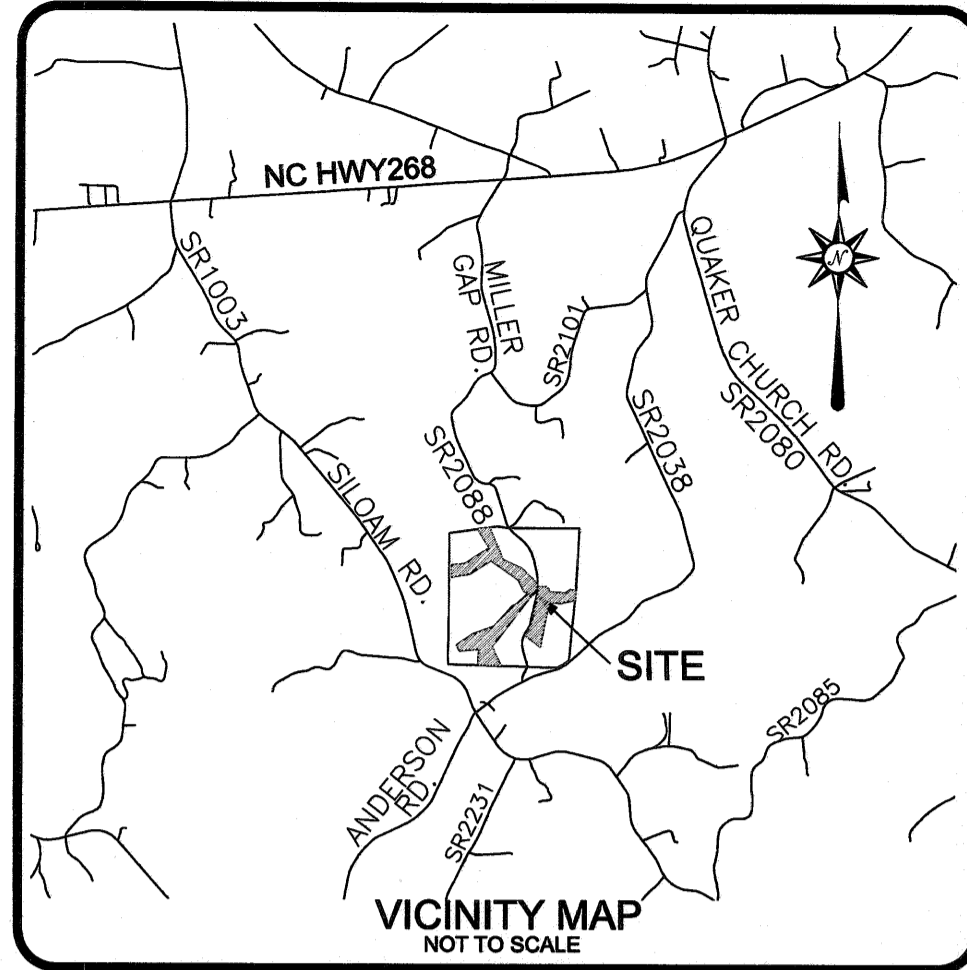


AS-BUILT SURVEY OF HOGAN CREEK RESTORATION PROJECT

SURRY COUNTY, NC
SCO PROJECT #090856601
EEP PROJECT ID #94708



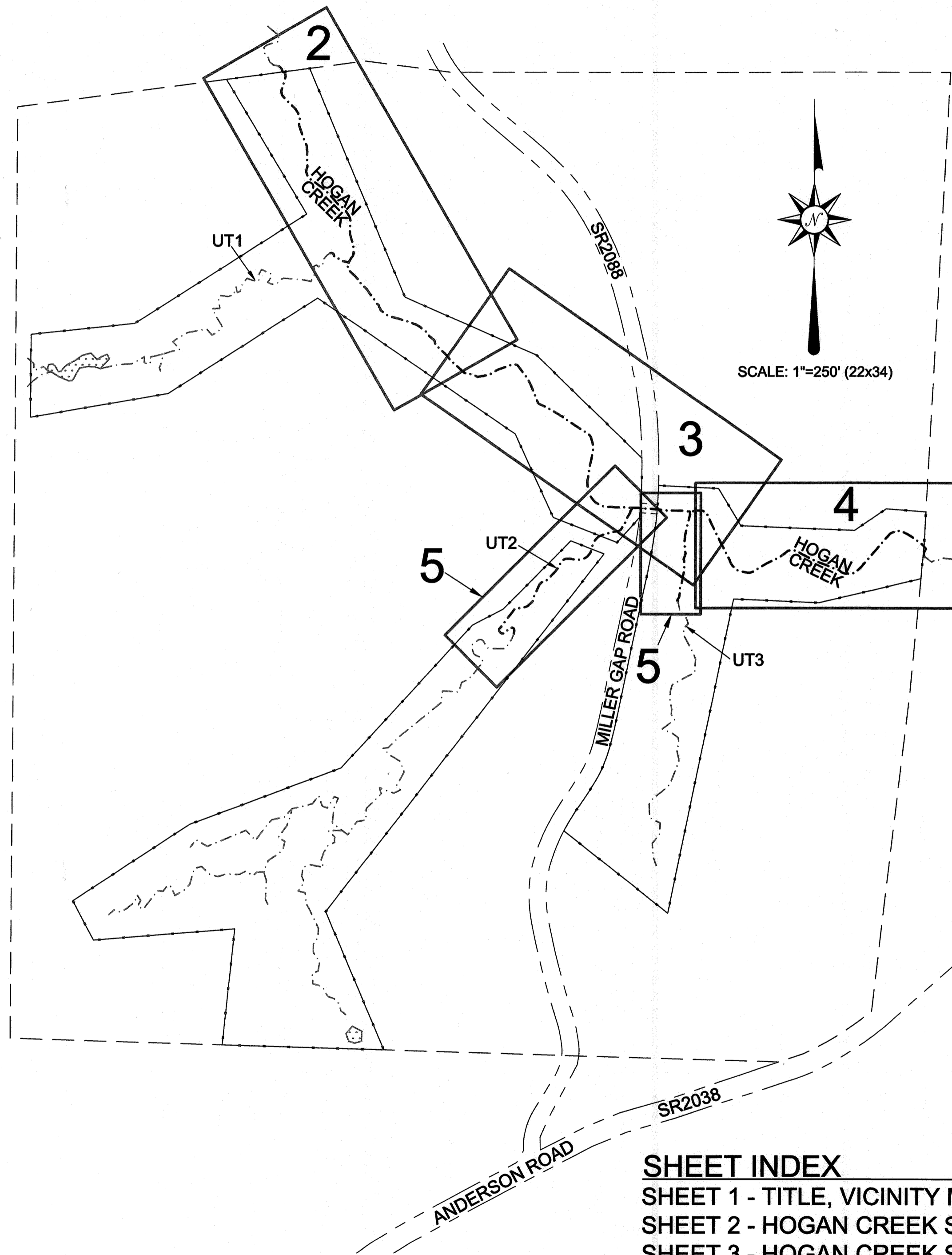
I, DAVID S. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THIS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 28th DAY OF JANUARY, 2015.

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 NAVD88.
 3. THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
 4. CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET P8 OF 30 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
 5. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
 6. THE SOLE PURPOSE OF THIS SURVEY IS TO SHOW THE CONSTRUCTED STREAM AND GRADING RELATED TO THE HOGAN CREEK STREAM RESTORATION PROJECT.
 7. INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS TAKEN FROM THE EXISTING CONDITIONS & DESIGN DATA PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
 8. REFER TO NCEEP HOGAN CREEK STREAM MITIGATION DOCUMENTS AND PLANS FOR BOUNDARY & OWNER INFORMATION.

PT#	Northing(Y)	Eastng(X)	Elev(Z)	Description
4	941264.42	1527067.66	998.41	EX. CONTROL#4 NAIL
11	940165.20	1527985.18	994.83	EX. CONTROL#11 PK NAIL
17	940075.78	1526150.46	985.34	EX. CONTROL#17 NAIL
24	941025.46	1527131.51	996.11	TLS#24 NAIL
25	940896.91	1527175.55	995.76	TLS#25 NAIL
26	940679.88	1527421.09	993.54	TLS#26 NAIL
27	940428.02	1527814.04	989.49	TLS#27 NAIL
29	940188.82	1527982.11	993.96	TLS#29 NAIL
30	940421.42	1527884.16	989.31	TLS#30 REBAR W/CAP
32	939853.05	1527609.65	998.41	TLS#32 NAIL



SHEET INDEX

- SHEET 1 - TITLE, VICINITY MAP, AND SHEET INDEX
- SHEET 2 - HOGAN CREEK STA. 10+00 TO 21+00 AND UT1
- SHEET 3 - HOGAN CREEK STA. 21+00 TO 32+00
- SHEET 4 - HOGAN CREEK STA. 32+00 TO 40+30
AND CROSS SECTIONS 1-4
- SHEET 5 - UT2, UT3, AND CROSS SECTIONS 5-8
- SHEET 6 - FEMA CROSS SECTION PLAN VIEW & FXS1-FXS4
- SHEET 7 - FEMA CROSS SECTIONS FXS5-FXS10

REFERENCES:
OWNER:
NORTH CAROLINA ECOSYSTEM
ENHANCEMENT PROGRAM
217 WEST JONES ST., SUITE 3000A
RALEIGH, NC 27603
(919)707-8976
EEP PROJ. MANAGER: JULIE CAHILL

CONTRACTOR:
CAROLINA ENVIRONMENTAL
CONTRACTING, INC.
MOUNT AIRY, NC
(336)320-3849

DESIGNER:
CONFLUENCE ENGINEERING, PC
ASHEVILLE, NC
(828)255-5530

REVISIONS, DATE AND INITIAL:

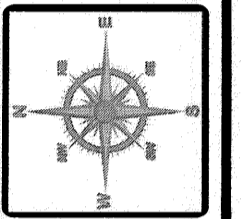
TITLE, VICINITY MAP, & SHEET INDEX

HOGAN CREEK RESTORATION PROJECT

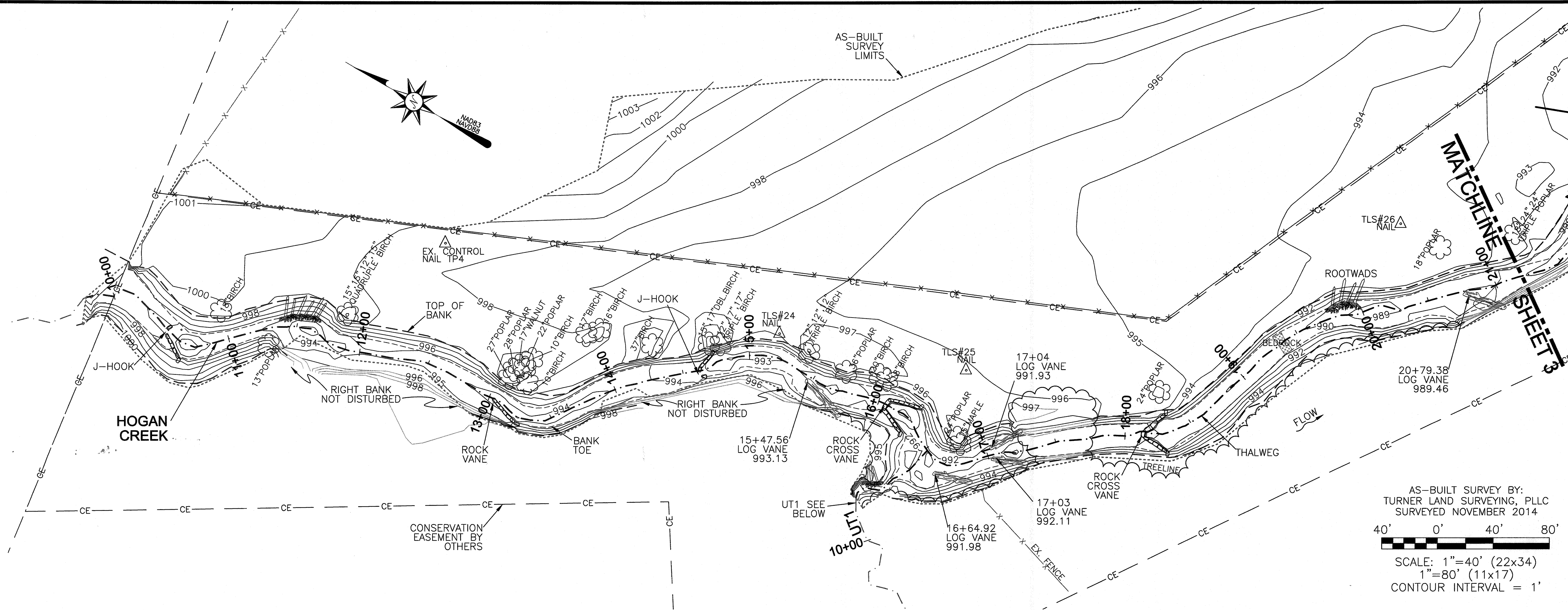
SCO PROJECT #090856601
EEP PROJECT ID #94708

SURRY COUNTY
NORTH CAROLINA

TURNER LAND SURVEYING, PLLC
3719 Benson Drive, Raleigh, NC 27609 - (919)827-0745
P-0702 - info@turnerlandsurveying.com
WWW.TURNERLANDSURVEYING.COM



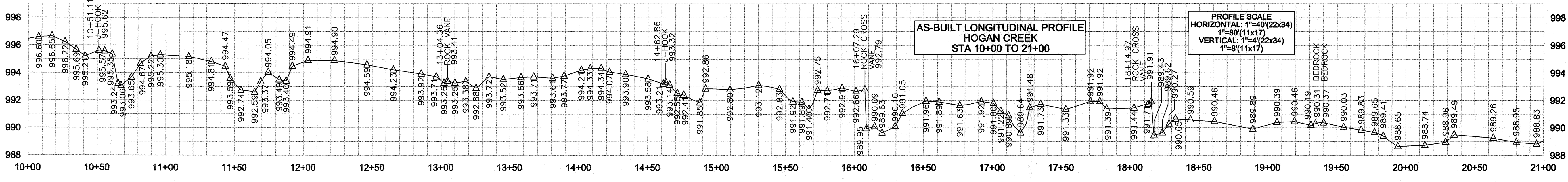
DATE:	12/15/2014
SURVEYED BY:	DST
DRAWN BY:	DST/EGT
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-018
FILE:	HOGAN CREEK 94708_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	1 of 7



AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED NOVEMBER 2014

40' 0' 40' 80'

SCALE: 1"=40' (22x34)
1"=80' (11x17)
CONTOUR INTERVAL = 1'

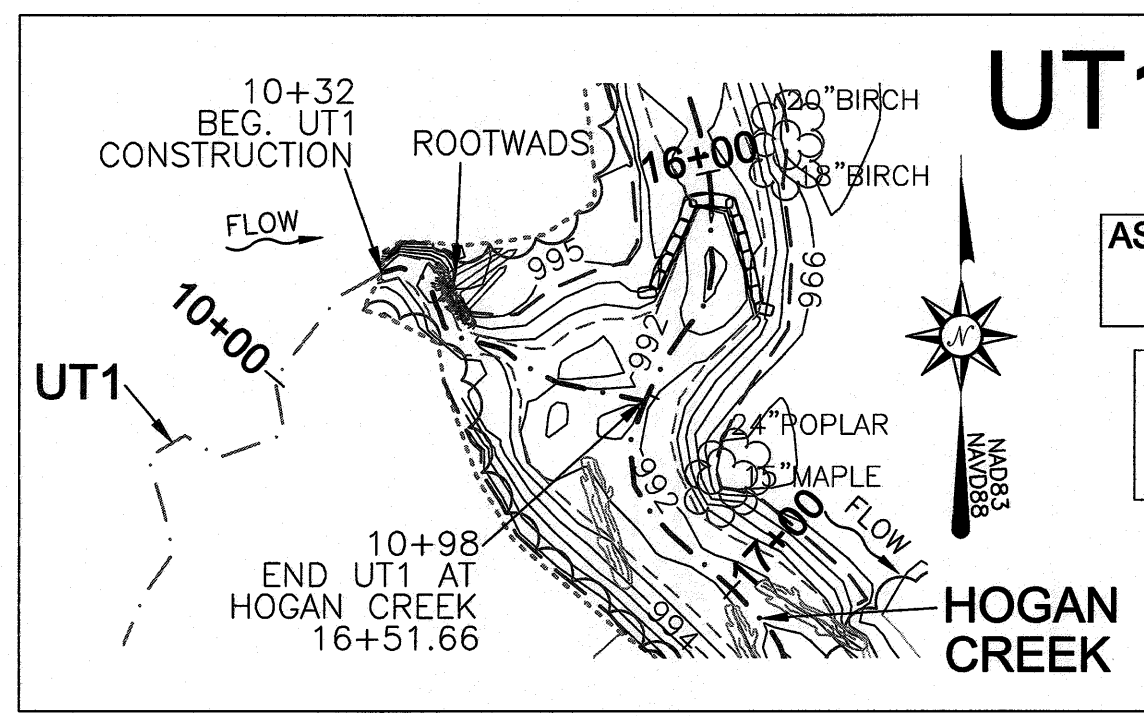


I, DAVID S. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THUS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 28th DAY OF JANUARY, 2015.

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

NORTH CAROLINA
PROFESSIONAL
LAND SURVEYOR
SEAL
L-4551
DAVID S. TURNER

- GENERAL NOTES:**
1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
 2. THE VERTICAL DATUM IS NAVD88.
 3. THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
 4. CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET P8 OF 30 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
 5. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
 6. THE SOLE PURPOSE OF THIS SURVEY IS TO SHOW THE CONSTRUCTED STREAM AND GRADING RELATED TO THE HOGAN CREEK RESTORATION PROJECT.
 7. INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS TAKEN FROM THE EXISTING CONDITIONS & DESIGN DATA PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
 8. REFER TO NCEEP HOGAN CREEK STREAM MITIGATION DOCUMENTS AND PLANS FOR BOUNDARY & OWNER INFORMATION.



AS-BUILT LONGITUDINAL PROFILE UT1 STA 10+32 TO 10+98

PROFILE SCALE
HORIZONTAL: 1"=40' (22x34)
VERTICAL: 1"=4' (22x34)
1"=8' (11x17)

LEGEND:

---	THALWEG	---	TOP OF BANK
---	BANK TOE	---	CONSERVATION EASEMENT
---	AS-BUILT SURVEY LIMITS	---	FENCE
---	EX. FENCE	---	EX. FENCE
---	GEOLIFT	---	ROCK STEP STRUCTURE
---	BRUSH MATTRESS	---	ROCK J-HOOK
---	CONSTRUCTED RIFFLE	---	ROCK VANE
---	BEDROCK	---	ROCK CROSS VANE
---	RIP RAP	---	LOG VANE OR SILL
---	ROOTWAD CLUSTER	---	CONTROL POINT

HOGAN CREEK STA. 10+00 TO 21+00 AND UT1

HOGAN CREEK RESTORATION PROJECT

SCO PROJECT #090856601

ECP PROJECT ID #94708

SURRY COUNTY

NORTH CAROLINA

DATE: 12/15/2014

SURVEYED BY: DST

DRAWN BY: DST/EGT

REVIEWED BY: DST/EGT

PROJECT: TLS-14-018

FILE: HOGAN CREEK_94708_AB_TLS_F.dwg

SCALE: AS SHOWN

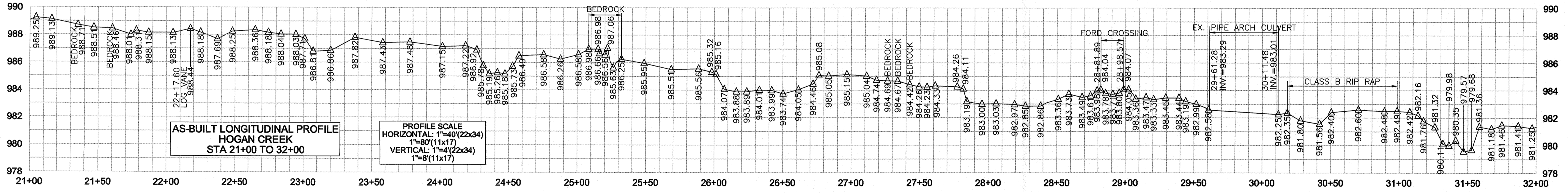
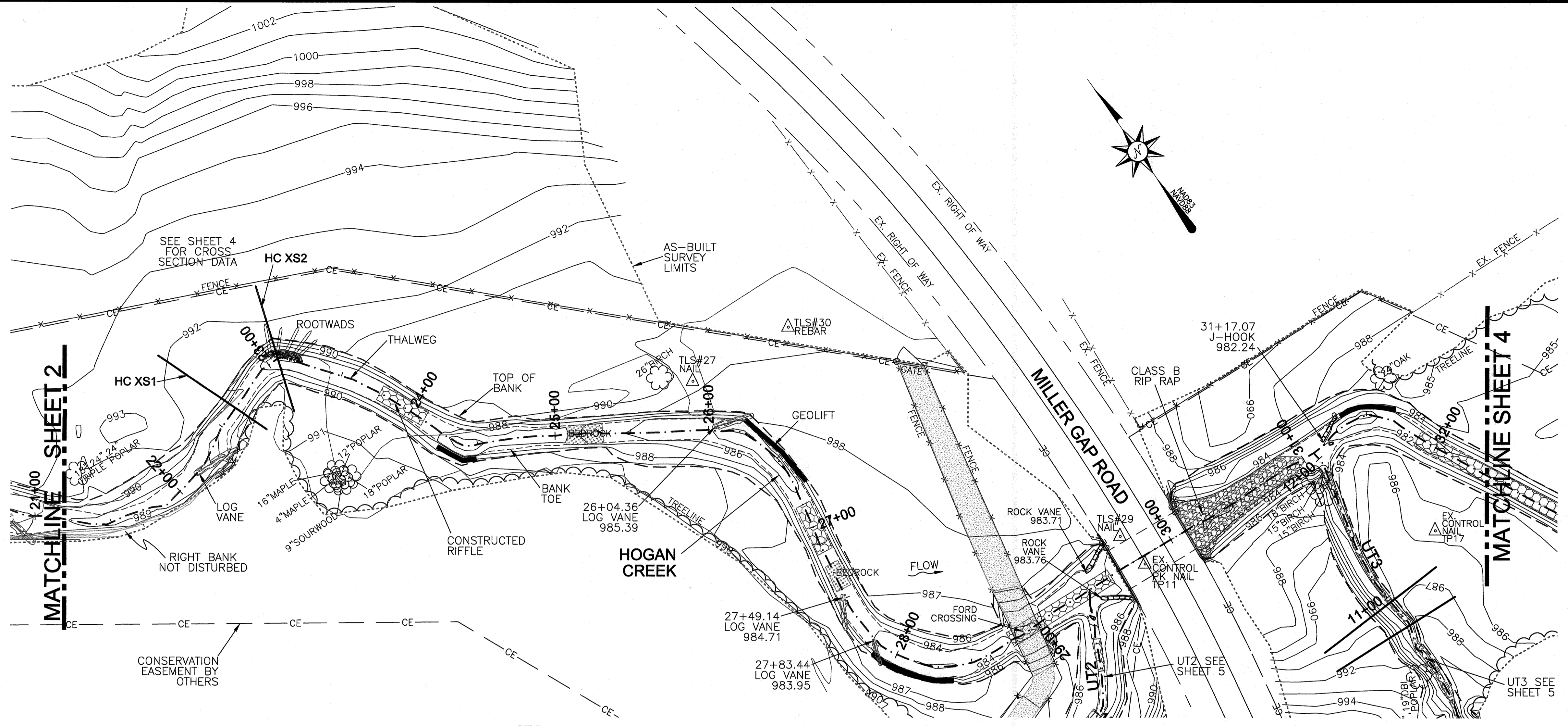
SHEET 2 of 7

TURNER LAND SURVEYING, PLLC

3719 Benson Drive, Raleigh, NC 27609 -- (919)827-0745

P-0702 -- info@turnerlandsurveying.com

www.TURNERLANDSURVEYING.com



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 HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 28th DAY OF JANUARY, 2015.

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 NAVD88.
3. THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
4. CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET P8 OF 30 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
5. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
6. THE SOLE PURPOSE OF THIS SURVEY IS TO SHOW THE CONSTRUCTED STREAM AND GRADING RELATED TO THE HOGAN CREEK STREAM RESTORATION PROJECT.
7. INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS TAKEN FROM THE EXISTING CONDITIONS & DESIGN DATA PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
8. REFER TO NCEEP HOGAN CREEK STREAM MITIGATION DOCUMENTS AND PLANS FOR BOUNDARY & OWNER INFORMATION.

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED NOVEMBER 2014

40' 0' 40' 80'

SCALE: 1"=40' (22x34)
 1"=80' (11x17)
 CONTOUR INTERVAL = 1'

LEGEND:

	THALWEG		ROCK STEP STRUCTURE
	TOP OF BANK		ROCK J-HOOK
	BANK TOE		ROCK VANE
	CE		ROCK CROSS VANE
	CONSERVATION EASEMENT		LOG VANE OR SILL
	AS-BUILT SURVEY LIMITS		CONTROL POINT
	FENCE		
	EX. FENCE		
	GEOLIFT		
	BRUSH MATTRESS		
	CONSTRUCTED RIFFLE		
	BEDROCK		
	RIP RAP		
	ROOTWAD CLUSTER		

REVISIONS, DATE AND INITIAL:

HOGAN CREEK STATION 21+00 TO 32+00

HOGAN CREEK RESTORATION PROJECT
 SCO PROJECT #090856601
 EEP PROJECT ID #94708

TURNER LAND SURVEYING, PLLC
 3719 Benson Drive, Raleigh, NC 27609 - (919)827-0745
 P-0702 - info@turnerlandsurveying.com
 WWW.TURNERLANDSURVEYING.COM

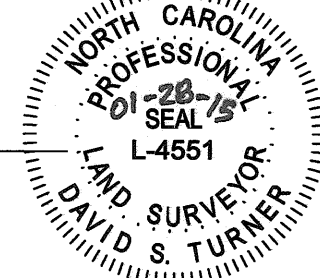
NORTH CAROLINA
 SURRY COUNTY
 SILOAM

DATE: 12/15/2014
 SURVEYED BY: DST
 DRAWN BY: DST/EGT
 REVIEWED BY: DST/EGT
 PROJECT: TLS-14-018
 FILE: HOGAN CREEK_94708_AB_TLS_F.dwg
 SCALE: AS SHOWN

SHEET
3 of 7

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 HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 28th DAY OF JANUARY, 2015.

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



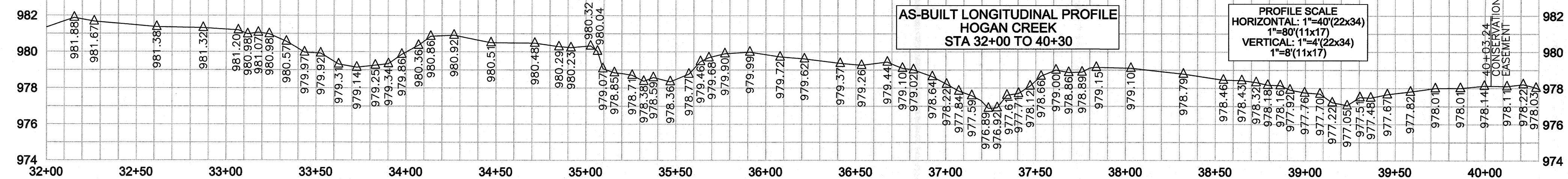
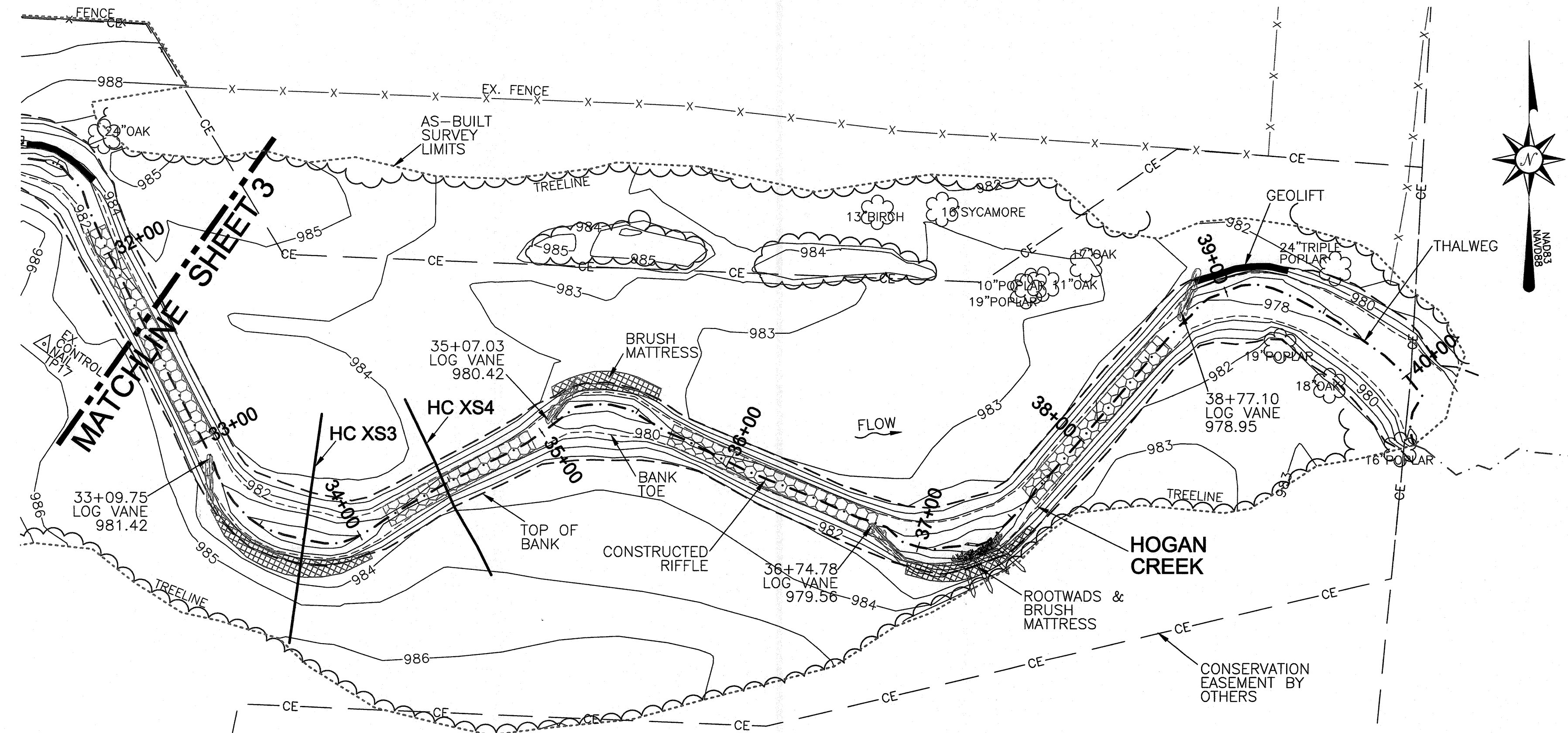
GENERAL NOTES:

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. THE VERTICAL DATUM IS NAVD88.
3. THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
4. CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET P8 OF 30 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
5. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
6. THE SOLE PURPOSE OF THIS SURVEY IS TO SHOW THE CONSTRUCTED STREAM AND GRADING RELATED TO THE HOGAN CREEK STREAM RESTORATION PROJECT.
7. INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS TAKEN FROM THE EXISTING CONDITIONS & DESIGN DATA PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
8. REFER TO NCEEP HOGAN CREEK STREAM MITIGATION DOCUMENTS AND PLANS FOR BOUNDARY & OWNER INFORMATION.

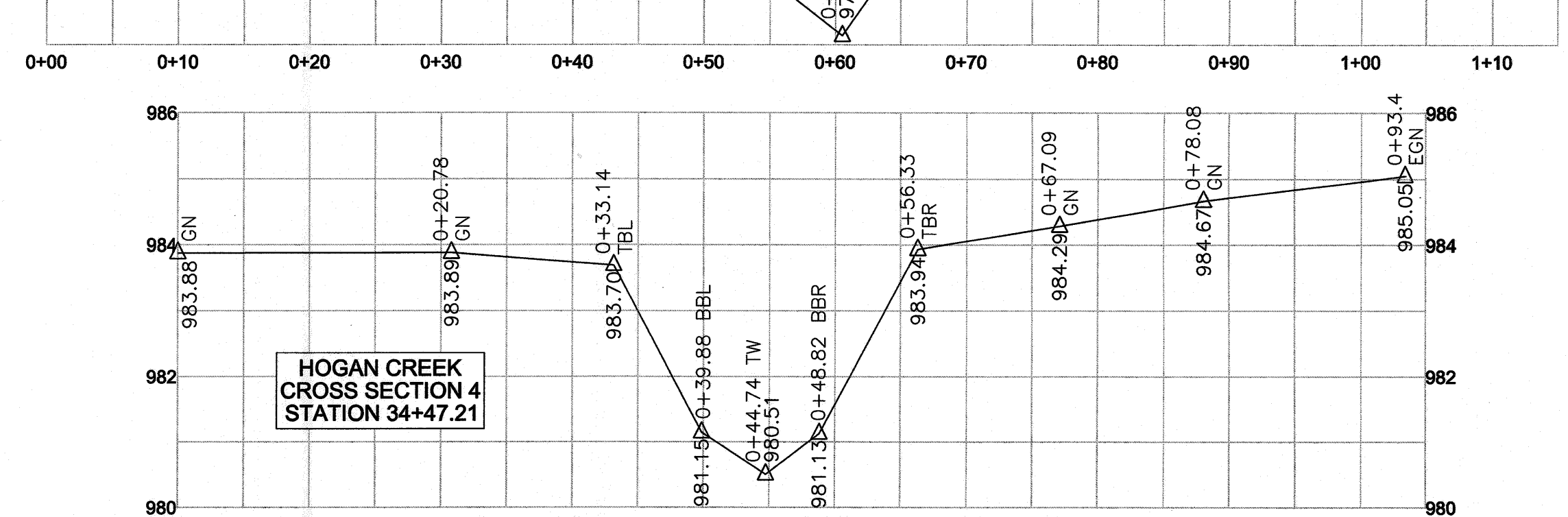
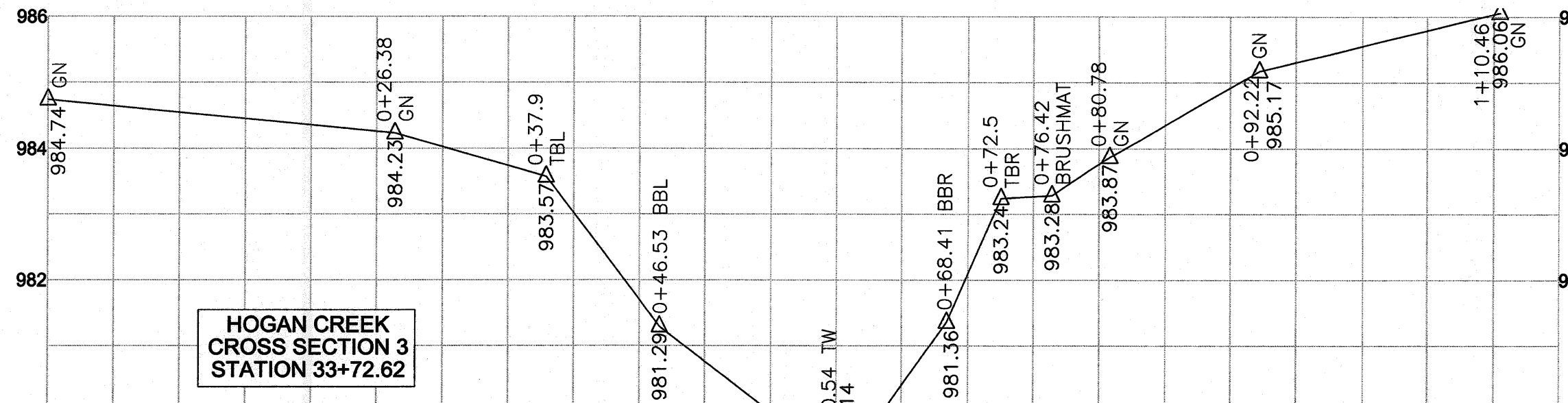
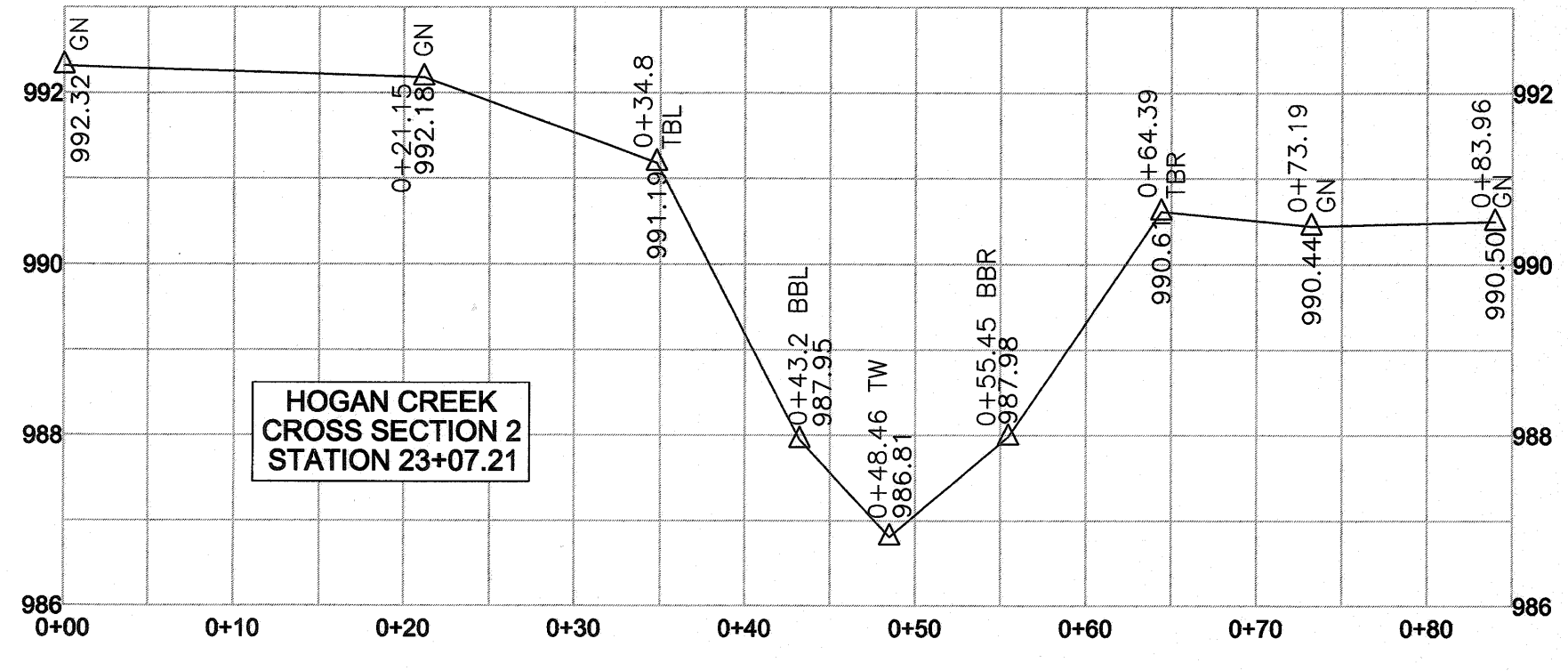
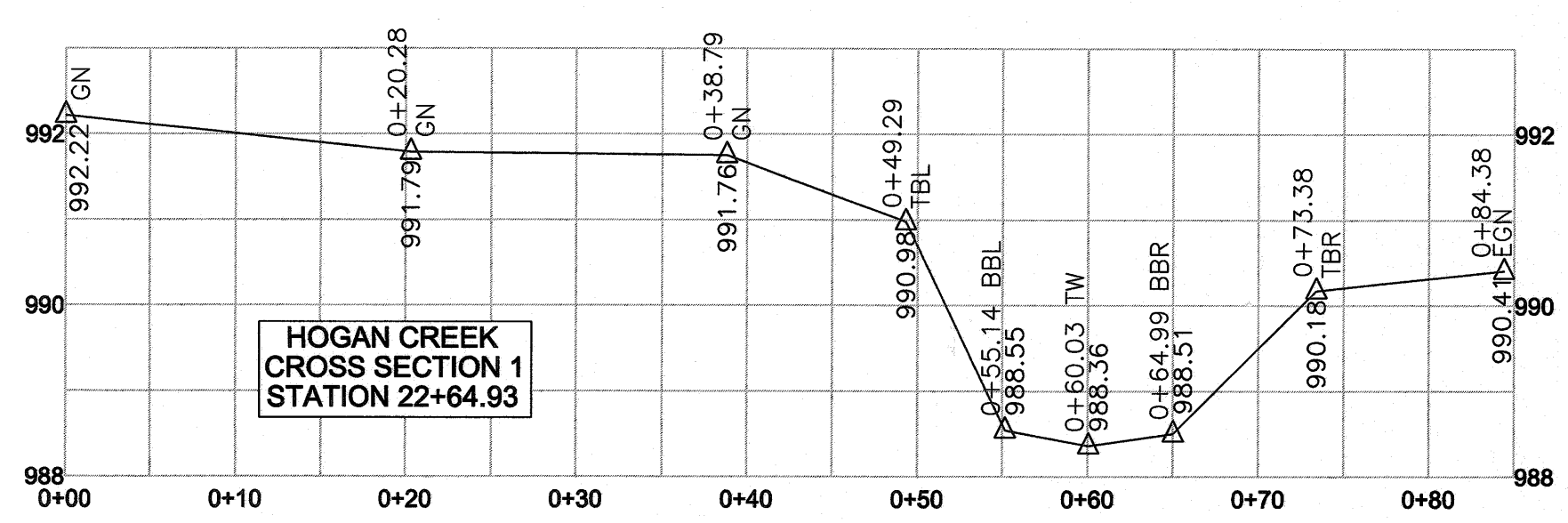
AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED NOVEMBER 2014

SCALE: 1"=40' (22x34)
1"=80' (11x17)
CONTOUR INTERVAL = 1'

LEGEND:	
--- THALWEG	--- CONSERVATION EASEMENT
--- TOP OF BANK	--- AS-BUILT SURVEY LIMITS
--- BANK TOE	--- FENCE
--- EX. FENCE	--- EX. FENCE
--- GEOLIFT	--- ROCK STEP STRUCTURE
--- BRUSH MATTRESS	--- ROCK J-HOOK
--- CONSTRUCTED RIFFLE	--- ROCK VANE
--- BEDROCK	--- ROCK CROSS VANE
--- RIP RAP	--- LOG VANE OR SILL
--- ROOTWAD CLUSTER	
--- CONTROL POINT	



CROSS SECTION SCALE
HORIZONTAL: 1"=10'(22x34)
1"=20'(11x17)
VERTICAL: 1"=2'(22x34)
1"=4'(11x17)
TBL—LEFT TOP OF BANK
TBR—RIGHT TOP OF BANK
BBL—LEFT BANK TOE
BBR—RIGHT BANK TOE
TW—THALWEG
GN—GROUND
EGN—EXISTING GROUND



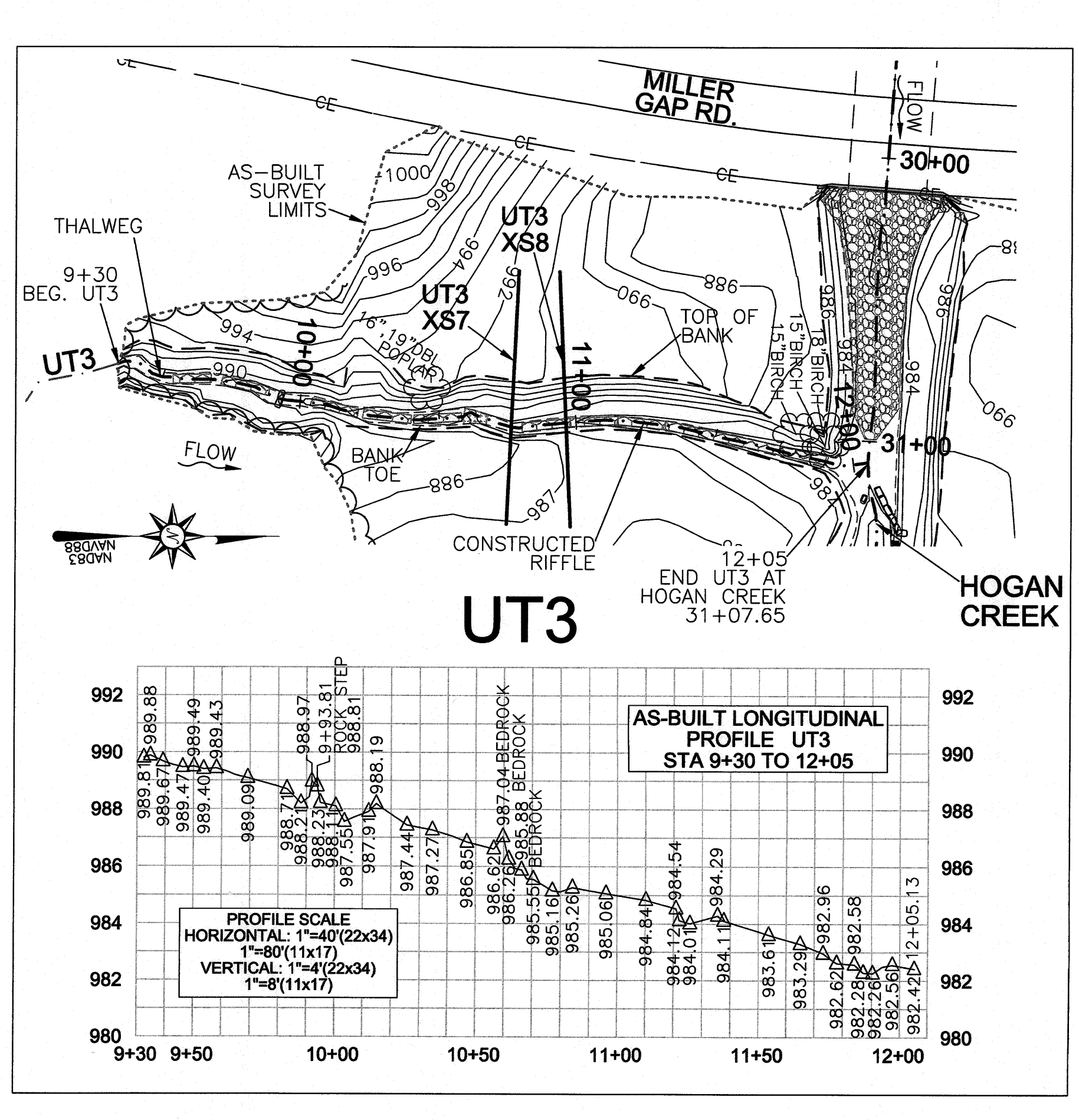
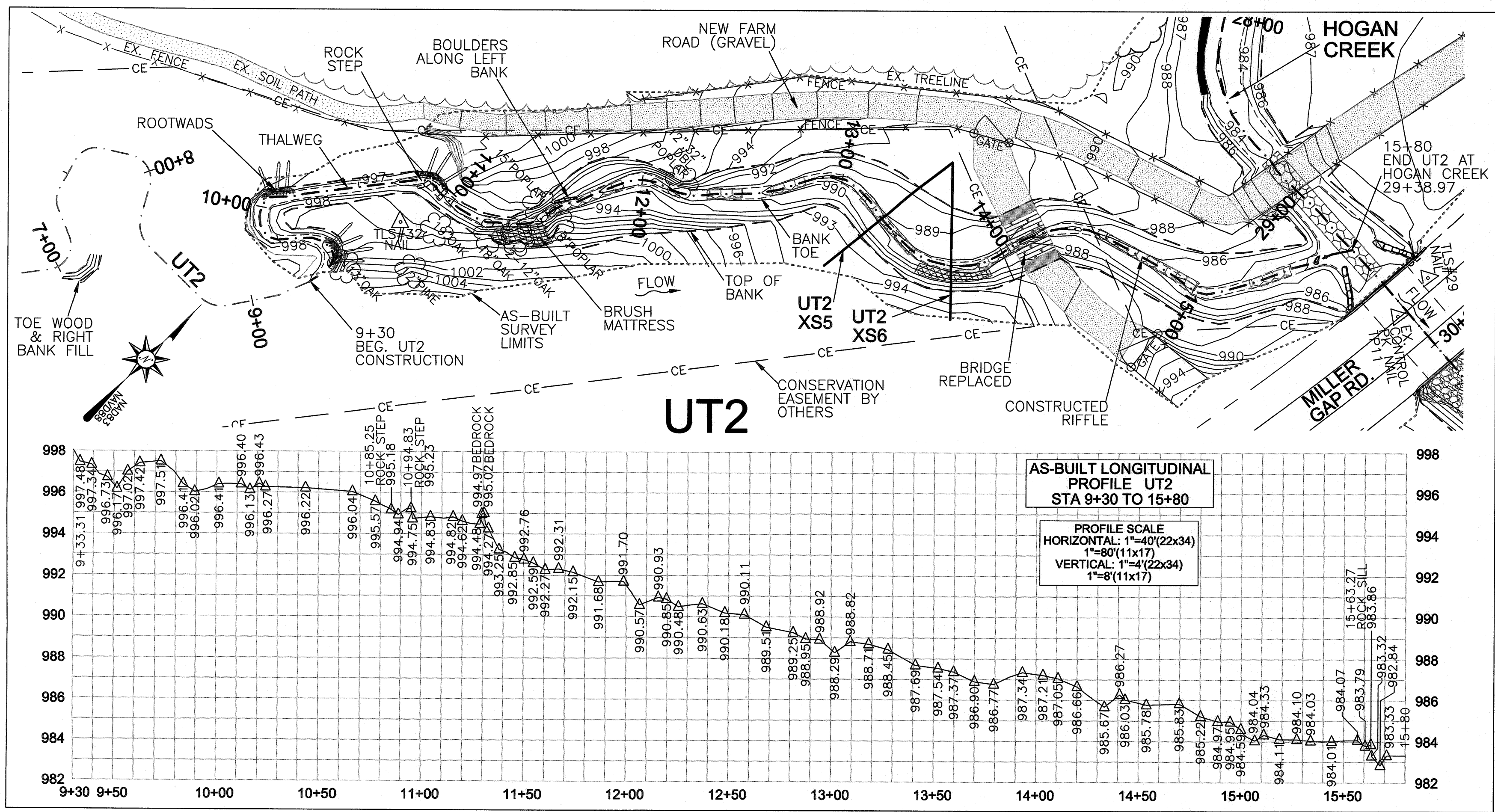
HOGAN CREEK STA. 32+00 TO 40+30 & CROSS SECTIONS 1-4

HOGAN CREEK RESTORATION PROJECT
SCO PROJECT #090856601
EEP PROJECT ID #94708

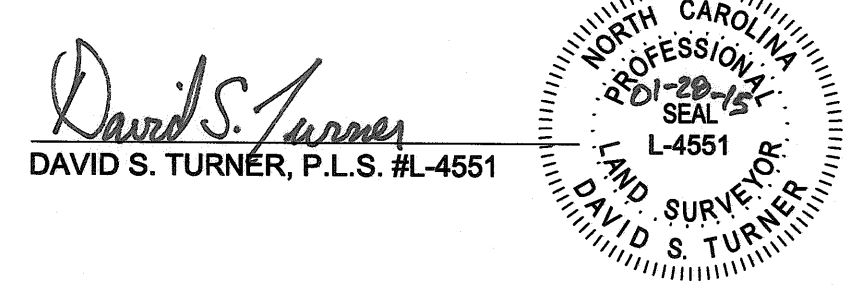
SURRY COUNTY NORTH CAROLINA

TURNER LAND SURVEYING, PLLC
3719 Banson Drive, Raleigh, NC 27609 -- (919)827-0745
P-0702 -- info@turnerlandsurveying.com
WWW.TURNERLANDSURVEYING.COM

DATE:	12/15/2014
SURVEYED BY:	DST
DRAWN BY:	DST/EGT
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-018
FILE:	HOGAN CREEK_94708_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	4 of 7



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 THEREON ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 28th DAY OF JANUARY, 2015.



AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED NOVEMBER 2014

SCALE: 1"=40' (22x34)
1"=80' (11x17)
CONTOUR INTERVAL = 1'

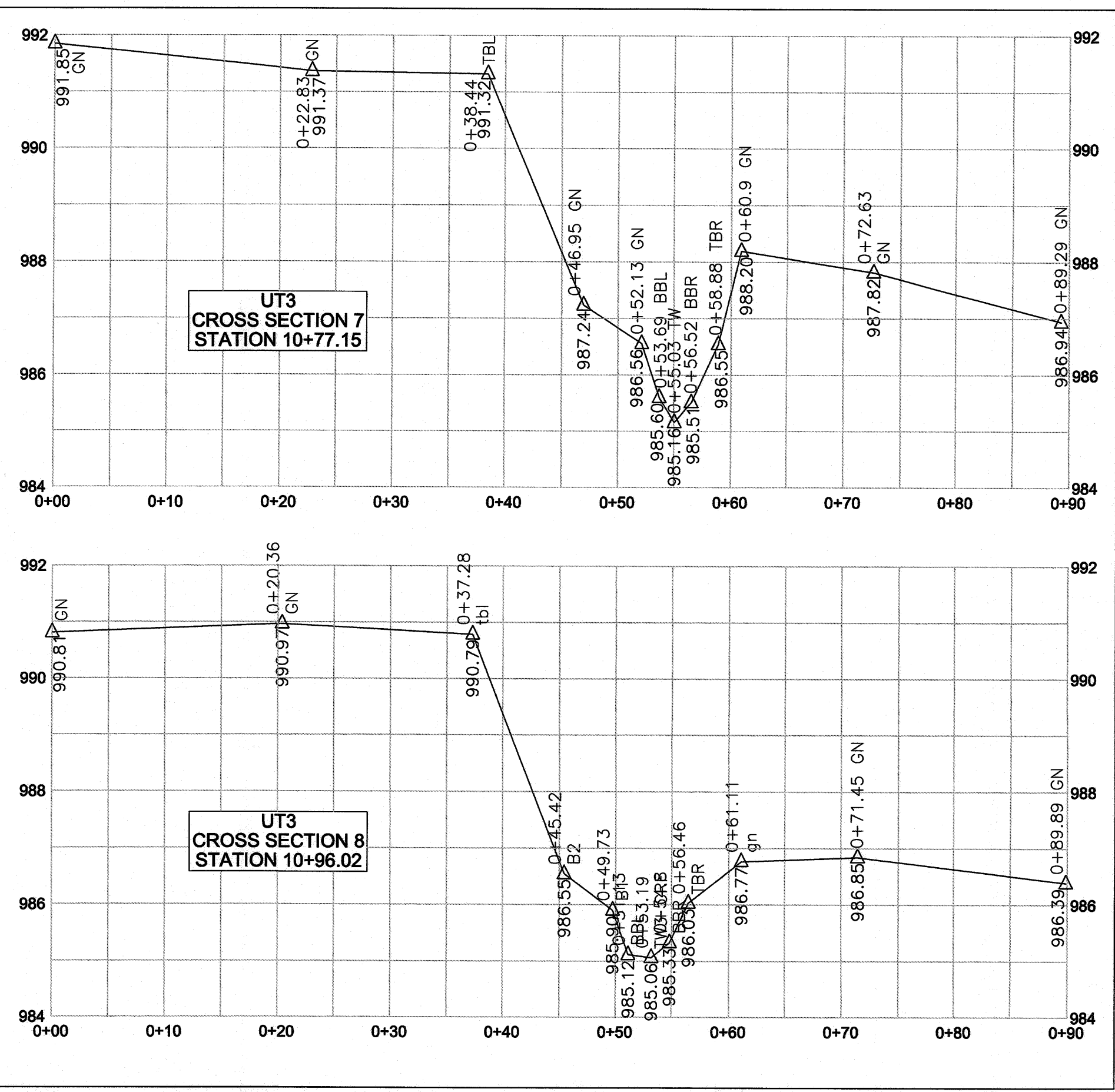
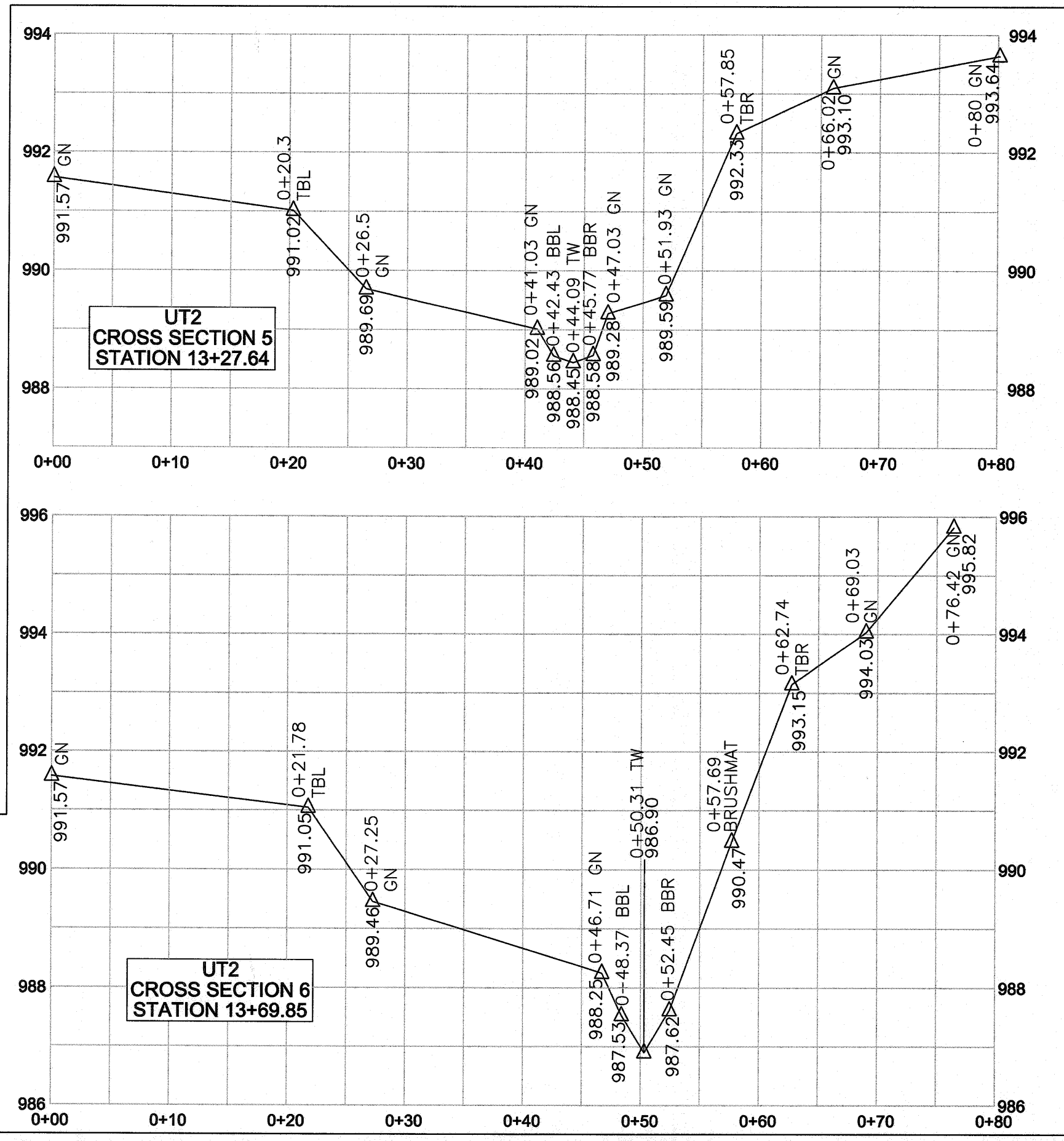
LEGEND:

- THALWEG
- TOP OF BANK
- BANK TOE
- CONSERVATION EASEMENT
- AS-BUILT SURVEY LIMITS
- FENCE
- EX. FENCE
- BRUSH MATTRESS
- CONSTRUCTED RIFFLE
- BEDROCK
- RIP RAP
- CONTROL POINT
- ROCK STEP STRUCTURE
- ROOTWAD CLUSTER

- GENERAL NOTES:**
- ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
 - THE VERTICAL DATUM IS NAVD88.
 - THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
 - CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET P8 OF 30 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
 - THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
 - THE SOLE PURPOSE OF THIS SURVEY IS TO SHOW THE CONSTRUCTED STREAM AND GRADING RELATED TO THE HOGAN CREEK STREAM RESTORATION PROJECT.
 - INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS TAKEN FROM THE EXISTING CONDITIONS & DESIGN DATA PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
 - REFER TO NCEEP HOGAN CREEK STREAM MITIGATION DOCUMENTS AND PLANS FOR BOUNDARY & OWNER INFORMATION.

CROSS SECTION SCALE
HORIZONTAL: 1"=10' (22x34)
1"=20' (11x17)
VERTICAL: 1"=2' (22x34)
1"=4' (11x17)

TBL - LEFT TOP OF BANK
TBR - RIGHT TOP OF BANK
BBL - LEFT BANK TOE
BBR - RIGHT BANK TOE
TW - THALWEG
GN - GROUND
EGN - EXISTING GROUND



REVISIONS, DATE AND INITIAL:

TURNER LAND SURVEYING, PLLC
3719 Benson Drive, Raleigh, NC 27609 - (919)827-0745
P-0702 - info@turnerlandsurveying.com
WWW.TURNERLANDSURVEYING.COM

NORTH CAROLINA
SILVAM
SURRY COUNTY

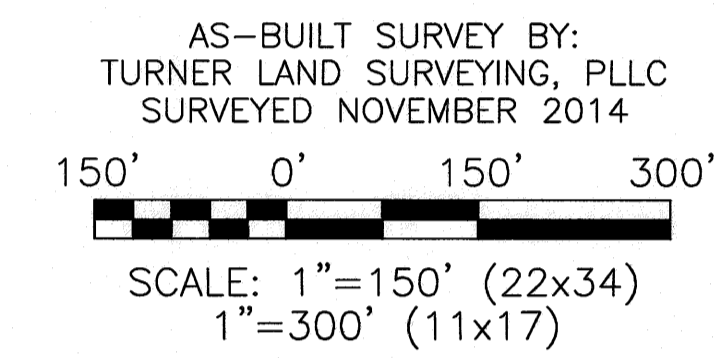
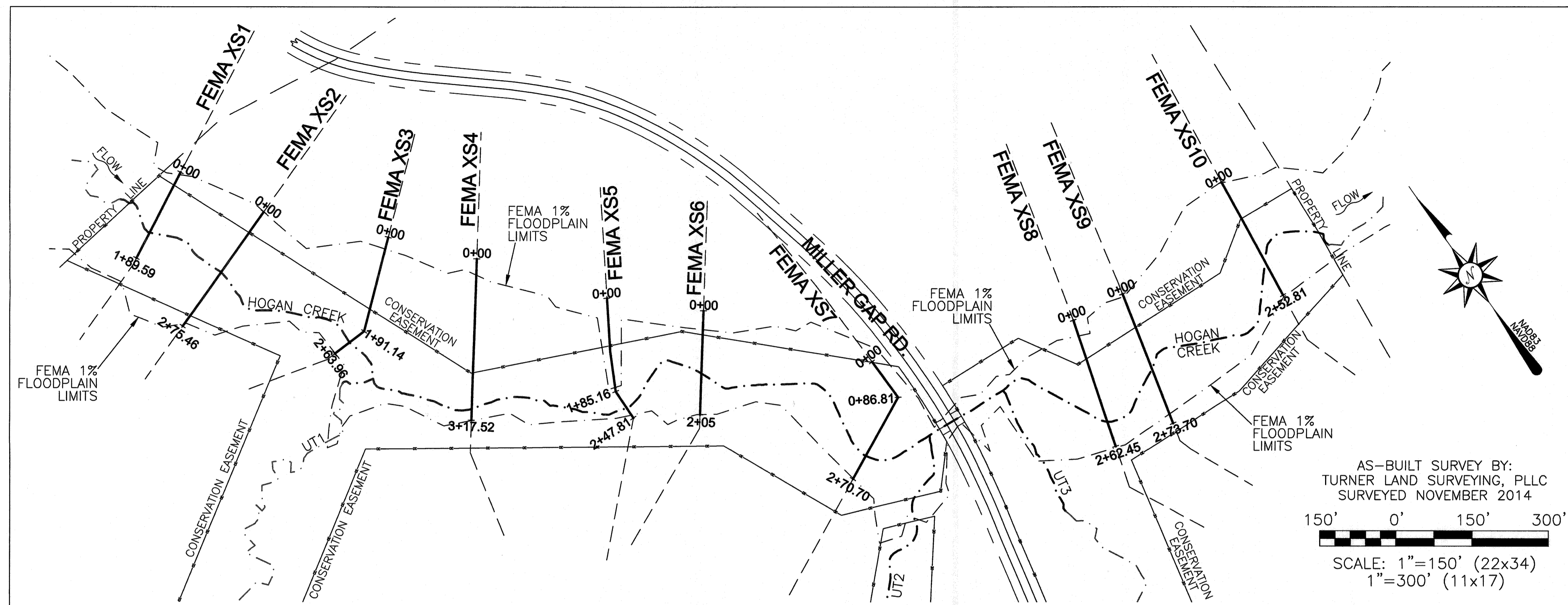
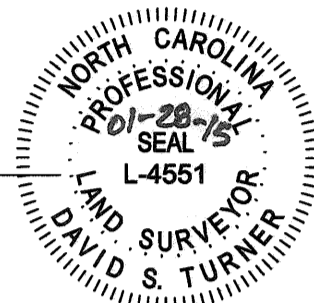
UT2, UT3, AND CROSS SECTIONS 5-8
HOGAN CREEK RESTORATION PROJECT
SCO PROJECT #090856601
EEP PROJECT ID #94708

DATE: 12/15/2014
SURVEYED BY: DST
DRAWN BY: DST/EGT
REVIEWED BY: DST/EGT
PROJECT: TLS-14-018
FILE: HOGAN CREEK_94708_AB_TLS_F.dwg
SCALE: AS SHOWN

SHEET 5 of 7

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 HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 28th DAY OF JANUARY, 2015.

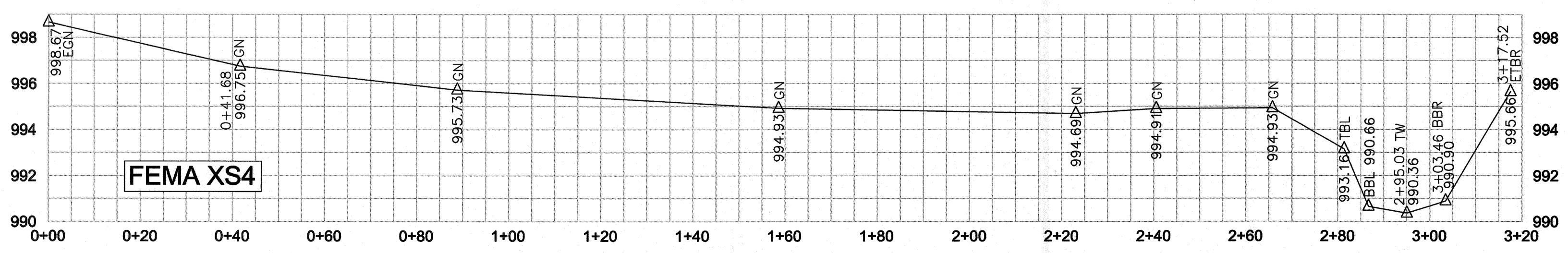
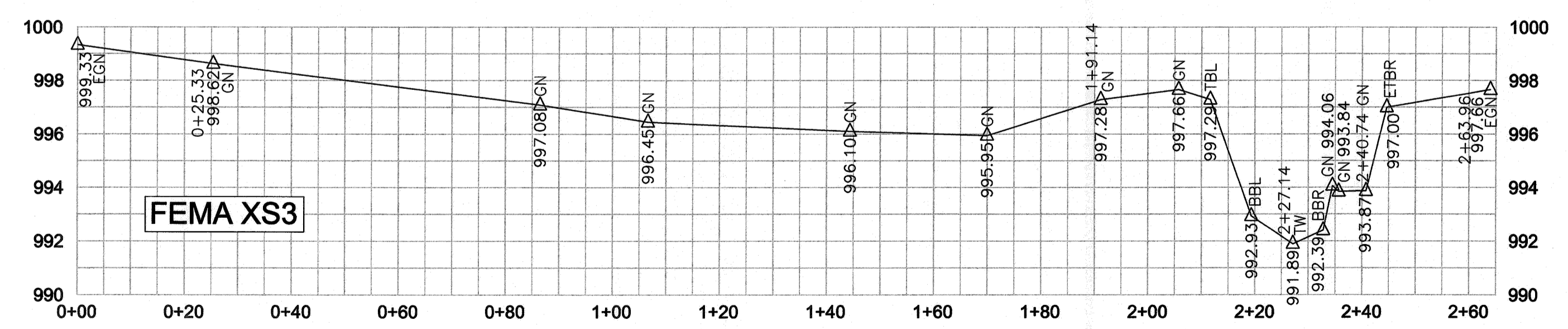
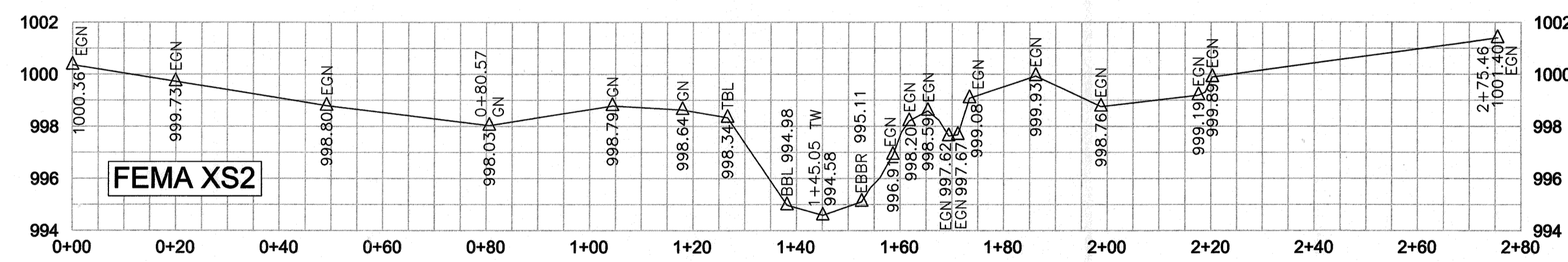
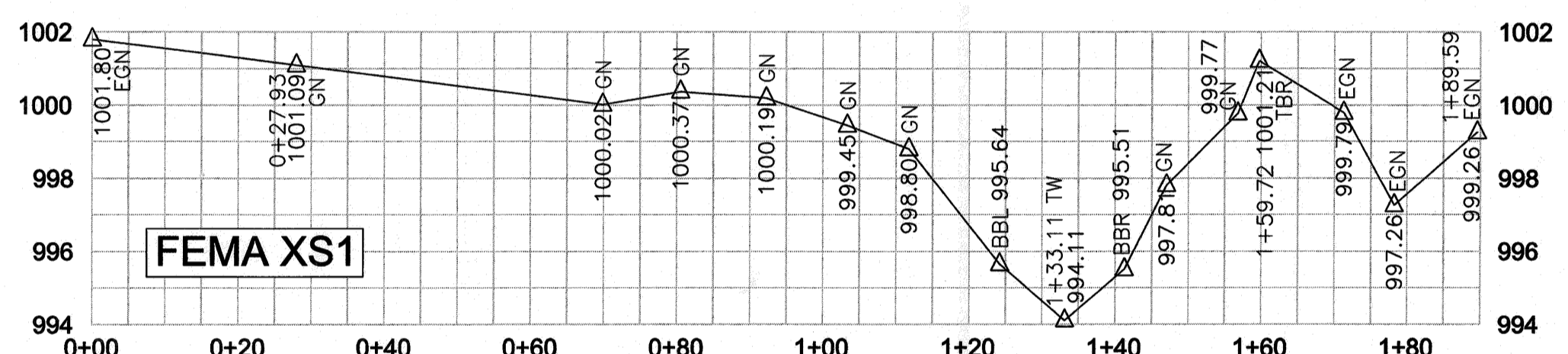
DAVID S. TURNER, P.L.S. #L-4551



AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED NOVEMBER 2014

FEMA CROSS SECTION SCALE
HORIZONTAL: 1"=20' (22x34)
VERTICAL: 1"=4' (22x34)
1"=8' (11x17)

TBL - LEFT TOP OF BANK
TBR - RIGHT TOP OF BANK
LTL - LEFT BANK TOE
RTL - RIGHT BANK TOE
TW - THALWEG
GN - GROUND
E - EXISTING (SEE NOTE*)



***FEMA CROSS SECTION NOTE:**
NOTE - SOME "EXISTING" ELEVATIONS WERE TAKEN FROM THE EXISTING CONDITIONS SURVEY AND WERE NOT VERIFIED BY TURNER LAND SURVEYING.

GENERAL NOTES:
1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. THE VERTICAL DATUM IS NAVD88.
3. THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
4. CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET P8 OF 30 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
5. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
6. THE SOLE PURPOSE OF THIS SURVEY IS TO SHOW THE CONSTRUCTED STREAM AND GRADING RELATED TO THE HOGAN CREEK STREAM RESTORATION PROJECT.
7. INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS TAKEN FROM THE EXISTING CONDITIONS & DESIGN DATA PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
8. REFER TO NCEP HOGAN CREEK STREAM MITIGATION DOCUMENTS AND PLANS FOR BOUNDARY & OWNER INFORMATION.

REVISIONS, DATE AND INITIAL:

TURNER LAND SURVEYING, PLLC
3719 Benson Drive, Raleigh, NC 27609 - (919)827-0745
P-0702 - info@turnerlandsurveying.com
WWW.TURNERLANDSURVEYING.COM

FEMA CROSS SECTION PLAN VIEW & FXS1-FXS4

HOGAN CREEK RESTORATION PROJECT
SCO PROJECT #090856601
EEP PROJECT ID #94708

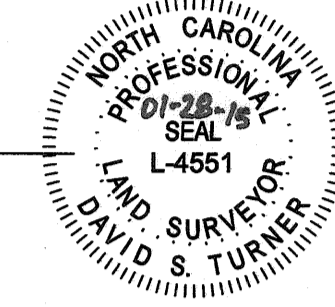
NORTH CAROLINA
SULLOAM
SURRY COUNTY

DATE: 12/15/2014
SURVEYED BY: DST
DRAWN BY: DST/EGT
REVIEWED BY: DST/EGT
PROJECT: TLS-14-018
FILE: HOGAN CREEK_94708_AB_TLS_F.dwg
SCALE: AS SHOWN

SHEET **6 of 7**

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 HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 28th DAY OF JANUARY, 2015.

David S. Turner
DAVID S. TURNER/P.L.S. #L-4551

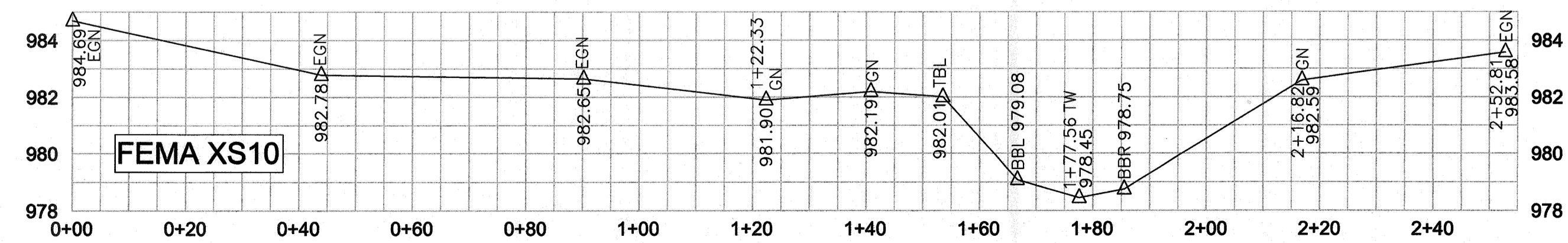
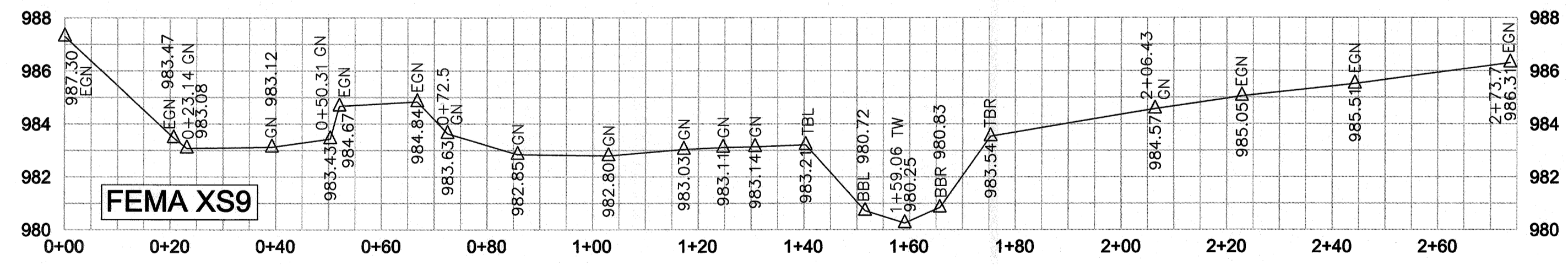
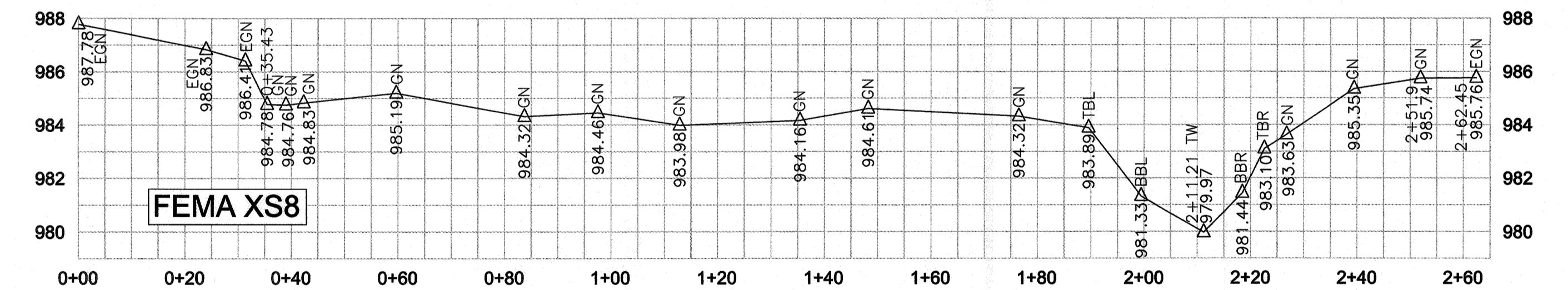
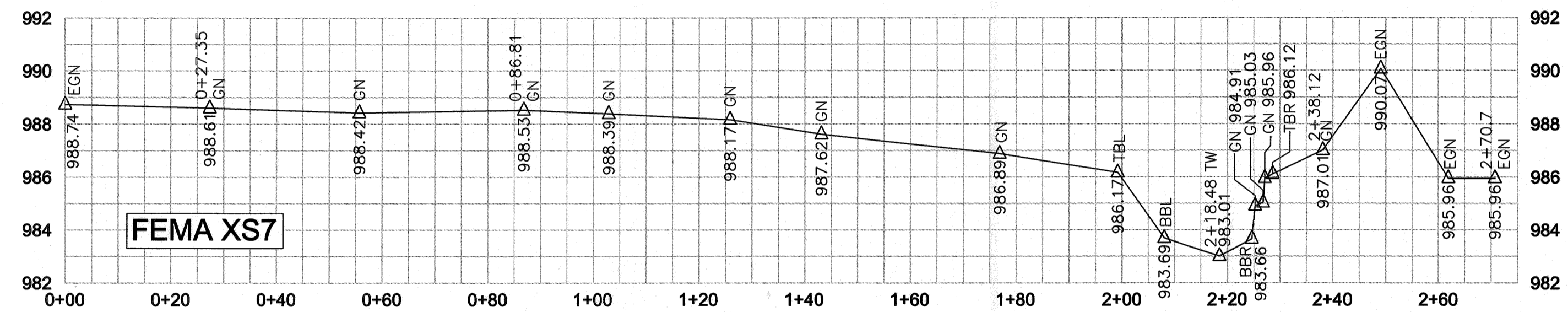
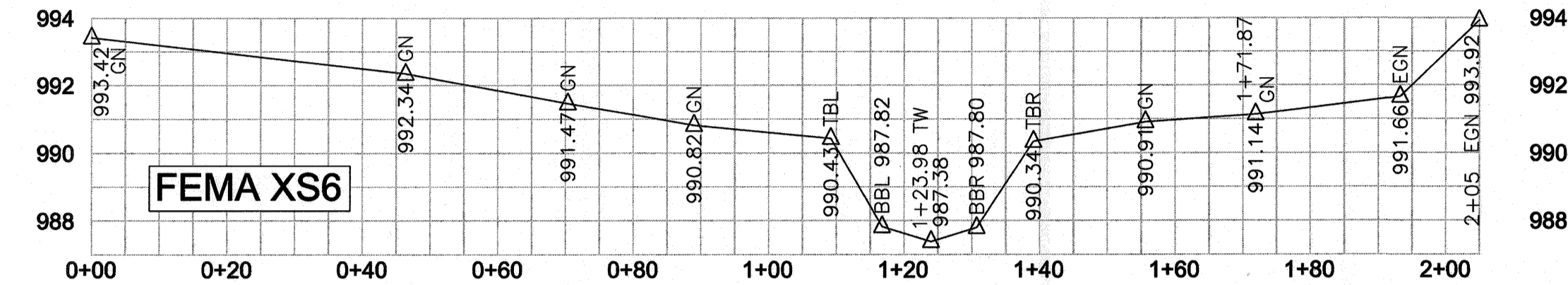
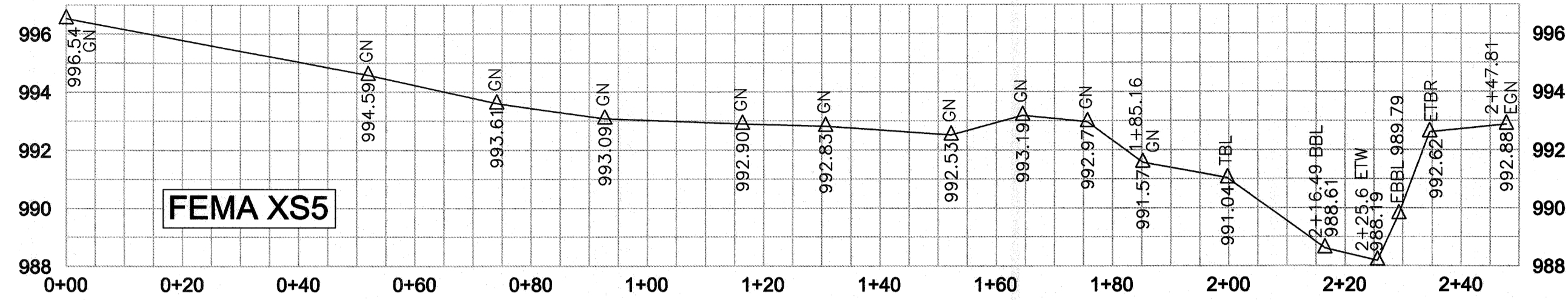


FEMA CROSS SECTION SCALE
HORIZONTAL: 1"=20'(22x34)
1"=40'(11x17)
VERTICAL: 1"=4'(22x34)
1"=8'(11x17)

TBL—LEFT TOP OF BANK
TBR—RIGHT TOP OF BANK
BBL—LEFT BANK TOE
BBR—RIGHT BANK TOE
TW—THALWEG
GN—GROUND
E—EXISTING (SEE NOTE*)

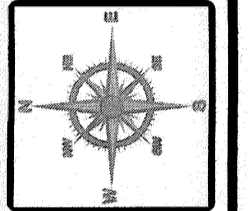
***FEMA CROSS SECTION NOTE:**
NOTE - SOME "EXISTING" ELEVATIONS WERE TAKEN FROM THE EXISTING CONDITIONS SURVEY AND WERE NOT VERIFIED BY TURNER LAND SURVEYING.

- GENERAL NOTES:**
- ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
 - THE VERTICAL DATUM IS NAVD88.
 - THE BASIS OF BEARINGS IS NCGS STATE PLANE GRID COORDINATES NAD83 DATUM.
 - CONTROL IS BASED ON EXISTING CONTROL DATA AS SHOWN ON SHEET P8 OF 30 IN THE DESIGN PLANS AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION & GPS/RTK METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
 - THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
 - THE SOLE PURPOSE OF THIS SURVEY IS TO SHOW THE CONSTRUCTED STREAM AND GRADING RELATED TO THE HOGAN CREEK STREAM RESTORATION PROJECT.
 - INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS TAKEN FROM THE EXISTING CONDITIONS & DESIGN DATA PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
 - REFER TO NCEEP HOGAN CREEK STREAM MITIGATION DOCUMENTS AND PLANS FOR BOUNDARY & OWNER INFORMATION.



REVISIONS, DATE AND INITIAL:

TURNER LAND SURVEYING, PLLC
3719 Benson Drive, Raleigh, NC 27609 - (919)827-0745
P-0702 - info@turnerlandsurveying.com
WWW.TURNERLANDSURVEYING.COM



FEMA CROSS SECTIONS FXS5-FXS10

HOGAN CREEK RESTORATION PROJECT
SCO PROJECT #090856601
EEP PROJECT ID #94708

NORTH CAROLINA

SURRY COUNTY

S/LOAM

DATE:	12/15/2014
SURVEYED BY:	DST
DRAWN BY:	DST/EGT
REVIEWED BY:	DST/EGT
PROJECT:	TLS-14-018
FILE:	HOGAN CREEK_94708_AB_TLS_F.dwg
SCALE:	AS SHOWN

SHEET
7 of 7