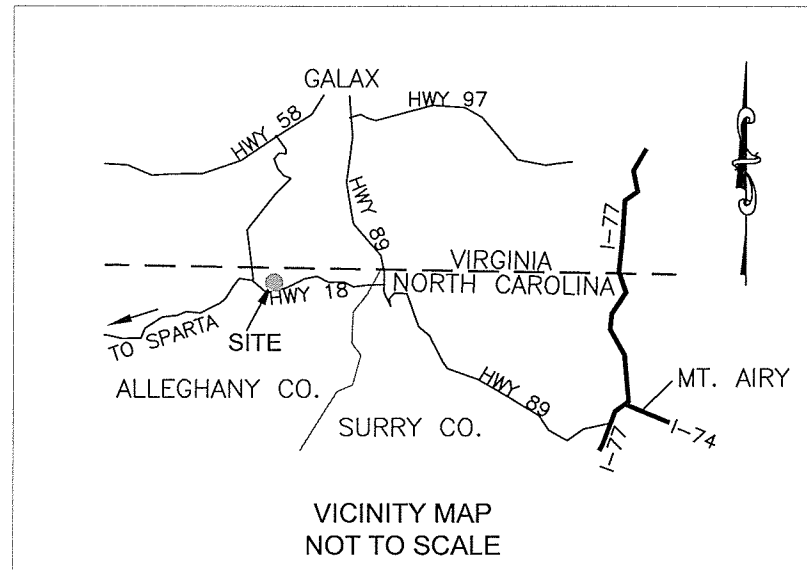


# AS-BUILT SURVEY OF UT TO CRAB CREEK STREAM & WETLAND RESTORATION SCO# 06-06784-01A

I, DAVID S. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THUS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HERON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 30<sup>th</sup> DAY OF June, 2010.

*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551



### GENERAL NOTES

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. THE VERTICAL DATUM IS NAVD 88.
3. THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
4. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYENCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
5. SEE SHEETS 7-10 FOR LONGITUDINAL PROFILE DATA.
6. REPRESENTATIVE CROSS-SECTIONS ARE PRESENTED ON THE SHEET WHERE THE CROSS-SECTION WAS TAKEN. ALL CROSS-SECTIONS ARE SHOWN FROM LEFT BANK TO RIGHT BANK.
7. THE 30' POWER LINE EASEMENT DEPICTED IS CENTERED ON EXISTING & RELOCATED POWER POLES AND IS SHOWN FOR REFERENCE ONLY. THIS AS-BUILT SURVEY IS NOT INTENDED TO ADJUST OR RELOCATE THE EASEMENT LINE NOR MODIFY THE EASEMENT AGREEMENT. ANY CHANGES TO THE EASEMENT SHOULD BE PERFORMED UNDER A SEPERATE DOCUMENT.

### REFERENCES:

**DEVELOPER/OWNER:**  
NORTH CAROLINA ECOSYSTEM ENHANCEMENT PROGRAM  
1652 MAIL SERVICE CENTER  
RALEIGH, NC 27099-1652  
(919)715-0476  
EEP PROJ. MGR.: HARRY TSOMIDES  
EEP REVIEW COORDINATOR: SALAM MUTADA

**PROPERTY OWNERSHIP:**  
WILLOW INVESTMENTS, LLC  
GALAX, VA  
DEED BOOK 305, PAGE 165 (ALLEGHANY CO., NC REGISTER OF DEEDS)  
PLAT BOOK 9, PAGE 456  
PIN: 4022-25-6945 & 4022-05-9623

**CONSTRUCTION BY:**  
CAROLINA ENVIRONMENTAL CONTRACTING, INC.  
MT. AIRY, NC  
(336)320-3849

**EXISTING CONDITIONS INFORMATION & BOUNDARY PROVIDED BY DESIGNER:**  
KCI ASSOCIATES OF NC  
RALEIGH, NC  
(919)783-9214

## SHEET INDEX

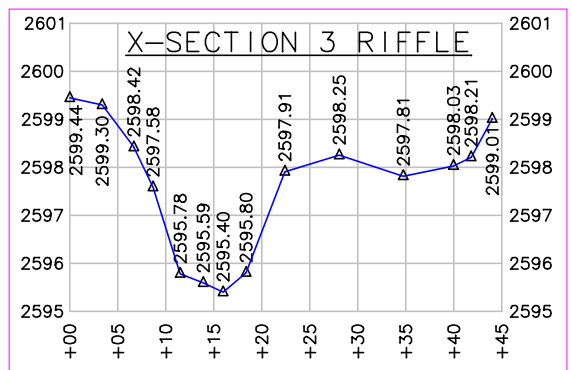
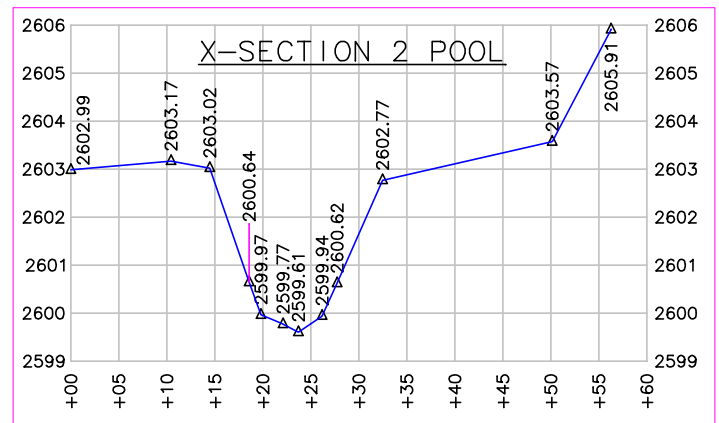
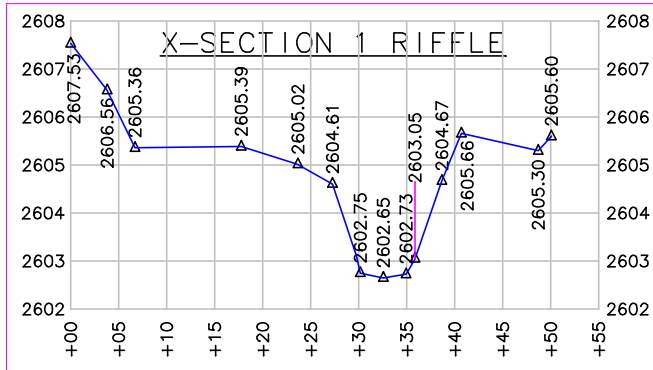
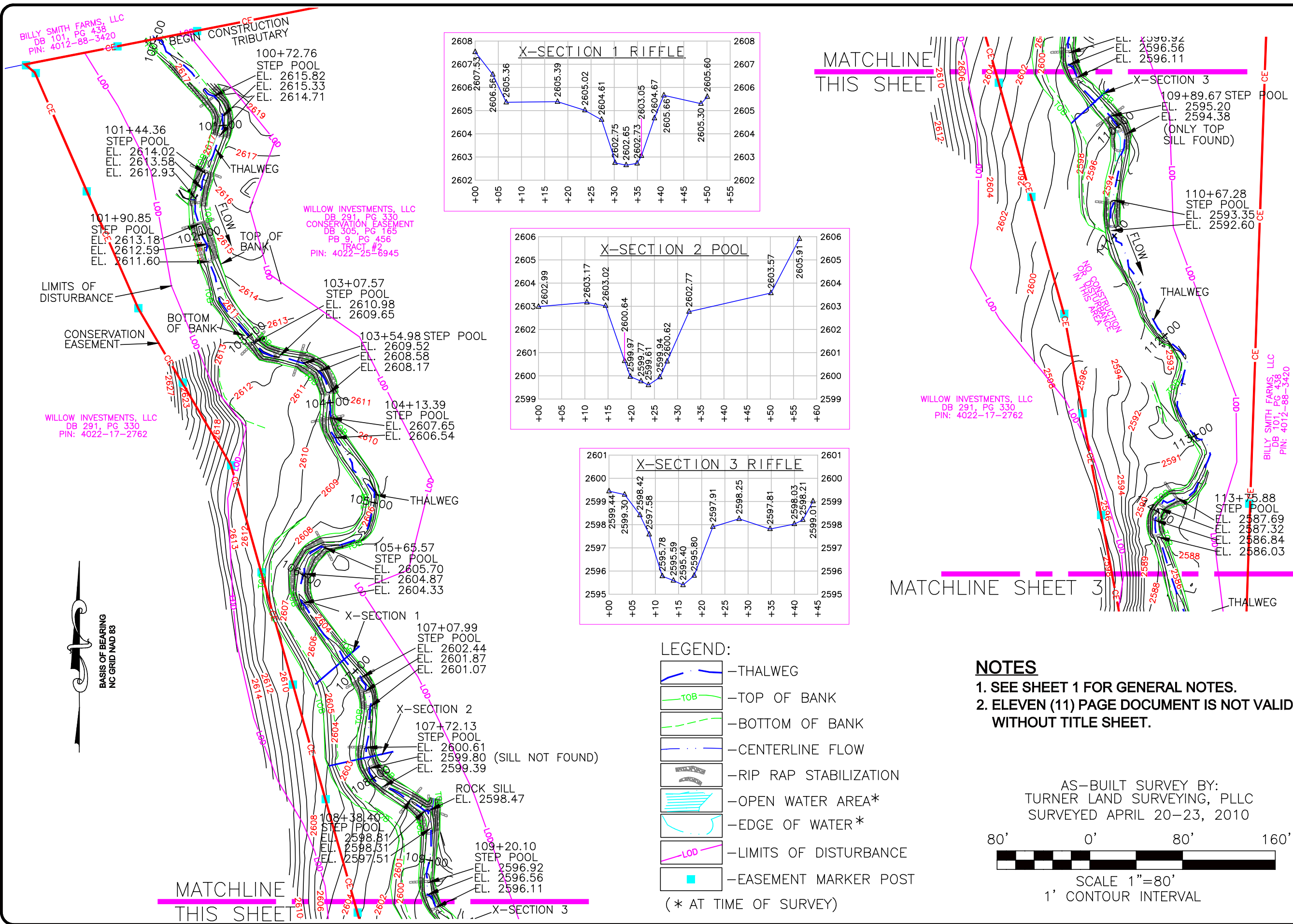
- SHEET 1 - TITLE
- SHEET 2 - SITE PLAN VIEW - SMALL TRIB
- SHEET 3 - SITE PLAN VIEW - MAIN STEM & SMALL TRIB
- SHEET 4 - SITE PLAN VIEW - MAIN STEM
- SHEET 5 - SITE PLAN VIEW - MAIN STEM
- SHEET 6 - SITE PLAN VIEW - WETLAND AREAS 5 & 6
- SHEET 7 - LONGITUDINAL PROFILE - SMALL TRIB
- SHEET 8 - LONGITUDINAL PROFILE - SMALL TRIB
- SHEET 9 - LONGITUDINAL PROFILE - MAIN STEM & SMALL TRIB
- SHEET 10 - LONGITUDINAL PROFILE - MAIN STEM
- SHEET 11 - STRUCTURE POINT TABLE

I, DAVID S. TURNER, CERTIFY THAT THESE PLANS WERE DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION AND THAT THE RATIO OF PRECISION AS CALCULATED IS 1: 10,000 +. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 30<sup>th</sup> DAY OF June, 2010.

*David S. Turner*  
DAVID S. TURNER, P.L.S. #L-4551

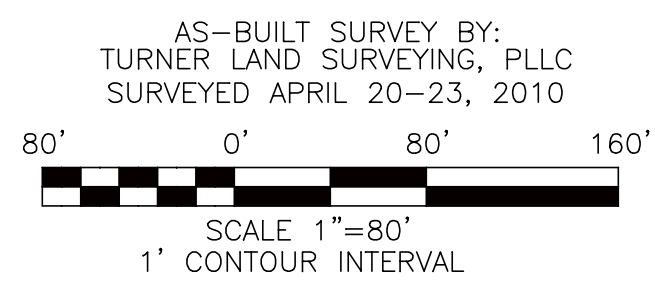


REVISIONS, DATE AND INITIAL:		TURNER LAND SURVEYING, PLLC 3201 Glenridge Drive, Raleigh, NC 27604 -- (919)785-1378 Lturner@tlr.com -- Dturner119@tlr.com www.TURNERLANDSURVEYING.COM
TITLE		NORTH CAROLINA ALLEGHANY COUNTY
AS-BUILT SURVEY OF UT TO CRAB CREEK STREAM & WETLAND RESTORATION SCO# 06-06784-01A		
DATE:	06/10/2010	
SURVEYED BY:	DST/EGT	
DRAWN BY:	DST/EGT	
REVIEWED BY:	DST	
PROJECT:	TLS-09-004	
FILE:	CRAB CREEK FINAL AS-BUILT.DWG	
SCALE:	NOT TO SCALE	
SHEET:	1 of 11	



- LEGEND:**
- THALWEG
  - TOP OF BANK
  - BOTTOM OF BANK
  - CENTERLINE FLOW
  - RIP RAP STABILIZATION
  - OPEN WATER AREA\*
  - EDGE OF WATER\*
  - LIMITS OF DISTURBANCE
  - EASEMENT MARKER POST
- (\* AT TIME OF SURVEY)

**NOTES**  
 1. SEE SHEET 1 FOR GENERAL NOTES.  
 2. ELEVEN (11) PAGE DOCUMENT IS NOT VALID WITHOUT TITLE SHEET.



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 Lturner@tncs.com - Dturner119@tncs.com  
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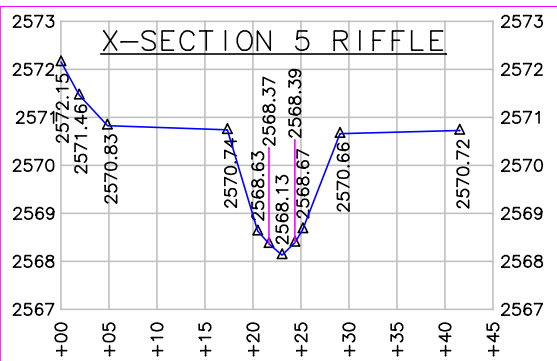
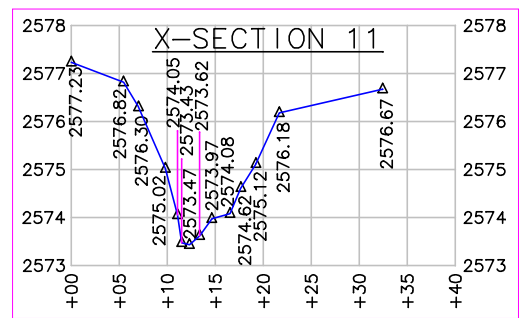
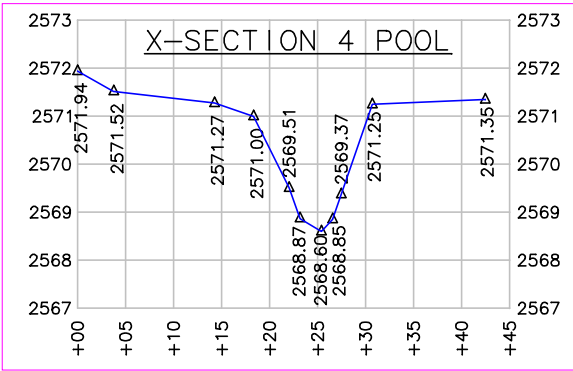
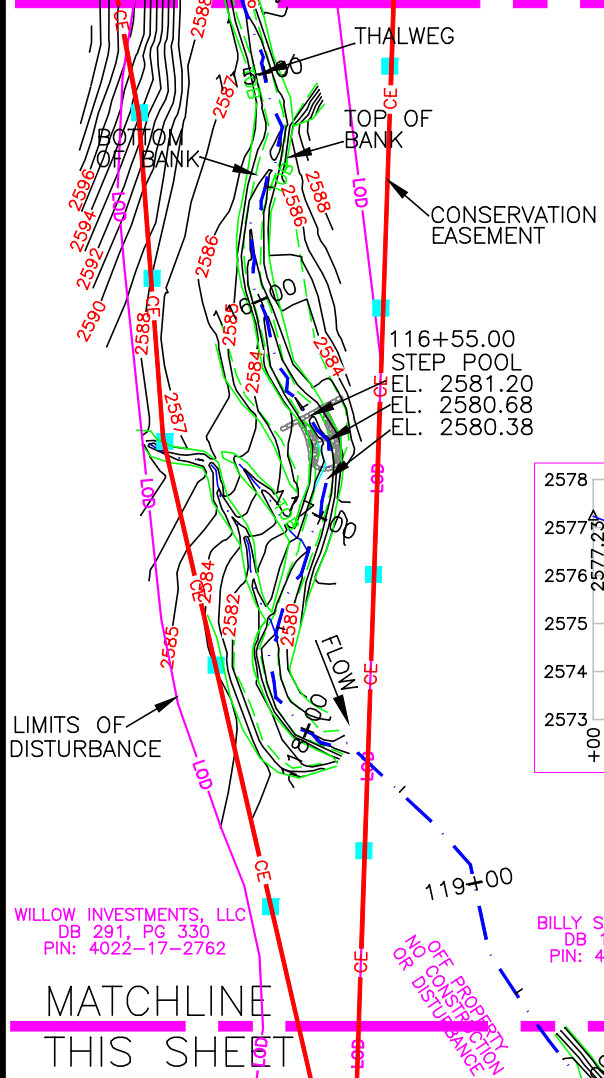
**PLAN VIEW**

**AS-BUILT SURVEY OF  
 UT TO CRAB CREEK STREAM & WETLAND RESTORATION**  
 SCO# 06-06784-01A

NORTH CAROLINA  
 ALLEGANY COUNTY

DATE: 06/10/2010  
 SURVEYED BY: DST/EGT  
 DRAWN BY: DST/EGT  
 REVIEWED BY: DST  
 PROJECT: TLS-09-004  
 FILE: CRAB CREEK FINAL AS-BUILT.DWG  
 SCALE: 1"=80'  
 SHEET: 2 of 11

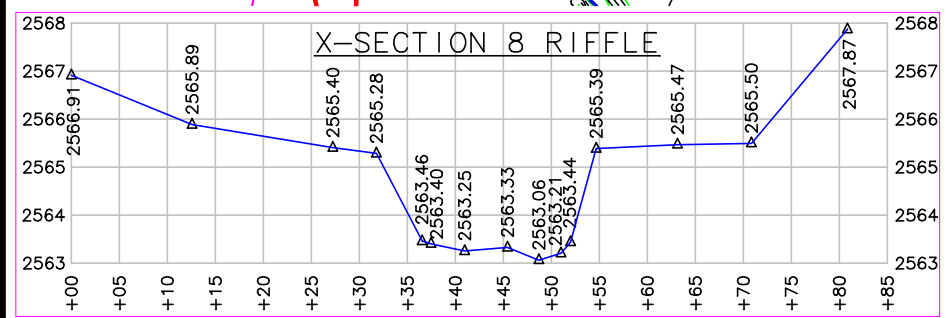
MATCHLINE SHEET 2



WILLOW INVESTMENTS, LLC  
DB 291, PG 330  
PIN: 4022-17-2762

BILLY SMITH FARMS, LLC  
DB 101, PG 438  
PIN: 4012-88-3420

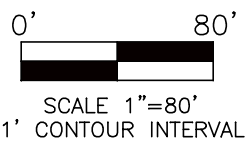
MATCHLINE THIS SHEET



**LEGEND:**

- THALWEG
- TOP OF BANK
- BOTTOM OF BANK
- CENTERLINE FLOW
- RIP RAP STABILIZATION
- OPEN WATER AREA\*
- EDGE OF WATER\*
- LIMITS OF DISTURBANCE
- EASEMENT MARKER POST

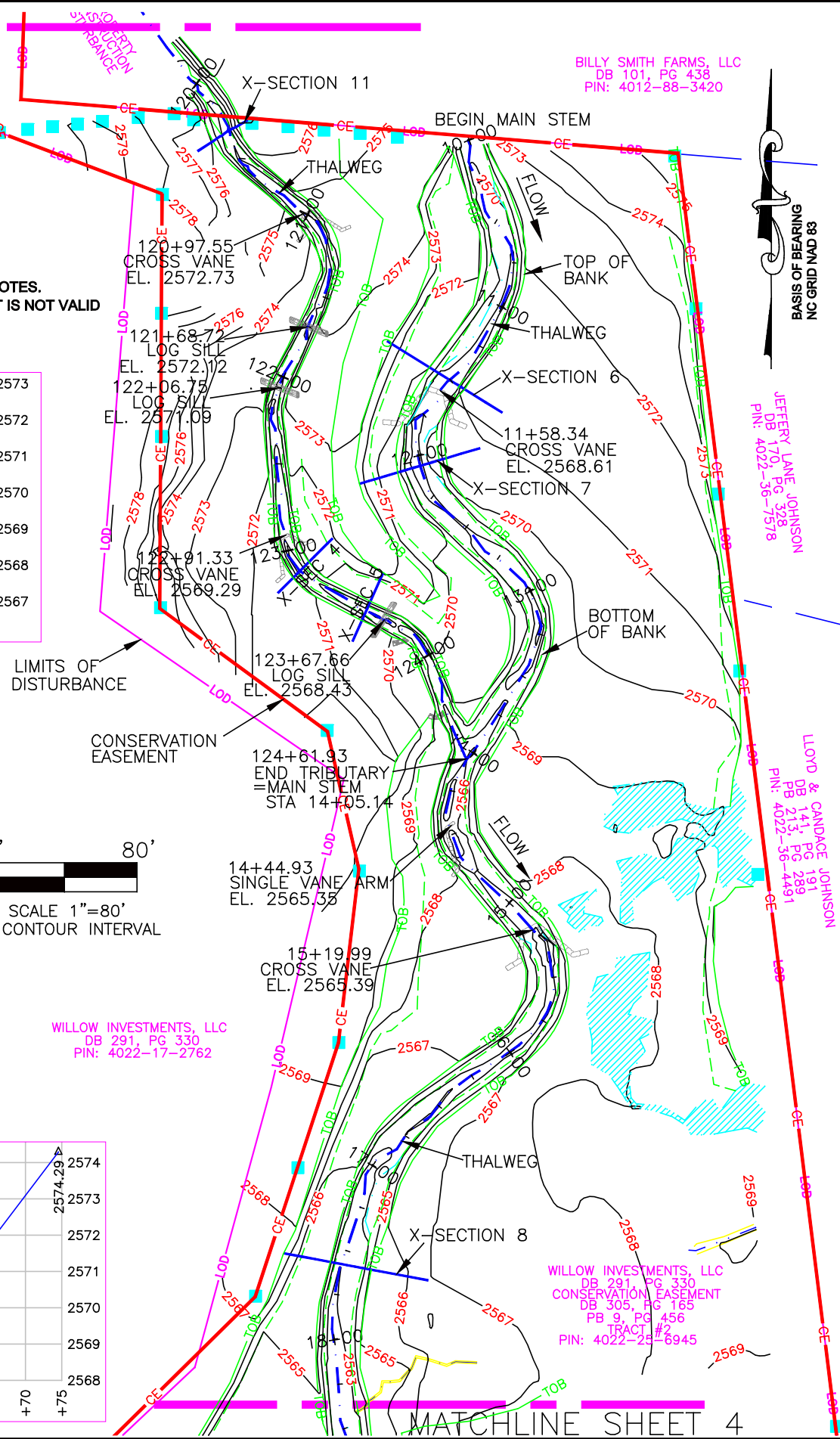
(\* AT TIME OF SURVEY)



WILLOW INVESTMENTS, LLC  
DB 291, PG 330  
PIN: 4022-17-2762

MATCHLINE THIS SHEET

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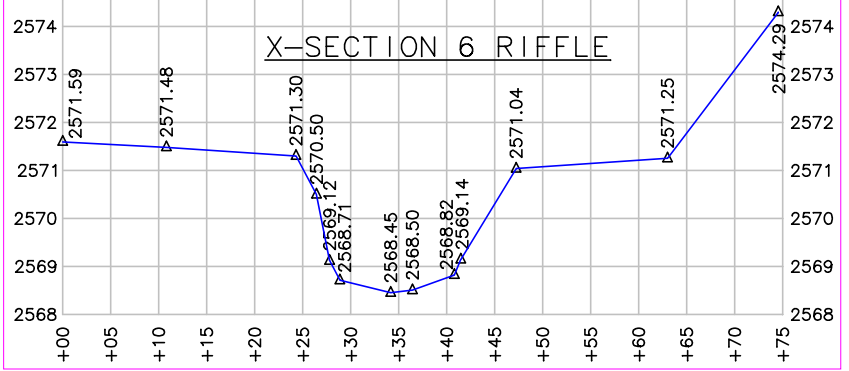
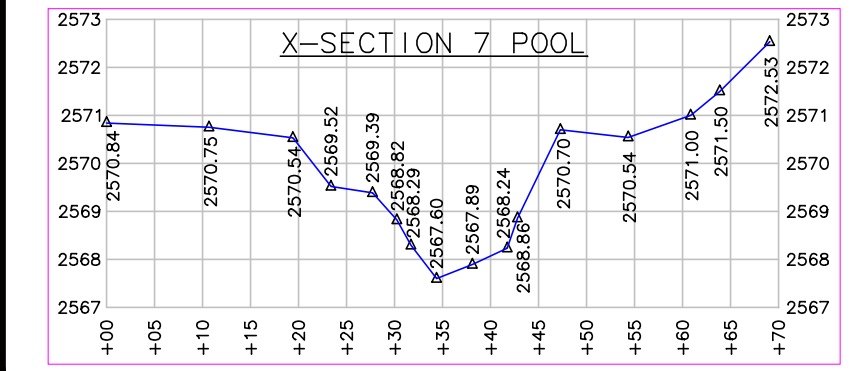
BILLY SMITH FARMS, LLC  
DB 101, PG 438  
PIN: 4012-88-3420



JEFFERY LANE JOHNSON  
DB 170, PG 298  
PIN: 4022-36-7578

LLOYD & CANDACE JOHNSON  
DB 141, PG 191  
PIN: 4022-36-4491

WILLOW INVESTMENTS, LLC  
DB 291, PG 330  
CONSERVATION EASEMENT  
DB 305, PG 165  
PB 9, PG 456  
TRACT #2  
PIN: 4022-25-6945



MATCHLINE THIS SHEET

MATCHLINE SHEET 4

REVISIONS, DATE AND INITIAL:








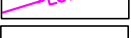
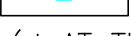
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Lturner@tncs.com - Dturner119@tncs.com  
WWW.TURNERLANDSURVEYING.COM

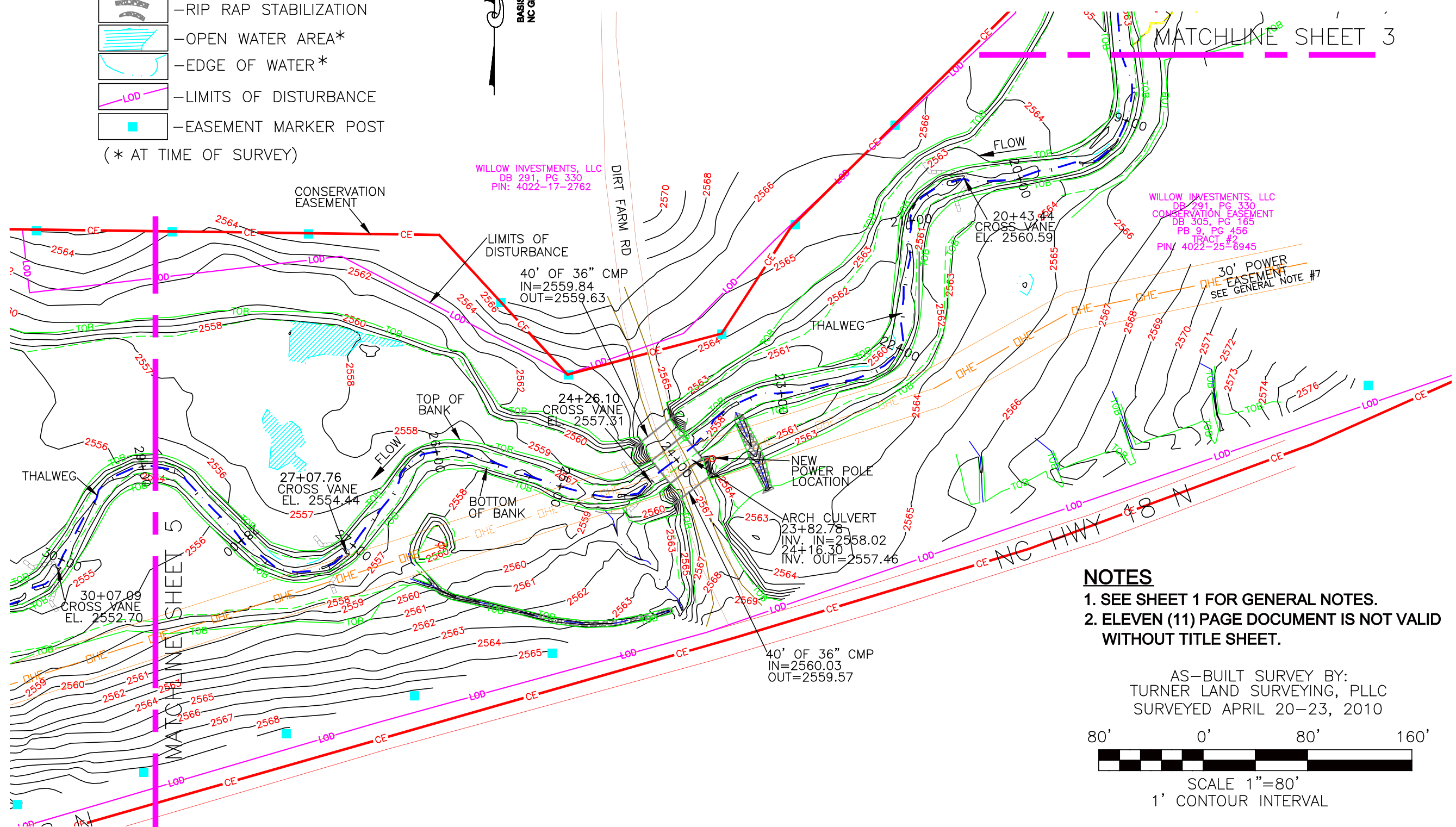


**PLAN VIEW**  
**AS-BUILT SURVEY OF**  
**UT TO CRAB CREEK STREAM & WETLAND RESTORATION**  
SCO# 06-06784-01A  
NORTH CAROLINA  
ALLEGANY COUNTY  
ENNICKE

DATE:	06/10/2010
SURVEYED BY:	DST/EGT
DRAWN BY:	DST/EGT
REVIEWED BY:	DST
PROJECT:	TLS-09-004
FILE:	CRAB CREEK FINAL AS-BUILT.DWG
SCALE:	1" = 80'
SHEET:	3 of 11

LEGEND:

-  - THALWEG
  -  - TOP OF BANK
  -  - BOTTOM OF BANK
  -  - CENTERLINE FLOW
  -  - RIP RAP STABILIZATION
  -  - OPEN WATER AREA\*
  -  - EDGE OF WATER\*
  -  - LIMITS OF DISTURBANCE
  -  - EASEMENT MARKER POST
- (\* AT TIME OF SURVEY)




**NOTES**

1. SEE SHEET 1 FOR GENERAL NOTES.
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AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APRIL 20-23, 2010

80' 0' 80' 160'



SCALE 1"=80'  
1' CONTOUR INTERVAL

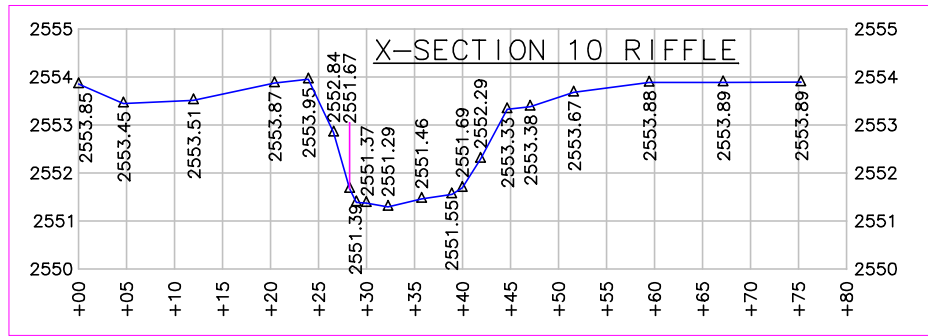
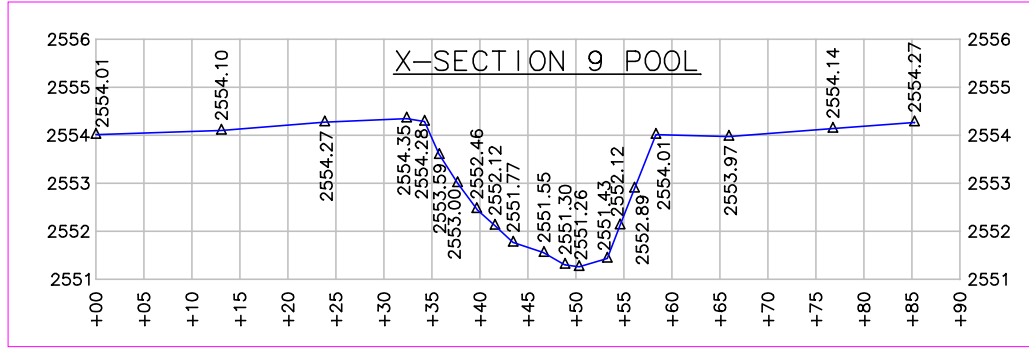
TURNER LAND SURVEYING, PLLC  
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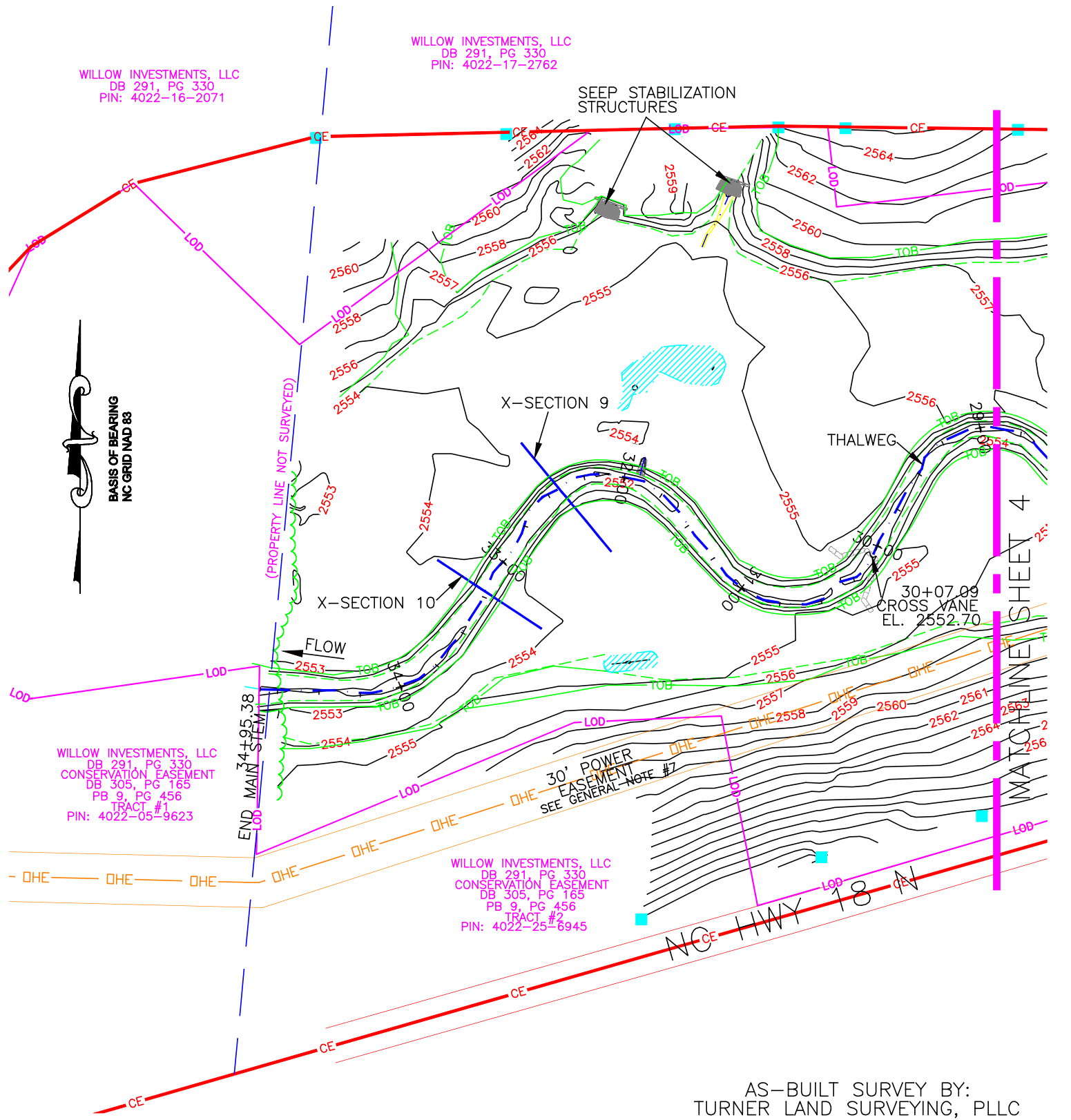
REVISIONS, DATE AND INITIAL:

PLAN VIEW  
AS-BUILT SURVEY OF  
UT TO CRAB CREEK STREAM & WETLAND RESTORATION  
SCO# 06-06784-01A  
NORTH CAROLINA  
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FILE:	CRAB CREEK FINAL AS-BUILT.DWG
SCALE:	1" = 80'
SHEET:	4 of 11

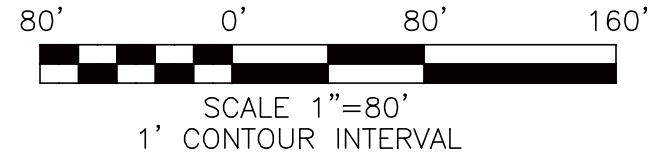


- LEGEND:**
- THALWEG
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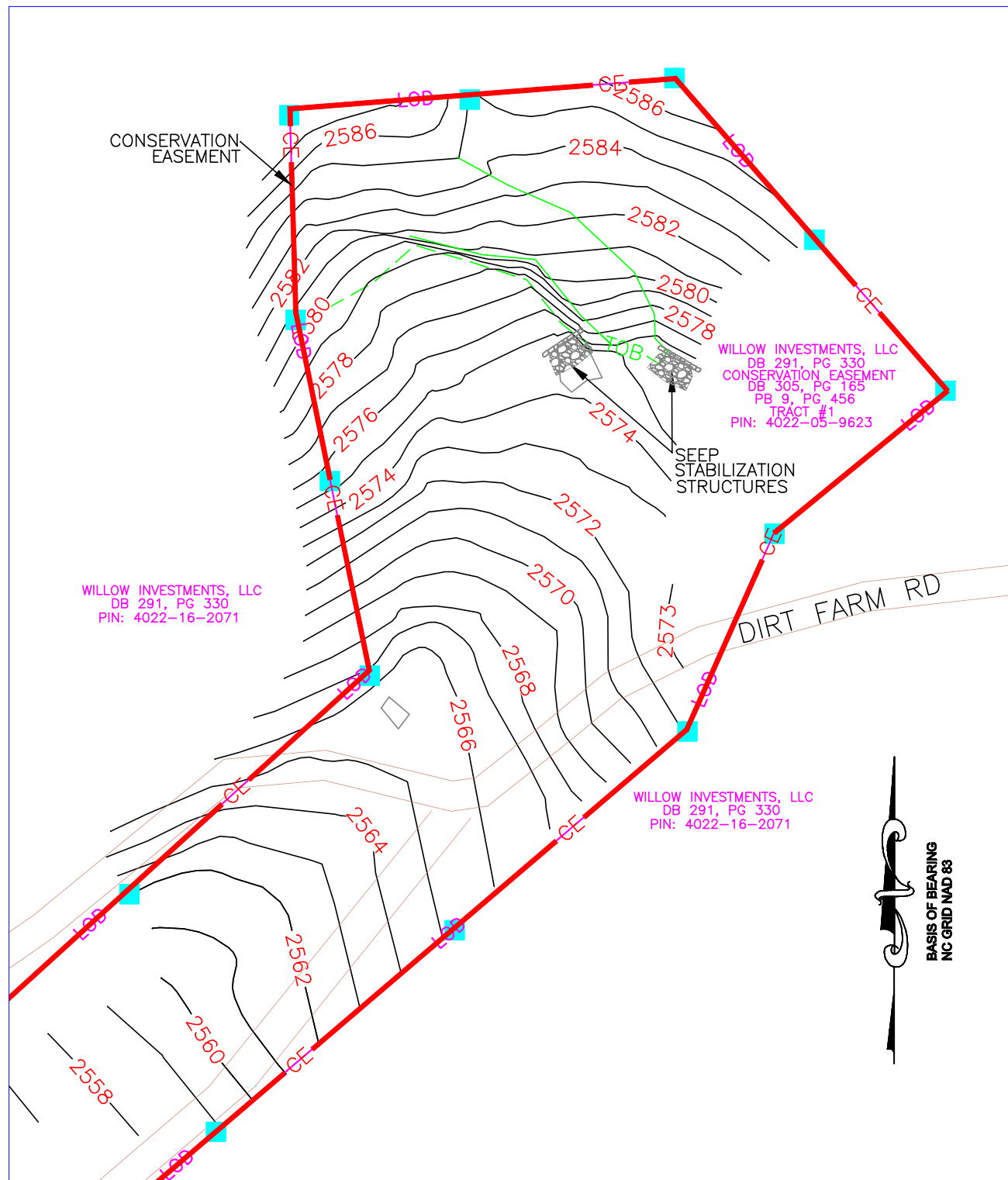
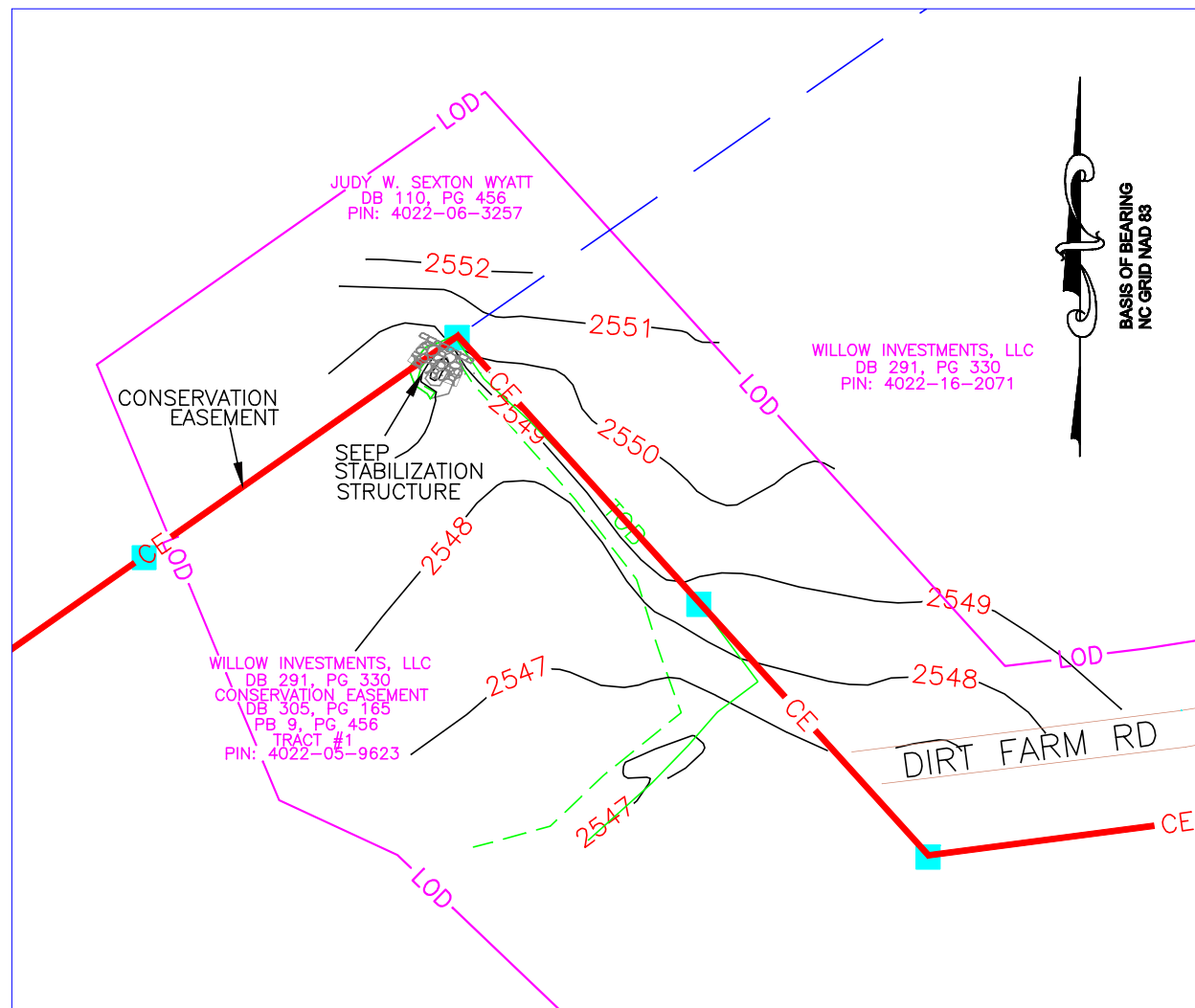
**PLAN VIEW**

**AS-BUILT SURVEY OF  
UT TO CRAB CREEK STREAM & WETLAND RESTORATION**  
SCO# 06-06784-01A

NORTH CAROLINA  
ALLEGANY COUNTY

DATE: 06/10/2010  
SURVEYED BY: DST/EGT  
DRAWN BY: DST/EGT  
REVIEWED BY: DST  
PROJECT: TLS-09-004  
FILE: CRAB CREEK FINAL AS-BUILT.DWG  
SCALE: 1"=80'  
SHEET: 5 of 11

# WETLAND AREAS 5 & 6



**LEGEND:**

- THALWEG
- TOP OF BANK
- BOTTOM OF BANK
- CENTERLINE FLOW
- RIP RAP STABILIZATION
- OPEN WATER AREA\*
- EDGE OF WATER\*
- LIMITS OF DISTURBANCE
- EASEMENT MARKER POST

(\* AT TIME OF SURVEY)

**NOTES**

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SURVEYED APRIL 20-23, 2010



SCALE 1"=50'  
1' CONTOUR INTERVAL

REVISIONS, DATE AND INITIAL:

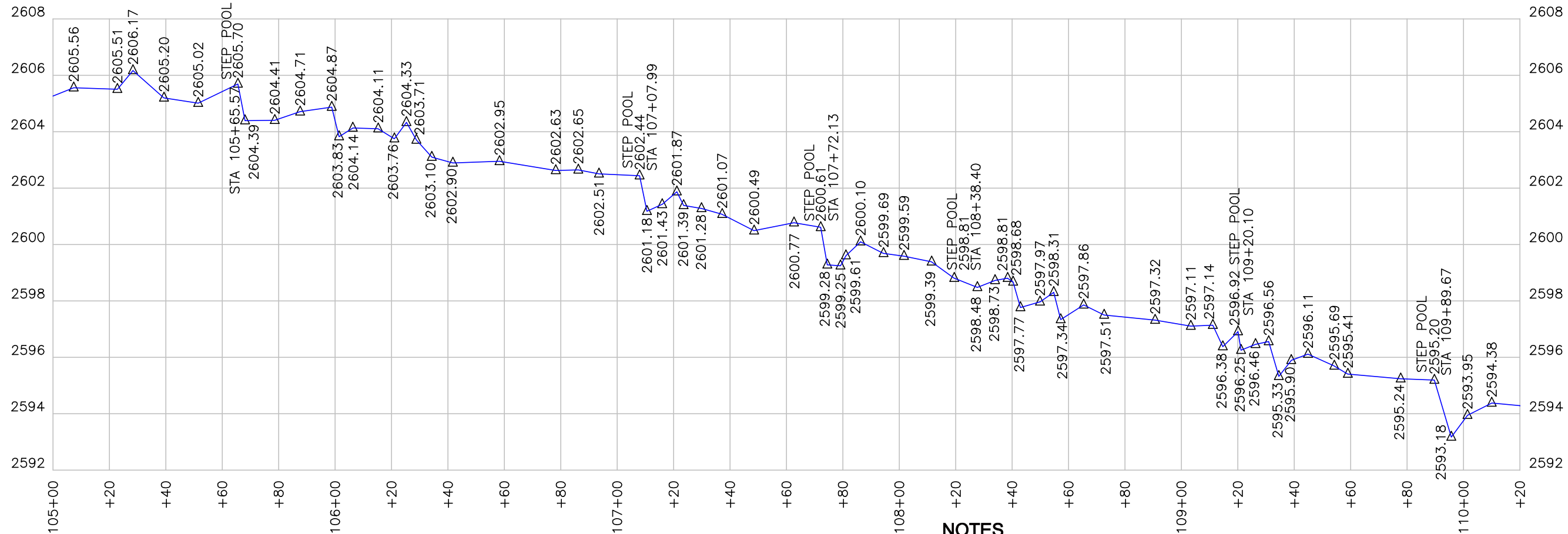
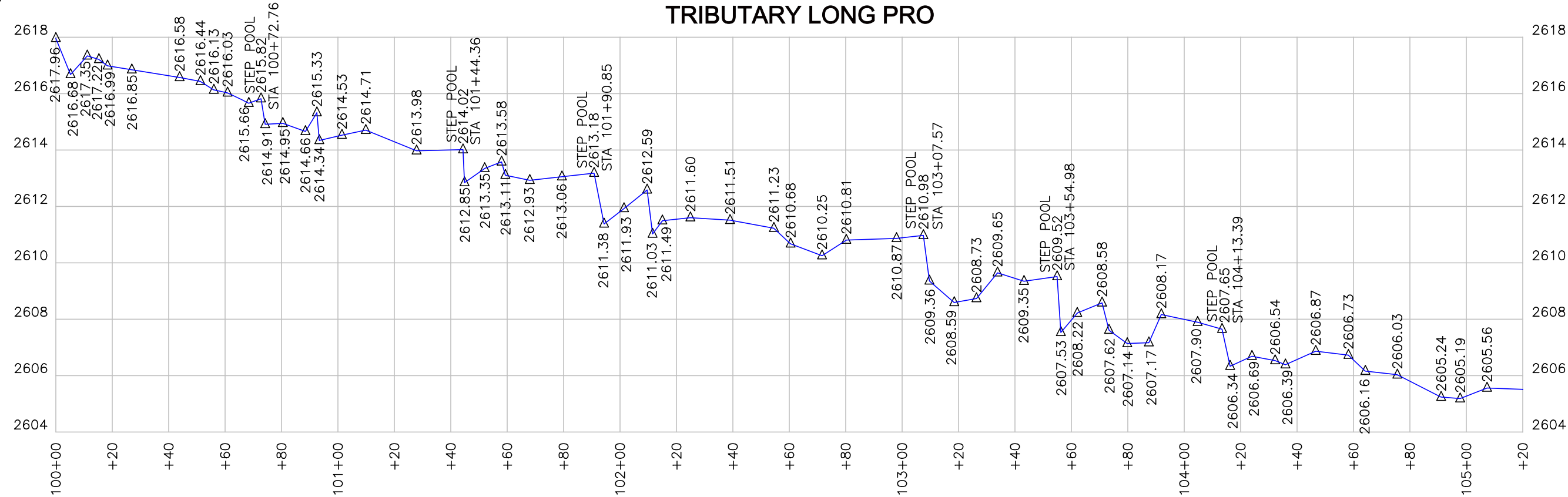
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Lturner@tncs.com - Dturner119@tncs.com  
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**PLAN VIEW**  
**AS-BUILT SURVEY OF**  
**UT TO CRAB CREEK STREAM & WETLAND RESTORATION**  
SCO# 06-06784-01A  
NORTH CAROLINA  
ALLEGANY COUNTY  
ENRICE

DATE:	06/10/2010
SURVEYED BY:	DST/EGT
DRAWN BY:	DST/EGT
REVIEWED BY:	DST
PROJECT:	TLS-09-004
FILE:	CRAB CREEK FINAL AS-BUILT.DWG
SCALE:	1" = 50'
SHEET:	6 of 11

# TRIBUTARY LONG PRO



### NOTES

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AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APRIL 20-23, 2010

REVISIONS, DATE AND INITIAL:

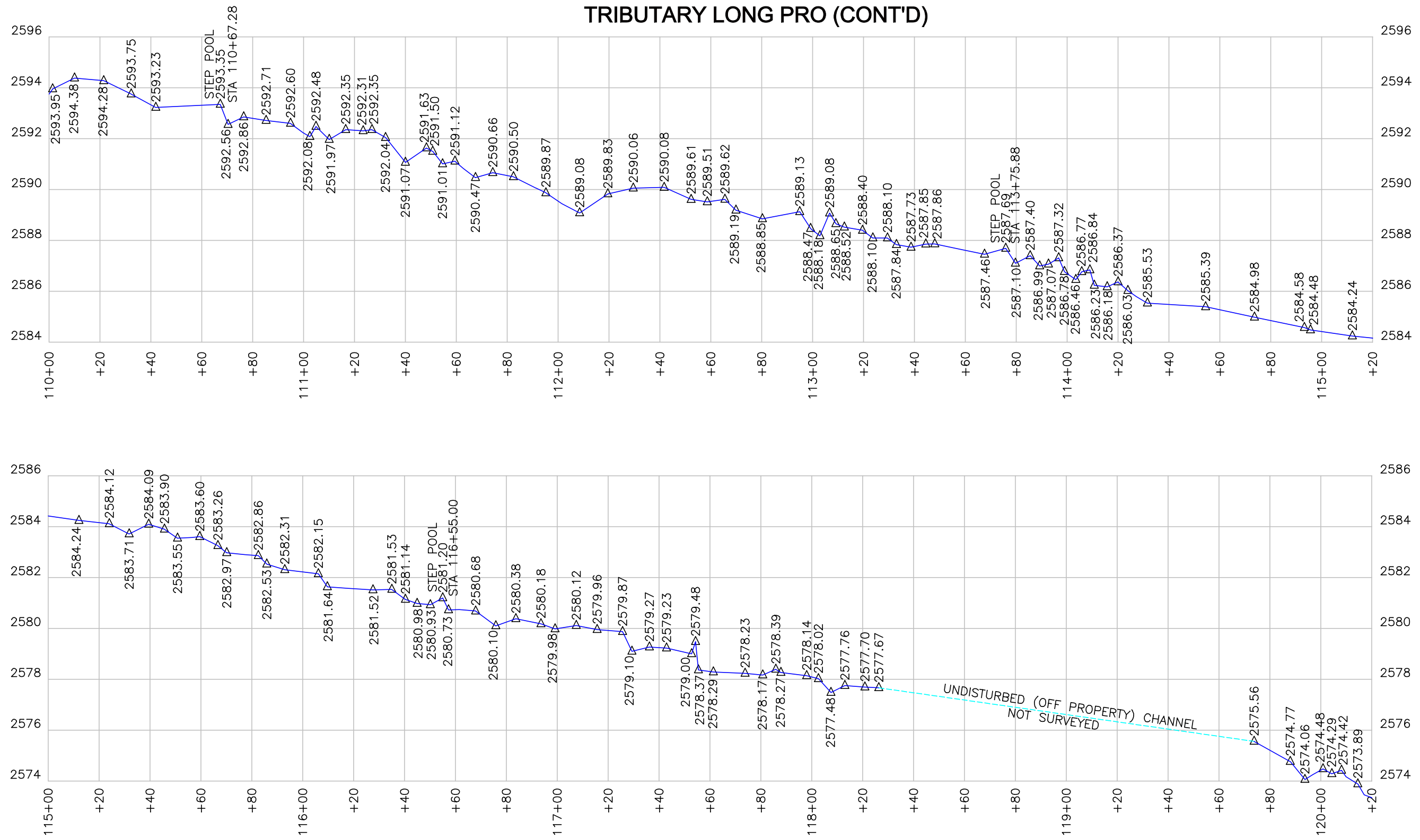
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**TRIBUTARY - LONGITUDINAL PROFILE**

**AS-BUILT SURVEY OF  
UT TO CRAB CREEK STREAM & WETLAND RESTORATION  
SCO# 06-06784-01A**

ENRICE  
ALLEGHANY COUNTY  
NORTH CAROLINA


DATE:	06/10/2010
SURVEYED BY:	DST/EGT
DRAWN BY:	DST/EGT
REVIEWED BY:	DST
PROJECT:	TLS-09-004
FILE:	CRAB CREEK FINAL AS-BUILT.DWG
SCALE:	NOT TO SCALE



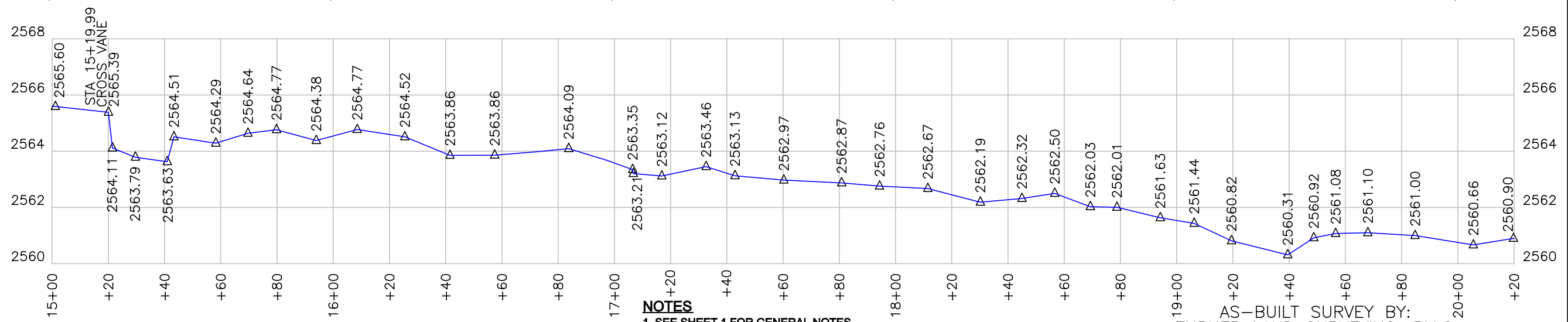
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SURVEYED APRIL 20-23, 2010

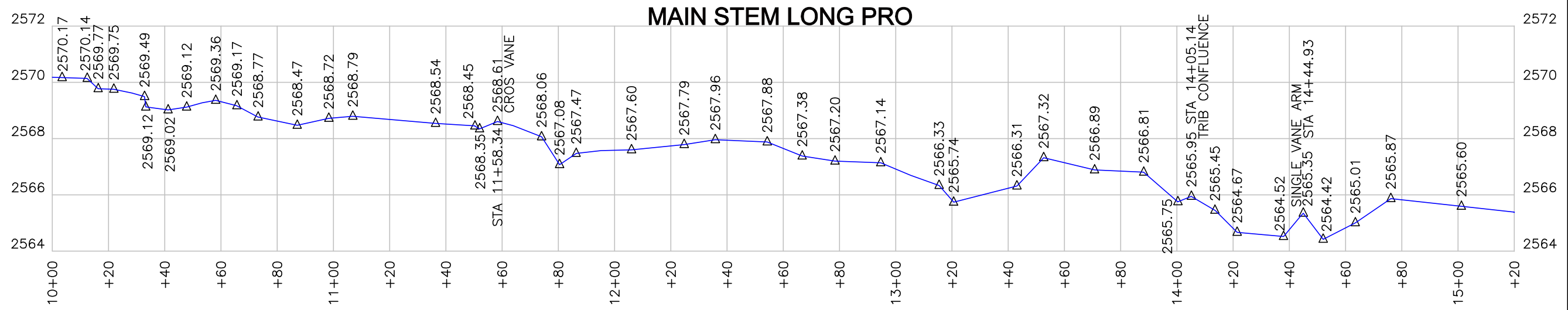
REVISIONS, DATE AND INITIAL:	
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<b>TRIBUTARY - LONGITUDINAL PROFILE</b> <b>AS-BUILT SURVEY OF</b> <b>UT TO CRAB CREEK STREAM &amp; WETLAND RESTORATION</b> <b>SCO# 06-06784-01A</b> ENNICE ALLEGANY COUNTY NORTH CAROLINA	
DATE:	06/10/2010
SURVEYED BY:	DST/EGT
DRAWN BY:	DST/EGT
REVIEWED BY:	DST
PROJECT:	TLS-09-004
FILE:	CRAB CREEK FINAL AS-BUILT.DWG
SCALE:	NOT TO SCALE
SHEET: <b>8 of 11</b>	



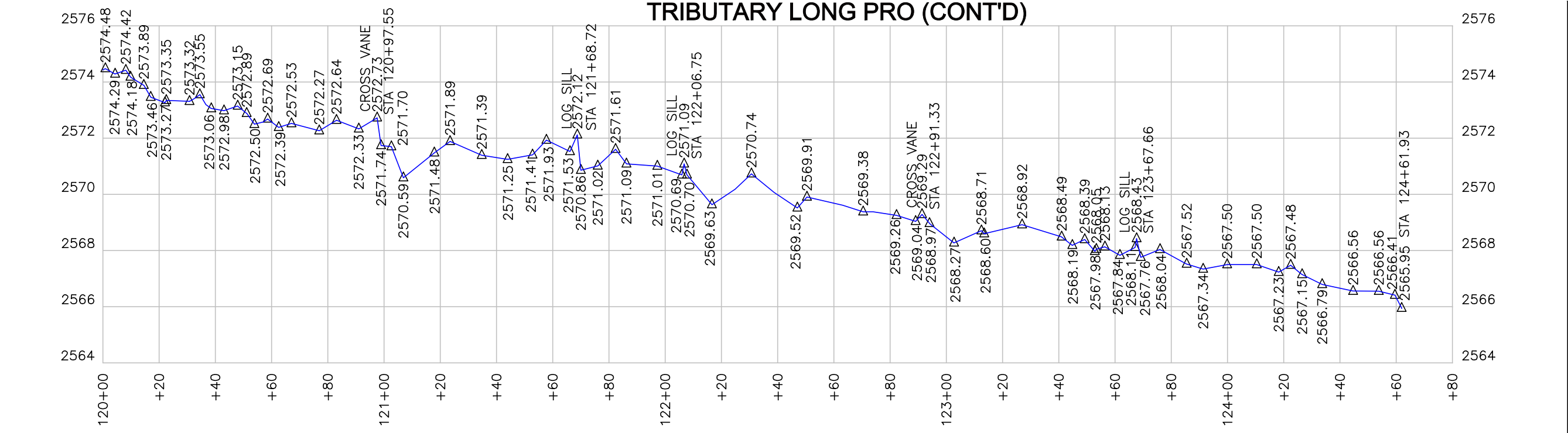


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AS-BUILT SURVEY BY:  
 TURNER LAND SURVEYING, PLLC  
 SURVEYED APRIL 20-23, 2010



**MAIN STEM LONG PRO**



**TRIBUTARY LONG PRO (CONT'D)**

REVISIONS, DATE AND INITIAL:

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 Lturner@tnc.sr.com - Dturner119@tnc.sr.com  
 WWW.TURNERLANDSURVEYING.COM

**MAIN STEM - LONGITUDINAL PROFILE**

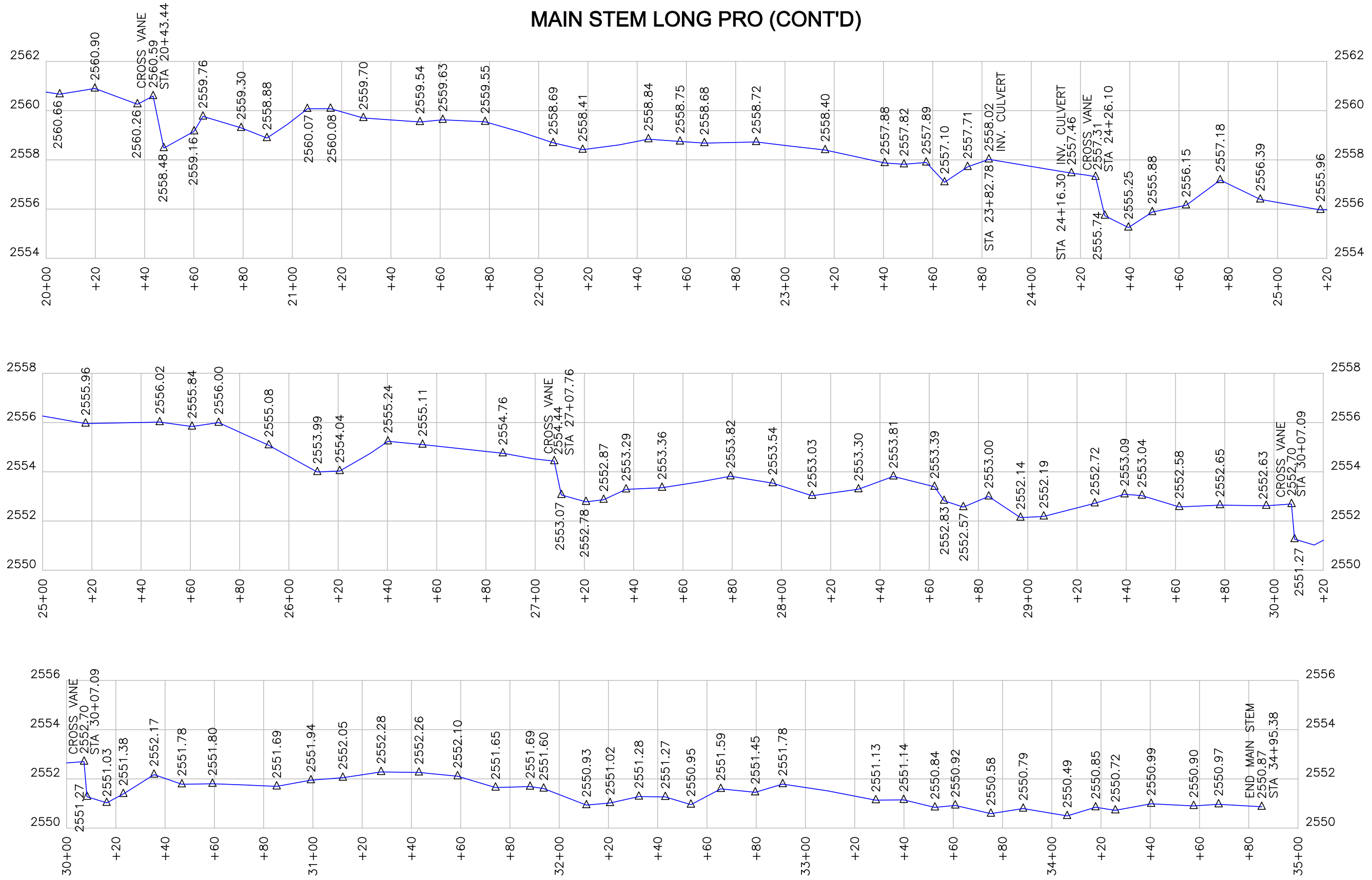
**AS-BUILT SURVEY OF  
 UT TO CRAB CREEK STREAM & WETLAND RESTORATION  
 SCO# 06-06784-01A**

ENNVIC ALLEGHANY COUNTY NORTH CAROLINA

DATE: 06/10/2010  
 SURVEYED BY: DST/EGT  
 DRAWN BY: DST/EGT  
 REVIEWED BY: DST  
 PROJECT: TLS-09-004  
 FILE: CRAB CREEK FINAL AS-BUILT.DWG  
 SCALE: NOT TO SCALE

SHEET: **9 of 11**

### MAIN STEM LONG PRO (CONT'D)

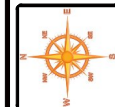


#### NOTES

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AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APRIL 20-23, 2010

REVISIONS, DATE AND INITIAL:



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 Lturner@tlsc.com - Dturner119@tlsc.com  
 www.TURNERLANDSURVEYING.com

### MAIN STEM - LONGITUDINAL PROFILE

**AS-BUILT SURVEY OF  
 UT TO CRAB CREEK STREAM & WETLAND RESTORATION  
 SCO# 06-06784-01A**

ALLEGANY COUNTY      NORTH CAROLINA  
 ENNICE

DATE:	06/10/2010
SURVEYED BY:	DST/EGT
DRAWN BY:	DST/EGT
REVIEWED BY:	DST
PROJECT:	TLS-09-004
FILE:	CRAB CREEK FINAL AS-BUILT.DWG
SCALE:	NOT TO SCALE
SHEET:	<b>10 of 11</b>

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	STRUCTURE #
1216	1028624.9643	1422606.4586	2615.82	TW/RS	TRIBUTARY STEP POOL 1
1222	1028607.2108	1422613.5467	2615.33	TW/RS	
1227	1028590.4341	1422611.1613	2614.71	TW/RF	
1234	1028558.3151	1422598.6776	2614.02	TW/RS	TRIBUTARY STEP POOL 2
1238	1028545.1222	1422595.8207	2613.58	TW/RS	
1242	1028536.8258	1422590.2809	2612.93	TW/RF	
1252	1028514.5093	1422593.4060	2613.18	TW/RS	TRIBUTARY STEP POOL 3
1257	1028497.0886	1422599.9612	2612.59	TW/RS	
1262	1028482.4430	1422602.0187	2611.60	TW/RF	
1277	1028412.1411	1422641.2430	2610.98	TW/RS	TRIBUTARY STEP POOL 4
1285	1028400.4511	1422663.1176	2609.65	TW/RF	
1291	1028394.4046	1422683.3923	2609.52	TW/RS	TRIBUTARY STEP POOL 5
1294	1028387.5129	1422696.9876	2608.58	TW/RS	
1300	1028368.6639	1422705.6676	2608.17	TW/RF	
1304	1028347.2289	1422707.0195	2607.65	TW/RS	TRIBUTARY STEP POOL 6
1311	1028329.8882	1422710.9862	2606.54	TW/RF	
1341	1028235.6642	1422701.1710	2605.70	TW/RS	TRIBUTARY STEP POOL 7
1352	1028212.7652	1422684.1965	2604.87	TW/RS	
1372	1028187.7165	1422682.6270	2604.33	TW/RF	
1385	1028123.2797	1422733.5426	2602.44	TW/RS	TRIBUTARY STEP POOL 8
1390	1028111.5121	1422736.7255	2601.87	TW/RS	
1395	1028097.7849	1422741.0698	2601.07	TW/RF	
1400	1028063.1417	1422737.4171	2600.61	TW/RS	
1412	1028028.8625	1422751.7725	2599.39	TW/RF	TRIBUTARY STEP POOL 9
1418	1028018.7159	1422776.0444	2598.81	TW/RS	
1424	1028008.3493	1422788.2254	2598.31	TW/RS	
1431	1027993.1815	1422793.3759	2597.51	TW/RF	TRIBUTARY STEP POOL 10
1442	1027946.2561	1422791.0664	2596.92	TW/RS	
1445	1027935.8953	1422790.4839	2596.56	TW/RS	
1450	1027924.9648	1422797.6429	2596.11	TW/RF	TRIBUTARY STEP POOL 11
1460	1027891.4352	1422826.5366	2595.20	TW/RS	
1578	1027875.4955	1422839.1255	2594.38	TW/RF	TRIBUTARY STEP POOL 12
1595	1027819.6319	1422828.3030	2593.35	TW/RS	TRIBUTARY STEP POOL 13
1603	1027792.7390	1422827.2700	2592.60	TW/RF	
1797	1027562.9642	1422883.5788	2587.69	TW/RS	TRIBUTARY STEP POOL 14
1808	1027553.2702	1422868.9681	2587.32	TW/RS	
1816	1027543.1811	1422864.8108	2586.84	TW/RS	
1820	1027528.8698	1422867.6680	2586.03	TW/RF	
1877	1027313.8163	1422909.7218	2581.20	TW/RS	
1882	1027303.6419	1422917.3965	2580.68	TW	TRIBUTARY STEP POOL 15
1889	1027287.9387	1422916.8514	2580.38	TW	

**NOTES**

- SEE SHEET 1 FOR GENERAL NOTES.
- ELEVEN (11) PAGE DOCUMENT IS NOT VALID WITHOUT TITLE SHEET.

AS-BUILT SURVEY BY:  
TURNER LAND SURVEYING, PLLC  
SURVEYED APRIL 20-23, 2010

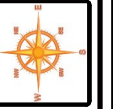
10466	1026949.4558	1423086.7771	2574.10	TBR/XV	TRIBUTARY CROSS VANE 16
10498	1026961.6449	1423083.9098	2572.73	TW/XV	
10501	1026958.5756	1423093.3163	2573.42	BBL/XV	
10642	1026952.2554	1423098.7527	2574.48	XV	TRIBUTARY LOG SILL 17
10517	1026898.4942	1423089.9632	2572.20	BBL/LS	
10518	1026901.7364	1423083.9346	2572.20	BBR/LS	
10520	1026899.7498	1423086.9648	2572.12	TW/LS	TRIBUTARY LOG SILL 18
10529	1026866.0962	1423070.6710	2571.09	TW/LS	
10530	1026869.0401	1423068.1258	2571.32	BBR/LS	
10531	1026866.0505	1423074.1754	2571.31	BBL/LS	TRIBUTARY CROSS VANE 19
10552	1026784.8851	1423075.0180	2569.29	TW/XV	
10553	1026770.1873	1423075.9480	2570.98	XV	
10554	1026776.9093	1423081.7558	2570.34	XV	TRIBUTARY LOG SILL 20
10559	1026772.5550	1423073.7487	2570.97	BBR/XV	
10577	1026738.2246	1423129.1468	2568.43	TW/LS	
10580	1026735.1722	1423126.1253	2568.62	BBR/LS	MAIN STEM CROSS VANE 1
10581	1026741.0481	1423130.0715	2568.58	BBL/LS	
10712	1026846.4718	1423139.2560	2570.85	TBR/XV	
10732	1026851.9957	1423163.8477	2570.59	TBL/XV	MAIN STEM CROSS VANE 2
10788	1026864.5720	1423159.6449	2568.61	TW/XV	
10795	1026846.2716	1423141.4279	2570.93	XV	
10799	1026845.9153	1423155.3036	2568.92	XV	MAIN STEM CROSS VANE 3
11394	1026624.7859	1423164.8085	2565.35	TW/SAV	
11457	1026600.4934	1423170.3925	2567.59	SAV	
12617	1026600.8118	1423169.4844	2567.52	SINGLE ARM VANE	MAIN STEM CROSS VANE 4
12618	1026606.1123	1423167.9438	2566.95	SINGLE ARM VANE	
12619	1026608.9788	1423166.8704	2566.49	SINGLE ARM VANE	
12620	1026613.3284	1423166.0287	2566.33	SINGLE ARM VANE	
11469	1026567.3698	1423210.9937	2565.39	TW/XV	MAIN STEM CROSS VANE 5
11471	1026554.7440	1423209.7874	2566.12	XV	
11475	1026559.0939	1423224.8397	2567.07	XV	
11299	1026202.3097	1422966.1934	2562.75	TBR/XV	MAIN STEM CROSS VANE 6
2523	1026180.8651	1422976.1330	2562.80	TBL/XV	
2607	1026199.1644	1422985.5227	2560.59	TW/XV	
12299	1025967.4056	1422745.1966	2557.31	TW/XV	MAIN STEM CROSS VANE 7
12301	1025966.3025	1422729.2784	2557.99	XV	
12307	1025952.3141	1422729.2290	2559.29	XV	
2287	1025912.8698	1422512.0160	2554.44	TW/XV	MAIN STEM CROSS VANE 6
2338	1025901.2519	1422290.5238	2552.70	TW/XV	MAIN STEM CROSS VANE 7

**LEGEND:**

- TW – THALWEG
- XV – CROSS VANE
- LS – LOG SILL
- RF – RIFFLE
- SAV – SINGLE ARM VANE
- TBR – TOP OF BANK RIGHT
- TBL – TOB OF BANK LEFT
- BBR – BOTTOM OF BANK RIGHT
- BBL – BOTTOM OF BANK LEFT

REVISIONS, DATE AND INITIAL:

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NORTH CAROLINA

ALLEGHANY COUNTY

ENHANCE

**STRUCTURE POINT TABLE**

**AS-BUILT SURVEY OF  
UT TO CRAB CREEK STREAM & WETLAND RESTORATION  
SCO# 06-06784-01A**

DATE: 06/10/2010

SURVEYED BY: DST/EGT

DRAWN BY: DST/EGT

REVIEWED BY: DST

PROJECT: TLS-09-004

FILE: CRAB CREEK  
FINAL AS-BUILT.DWG

SCALE: NOT TO SCALE

SHEET:

**11 of 11**