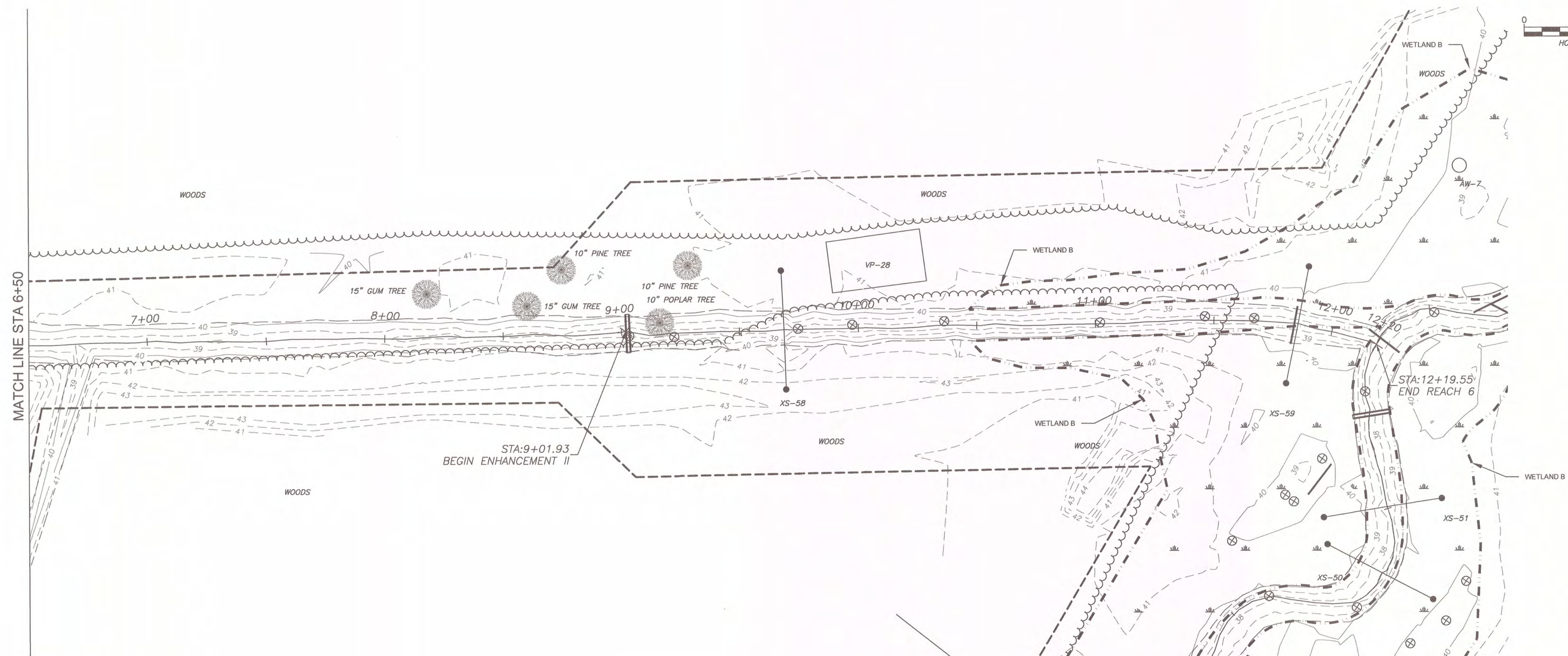
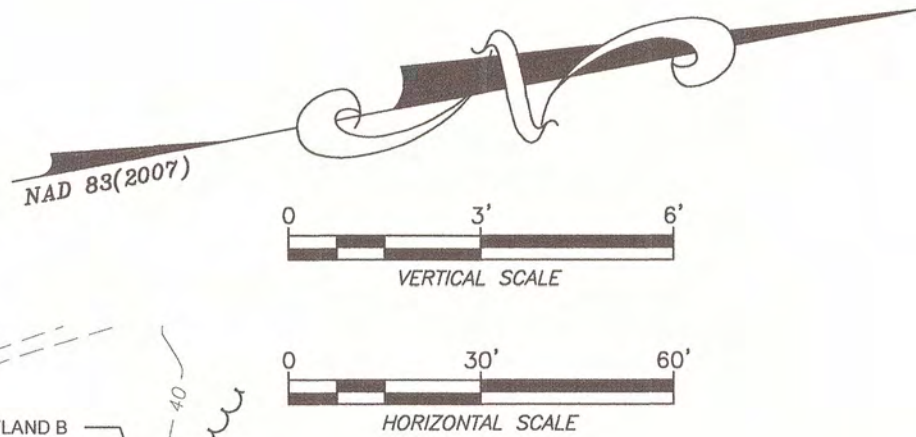
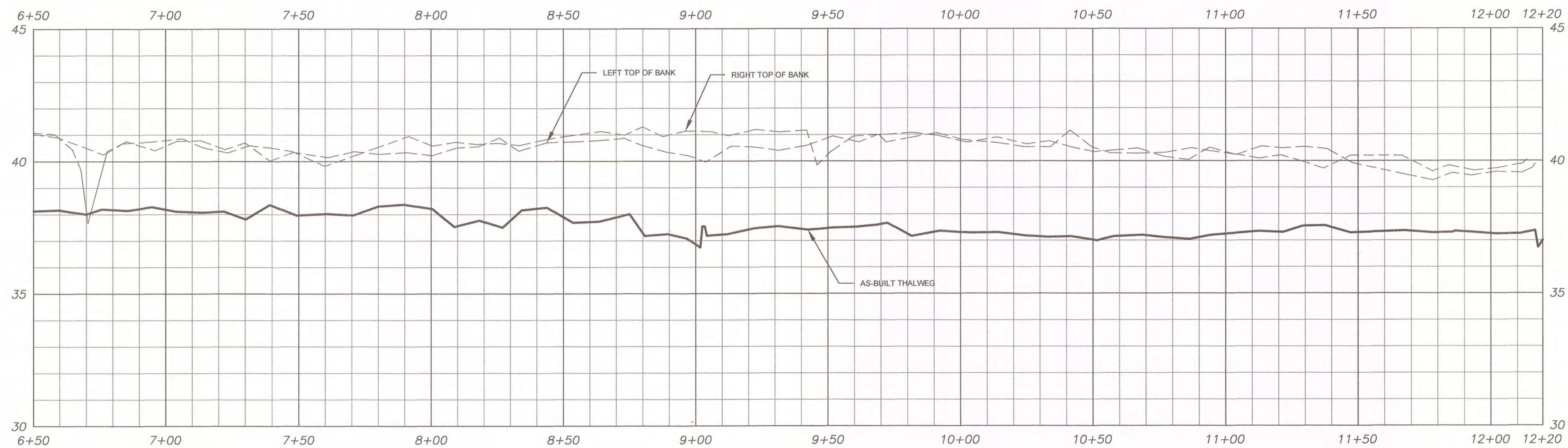
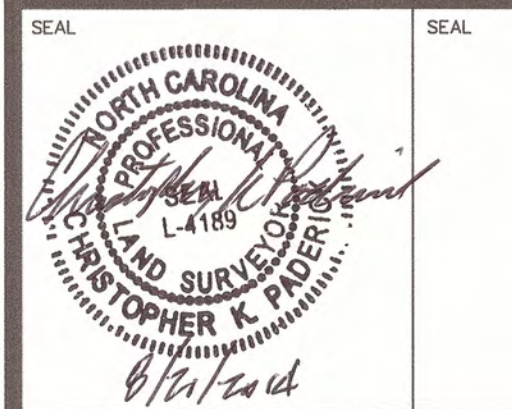


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SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 24 OF 33
DRAWING NAME 1" = 30'	DRAWING NO. S-24
PROJECT NO. 20110047	



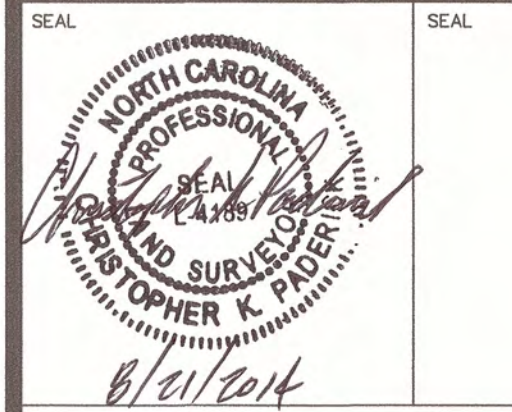
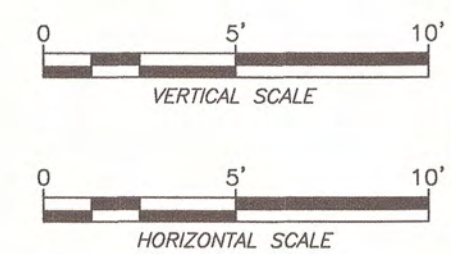
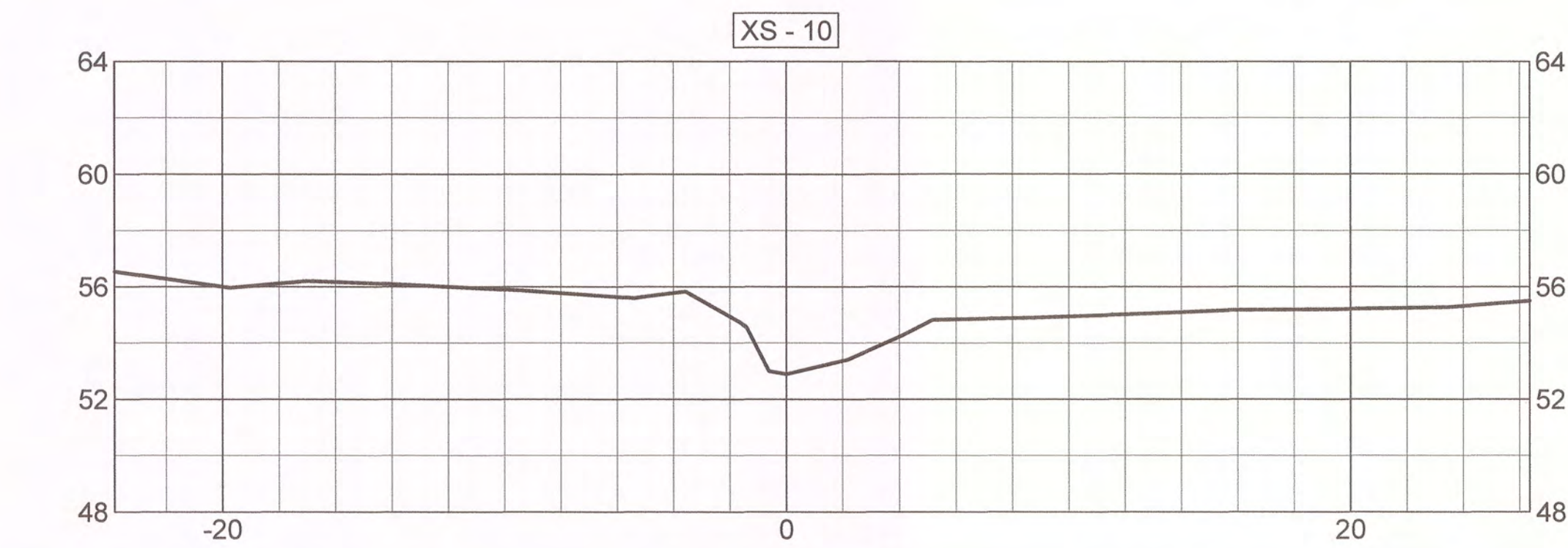
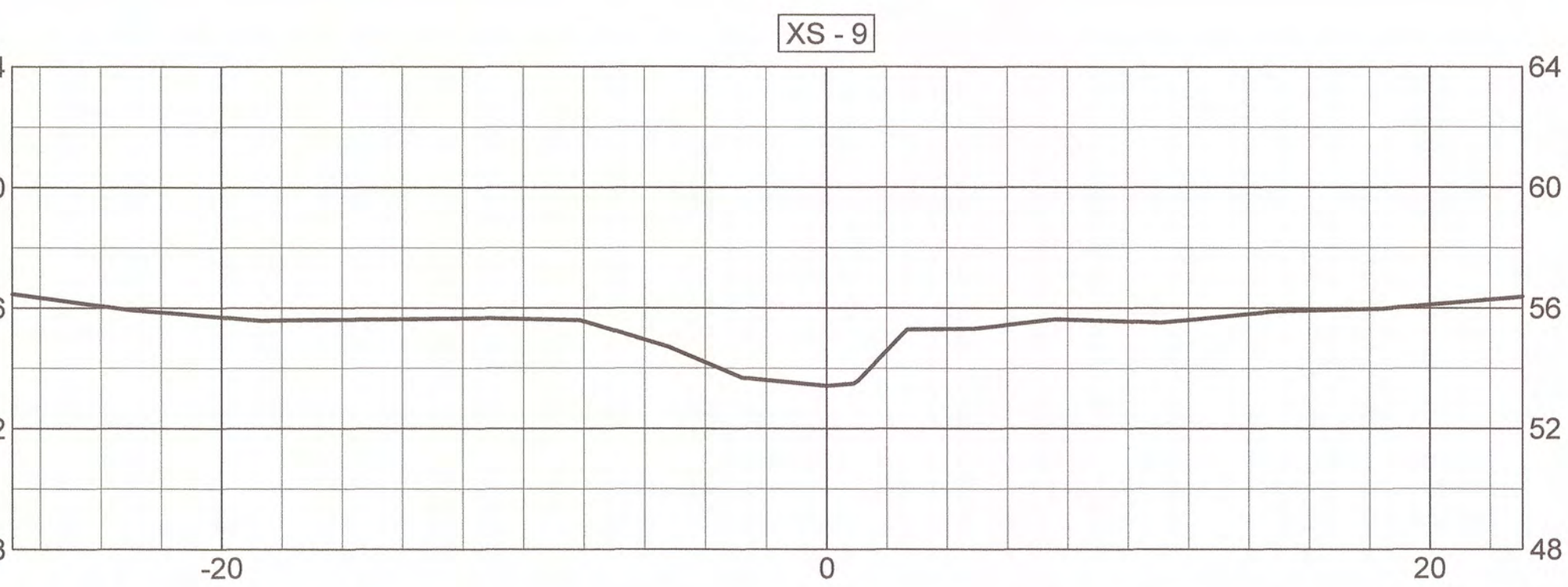
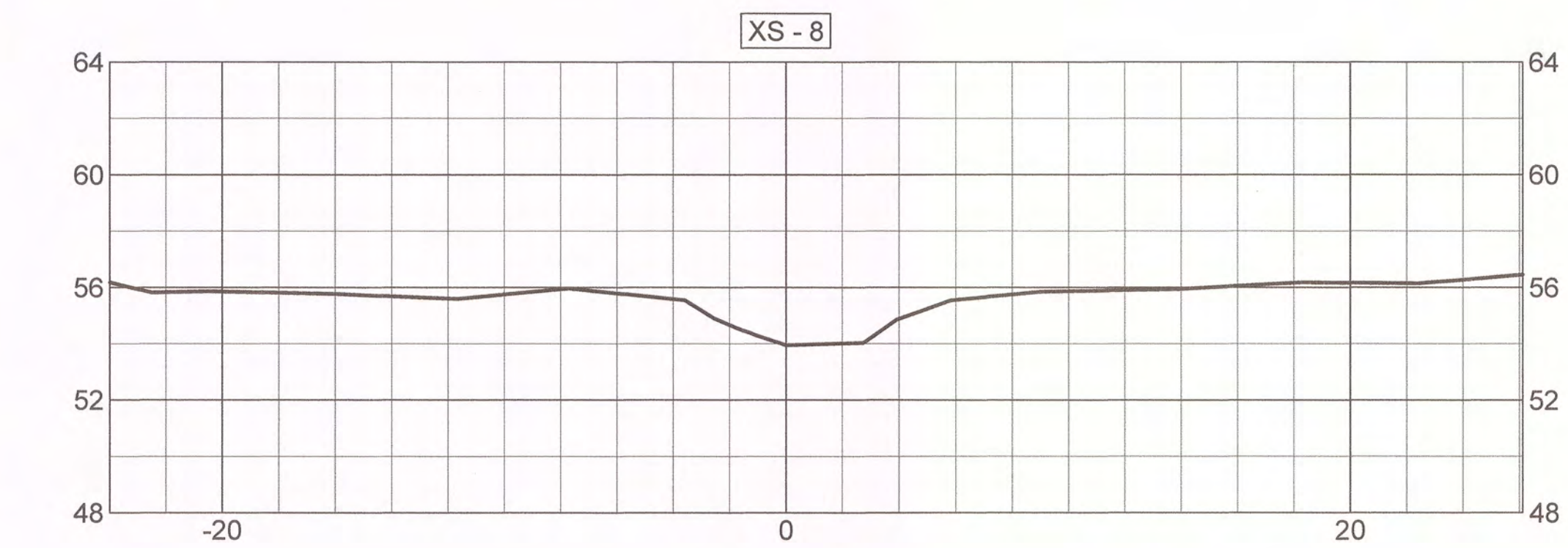
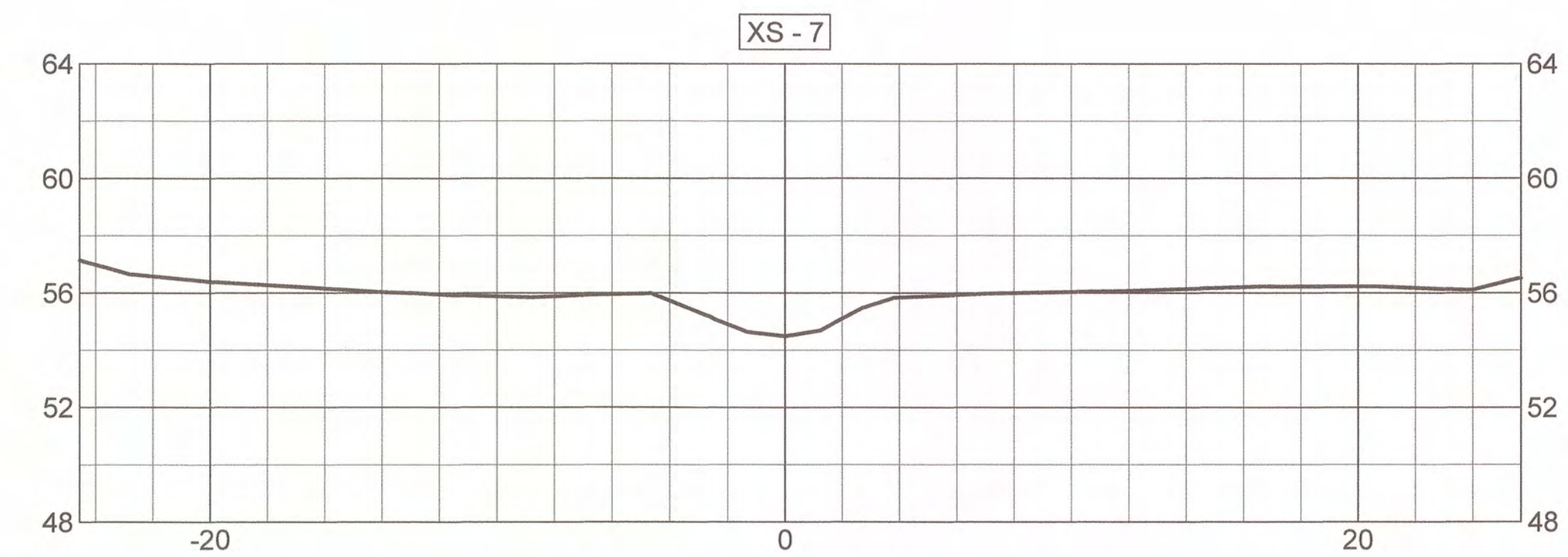
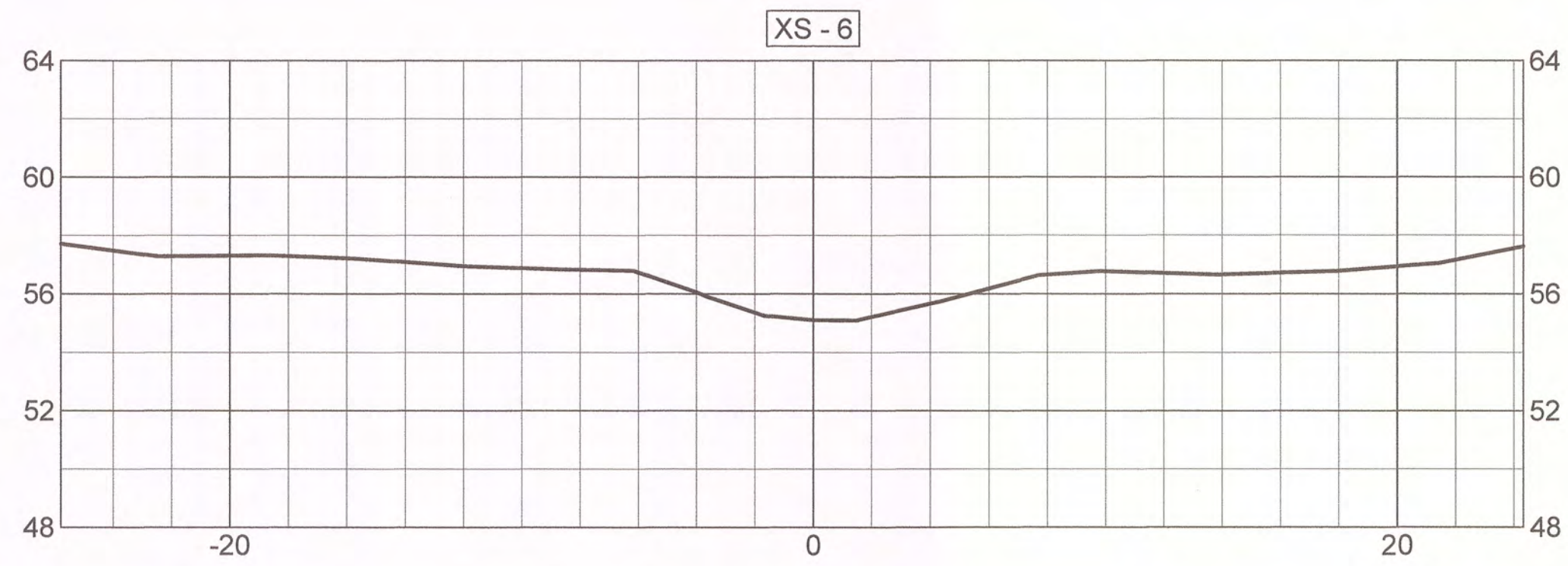
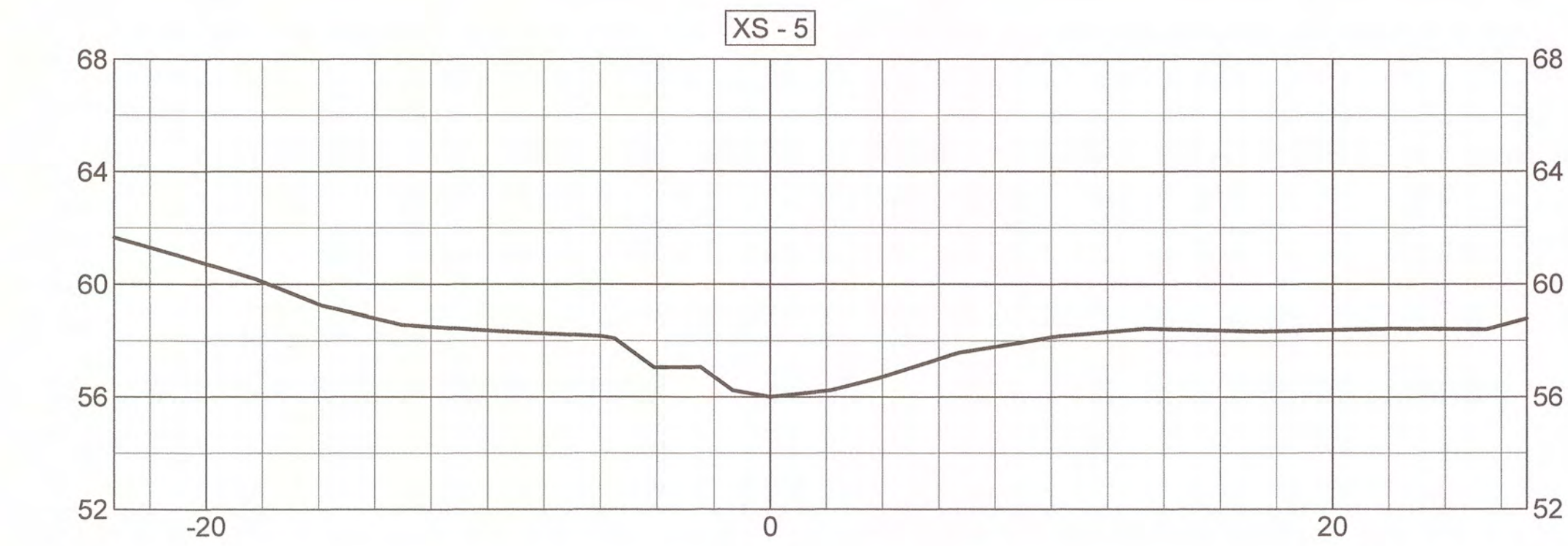
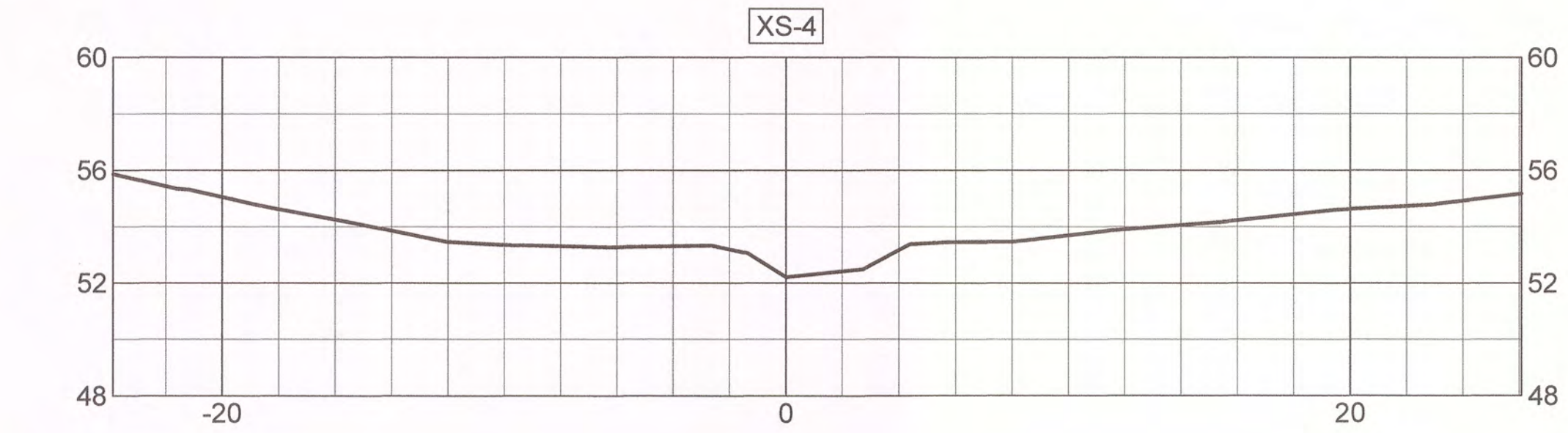
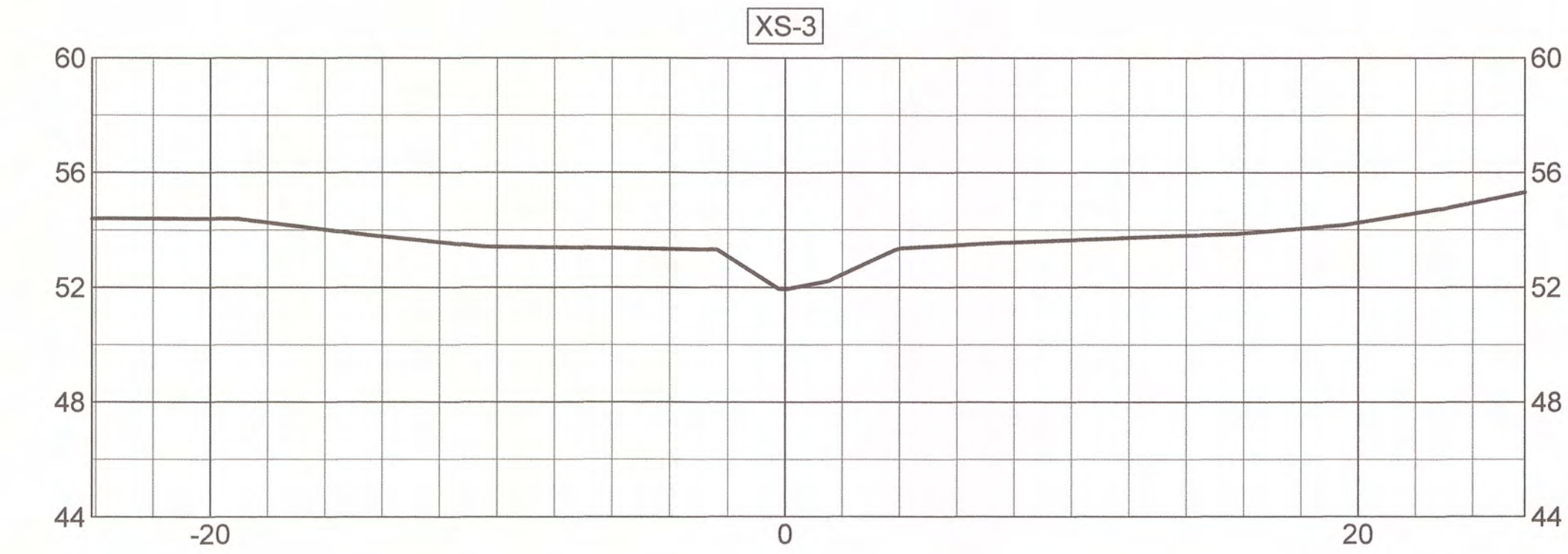
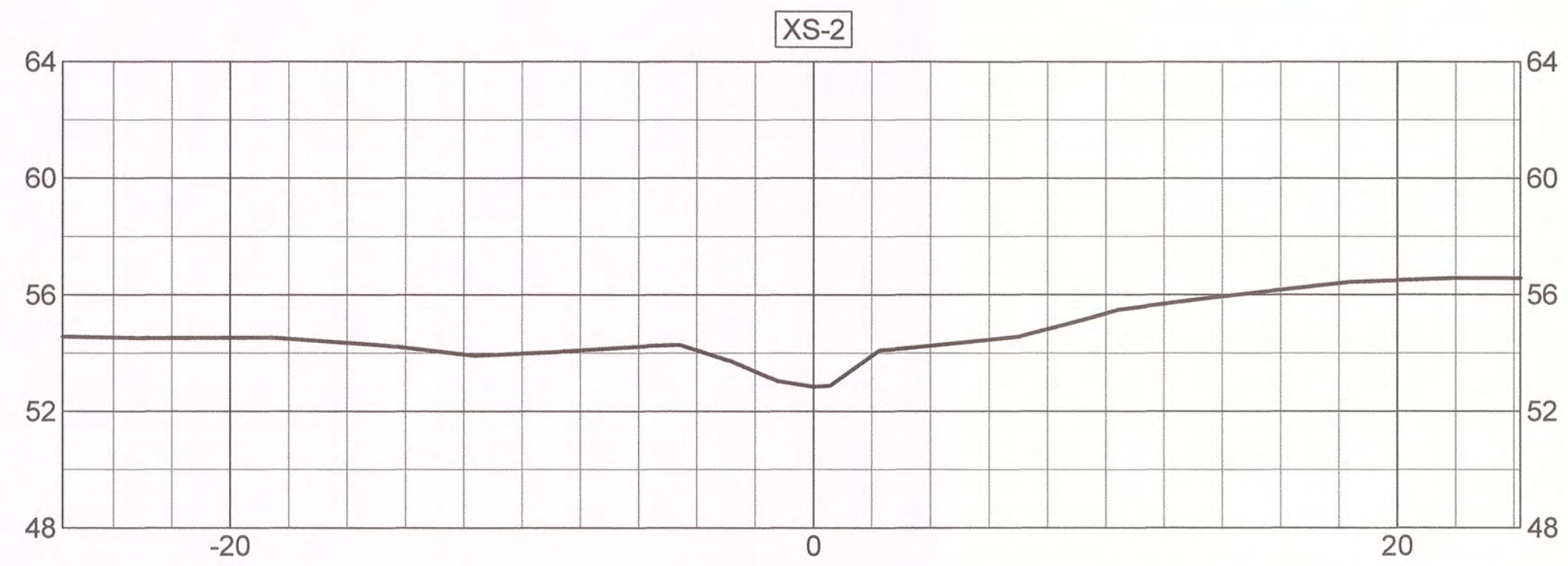
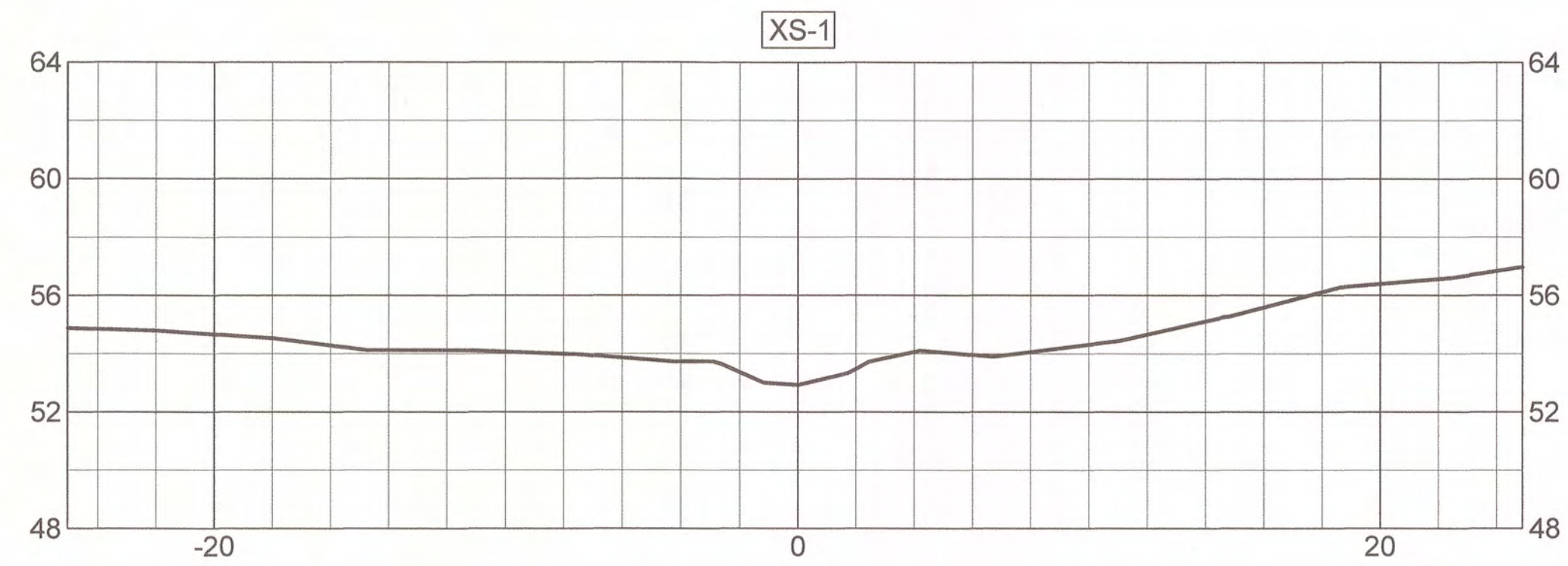
STREAM BASELINE AS-BUILT
REACH 6 PLAN & PROFILE (6+50 - 12+20)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.



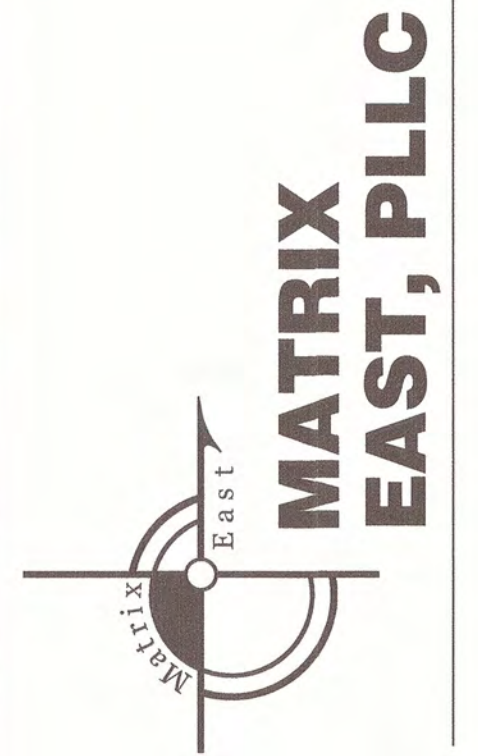
906 N. QUEEN ST., SUITE A
 KINSTON, NC 28501
 TEL: 252-522-2500 FAX: 252-522-4747
 FIRM LIC. # P-0221
 EMAIL: surveyor@matrixeast.net

ENVIRONMENTAL BANC
& EXCHANGE, LLC
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE 20110047-MR2-ASB.dwg	DEPARTMENT
DRAWN BY JRW	DATE STARTED 7-23-14
APPROVED CKP	SHEET No. 25 OF 33
DRAWING NAME 1" = 30'	DRAWING NO.
PROJECT NO. 20110047	S-25



STREAM CROSS-SECTIONS (XS-1 - XS-10)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.

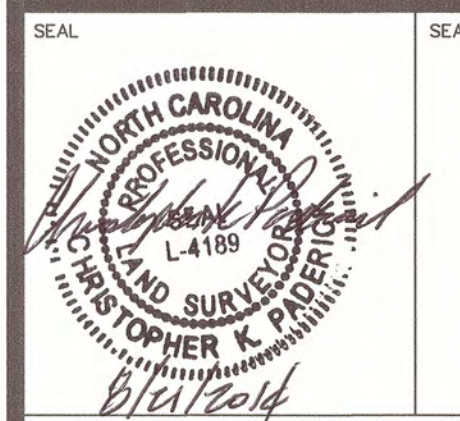
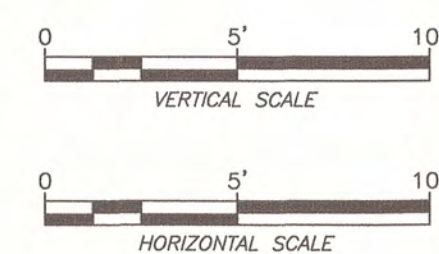
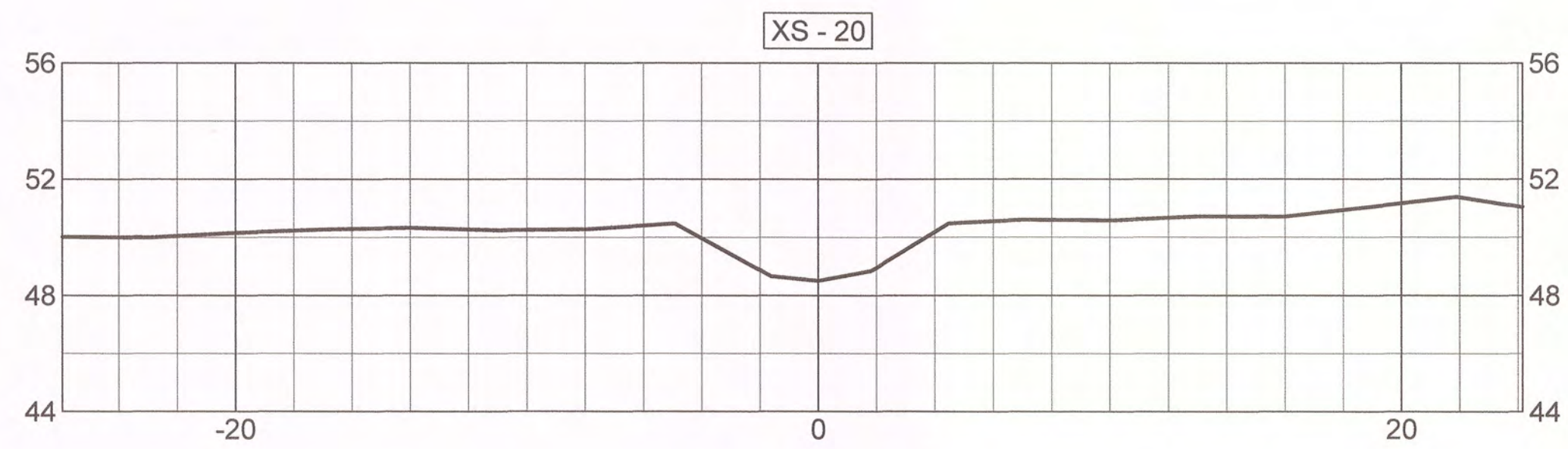
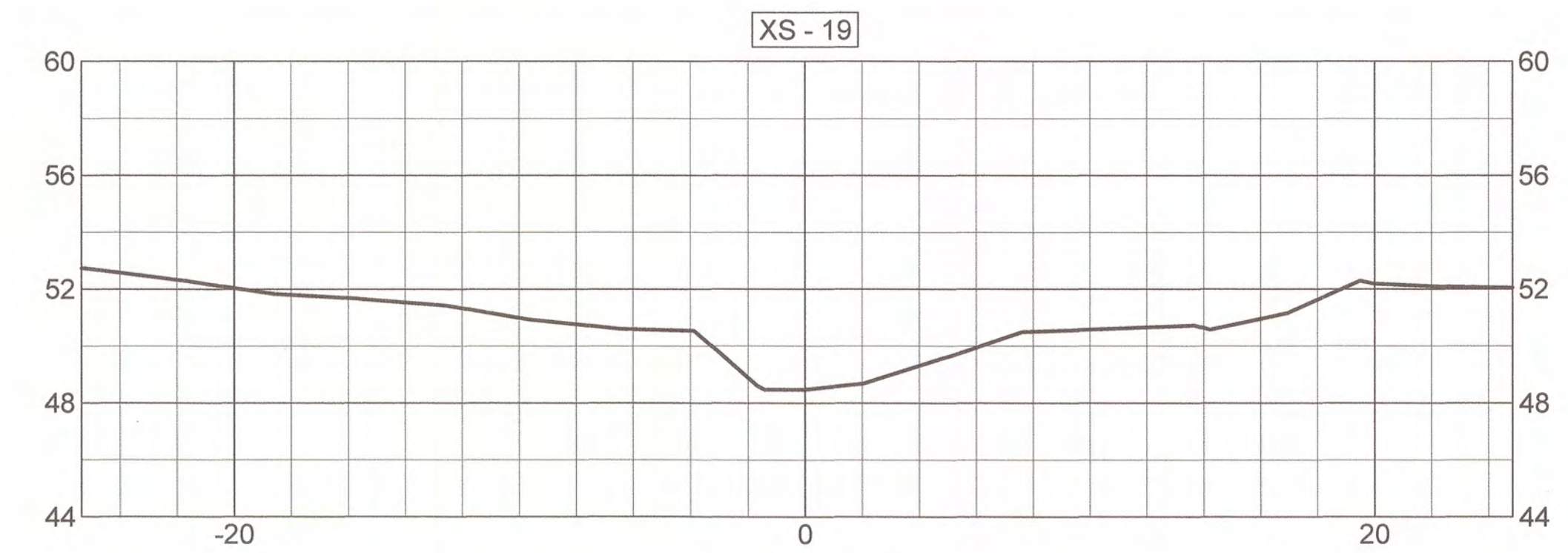
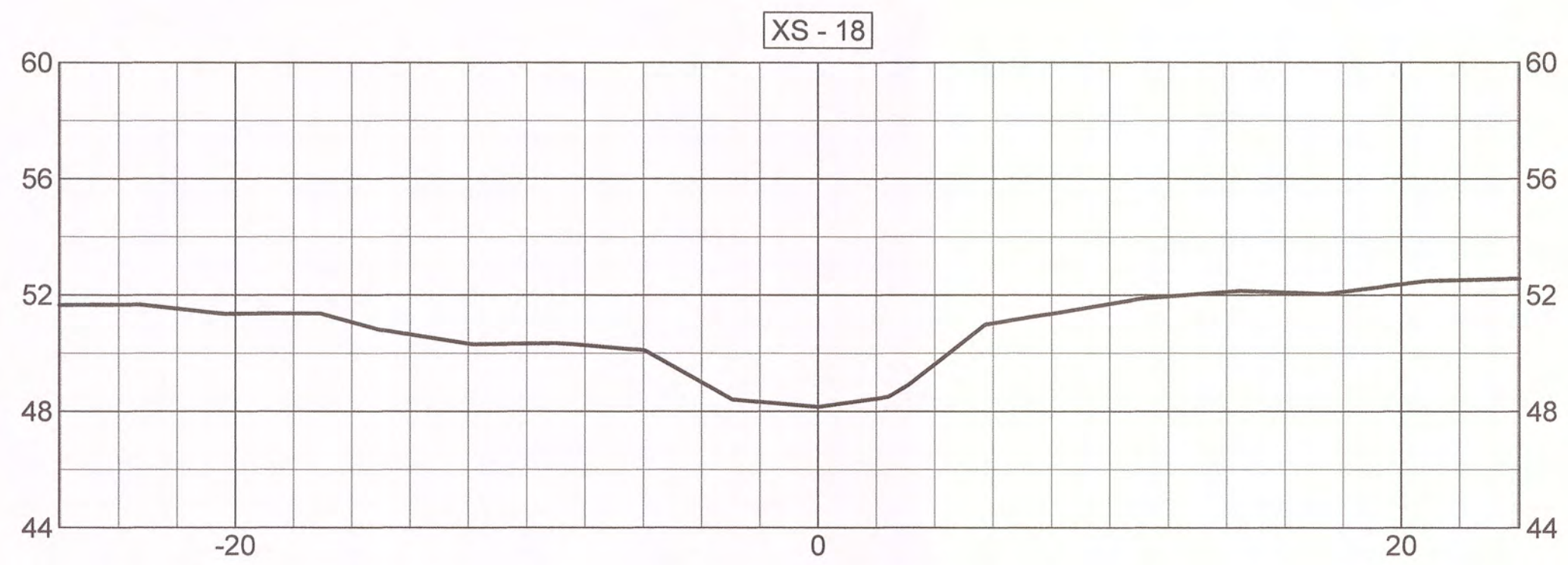
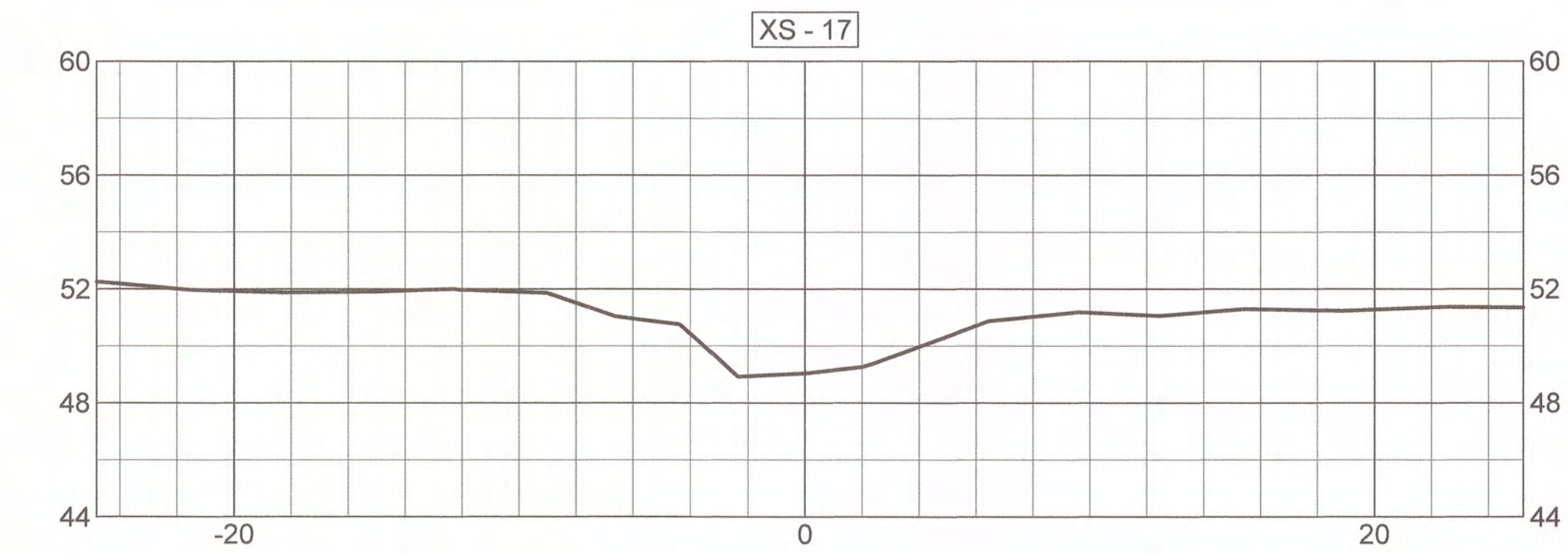
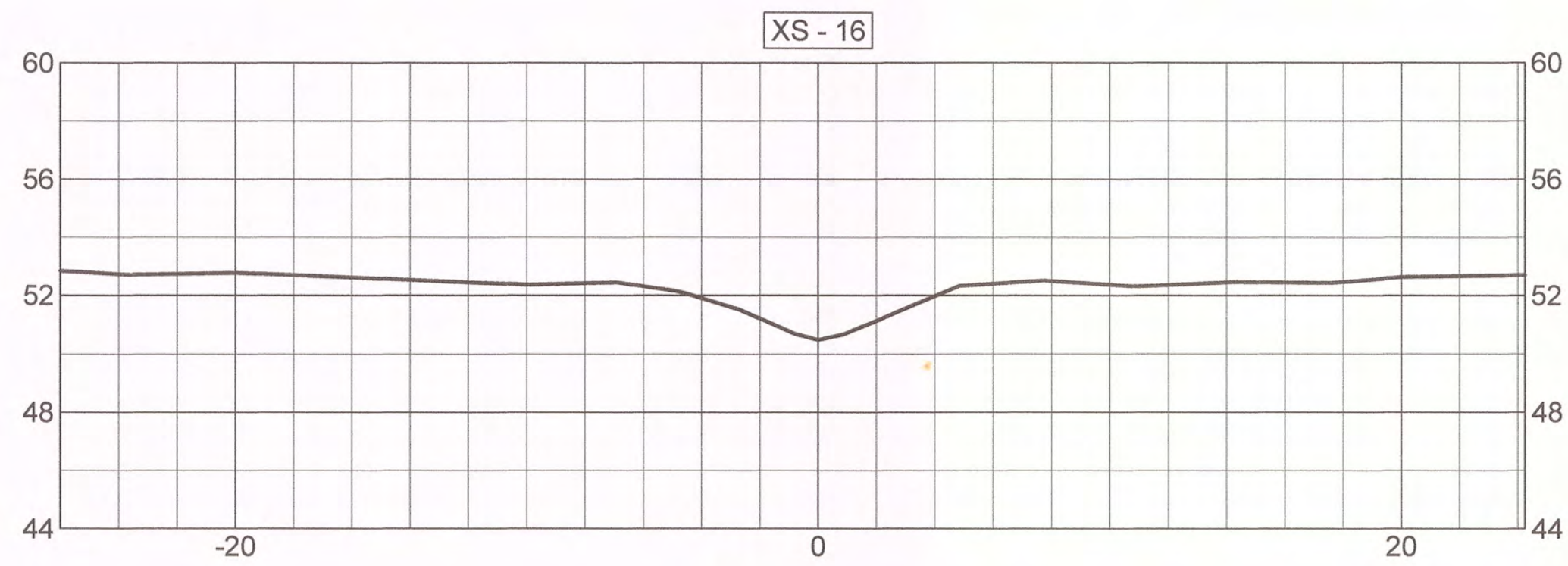
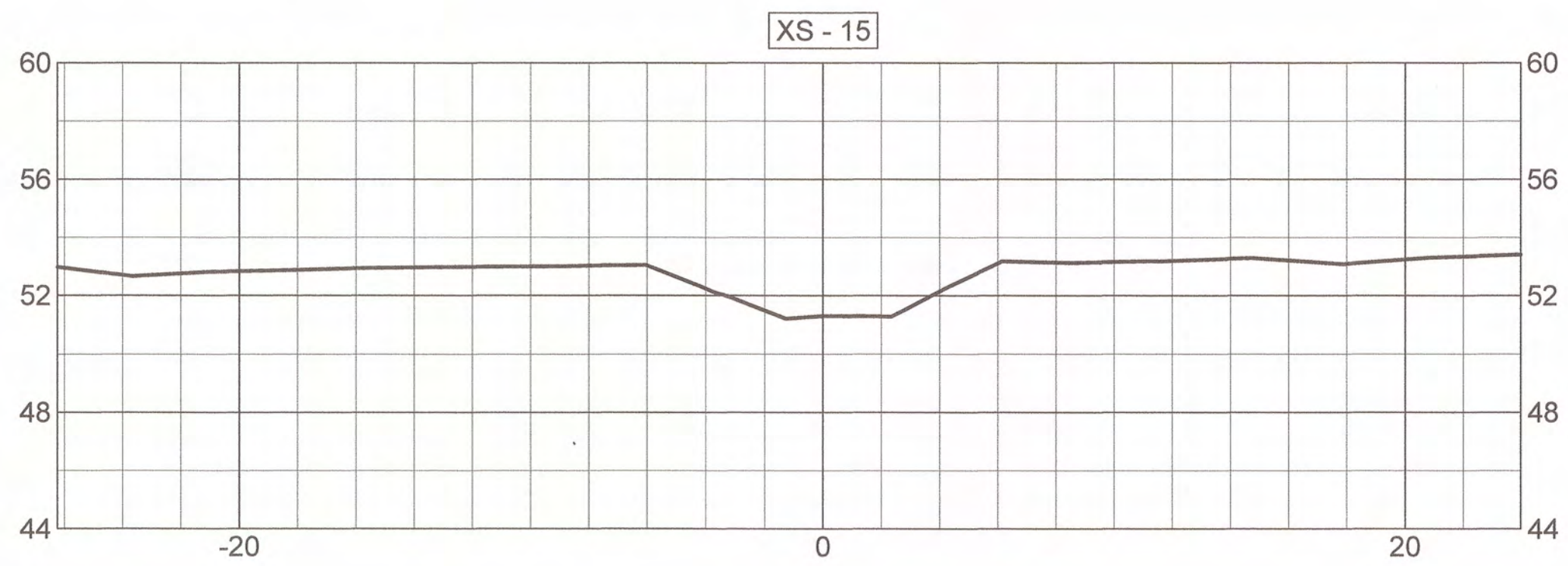
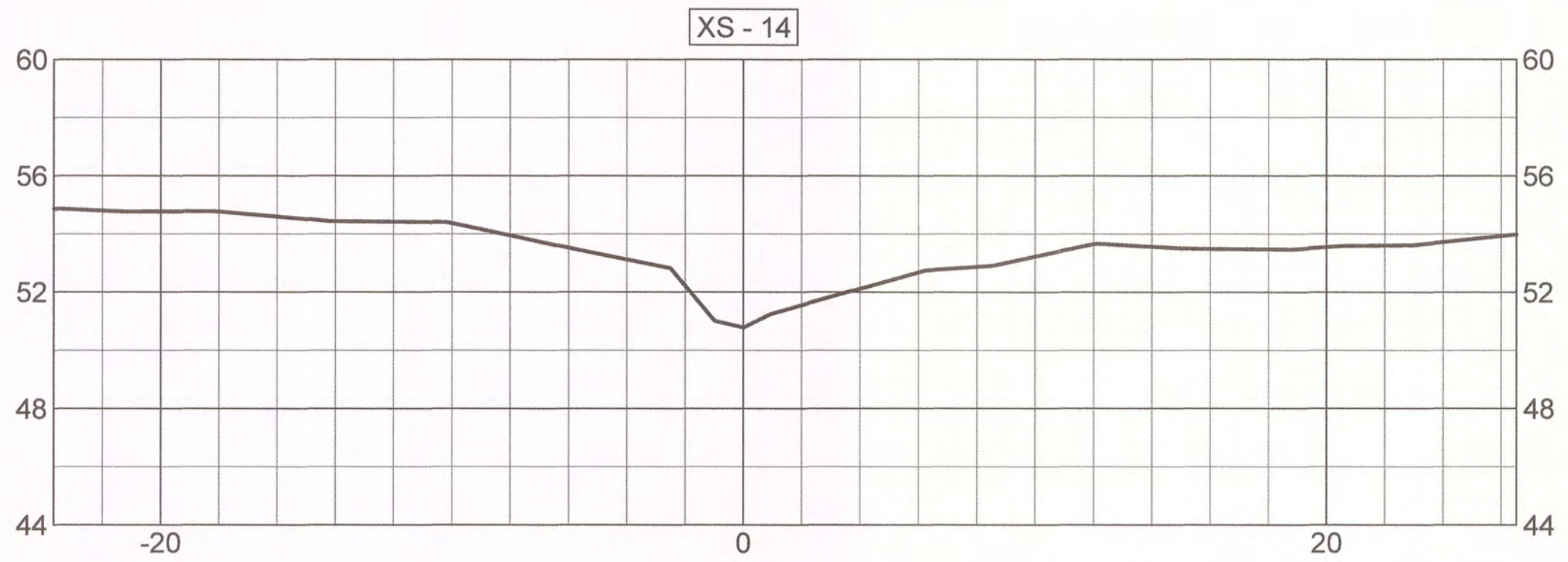
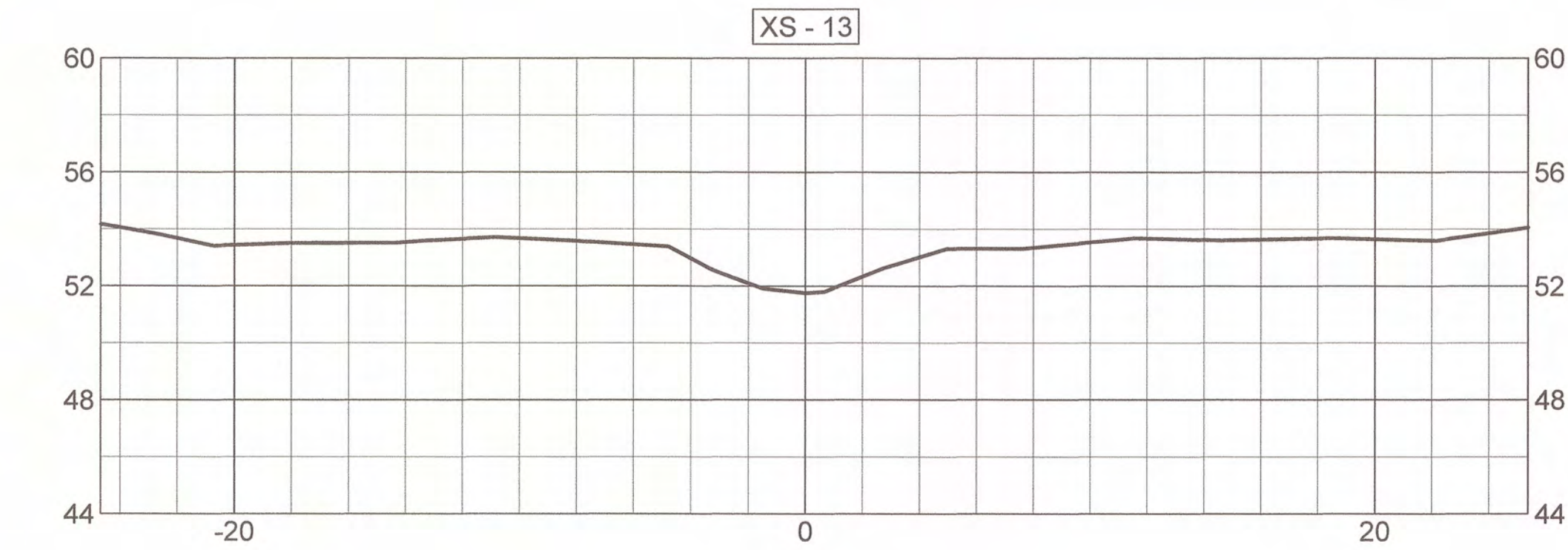
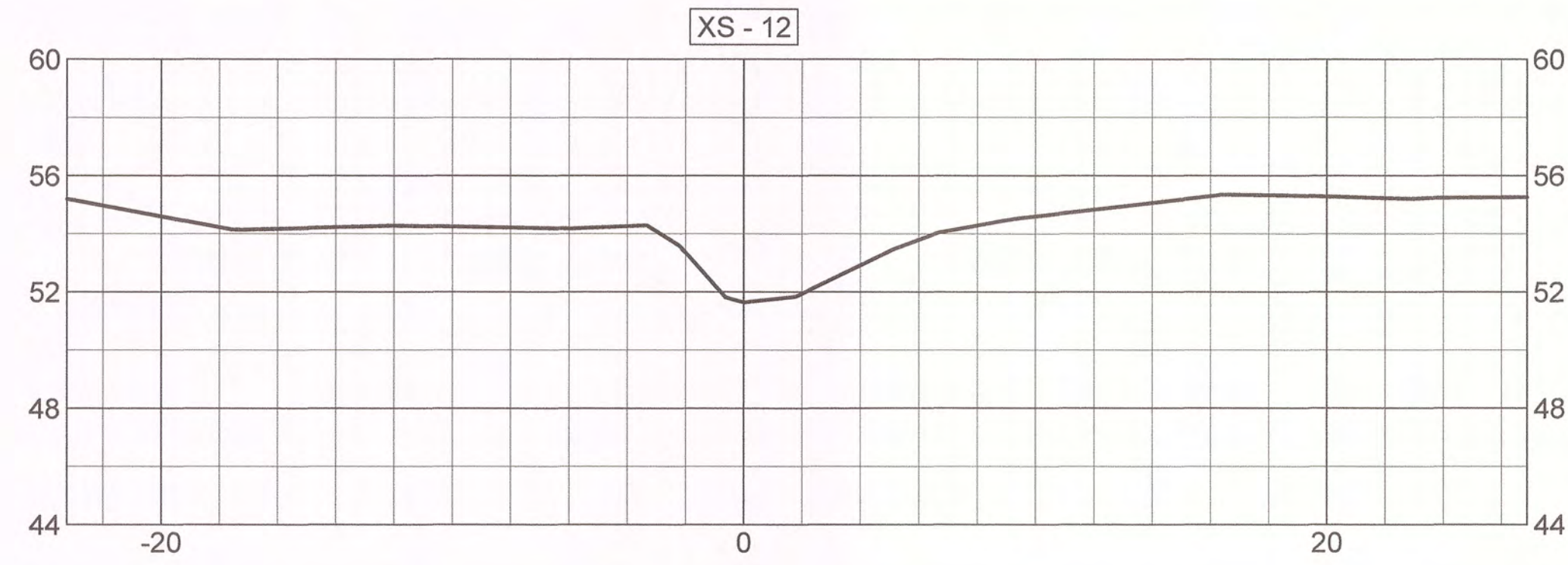
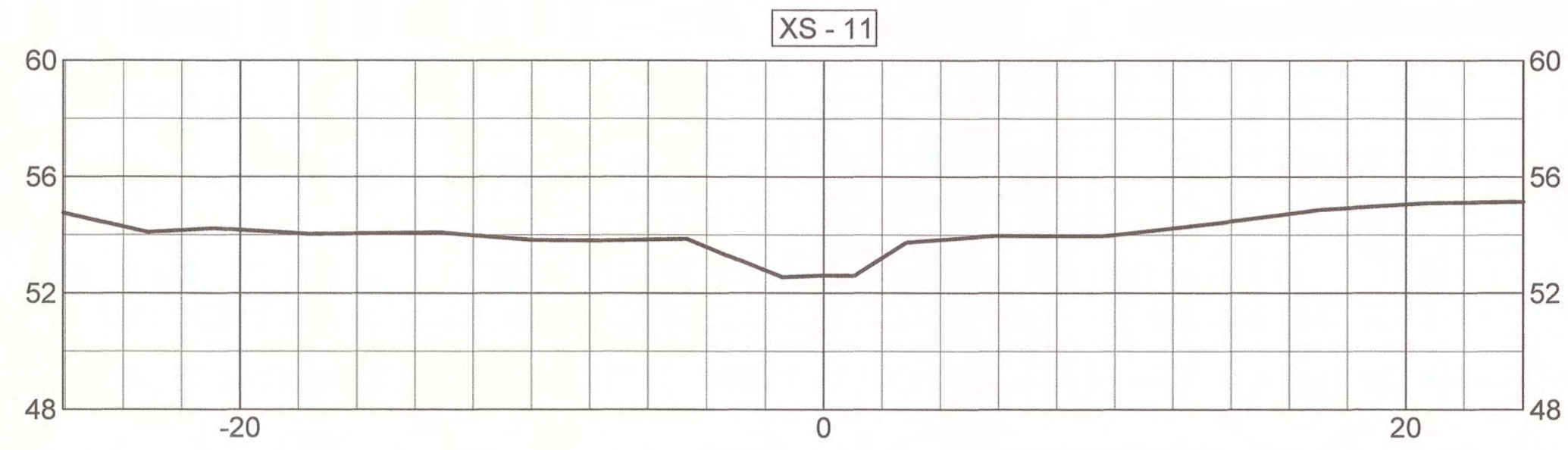


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ENVIRONMENTAL BANC
& EXCHANGE, LLC
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE	1" = 5'	DEPARTMENT	
DRAWN BY	JRW	DATE STARTED	7-23-14
APPROVED	CKP	SHEET No.	26 OF 33
DRAWING NAME	20110047-MR2-ASB.dwg	DRAWING NO.	
PROJECT NO.	20110047		

S-26



STREAM CROSS-SECTIONS (XS-11 - XS-20)

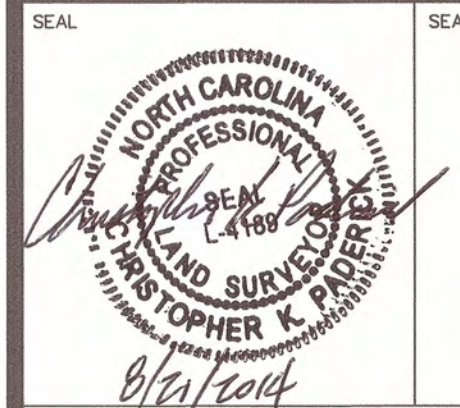
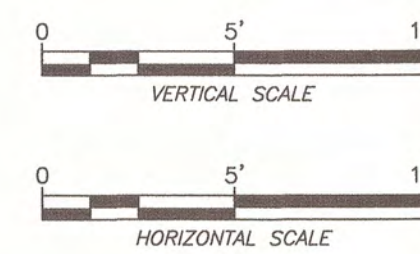
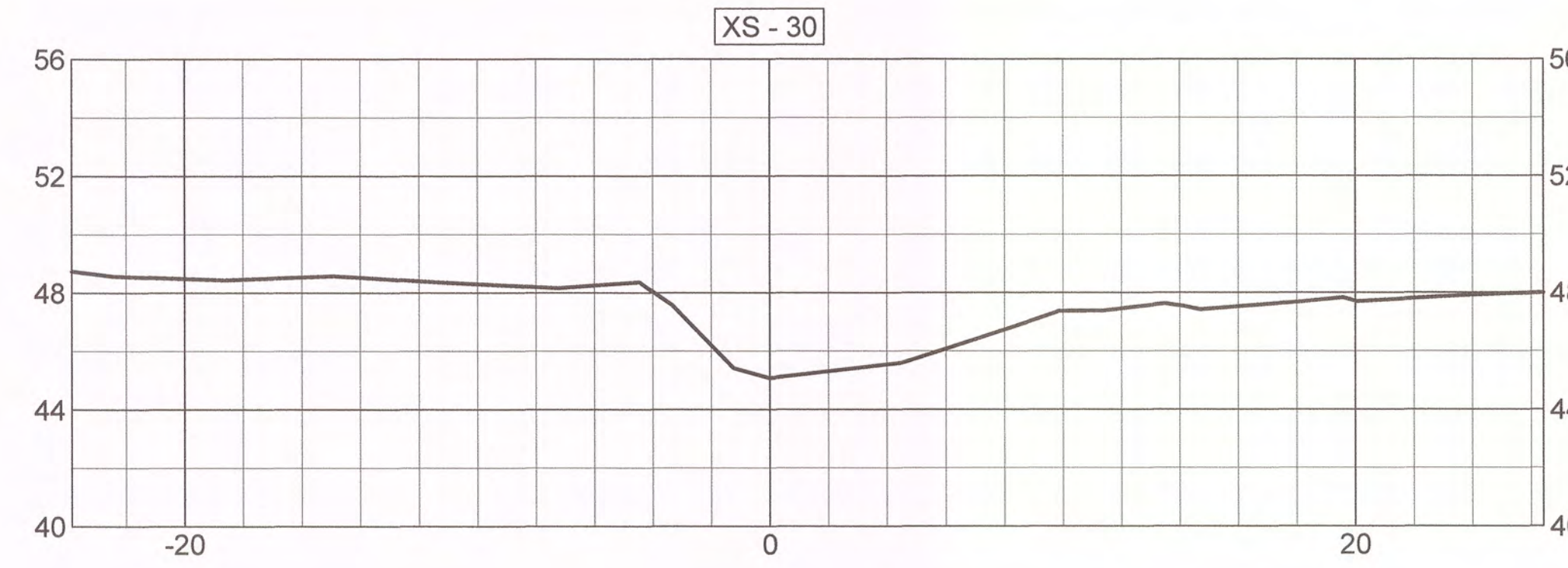
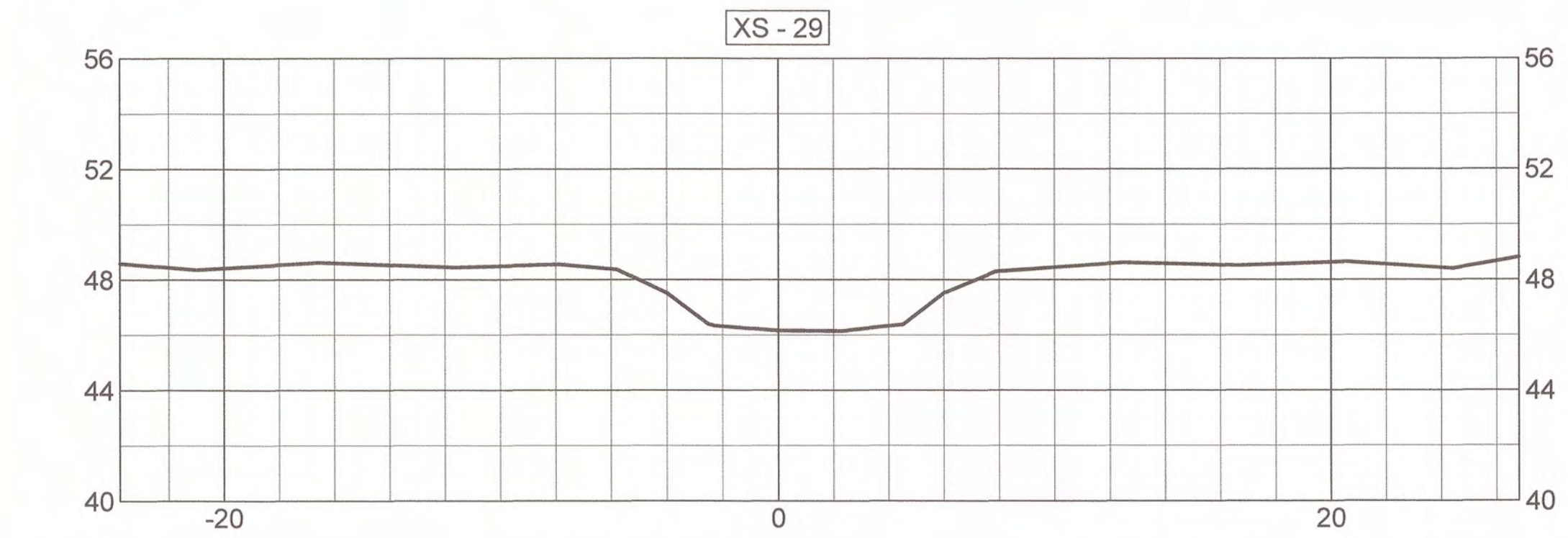
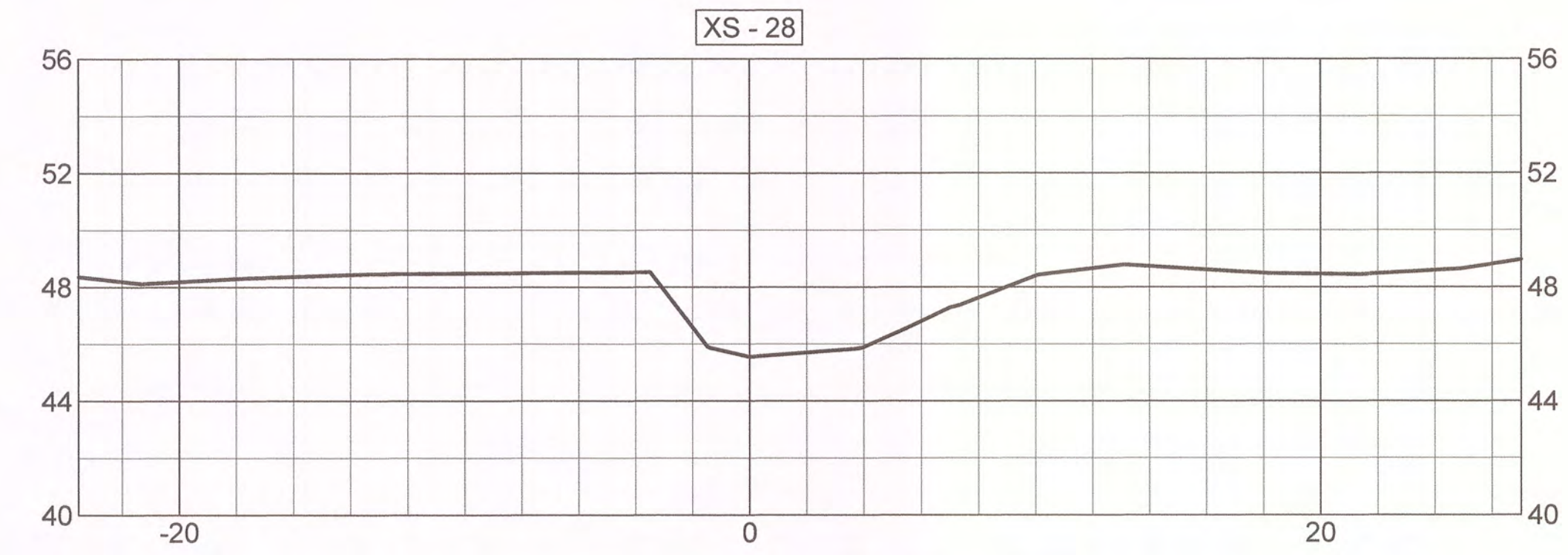
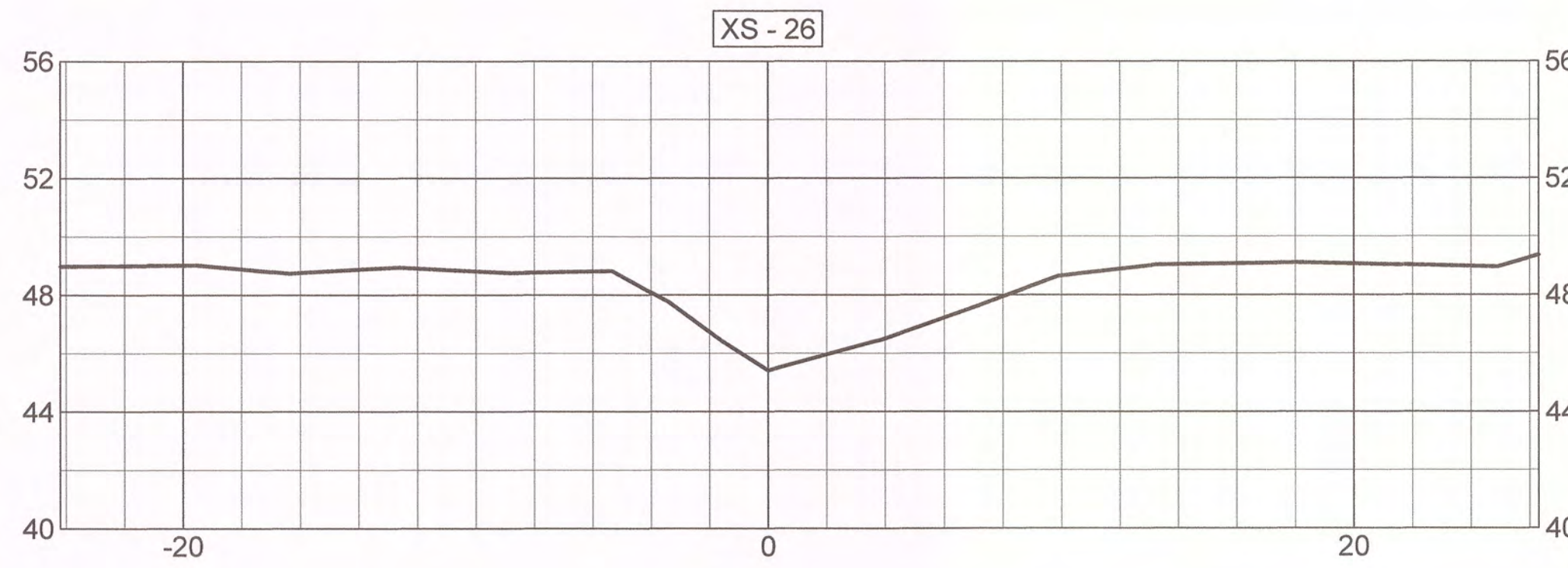
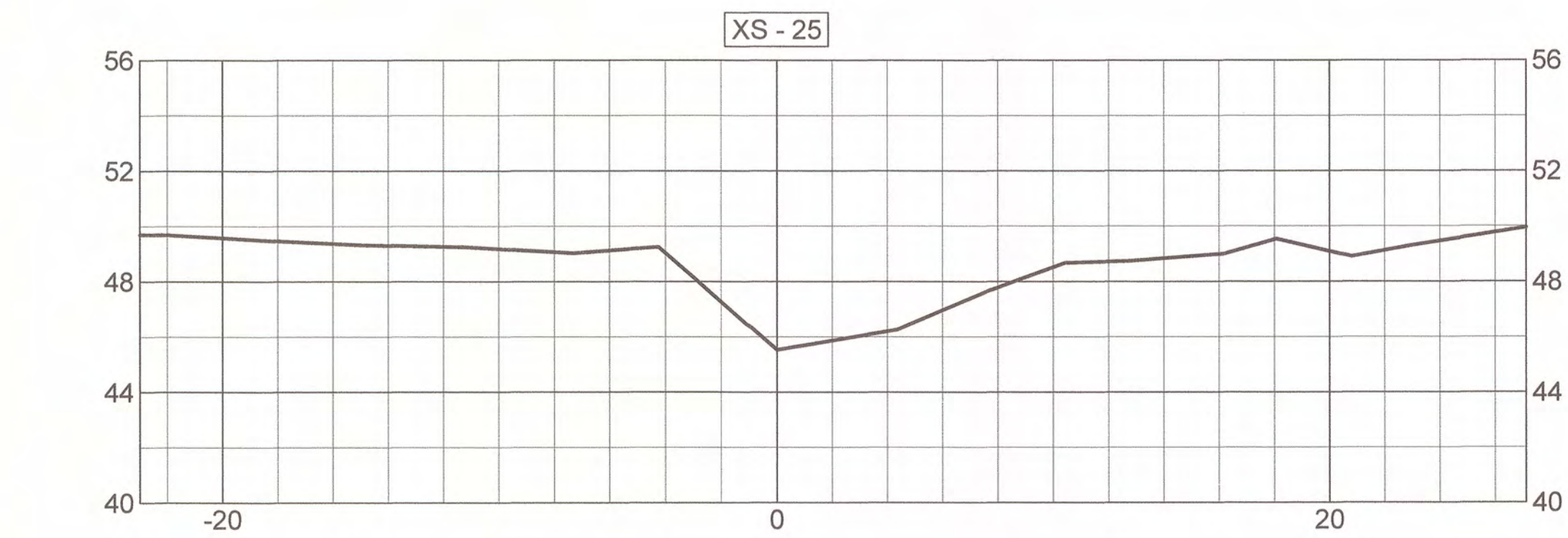
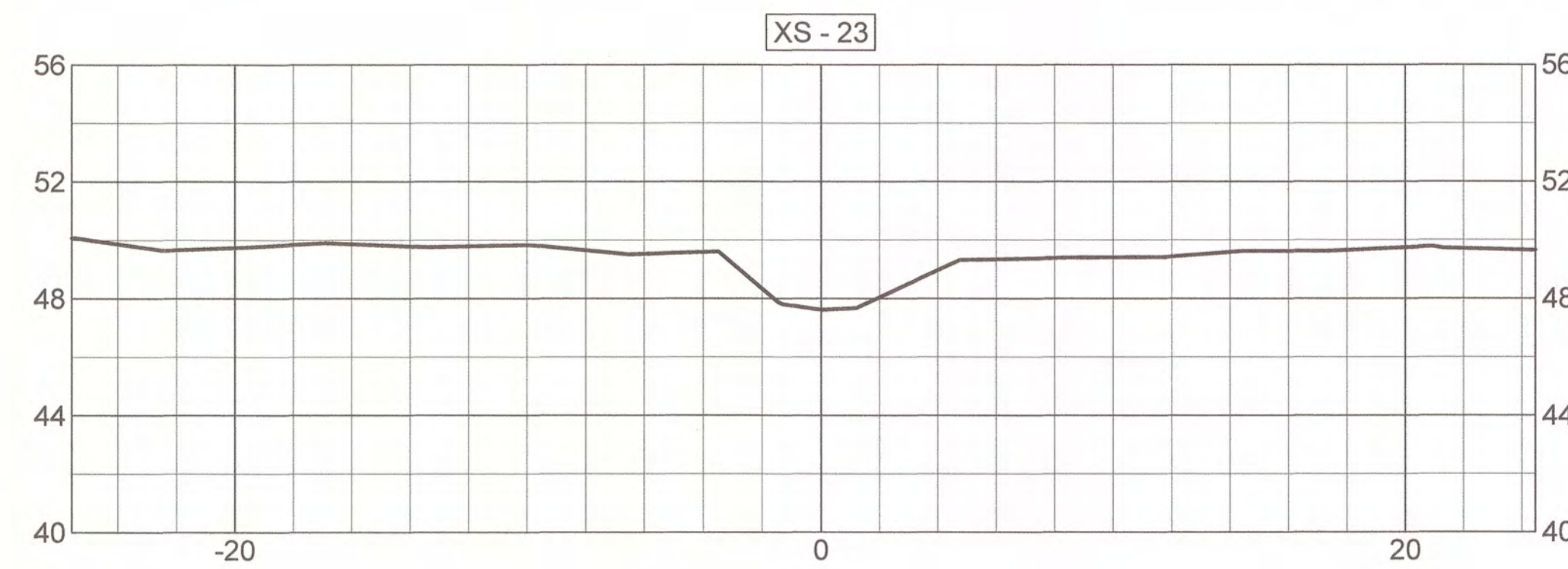
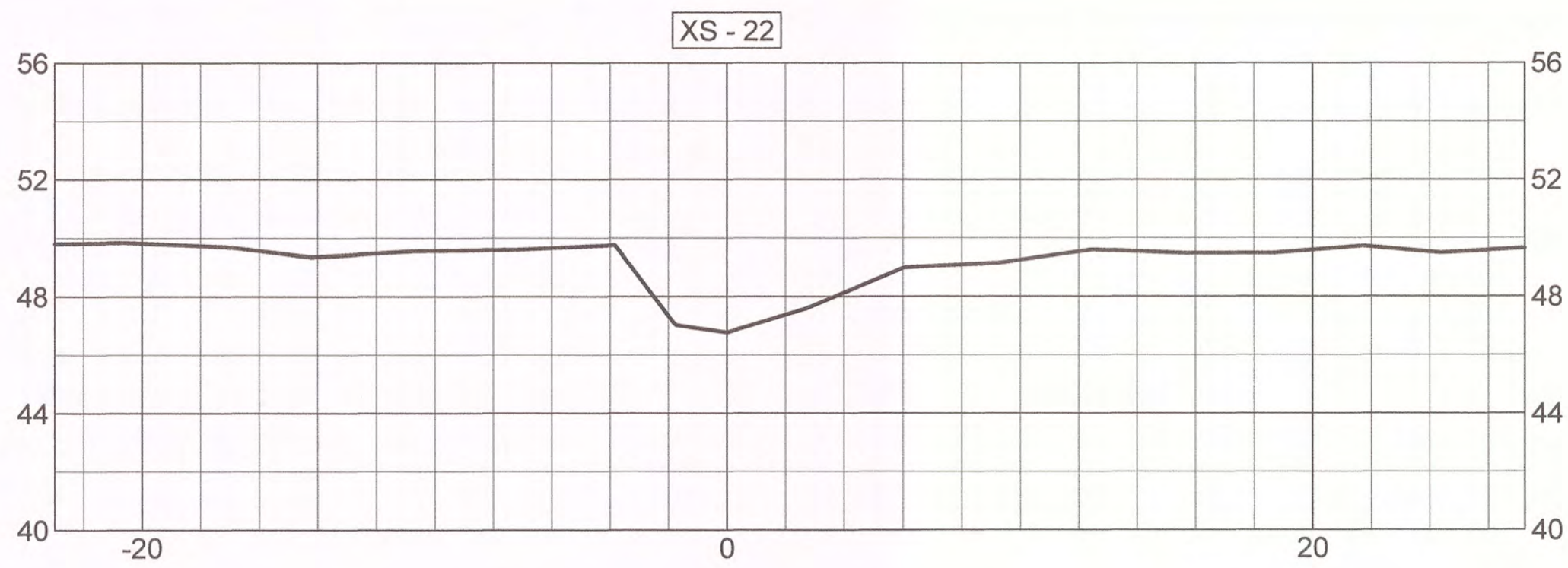
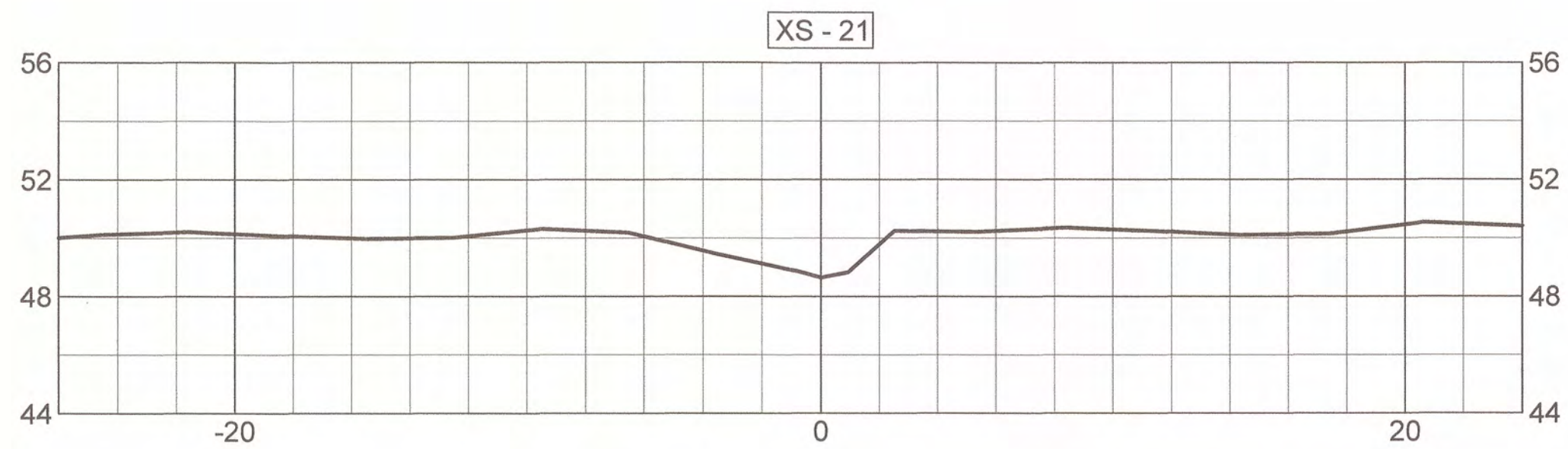
MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.

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ENVIRONMENTAL BANC & EXCHANGE, LLC
 909 CAPABILITY DRIVE
 SUITE 3100
 RALEIGH, N.C. 27606

SCALE	1" = 5'	DEPARTMENT	
DRAWN BY	JRW	DATE STARTED	7-23-14
APPROVED	CKP	SHEET No.	27 OF 33
DRAWING NAME	20110047-MR2-ASB.dwg	DRAWING NO.	
PROJECT NO.	20110047		

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STREAM CROSS-SECTIONS (XS-21 - XS-30)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.

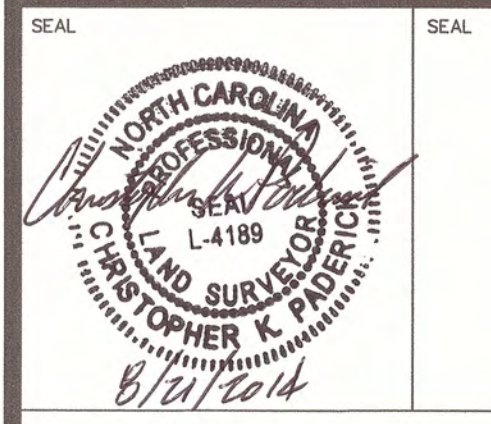
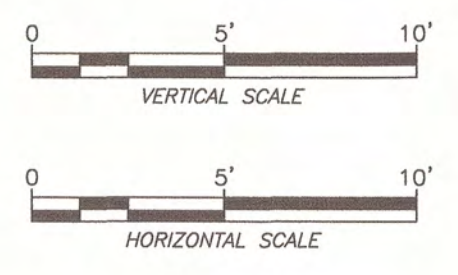
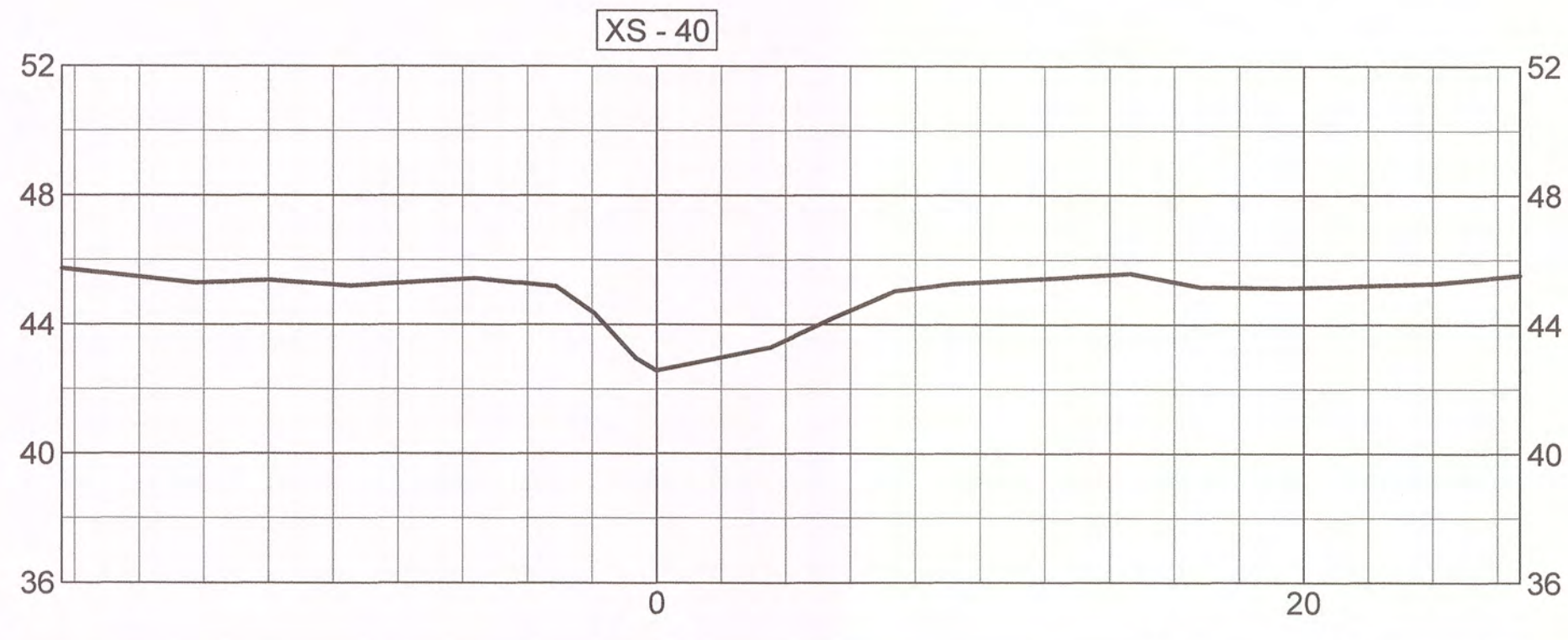
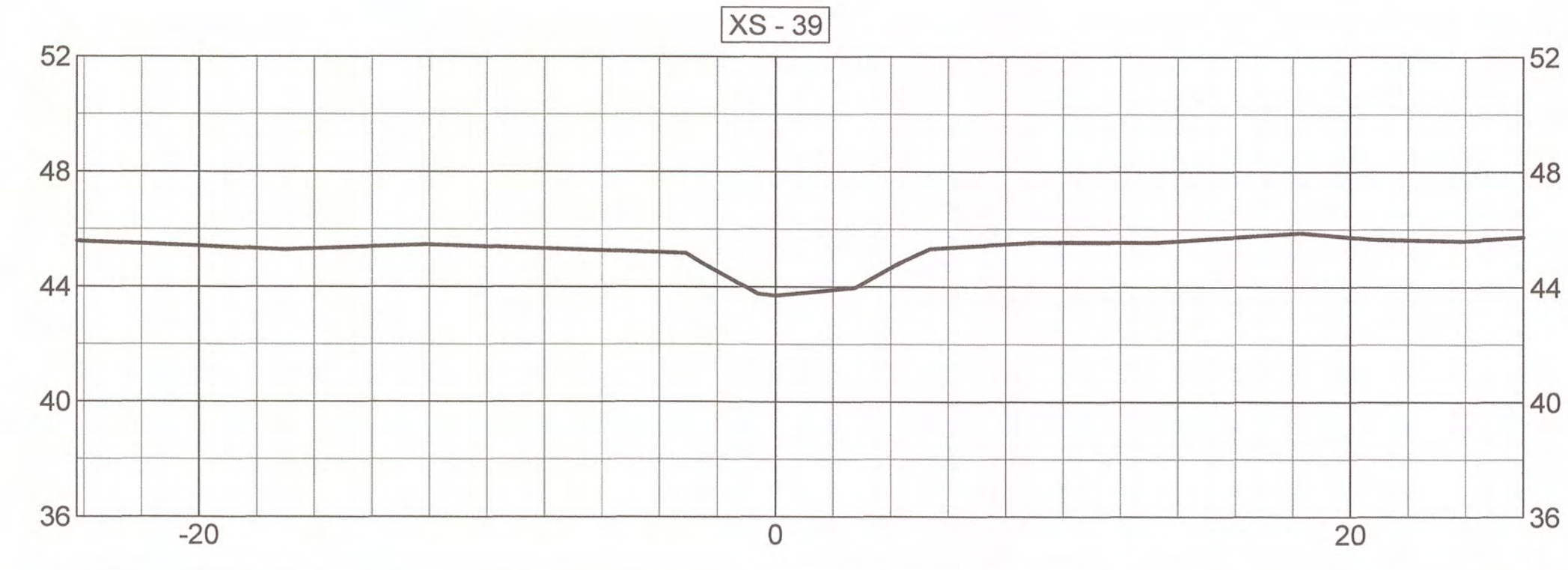
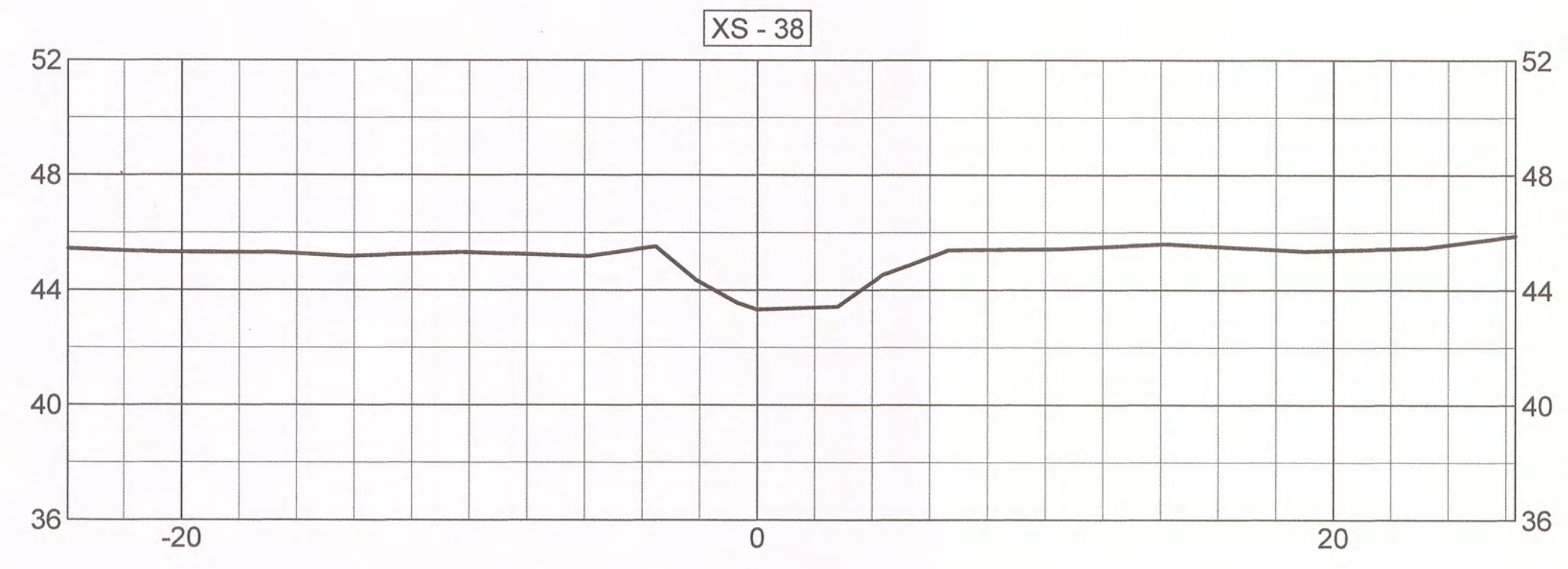
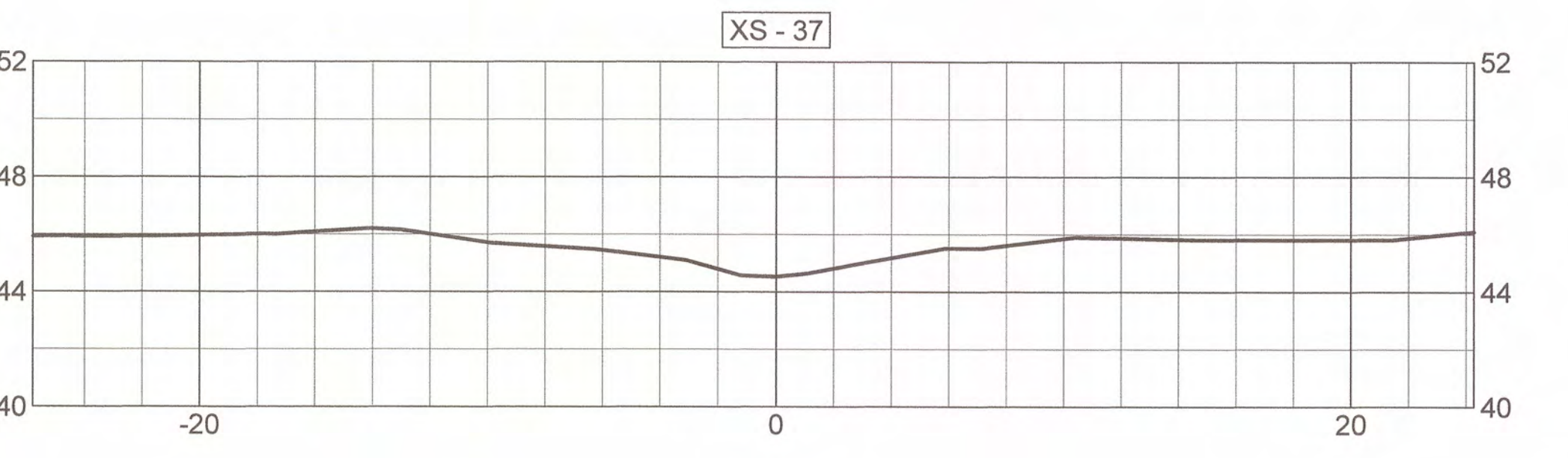
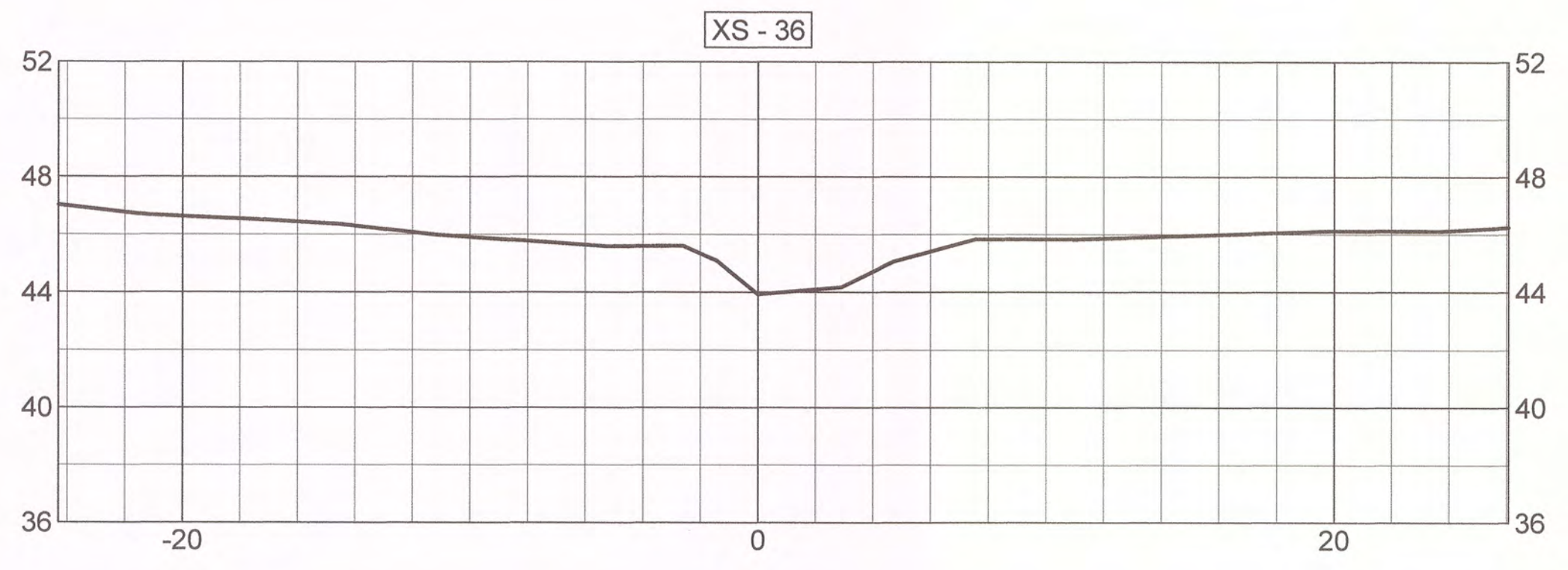
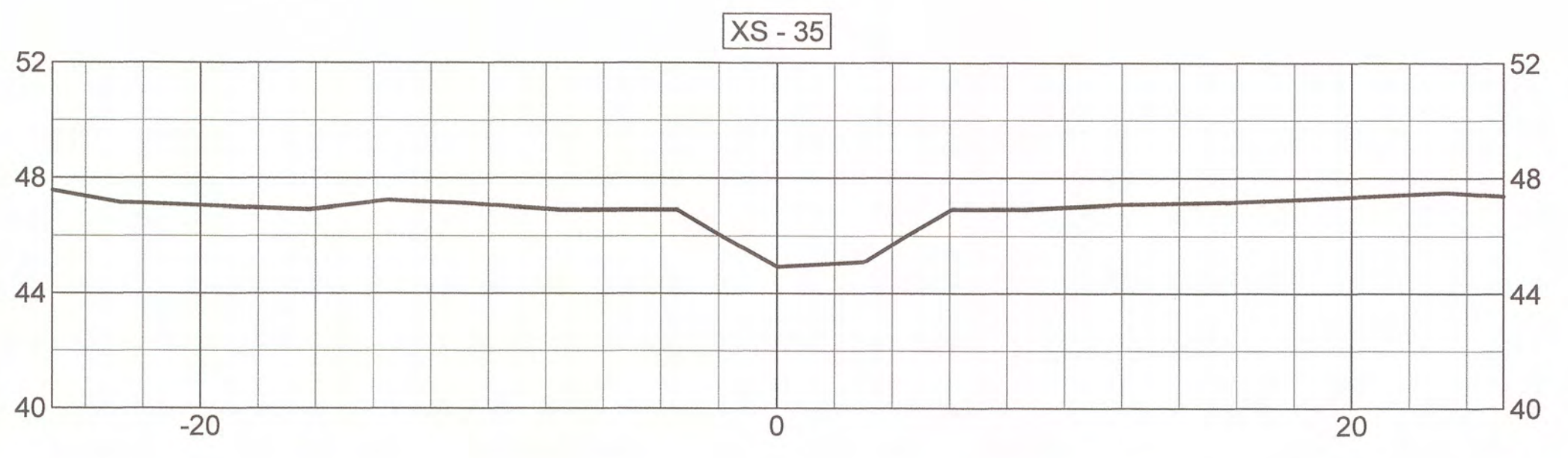
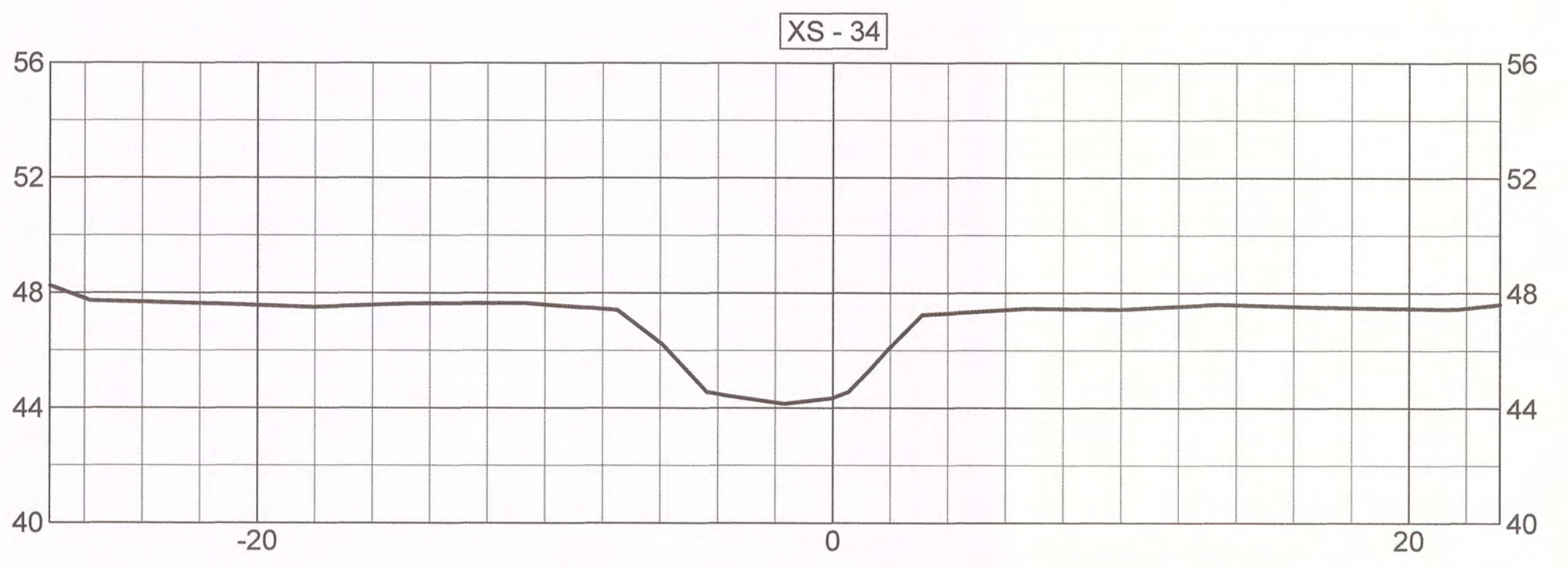
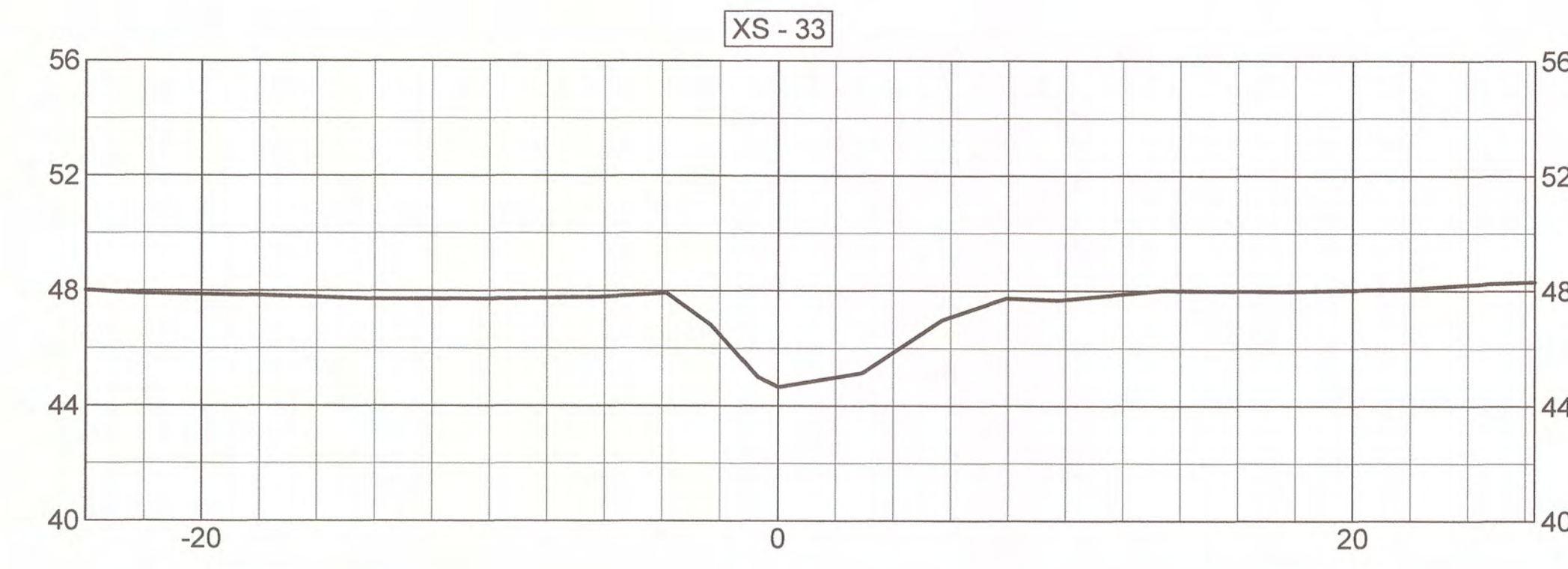
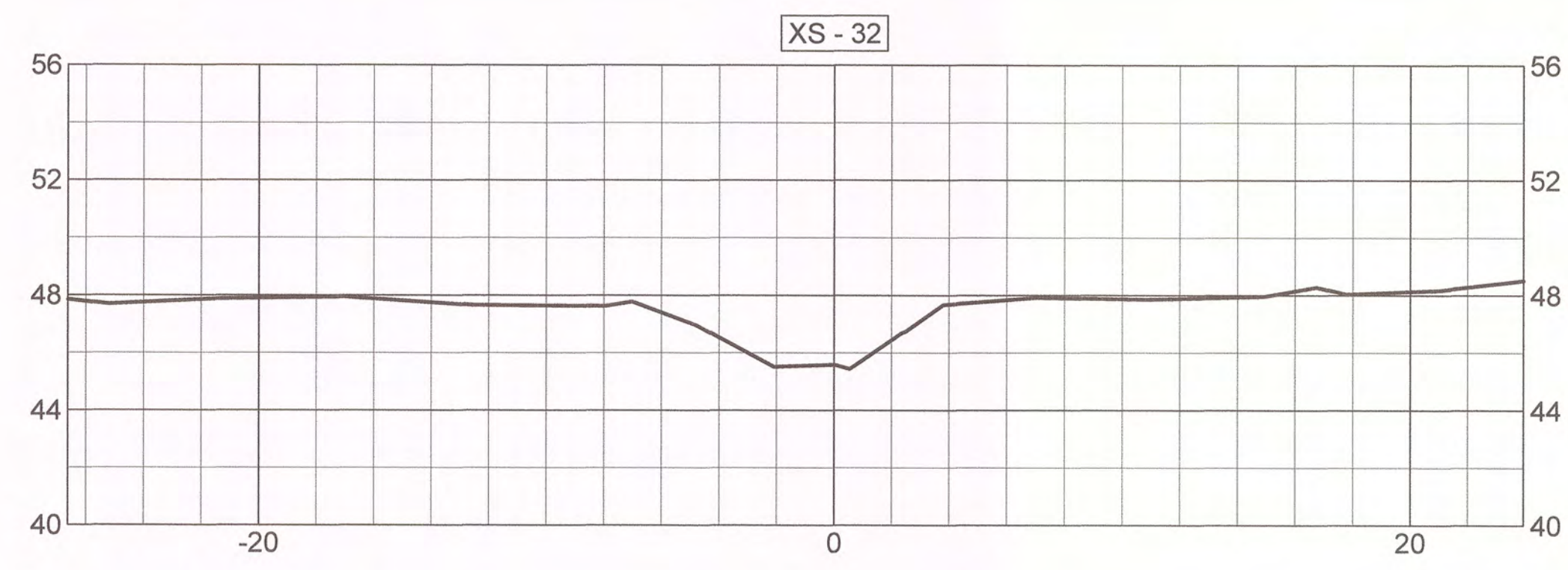


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ENVIRONMENTAL BANC & EXCHANGE, LLC
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606


SCALE	1" = 5'	DEPARTMENT	
DRAWN BY	JRW	DATE STARTED	7-23-14
APPROVED	CKP	SHEET No.	28 OF 33
DRAWING NAME	20110047-MR2-ASB.dwg	DRAWING NO.	
PROJECT NO.	20110047		

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STREAM CROSS-SECTIONS (XS-31 - XS-40)

MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.

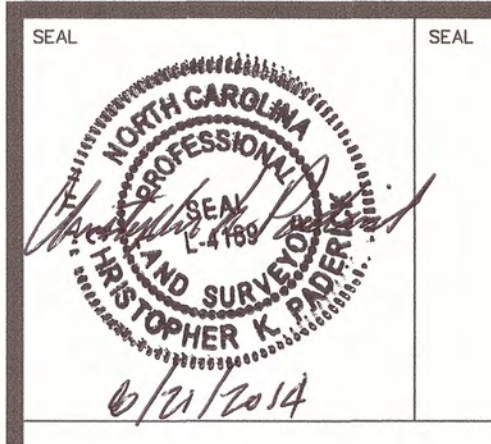
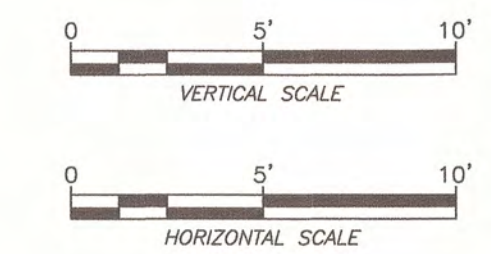
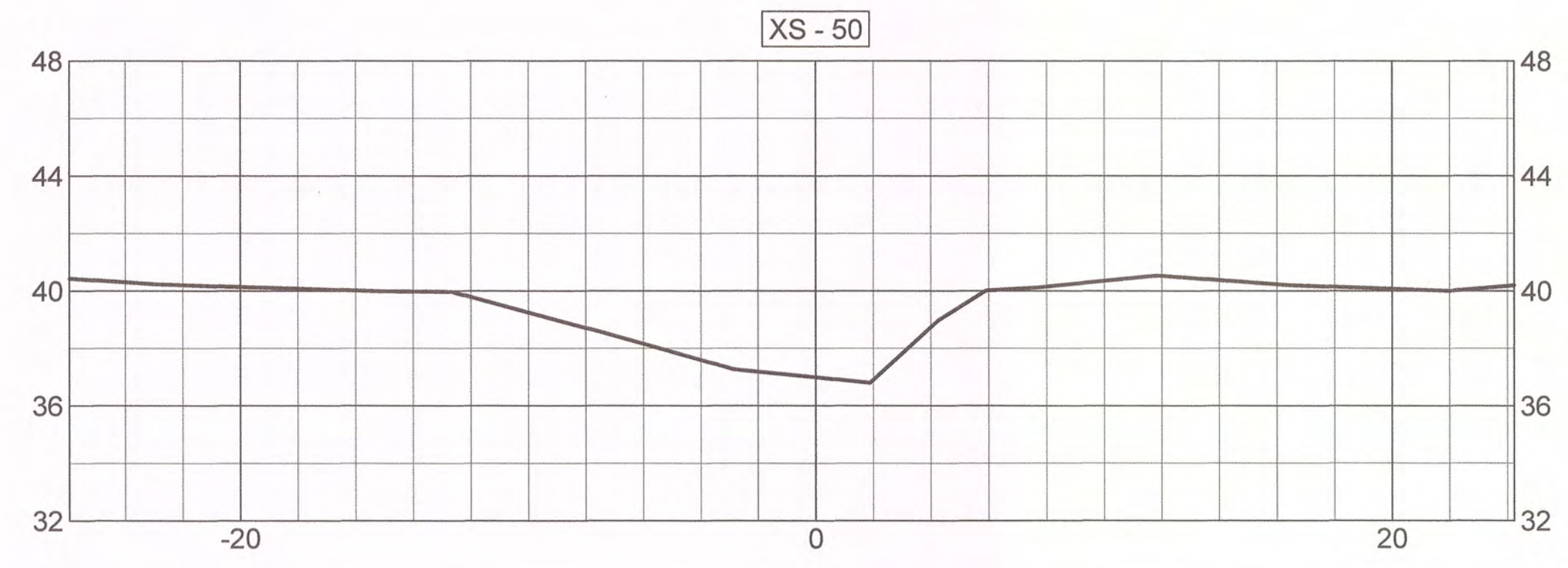
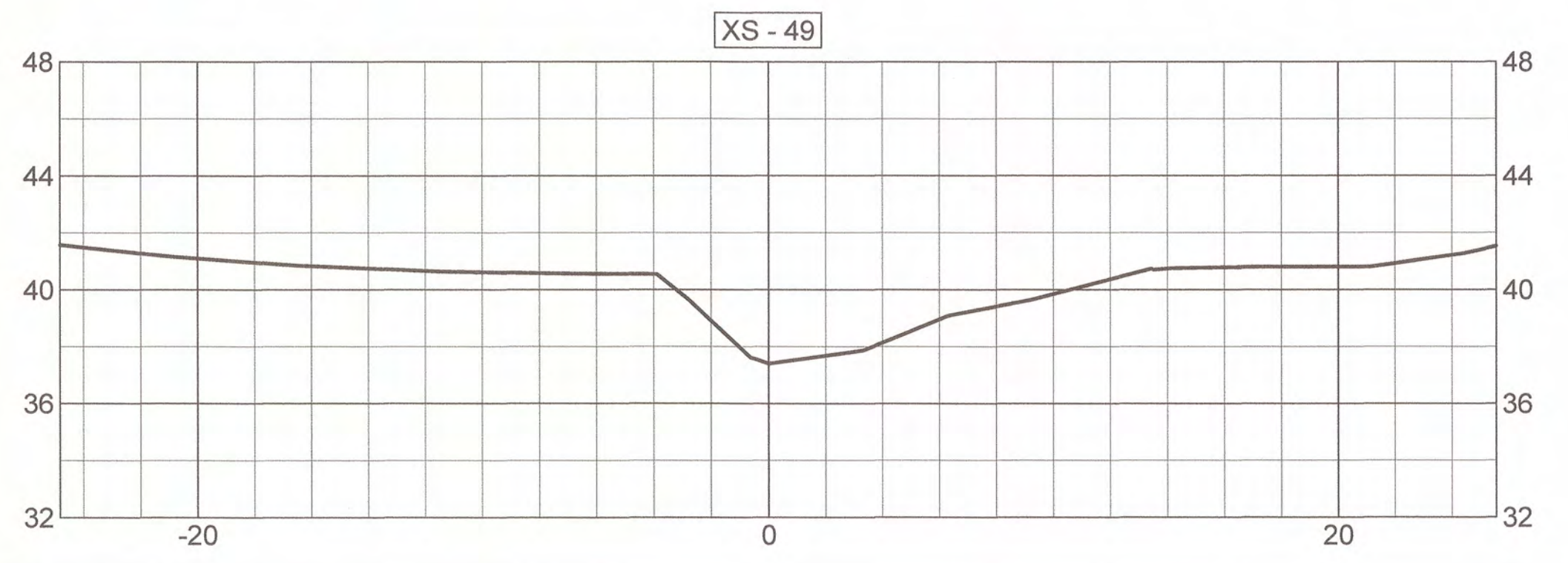
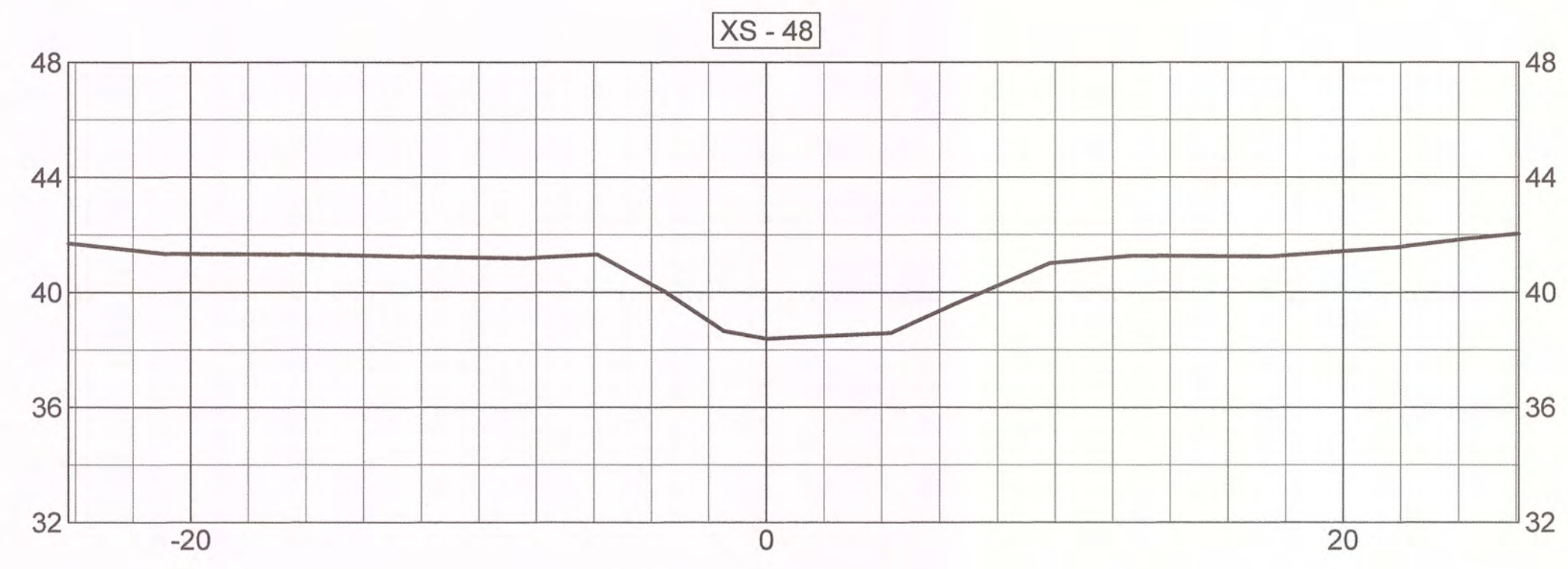
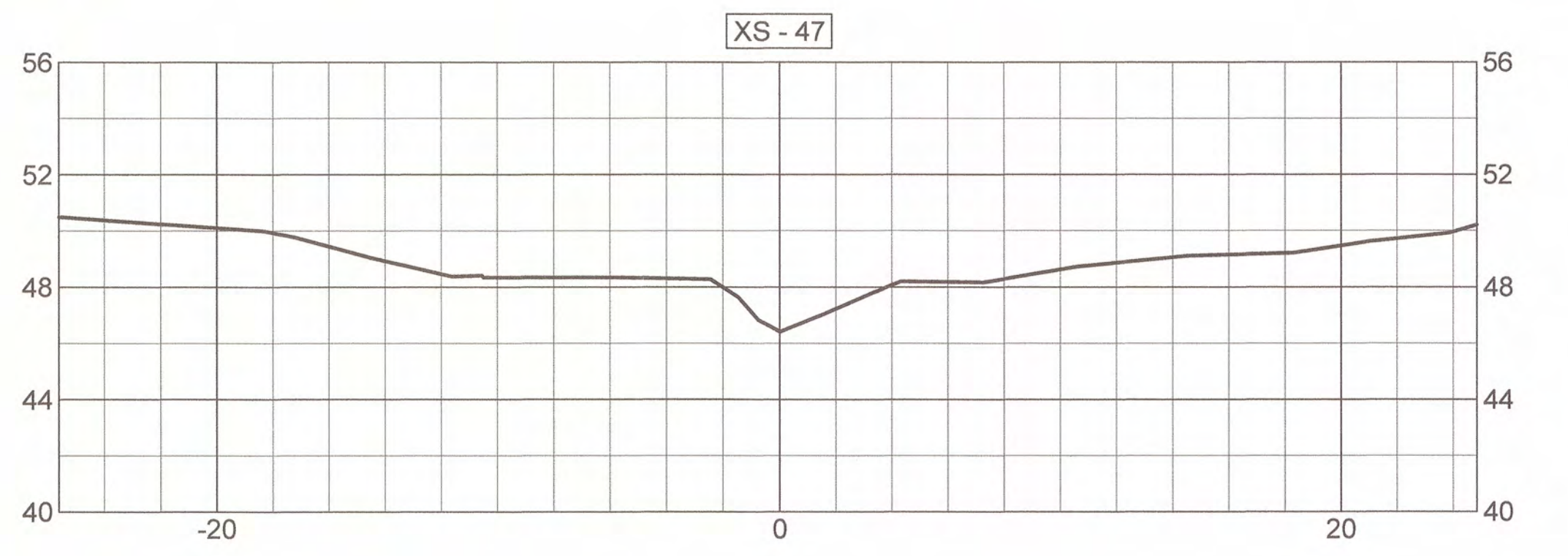
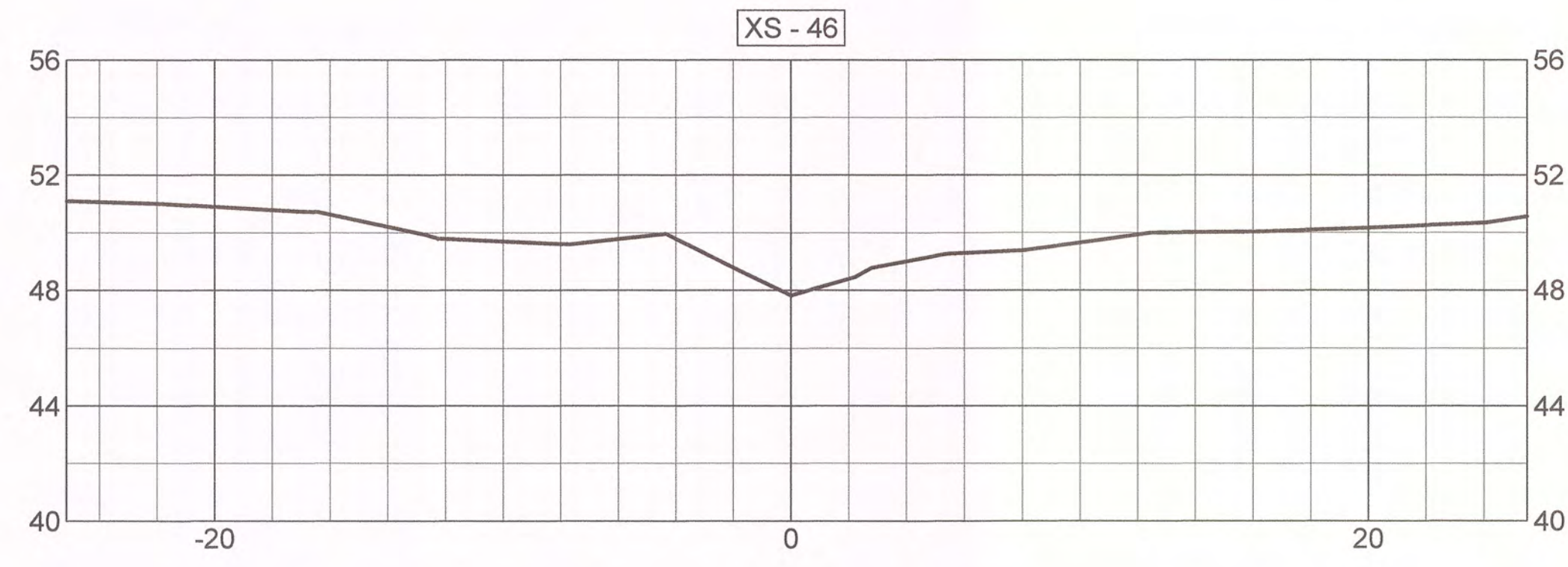
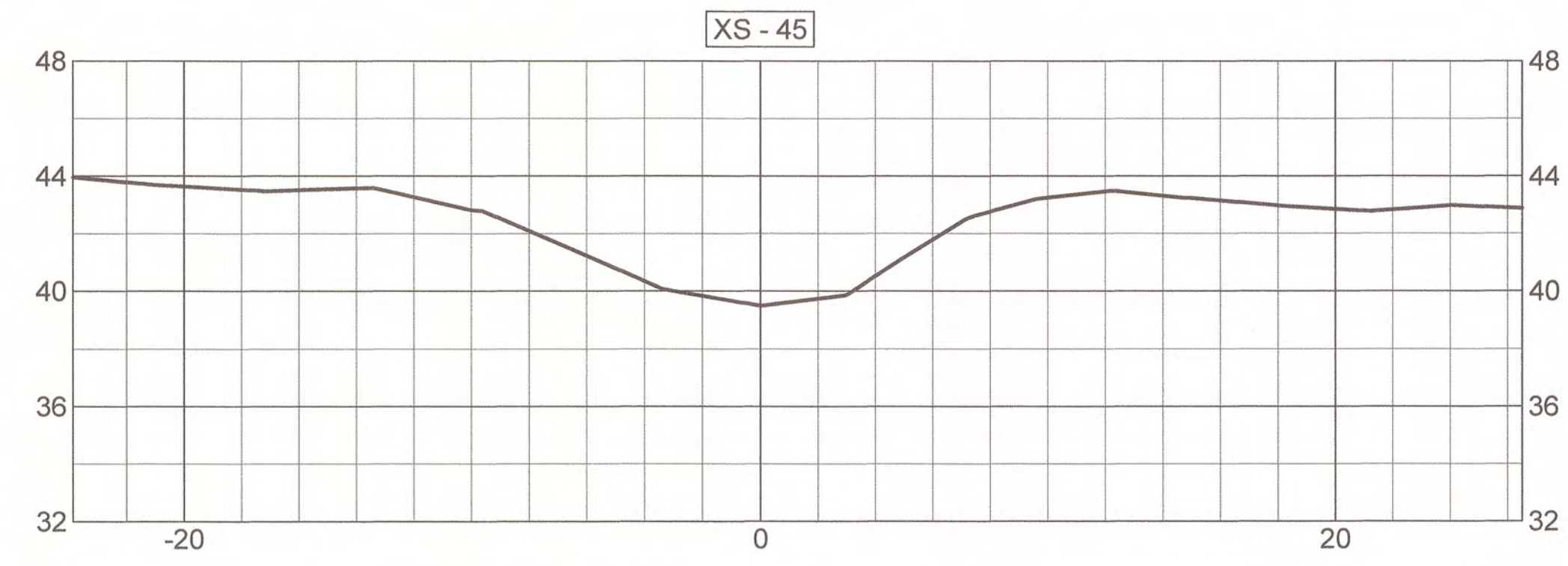
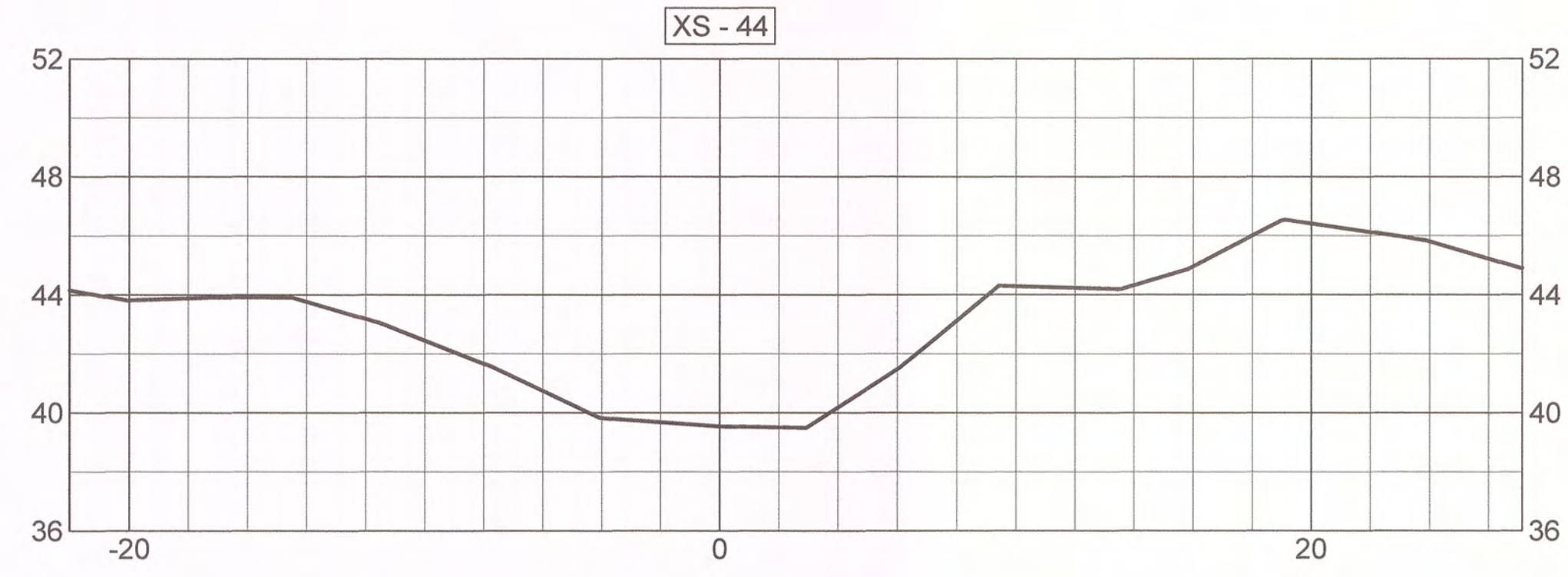
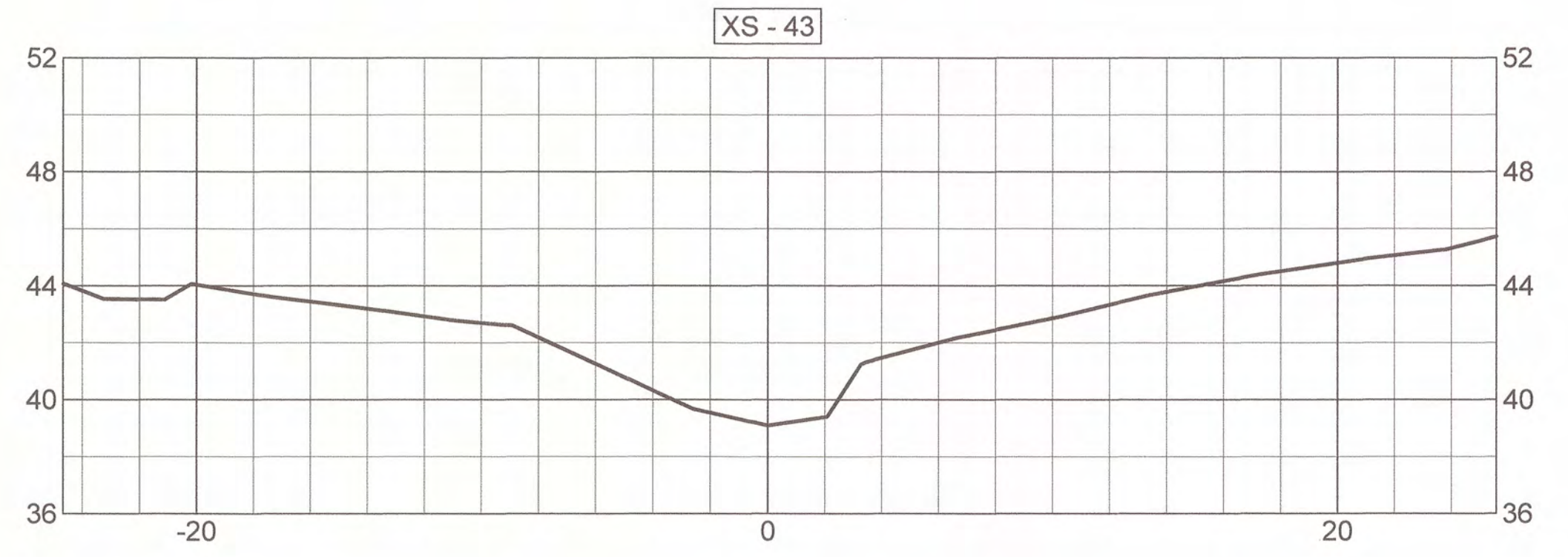
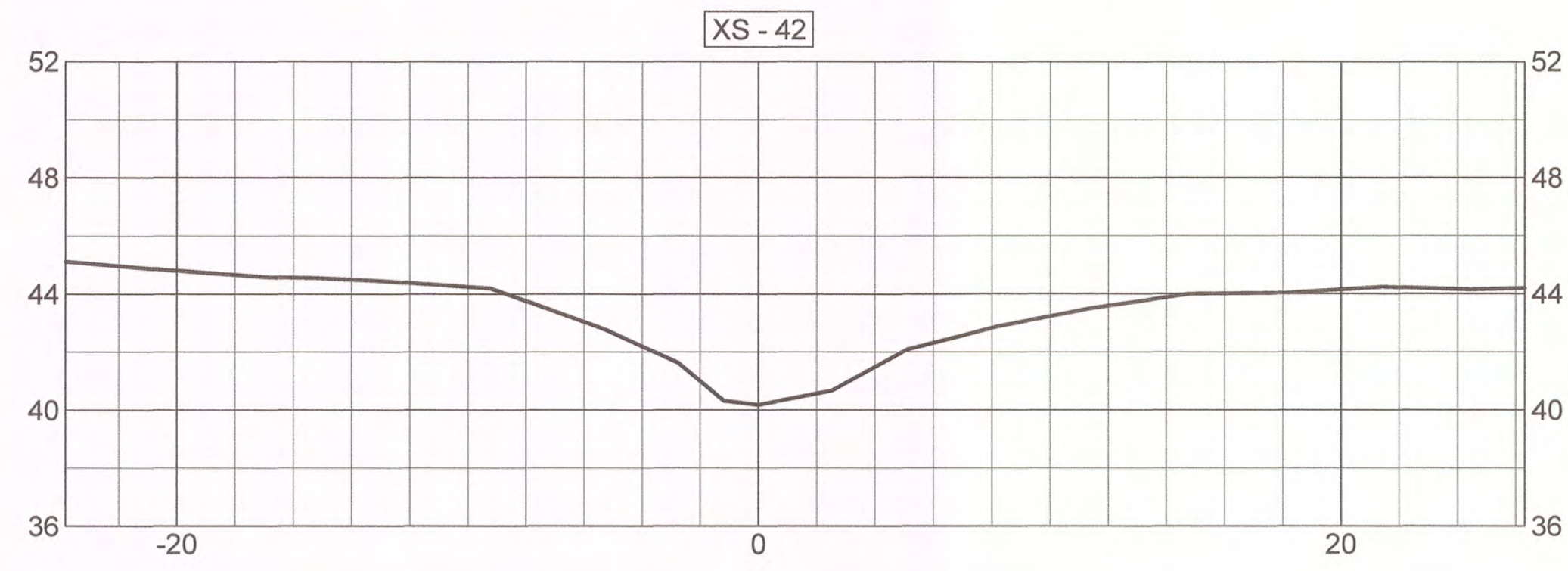
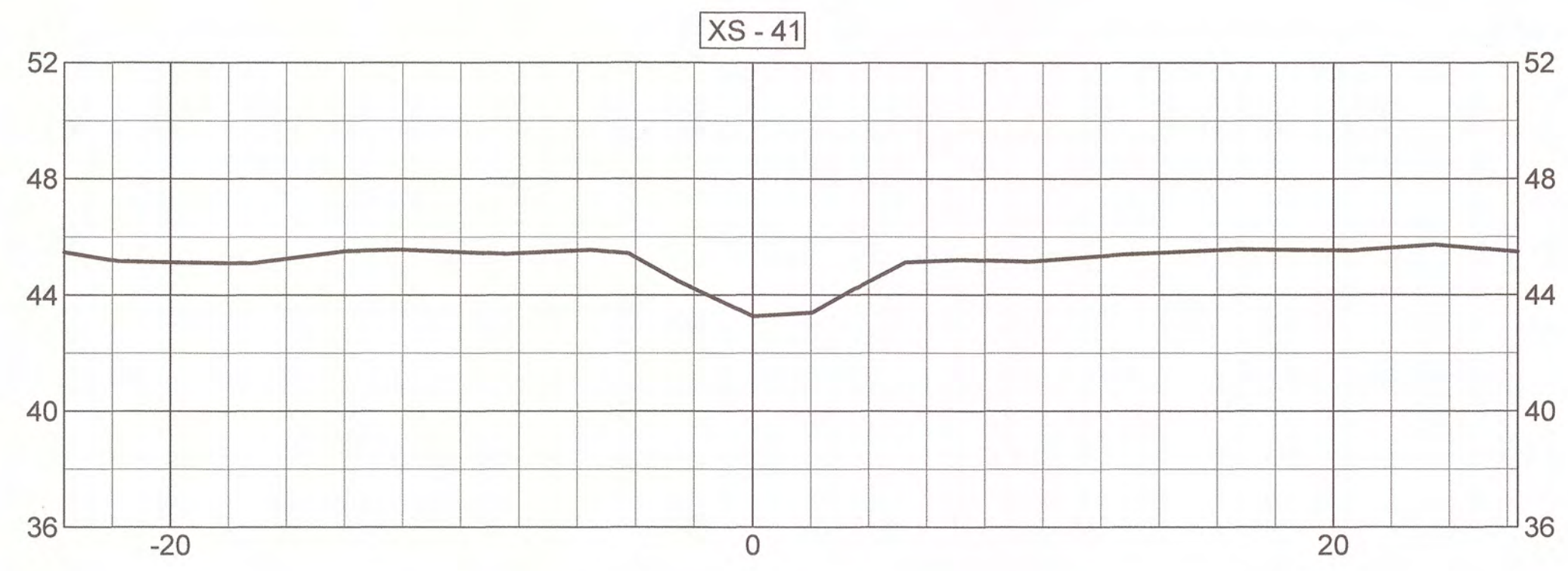


**MATRIX
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**ENVIRONMENTAL BANC
& EXCHANGE, LLC**
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE: 1" = 5'	DEPARTMENT:
DRAWN BY: JRW	DATE STARTED: 7-23-14
APPROVED: CKP	SHEET No. 29 OF 33
DRAWING NAME: 20110047-MR2-ASB.dwg	DRAWING NO. S-29
PROJECT NO. 20110047	



STREAM CROSS-SECTIONS (XS-41 - XS-50)

MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.

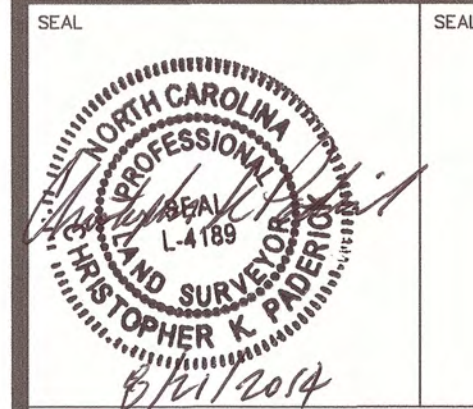


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 KINSTON, NC 28501
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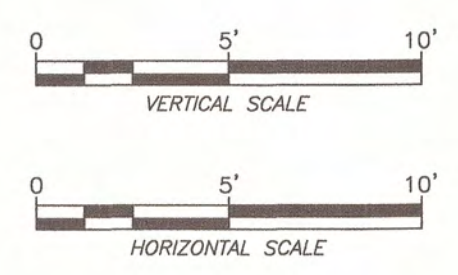
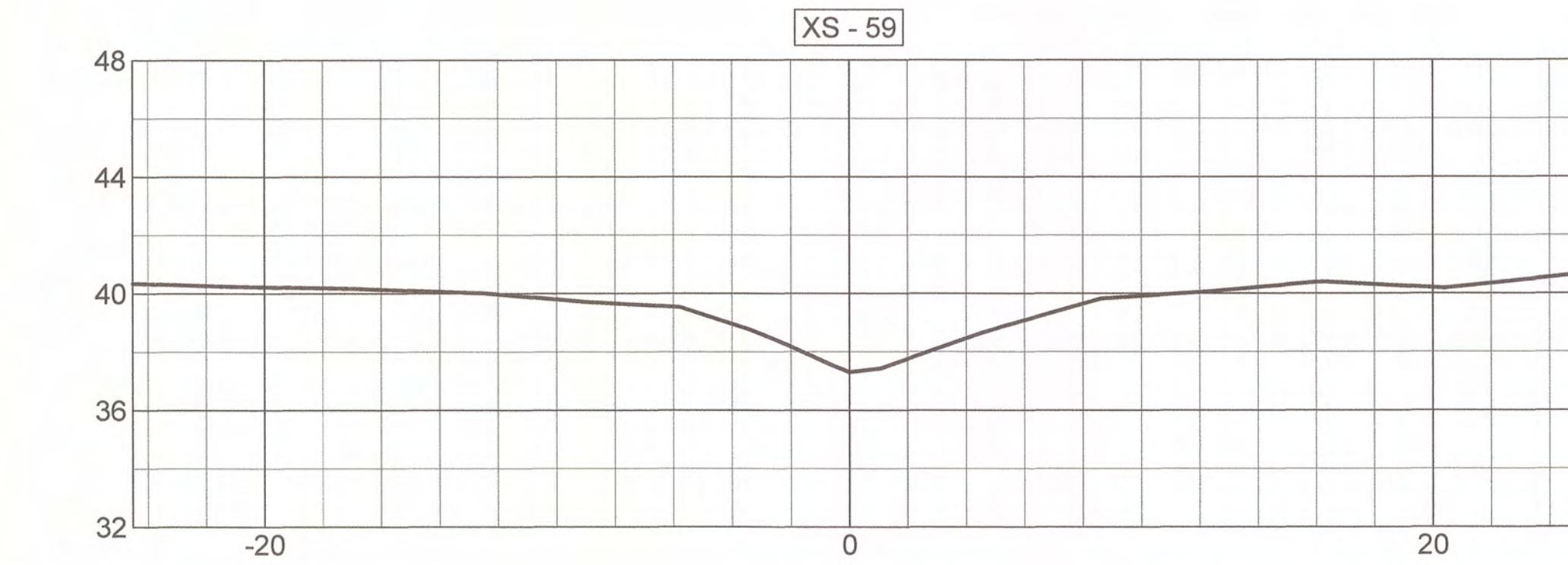
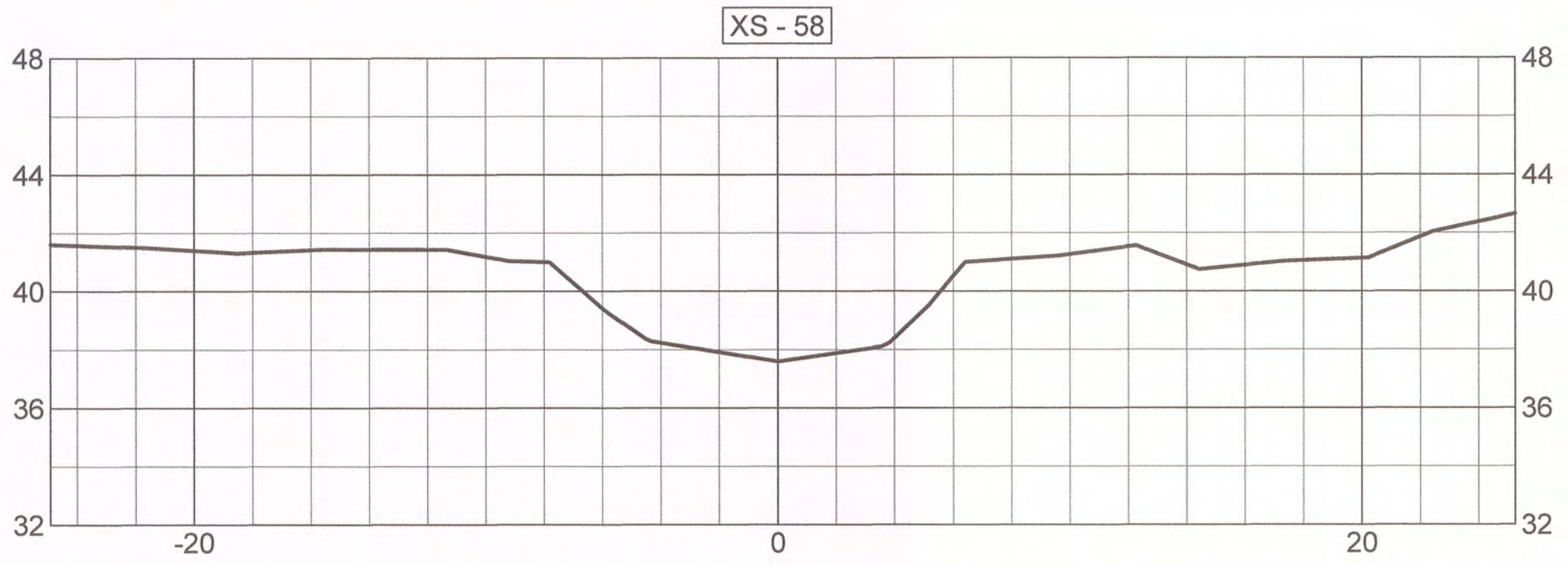
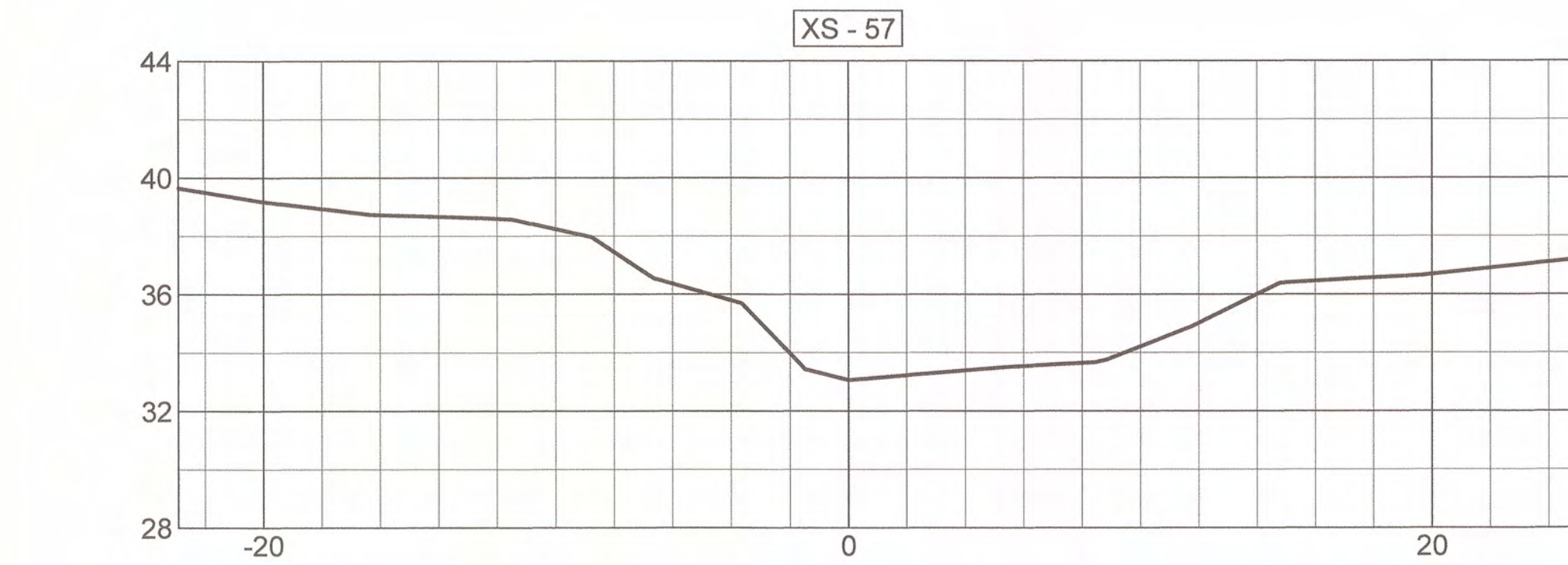
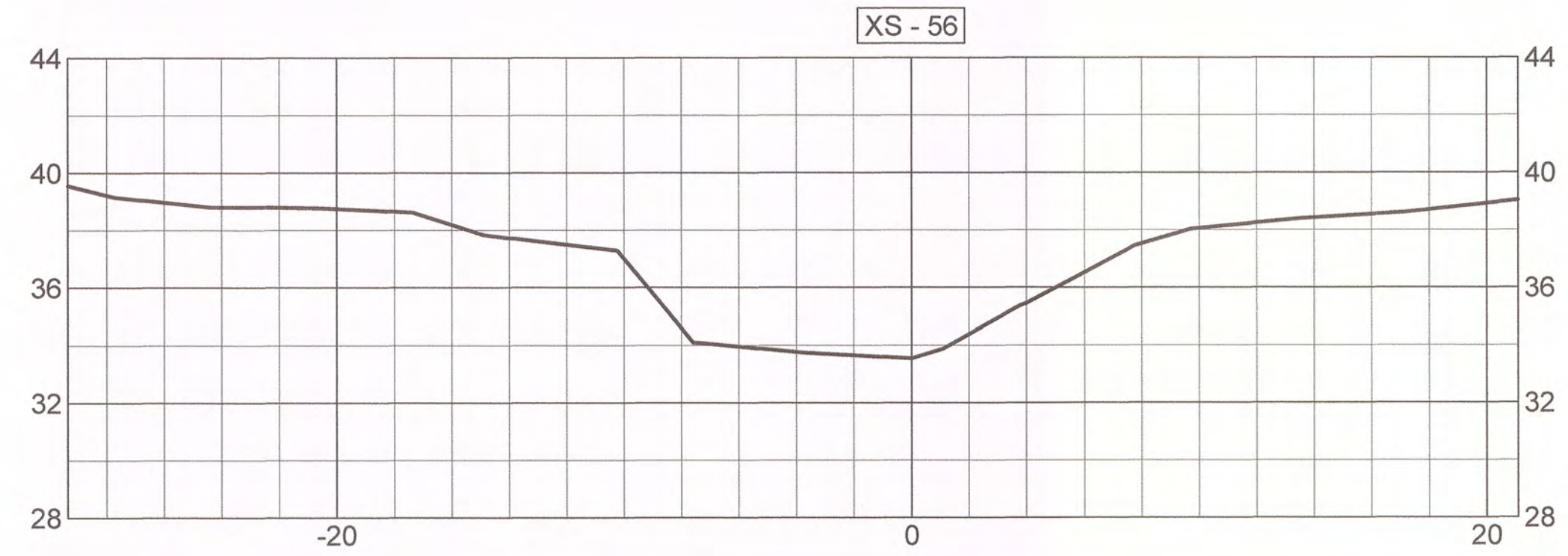
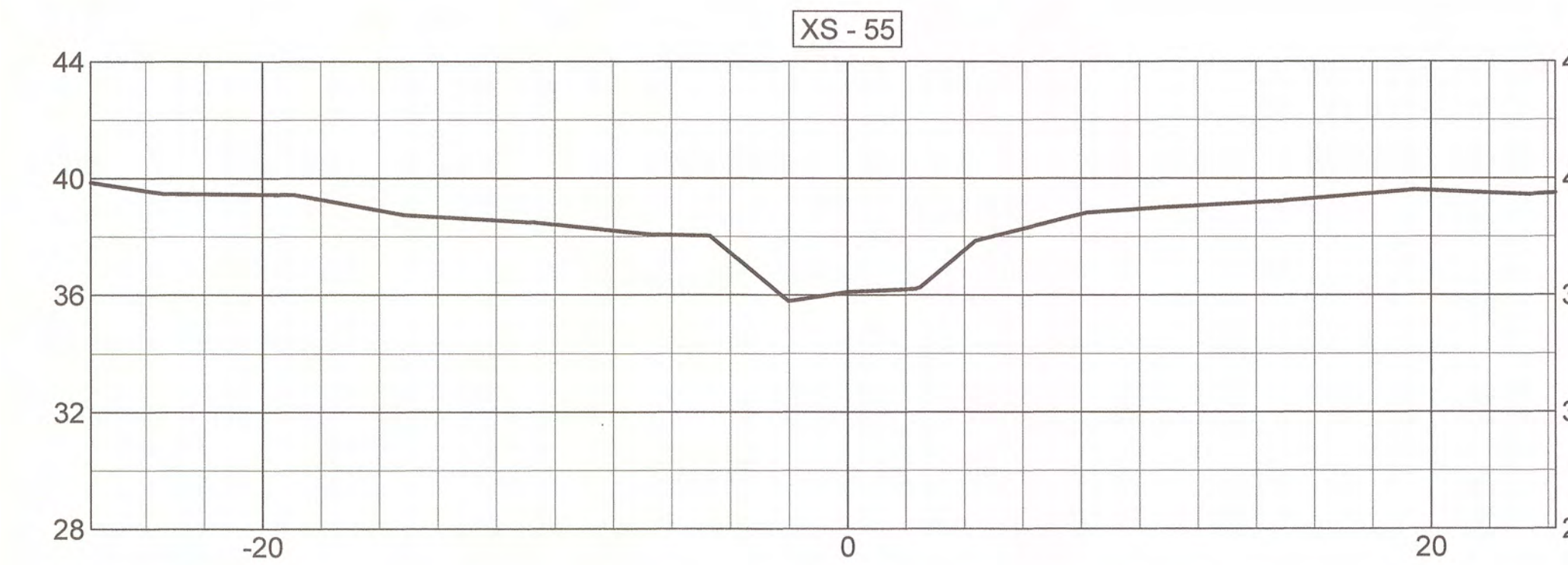
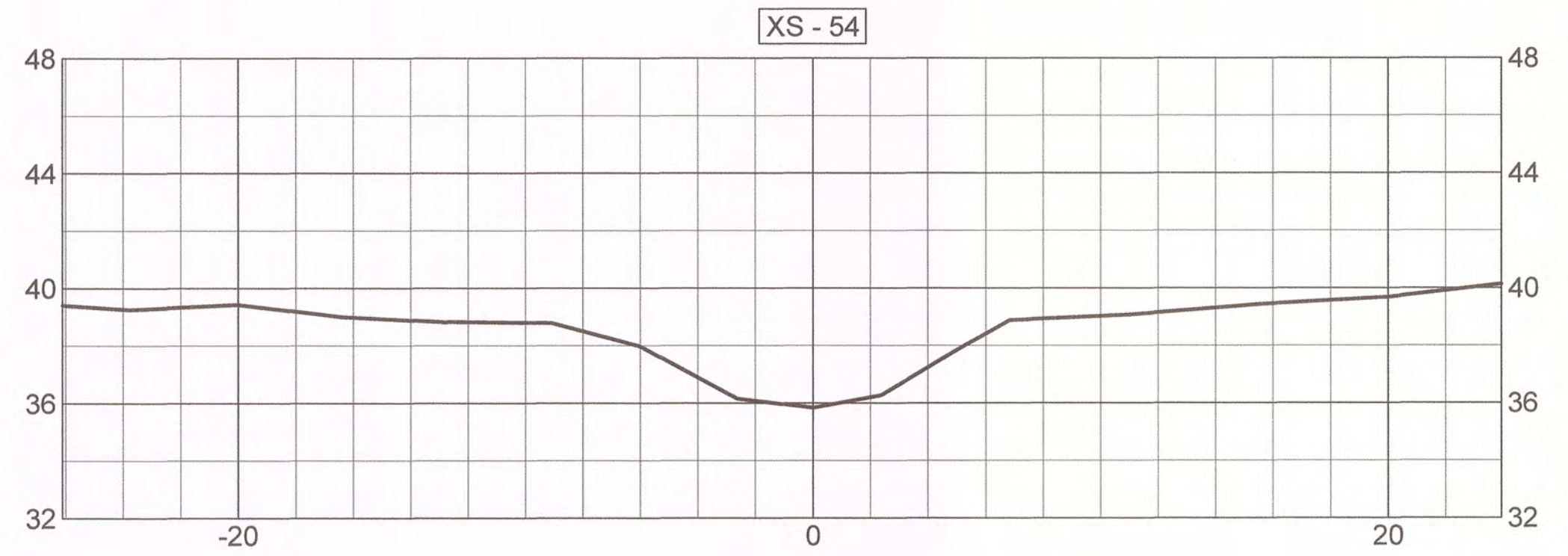
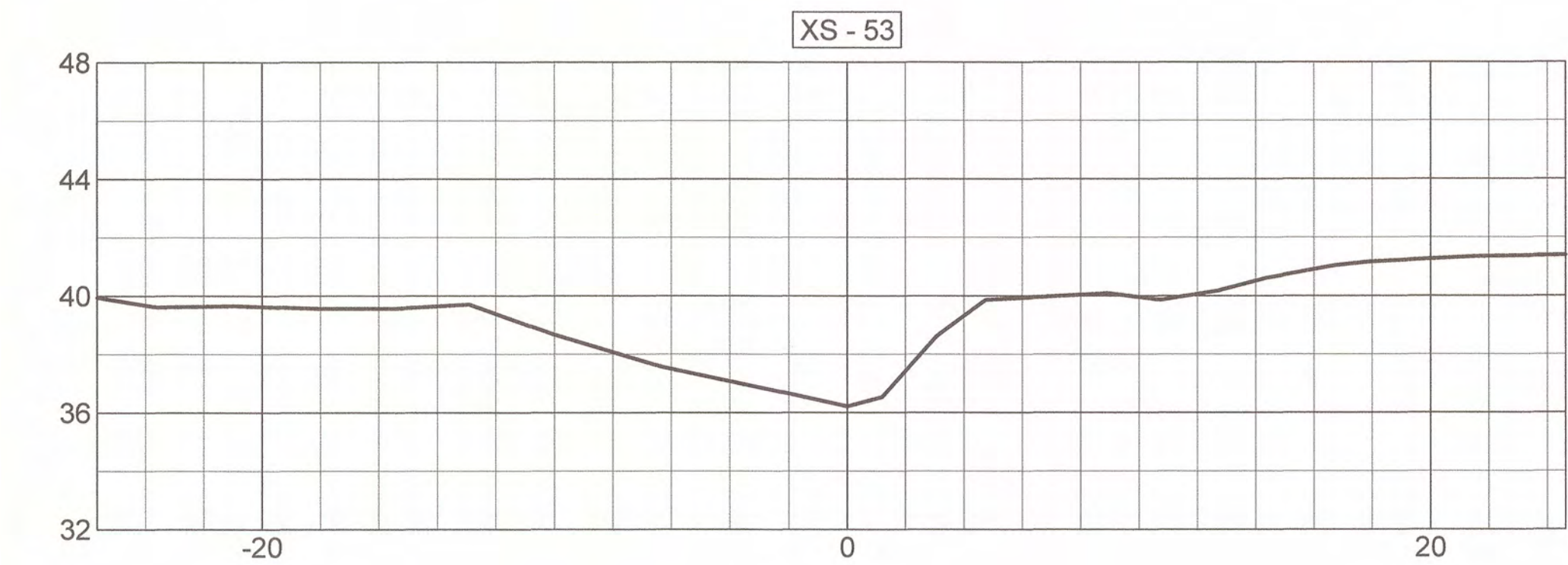
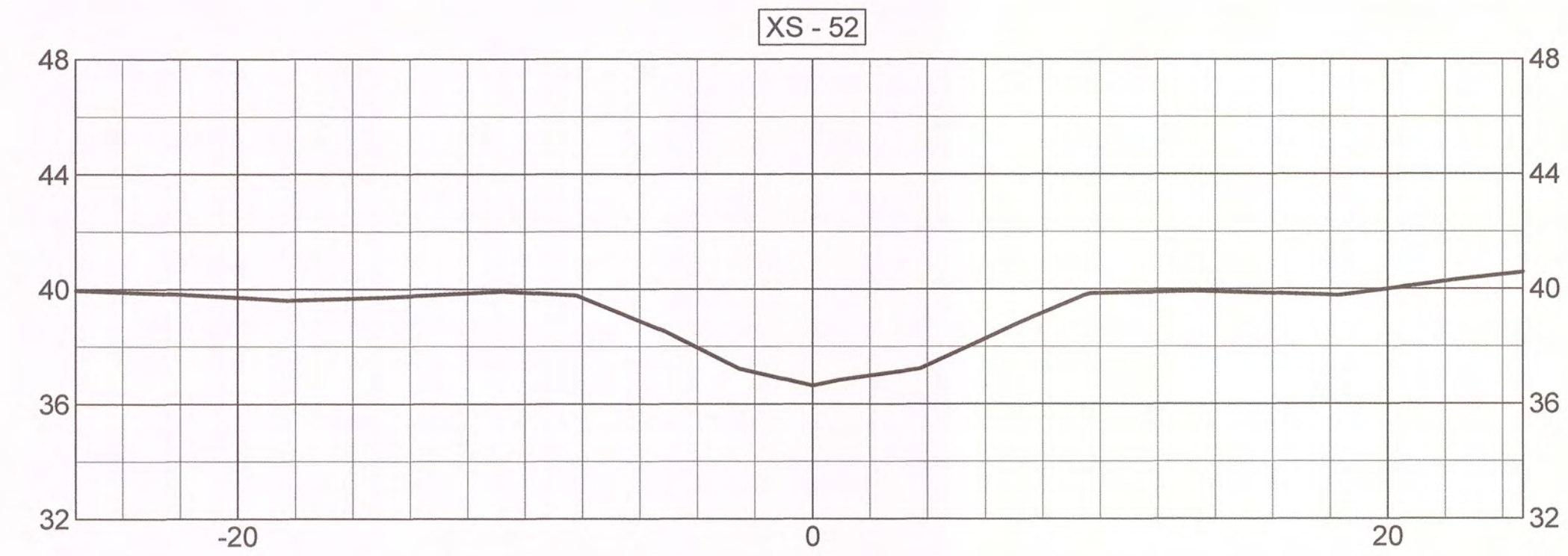
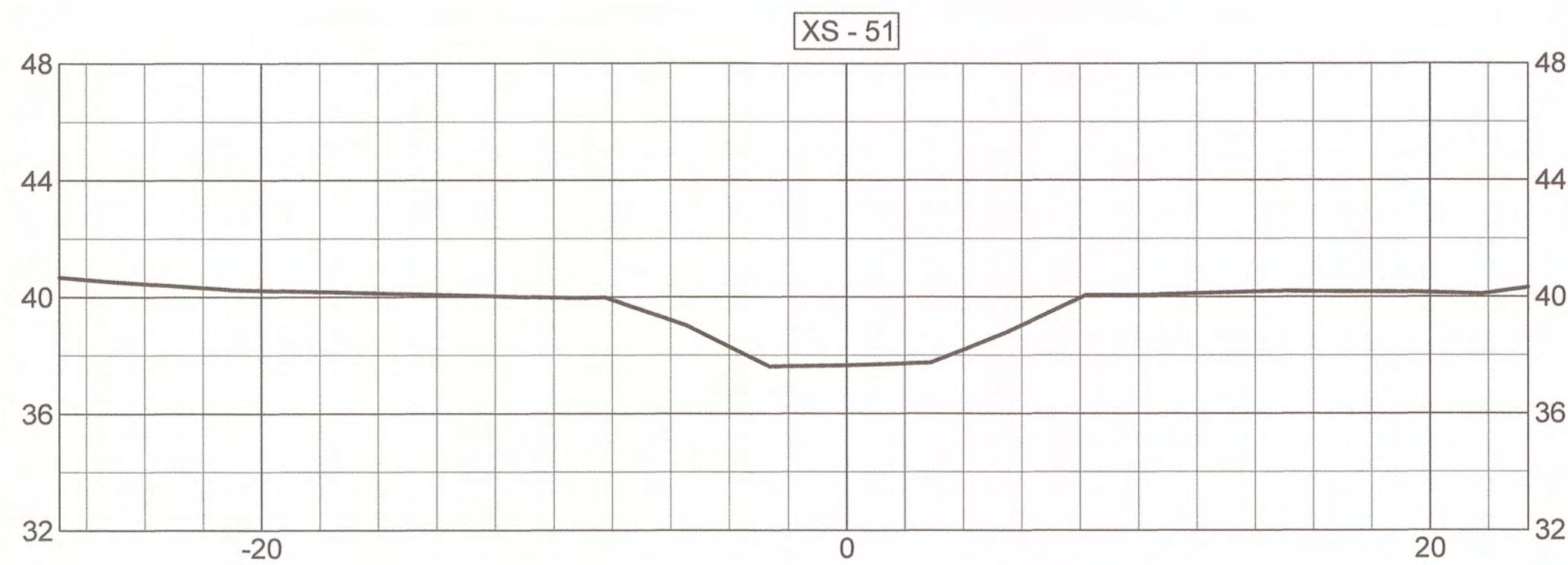
ENVIRONMENTAL BANC & EXCHANGE, LLC
 909 CAPABILITY DRIVE
 SUITE 3100
 RALEIGH, N.C. 27606

SCALE	1" = 5'	DEPARTMENT	
DRAWN BY	JRW	DATE STARTED	7-23-14
APPROVED	CKP	DRAWING NO.	30 OF 33
DRAWING NAME	20110047-MR2-ASB.dwg		
PROJECT NO.	20110047		

S-30



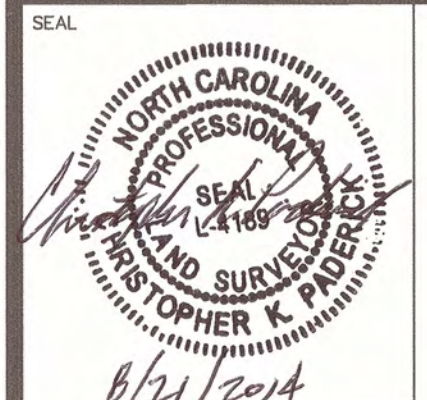
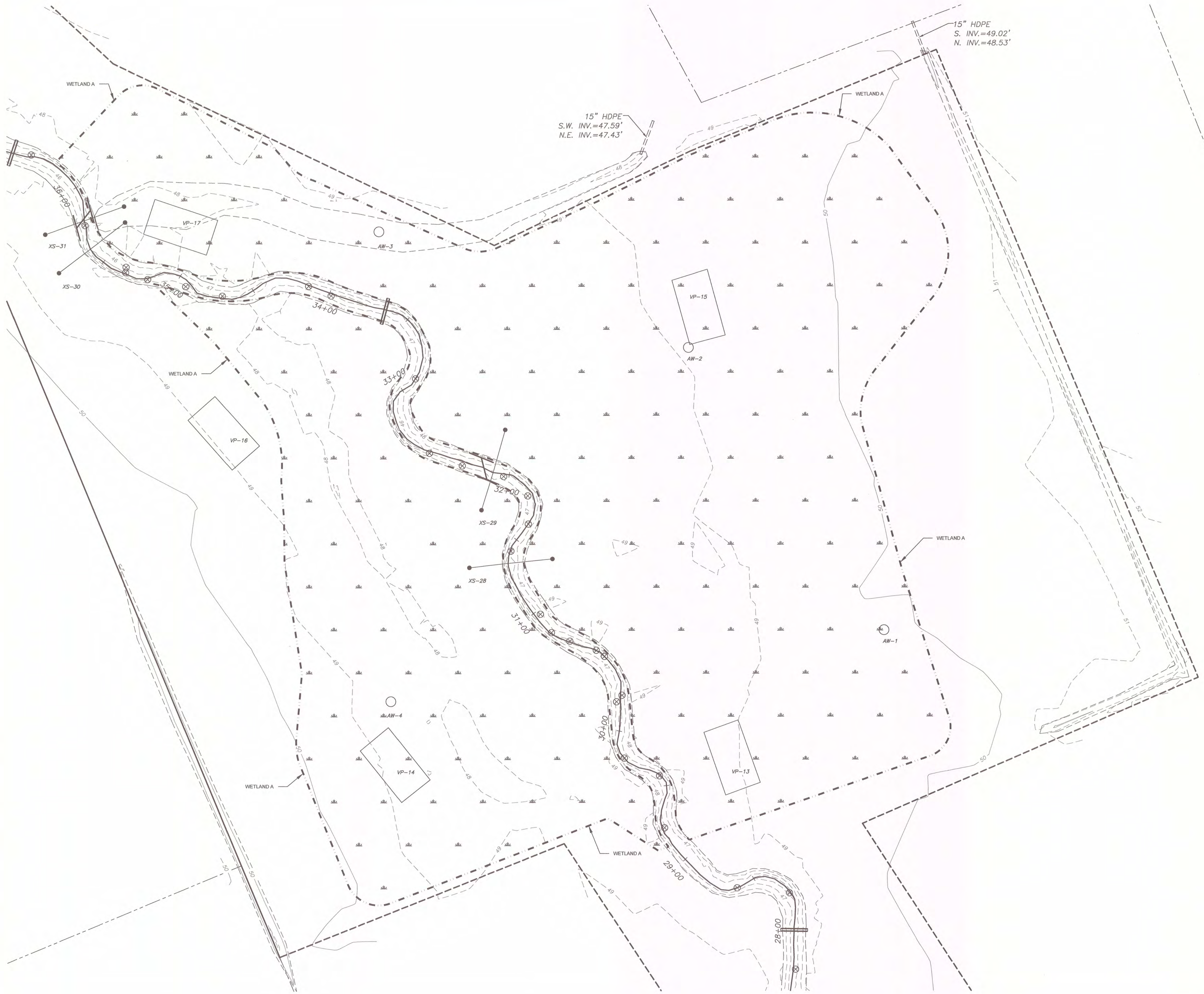
STREAM CROSS-SECTIONS (XS-51 - XS-59)
MUDDY RUN II
MITIGATION PROJECT
DUPLIN COUNTY, N.C.



MATRIX EAST, PLLC
 906 N. QUEEN ST., SUITE A
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ENVIRONMENTAL BANC & EXCHANGE, LLC
 909 CAPABILITY DRIVE
 SUITE 3100
 RALEIGH, N.C. 27606

SCALE: 1" = 5'	DEPARTMENT:
DRAWN BY: JRW	DATE STARTED: 7-23-14
APPROVED: CKP	SHEET No.: 31 OF 33
DRAWING NAME: 20110047-MR2-ASB.dwg	DRAWING NO.:
PROJECT NO.: 20110047	S-31



WETLAND A

MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



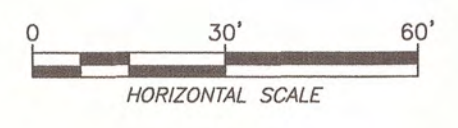
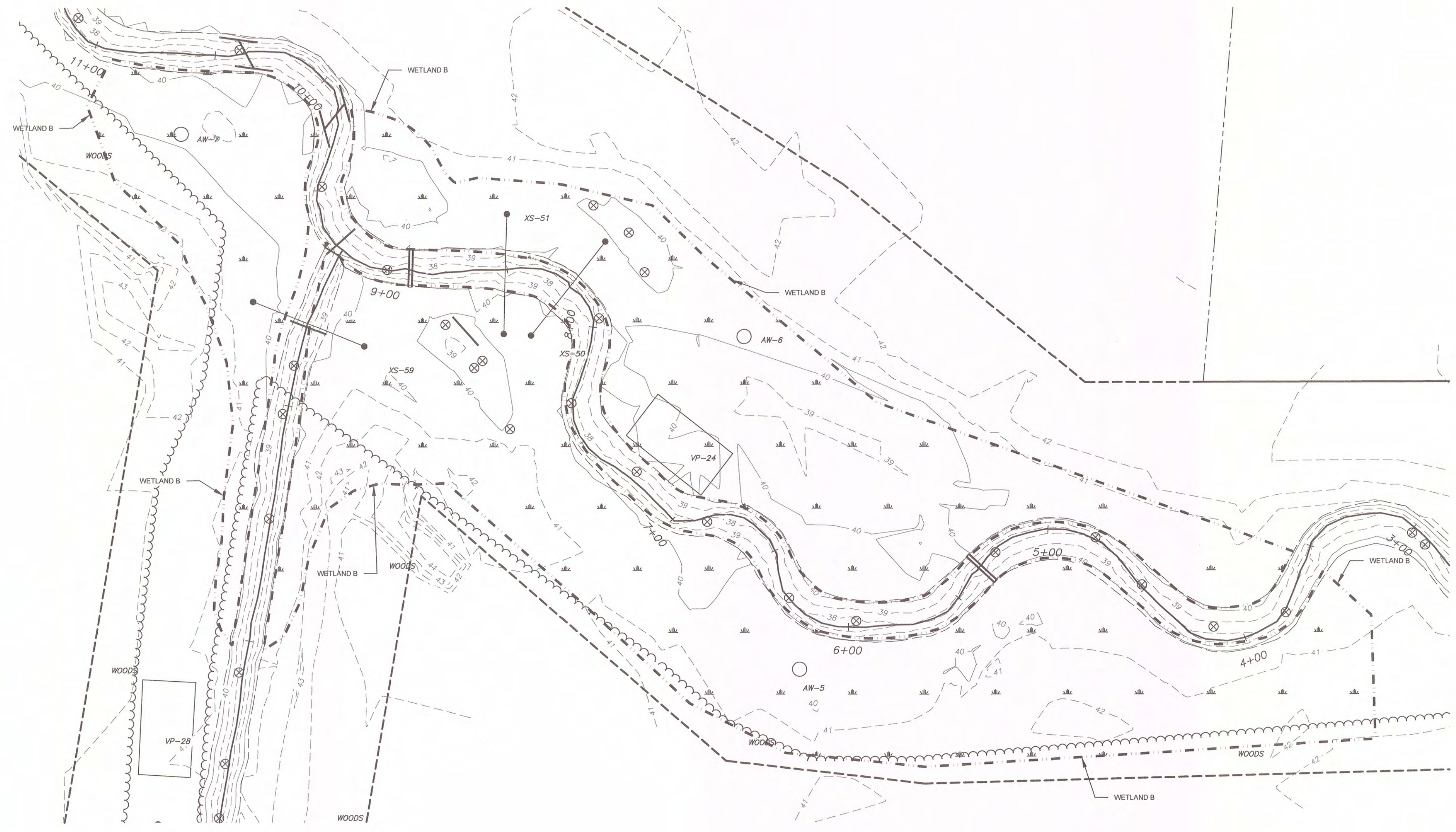
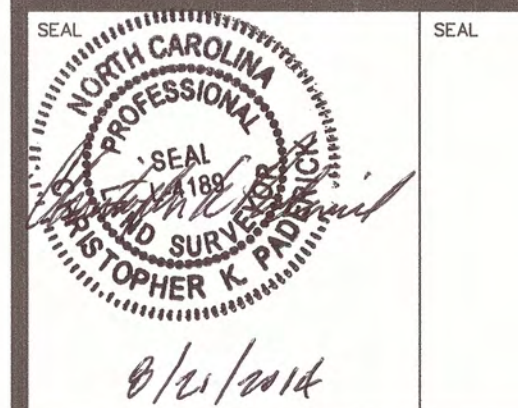
MATRIX EAST, PLLC

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KINSTON, NC 28501
TEL: 252-522-2500 FAX: 252-522-4747
FIRM LIC. # P-0221
EMAIL: surveyor@matrixeast.net

**ENVIRONMENTAL BANC
& EXCHANGE, LLC**
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE	1" = 30'	DEPARTMENT	
DRAWN BY	JRW	DATE STARTED	7-23-14
APPROVED	CKP	SHEET No.	32 OF 33
DRAWING NAME	20110047-MR2-ASB.dwg	DRAWING NO.	
PROJECT NO.	20110047		

S-32



WETLAND B

MUDDY RUN II MITIGATION PROJECT DUPLIN COUNTY, N.C.



**MATRIX
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**ENVIRONMENTAL BANC
& EXCHANGE, LLC**
909 CAPABILITY DRIVE
SUITE 3100
RALEIGH, N.C. 27606

SCALE	1" = 30'	DEPARTMENT	
DRAWN BY	JRW	DATE STARTED	7-23-14
APPROVED	CKP	SHEET No.	33 OF 33
DRAWING NAME	20110047-MR2-ASB.dwg	DRAWING NO.	
PROJECT NO.	20110047		

S-33