

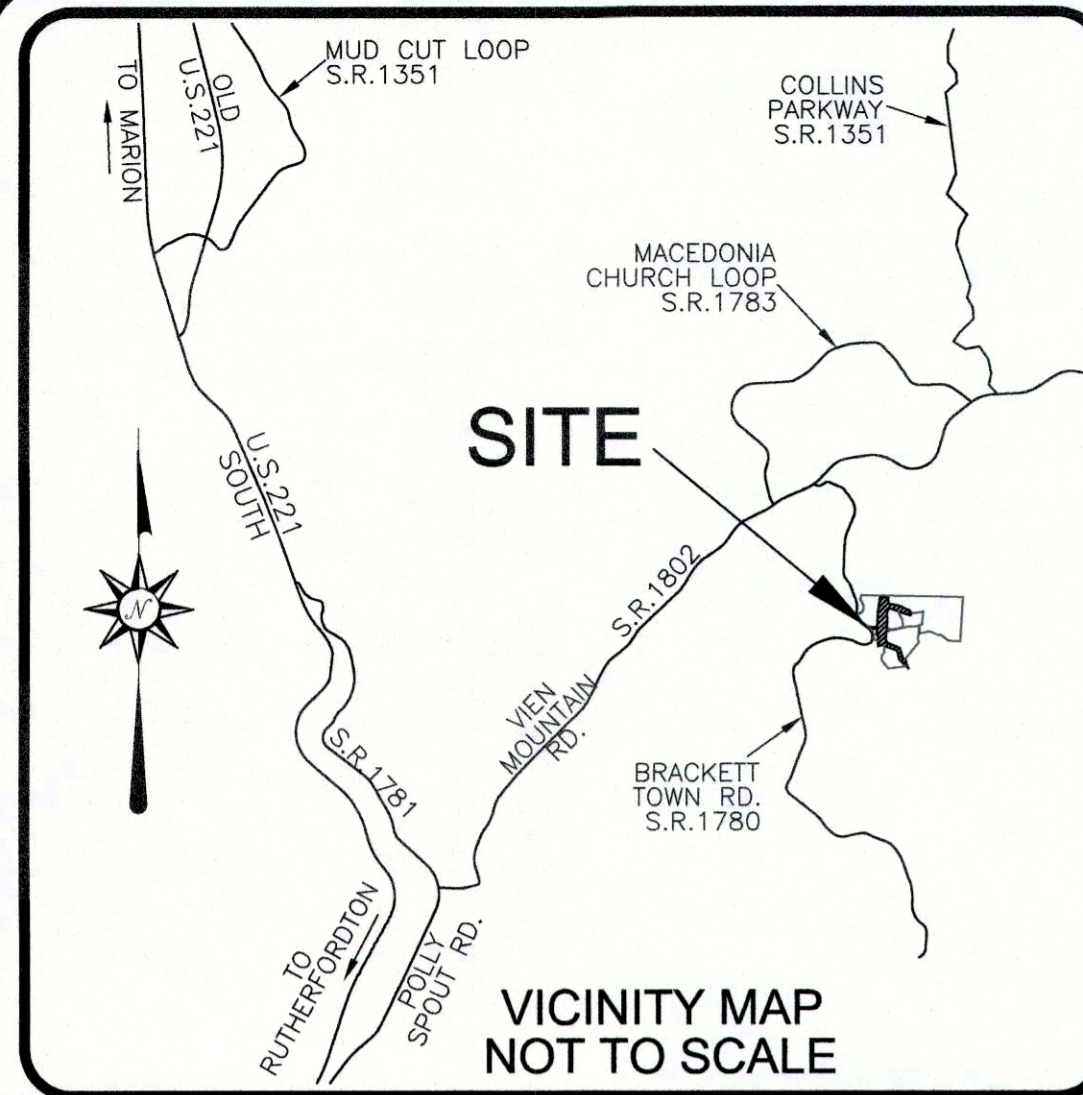
AS-BUILT SURVEY OF MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT

McDOWELL COUNTY, NC
NCEEP PROJECT# 93875

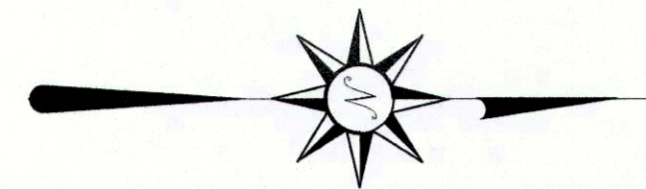
REFERENCES:
OWNER:
NORTH CAROLINA DIVISION OF MITIGATION
SERVICES (Formerly ECOSYSTEM
ENHANCEMENT PROGRAM)
217 WEST JONES ST., SUITE 3000A
RALEIGH, NC 27603
(919)707-8976
EEP PROJ. MANAGER: PAUL WIESNER

DESIGNER:
WOLF CREEK ENGINEERING
12 1/2 WALL ST., SUITE C
ASHEVILLE, NC 28801
(828)449-1930

CONTRACTOR:
RIVER WORKS, INC
RALEIGH, NC
(919)582-3574



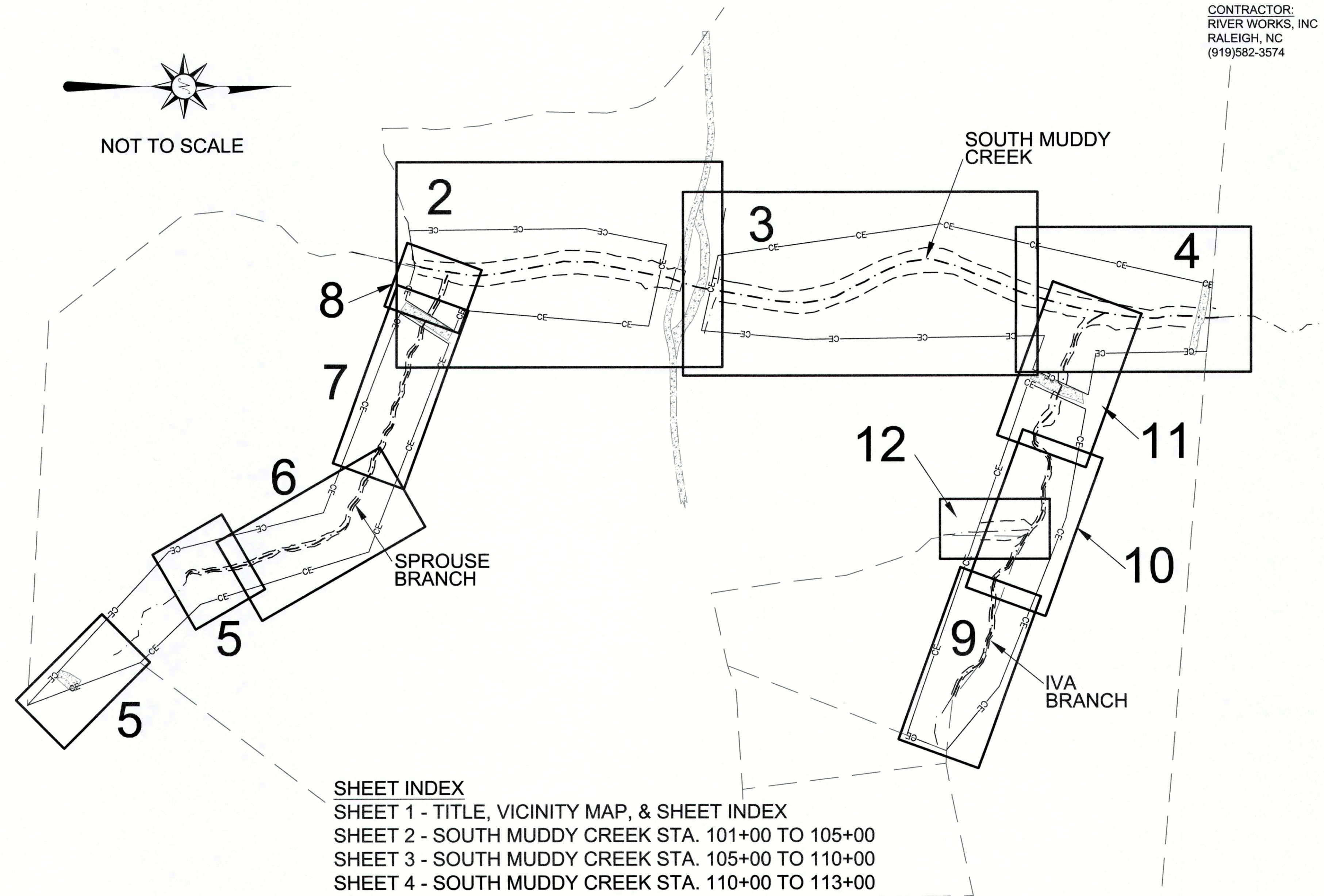
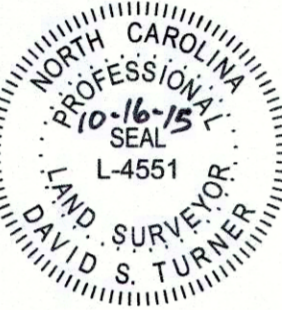
VICINITY MAP
NOT TO SCALE



NOT TO SCALE

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 16th DAY OF OCTOBER, 2015.

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



SHEET INDEX

- SHEET 1 - TITLE, VICINITY MAP, & SHEET INDEX
- SHEET 2 - SOUTH MUDDY CREEK STA. 101+00 TO 105+00
- SHEET 3 - SOUTH MUDDY CREEK STA. 105+00 TO 110+00
- SHEET 4 - SOUTH MUDDY CREEK STA. 110+00 TO 113+00
- SHEET 5 - SPROUSE BRANCH 200+00 TO 202+50
- SHEET 6 - SPROUSE BRANCH 202+50 TO 205+00
- SHEET 7 - SPROUSE BRANCH 205+00 TO 207+50
- SHEET 8 - SPROUSE BRANCH 207+50 TO 208+10
- SHEET 9 - IVA BRANCH 300+00 TO 302+50
- SHEET 10 - IVA BRANCH 302+50 TO 305+00
- SHEET 11 - IVA BRANCH 305+00 TO 307+20
- SHEET 12 - IVA DITCH 400+00 TO 401+22.90
- SHEET 13 - CROSS SECTIONS

PT#	Northing(Y)	Easting(X)	Elev(Z)	Description
1	672158.10	1130953.56	1282.72	gps ex-cpt
2	673478.96	1130950.27	1297.86	gps ex-cpt
3	673452.70	1131296.97	1333.32	gps ex-cpt
4	672057.12	1131154.83	1292.76	ex-cpt
7	672800.62	1130666.80	1274.05	ex-cpt
8	673147.99	1130799.81	1274.65	ex-cpt
13	673382.71	1130944.29	1285.23	ex-cpt
19	672407.91	1130716.16	1273.52	gps ex-cpt
20	672308.95	1130745.51	1274.55	TLS#20 NAIL
21	673004.77	1130515.40	1271.32	TLS#21 NAIL
22	673312.03	1130536.44	1270.22	TLS#22 NAIL
23	673356.48	1130701.97	1269.09	TLS#23 NAIL
24	673314.66	1131119.75	1300.75	TLS#24 NAIL
25	673537.90	1130640.33	1268.22	TLS#25 NAIL
26	673293.08	1130839.46	1278.23	TLS#26 NAIL
27	672794.03	1130562.20	1271.40	TLS#27 NAIL

GENERAL NOTES:

1. ALL DISTANCES ARE HORIZONTAL UNLESS OTHERWISE NOTED.
2. HORIZONTAL DATUM IS NAD83(2011) & VERTICAL DATUM IS NAVD88.
3. CONTROL IS BASED ON EXISTING CONTROL DATA PROVIDED BY THE DESIGNER AND RECOVERED DURING THE CONSTRUCTION & AS-BUILT SURVEYS. ADDITIONAL CONTROL WAS ESTABLISHED USING TOTAL STATION METHODS AND CONFIRMED DURING AS-BUILT SURVEY. AS-BUILT CONTROL POINTS ARE LISTED ON SHEET 1.
4. THIS MAP IS NOT FOR RECORDATION, SALES, OR CONVEYANCES AND DOES NOT COMPLY WITH G.S. 47-30 MAPPING REQUIREMENTS.
5. THE PURPOSE OF THIS SURVEY IS TO SHOW THE POST CONSTRUCTION CONDITIONS OF THE STREAM AND GRADING RELATED TO THE MIDDLE SOUTH MUDDY CREEK STREAM RESTORATION PROJECT AND MAY NOT SHOW ALL UTILITIES, STRUCTURES, & BOUNDARIES.
6. INFORMATION SHOWN OUTSIDE THE LIMITS OF AS-BUILT SURVEY WAS PROVIDED BY THE DESIGNER AND WAS NOT VERIFIED BY TURNER LAND SURVEYING, PLLC.
7. NO PROPERTY RESEARCH WAS PERFORMED. FOR CONSERVATION EASEMENT SEE PLAT RECORDED IN McDOWELL COUNTY REGISTER OF DEEDS OFFICE PLAT BOOK 21, PAGE 34.

REVISIONS, DATE AND INITIAL:

1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT



3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

TITLE, VICINITY MAP, & SHEET INDEX

MIDDLE SOUTH MUDDY STREAM
RESTORATION PROJECT

NCEEP PROJECT # 93875

McDOWELL COUNTY

NORTH CAROLINA

NEBO

DATE: 05/18/2015

SURVEYED BY: DST/JAP

DRAWN BY: ROB/DST

REVIEWED BY: DST/EGT

PROJECT: TLS-15-007

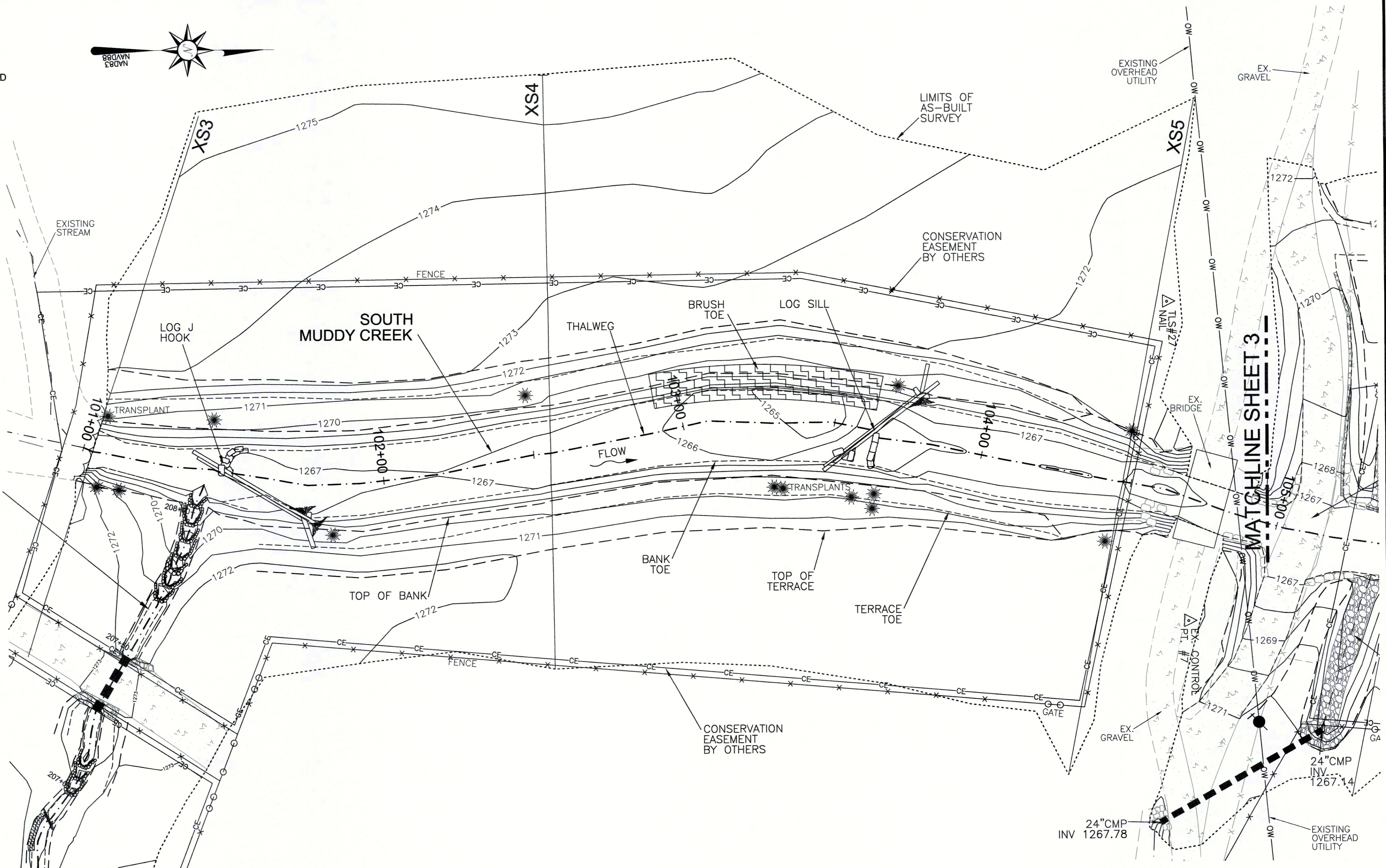
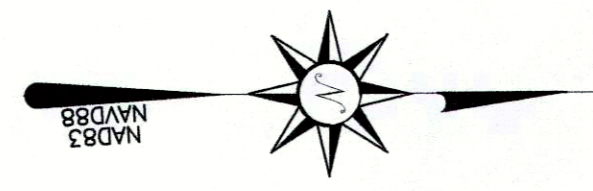
FILE: MSM CREEK_93875_AB_TLS_F.dwg

SCALE: AS SHOWN

SHEET
1 of 13

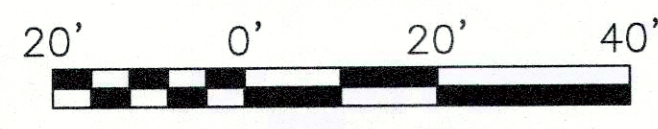
I, DAVID S. TURNER, AS A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, WAS OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD, AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN THUS ARE AS-BUILT CONDITIONS EXCEPT WHERE OTHERWISE NOTED HEREON. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS 16th DAY OF OCTOBER, 2015.

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



SPROUSE BRANCH
 SEE SHEETS 5-8

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED JULY 2015

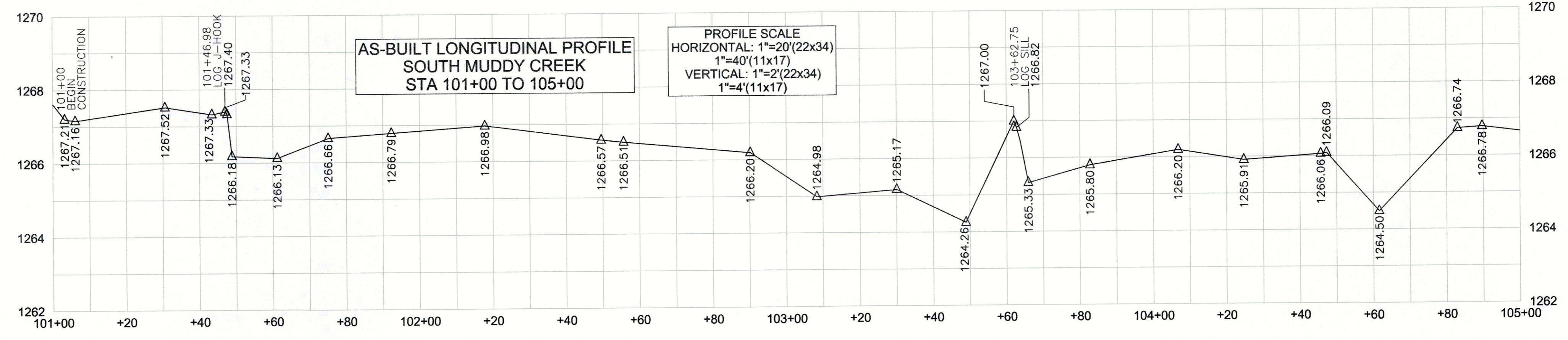


SCALE: 1"=20' (22x34)
 1"=40' (11x17)
 CONTOUR INTERVAL = 1'

NOTES:
 1. SEE SHEET 1 FOR NOTES.
 2. SEE SHEET 13 FOR CROSS SECTIONS.

LEGEND:

--- (dashed line)	THALWEG	--- (dashed line)	TOP OF BANK/TERRACE
--- (dashed line)	BANK/TERRACE TOE	--- (dashed line)	CONSERVATION EASEMENT
--- (dashed line)	FENCE	--- (dashed line)	LIMITS OF AS-BUILT SURVEY
--- (dashed line)	EXISTING FENCE	--- (dashed line)	EX. PROPERTY LINE (NOT SURVEYED)
--- (dashed line)	LOG J HOOK	△ (triangle)	CONTROL POINT
--- (dashed line)	BRUSH TOE	★ (star)	TRANSPLANT



REVISIONS, DATE AND INITIAL:
 1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

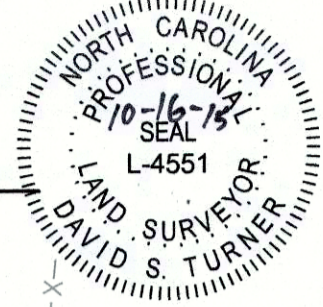
TURNER LAND SURVEYING
 3719 BENSON DRIVE
 RALEIGH, NC 27609
 P-0702 (919) 827-0745
 www.turnerlandsurveying.com
 Certified DBE/WBE

SOUTH MUDDY CREEK STA. 101+00 TO 105+00
 MIDDLE SOUTH MUDDY CREEK RESTORATION PROJECT
 NCEEP PROJECT # 93875
 McDowell County
 NORTH CAROLINA
 NEBO

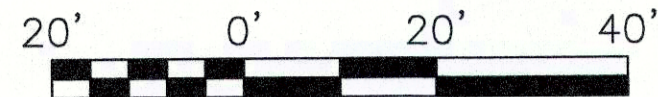
DATE:	05/19/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK_93875_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	2 of 13

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 16th DAY OF OCTOBER, 2015.

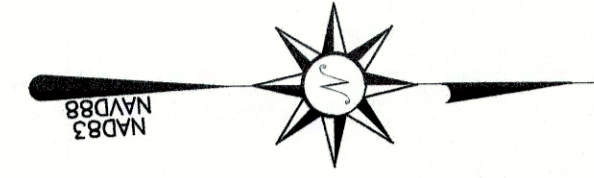
David S. Turner
DAVID S. TURNER, P.L.S. #L-4551



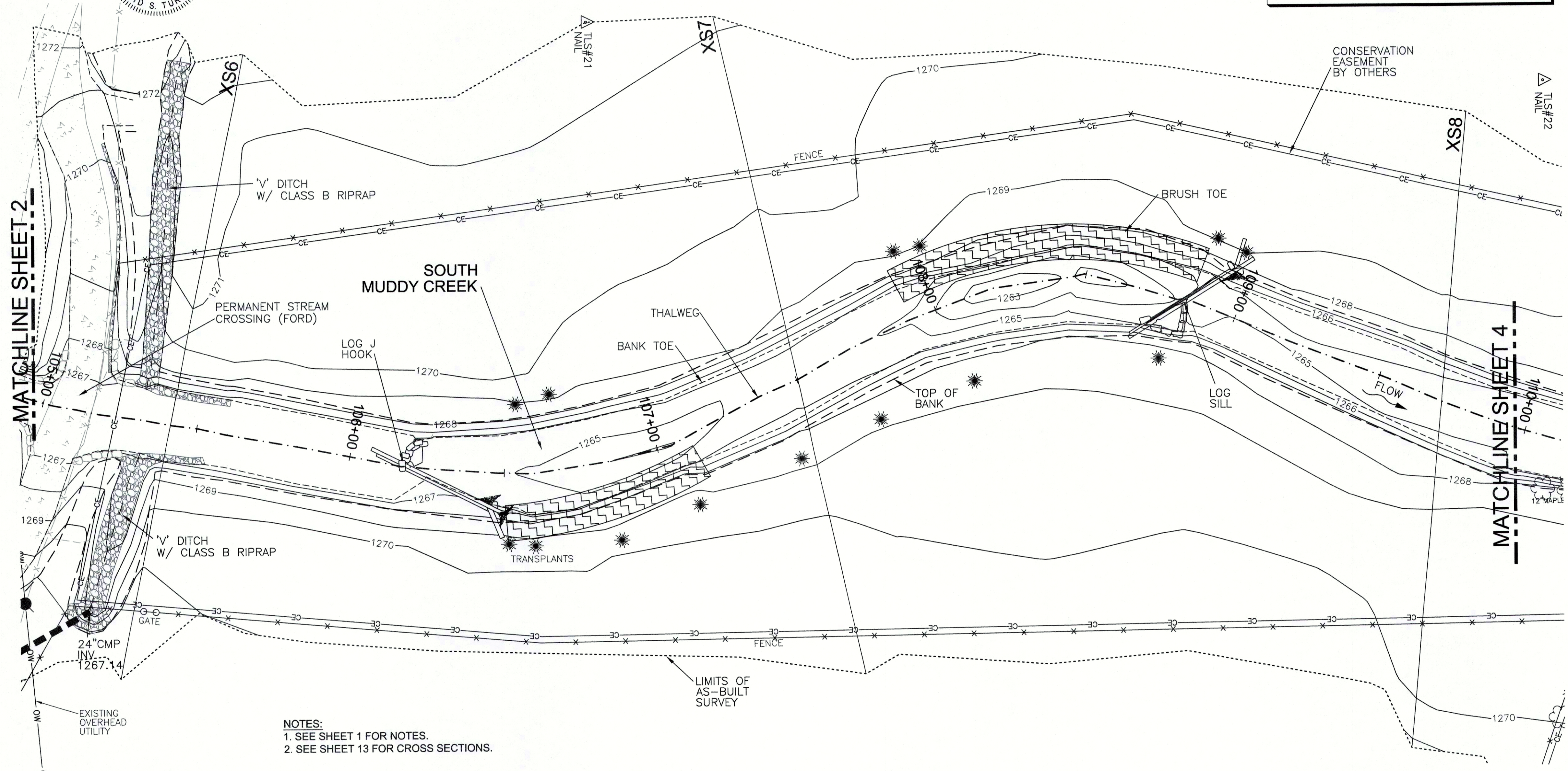
AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED JULY 2015



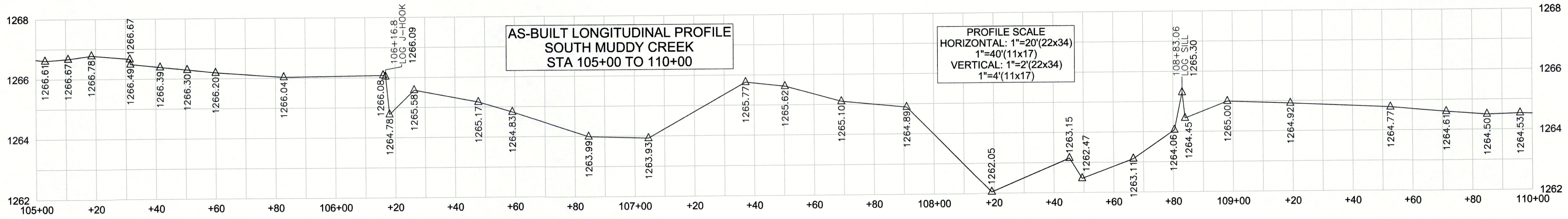
SCALE: 1"=20' (22x34)
1"=40' (11x17)
CONTOUR INTERVAL = 1'



LEGEND:	
	THALWEG
	TOP OF BANK/TERRACE
	BANK/TERRACE TOE
	CONSERVATION EASEMENT
	FENCE
	LIMITS OF AS-BUILT SURVEY
	EXISTING FENCE
	EX. PROPERTY LINE (NOT SURVEYED)
	LOG J HOOK
	LOG SILL
	BRUSH TOE
	CONTROL POINT
	TRANSPLANT



NOTES:
1. SEE SHEET 1 FOR NOTES.
2. SEE SHEET 13 FOR CROSS SECTIONS.



SOUTH MUDDY CREEK STA. 105+00 TO 110+00
MIDDLE SOUTH MUDDY CREEK RESTORATION PROJECT
NCEEP PROJECT # 93875

3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE



REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/16/15, EGT

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK_93875_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	3 of 13

NORTH CAROLINA
MCDOWELL COUNTY
NEBO

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 16th DAY OF OCTOBER, 2015.

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



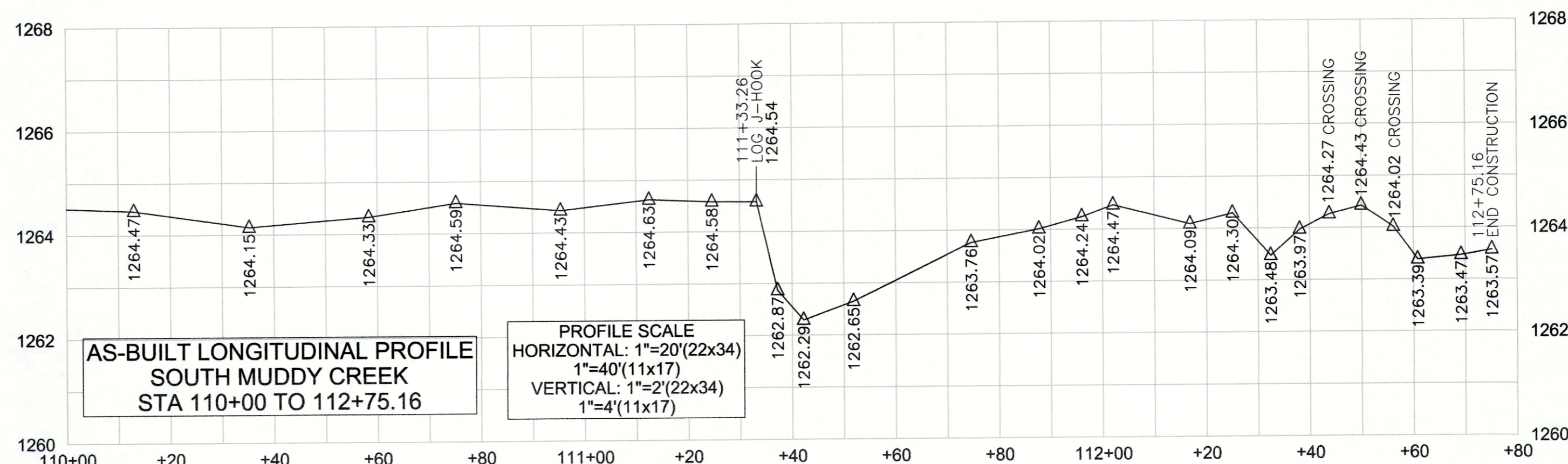
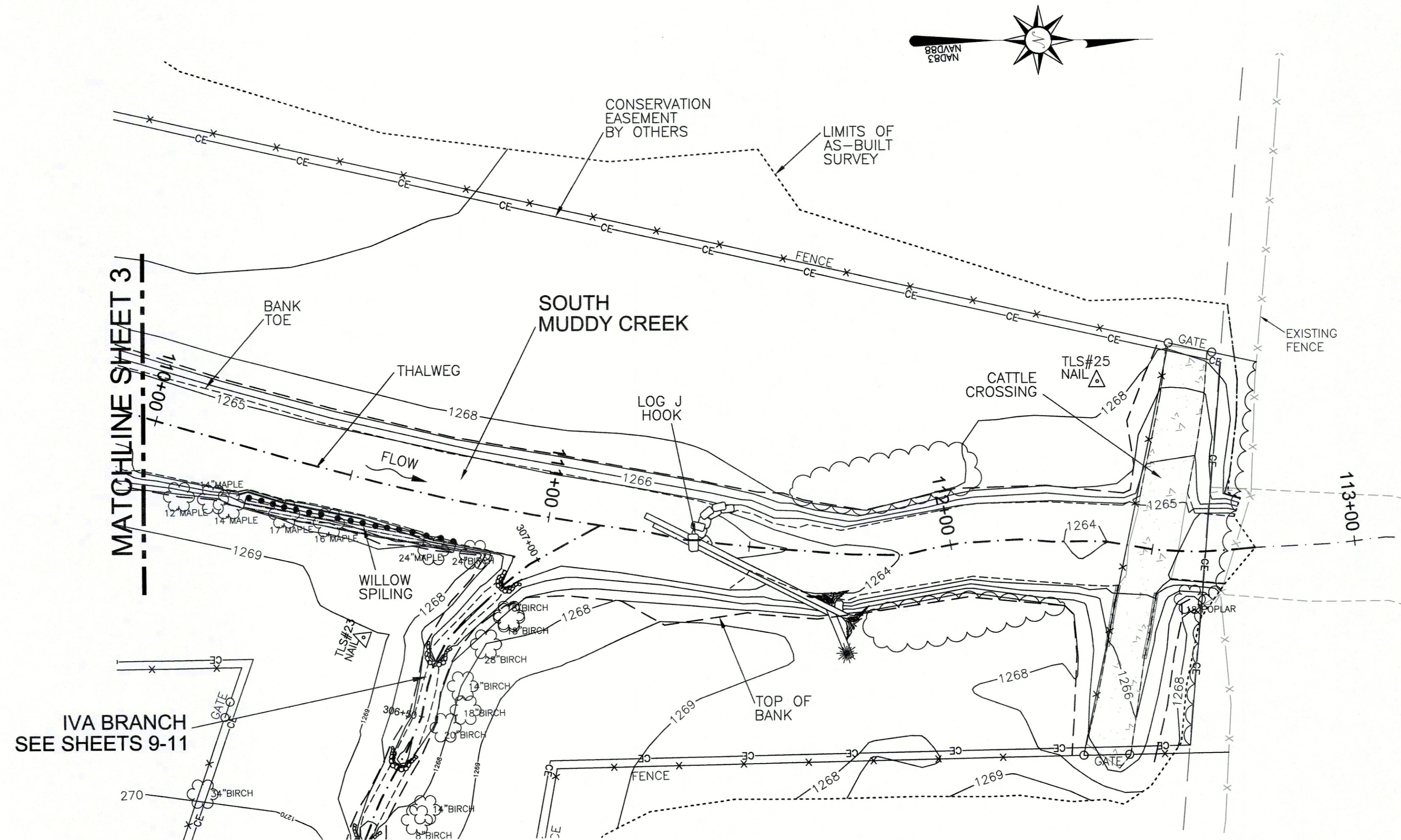
AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED JULY 2015

20' 0' 20' 40'

SCALE: 1"=20' (22x34)
1"=40' (11x17)
CONTOUR INTERVAL = 1'

LEGEND:	
	THALWEG
	TOP OF BANK/TERRACE
	BANK/TERRACE TOE
	CONSERVATION EASEMENT
	FENCE
	LIMITS OF AS-BUILT SURVEY
	EXISTING FENCE
	EX. PROPERTY LINE (NOT SURVEYED)
	LOG J HOOK
	CONTROL POINT
	BRUSH TOE
	TRANSPLANT

NOTES:
1. SEE SHEET 1 FOR NOTES.
2. SEE SHEET 13 FOR CROSS SECTIONS.



REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY SHEET 8 & SHEET 11, 10/16/15, EGT

TURNER
LAND SURVEYING

3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

SOUTH MUDDY CREEK STA. 110+00 TO 113+00

MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT

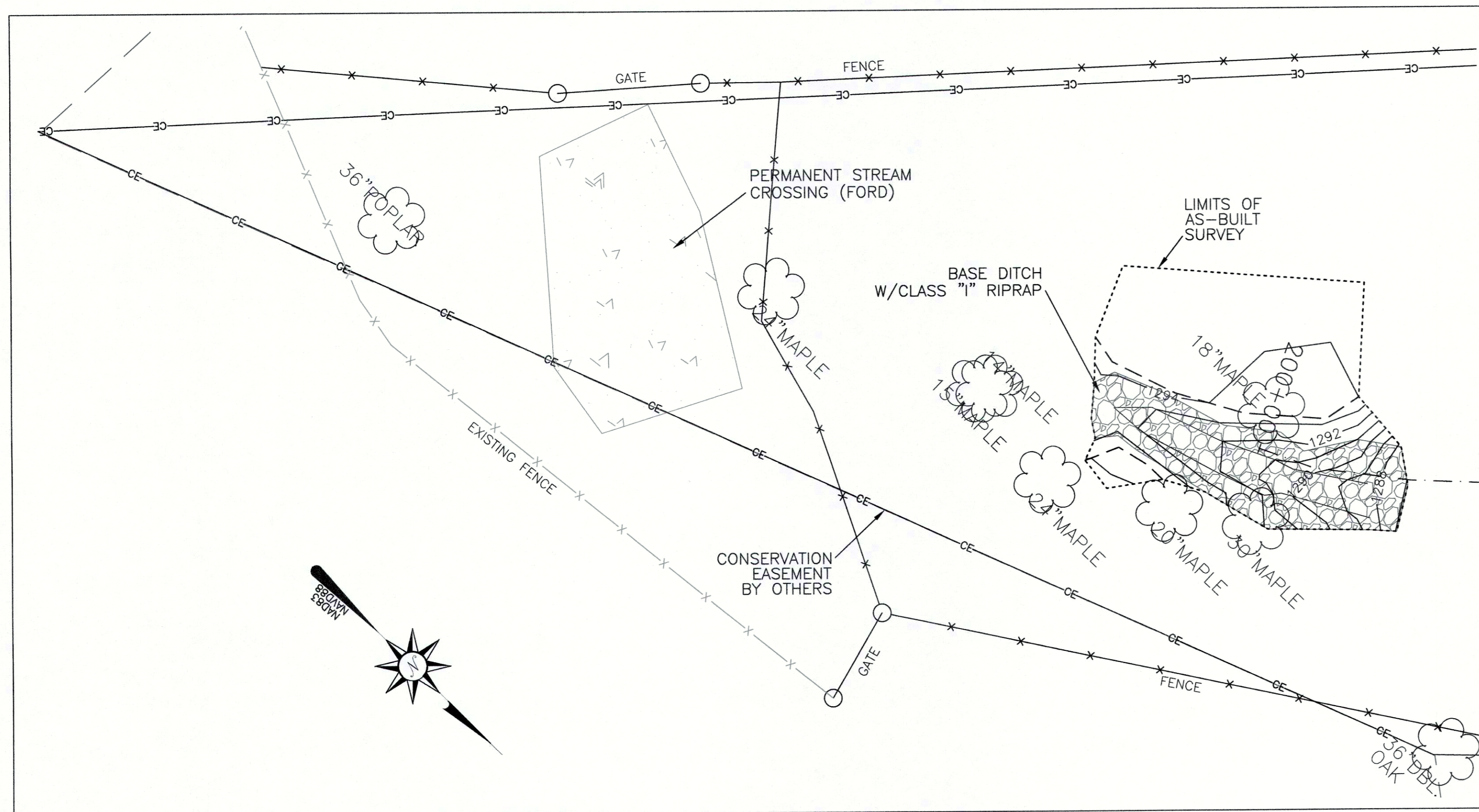
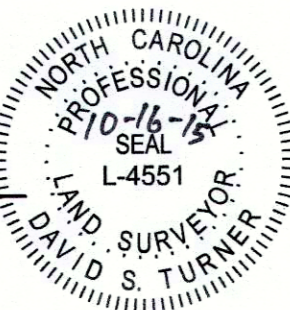
NCEEP PROJECT # 93875
McDOWELL COUNTY

NORTH CAROLINA

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK 93875_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	4 of 13

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 16th DAY OF OCTOBER, 2015.

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



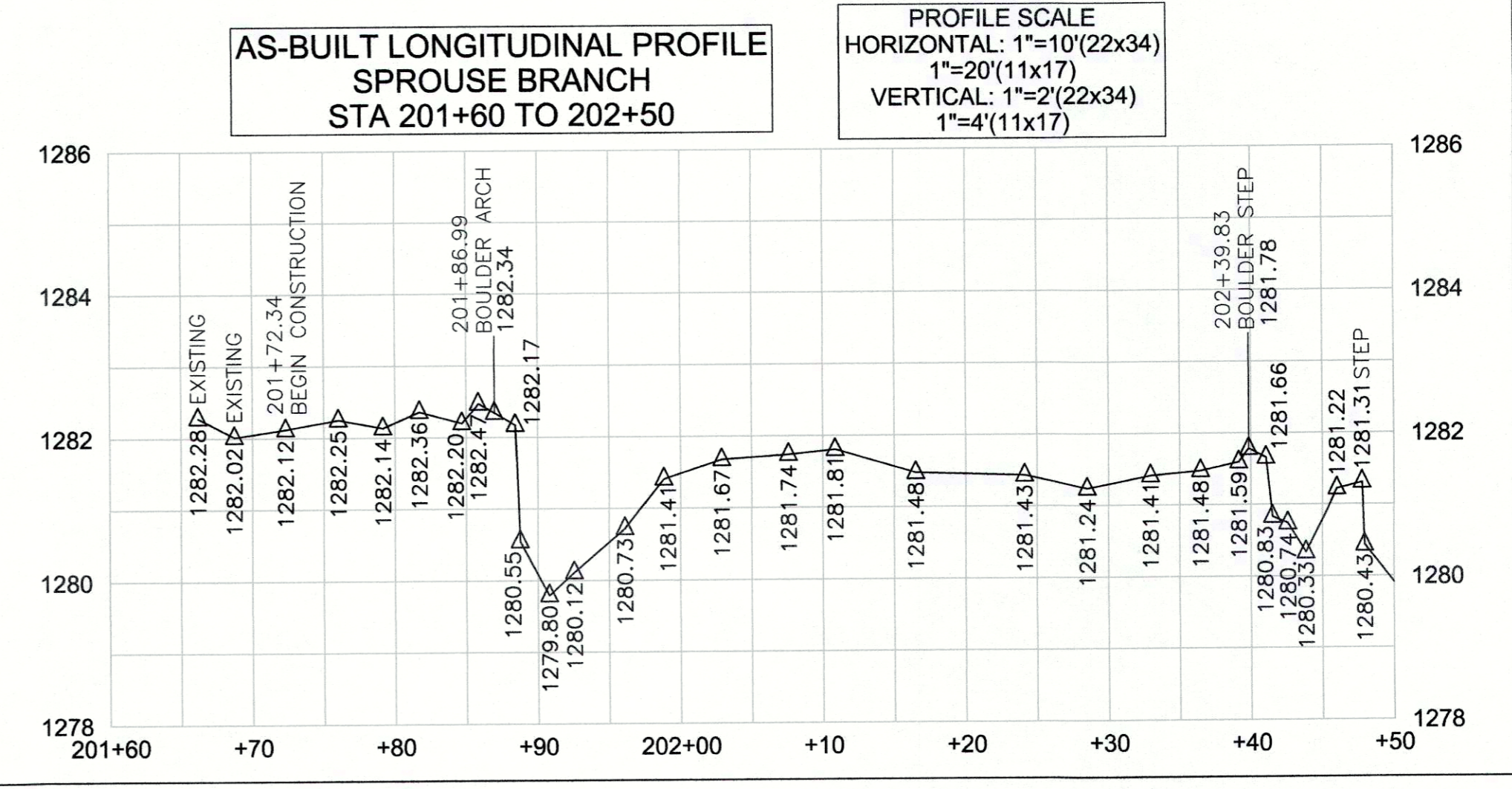
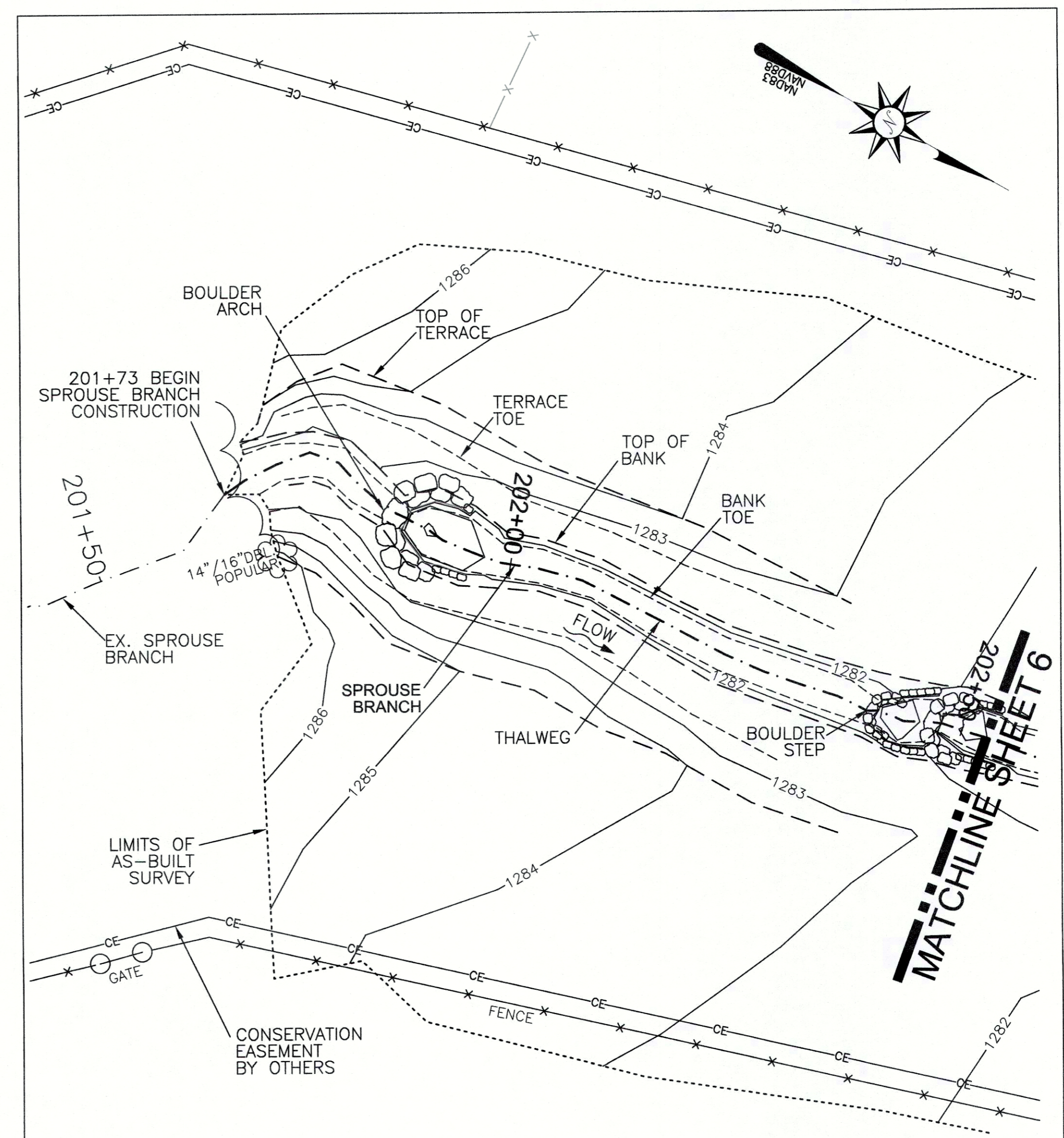
LEGEND:	
--- THALWEG	BOULDER ARCH
- - - TOP OF BANK/TERRACE	BOULDER STEP
- - - BANK/TERRACE TOE	LOG SILL
- - - CE CONSERVATION EASEMENT	BRUSH TOE
x-x-x FENCE	RIPRAP
- - - LIMITS OF AS-BUILT SURVEY	
x-x-x EXISTING FENCE	
- - - EX. PROPERTY LINE (NOT SURVEYED)	
☀ TRANSPLANT	△ CONTROL POINT

AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED MAY & JULY 2015

10' 0' 10' 20'

SCALE: 1"=10' (22x34)
1"=20' (11x17)
CONTOUR INTERVAL = 1'

NOTES:
1. SEE SHEET 1 FOR NOTES.



3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

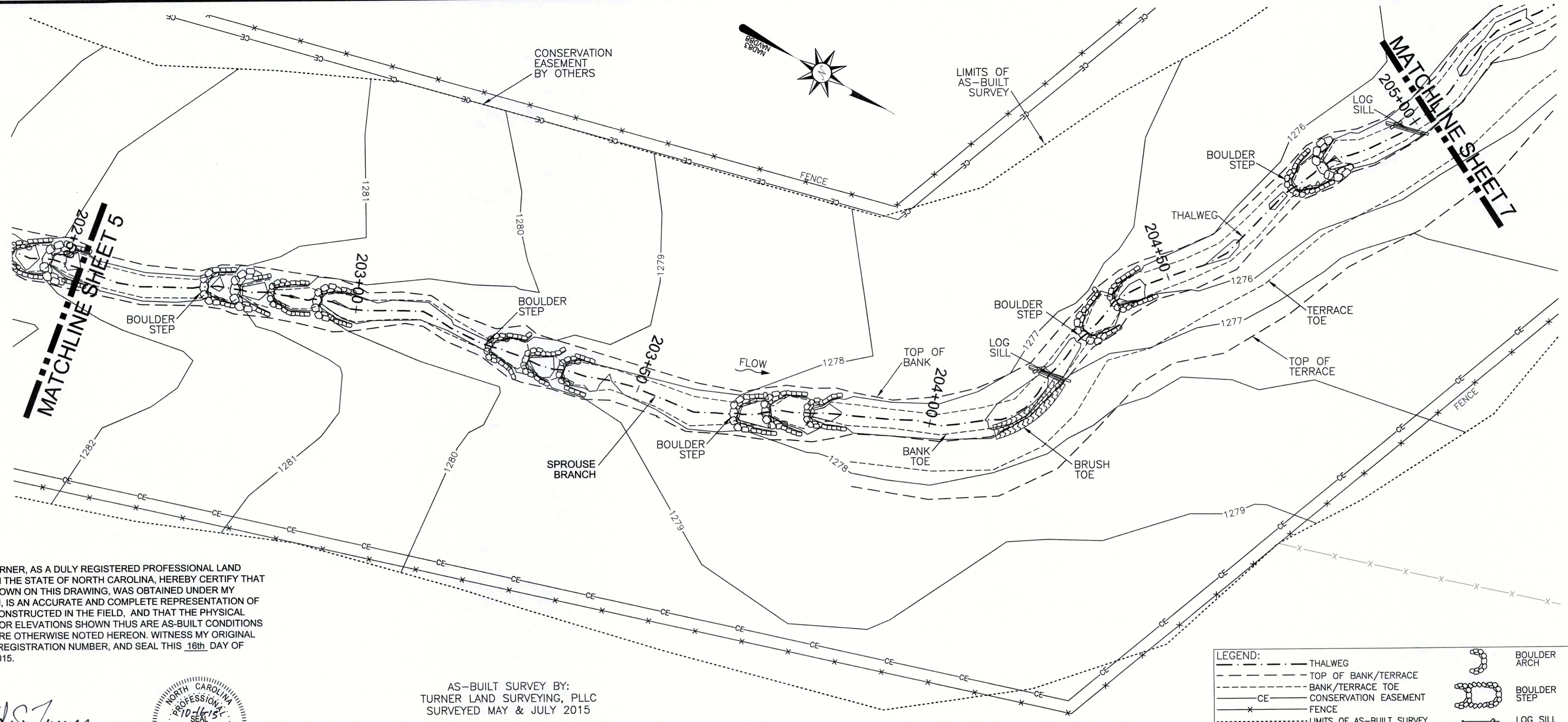


REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

SPROUSE BRANCH STA. 200+00 TO 202+50
MIDDLE SOUTH MUDDY STREAM
RESTORATION PROJECT
NCEEP PROJECT # 93875

NORTH CAROLINA
MCDOWELL COUNTY
NEBO

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK 93875 _AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	5 of 13



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 16th DAY OF OCTOBER, 2015.

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



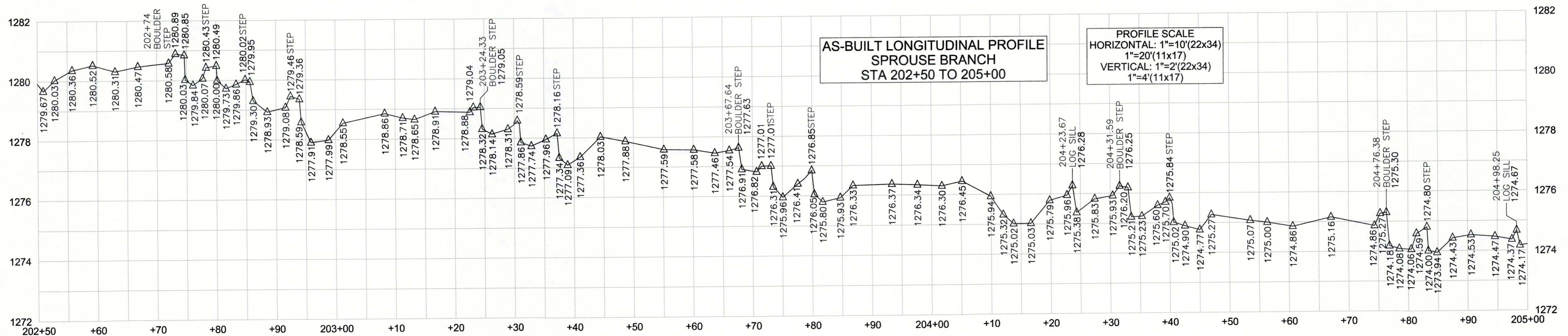
AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED MAY & JULY 2015

SCALE: 1"=10' (22x34)
1"=20' (11x17)
CONTOUR INTERVAL = 1'

NOTES:
1. SEE SHEET 1 FOR NOTES.

LEGEND:

	THALWEG		BOULDER ARCH
	TOP OF BANK/TERRACE		BOULDER STEP
	BANK/TERRACE TOE		LOG SILL
	CONSERVATION EASEMENT		BRUSH TOE
	FENCE		RIPRAP
	LIMITS OF AS-BUILT SURVEY		TRANSPLANT
	EXISTING FENCE		CONTROL POINT
	EX. PROPERTY LINE (NOT SURVEYED)		

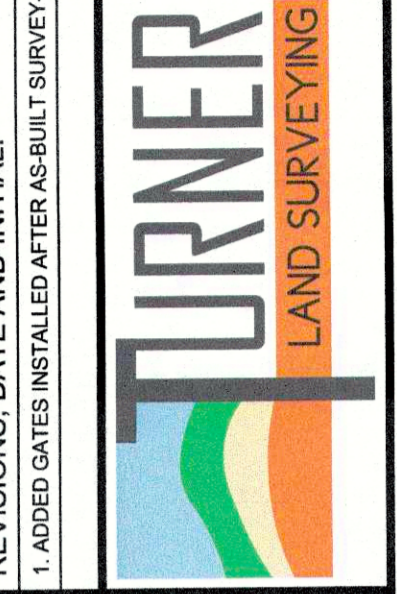


SPROUSE BRANCH STA. 202+50 TO 205+00

MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT

NCEEP PROJECT # 93875

TURNER LAND SURVEYING
3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE



REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK_93875_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	6 of 13

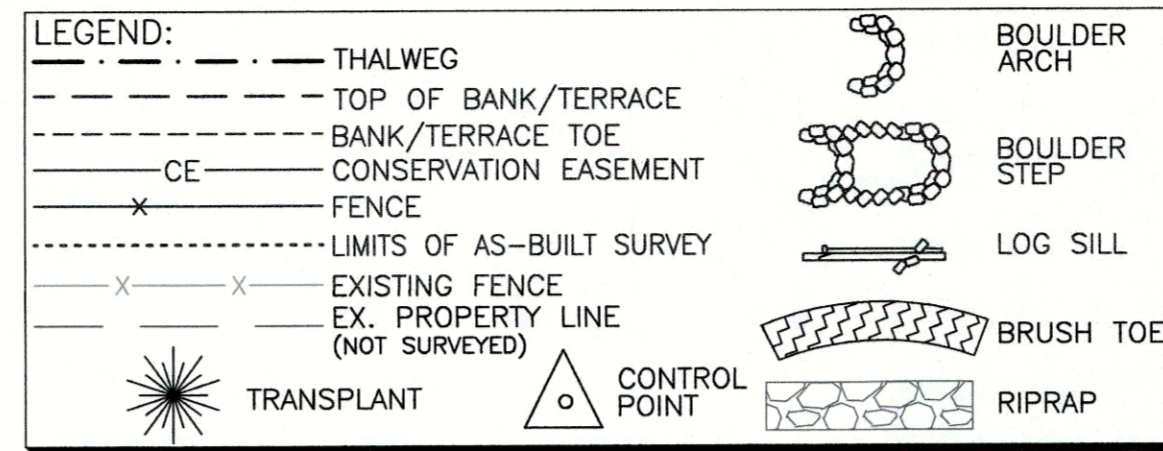
NORTH CAROLINA
McDOWELL COUNTY
NEBO

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 18th DAY OF OCTOBER, 2015.

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



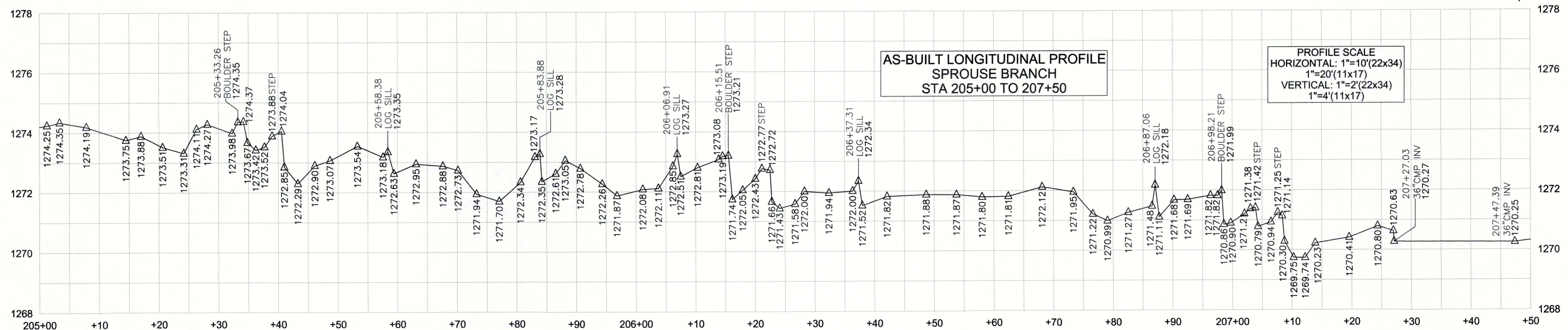
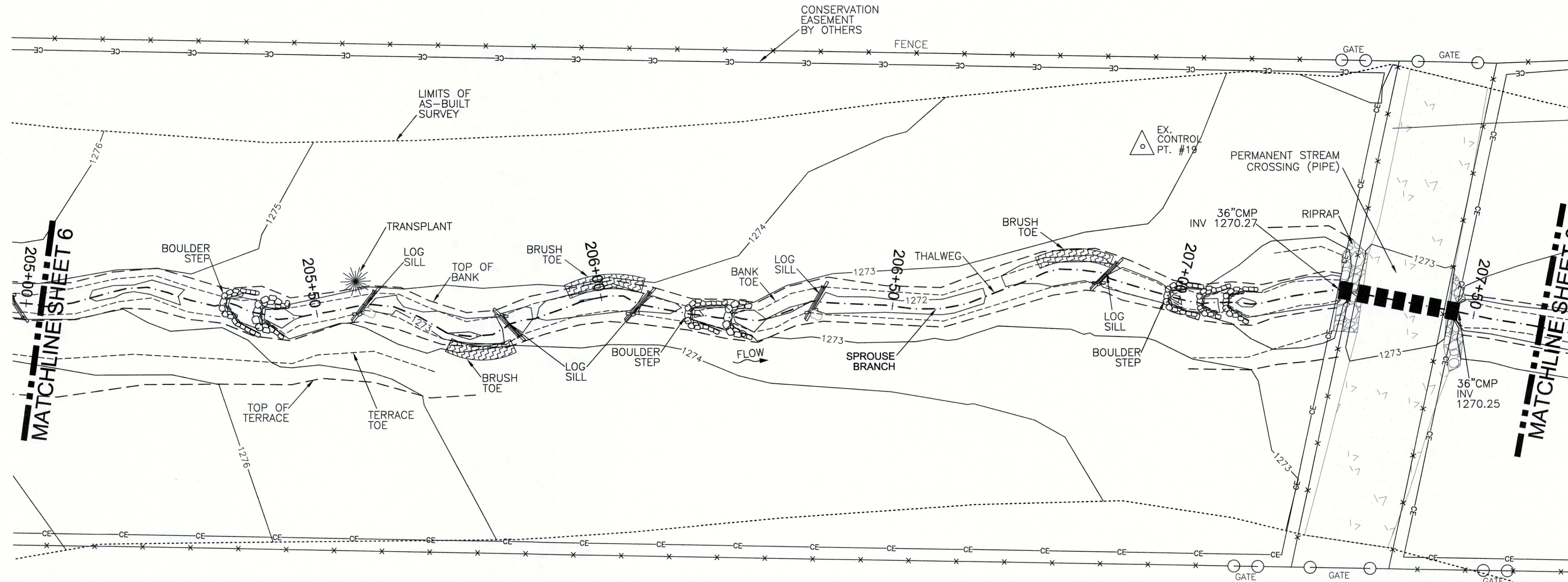
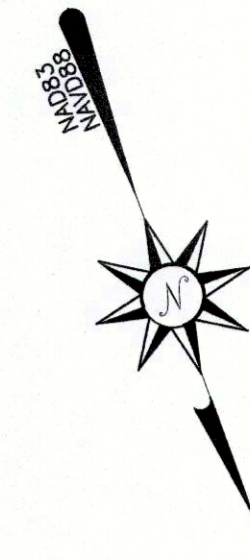
NOTES:
1. SEE SHEET 1 FOR NOTES.



AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED MAY & JULY 2015

10' 0' 10' 20'

SCALE: 1"=10' (22x34)
1"=20' (11x17)
CONTOUR INTERVAL = 1'



SPROUSE BRANCH STA. 205+00 TO 207+50

MIDDLE SOUTH MUDDY STREAM
RESTORATION PROJECT

NCEEP PROJECT # 93875

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK_93875 AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	7 of 13

REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

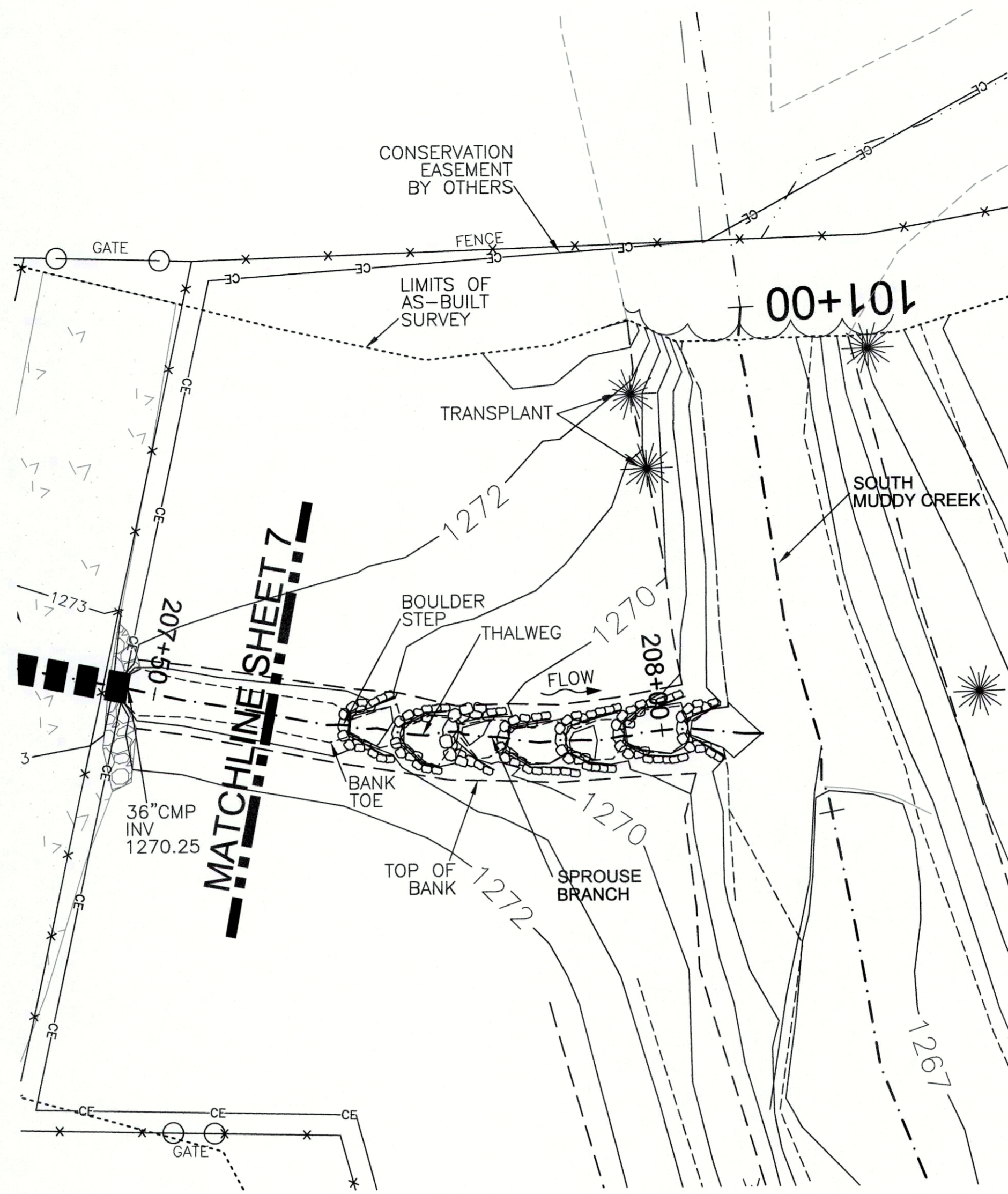
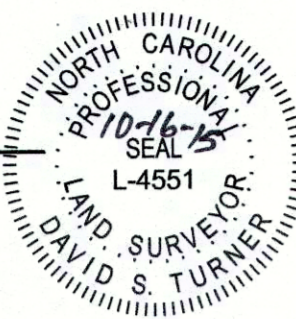
TURNER LAND SURVEYING

3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

NORTH CAROLINA
McDOWELL COUNTY
NEBO

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 16th DAY OF OCTOBER, 2015.

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

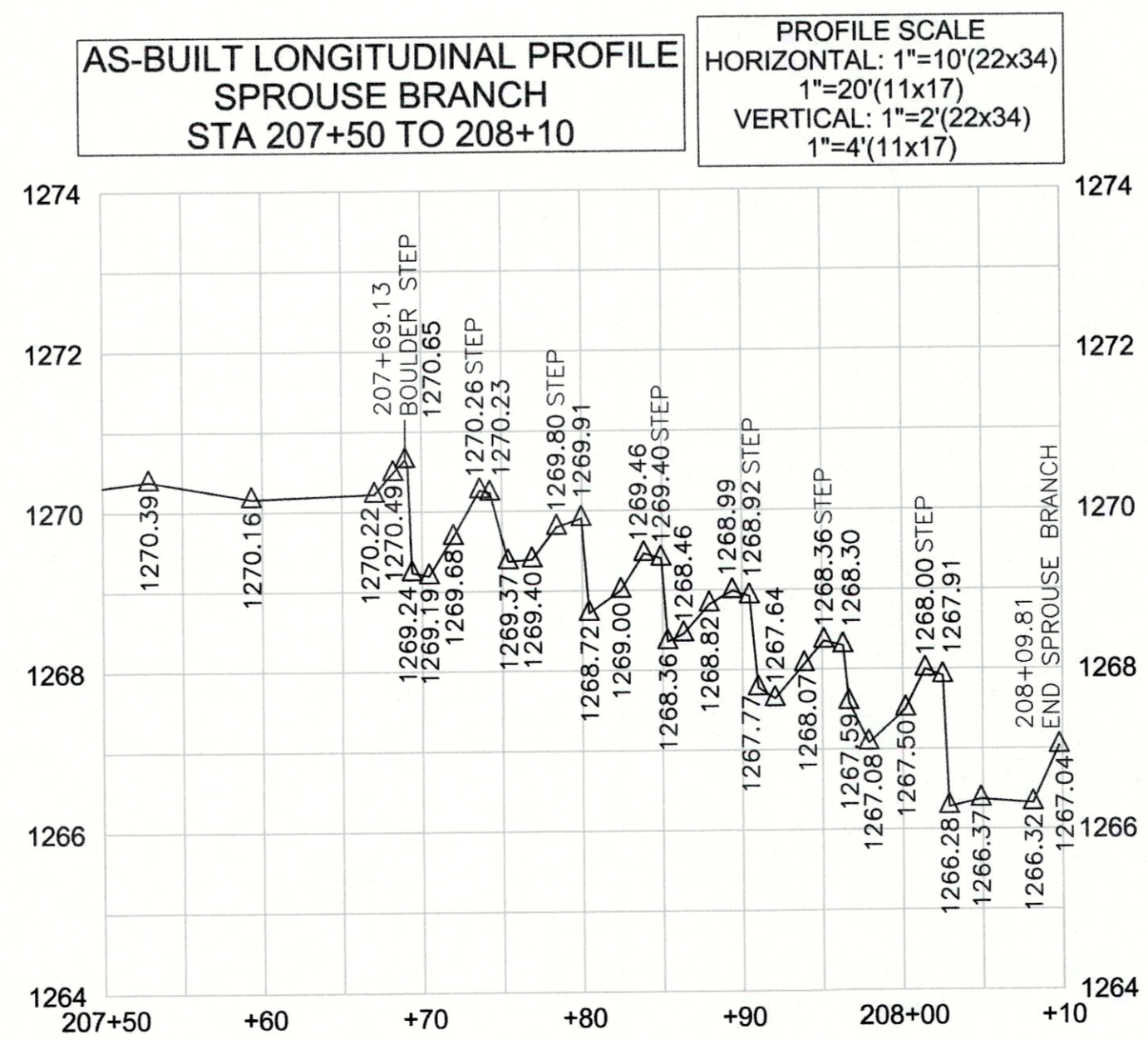


LEGEND:	
	THALWEG
	TOP OF BANK/TERRACE
	BANK/TERRACE TOE
	CONSERVATION EASEMENT
	FENCE
	LIMITS OF AS-BUILT SURVEY
	EXISTING FENCE
	EX. PROPERTY LINE (NOT SURVEYED)
	TRANSPLANT
	CONTROL POINT
	BOULDER ARCH
	BOULDER STEP
	LOG SILL
	BRUSH TOE
	RIPRAP

AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED MAY & JULY 2015

SCALE: 1"=10' (22x34)
1"=20' (11x17)
CONTOUR INTERVAL = 1'

NOTES:
1. SEE SHEET 1 FOR NOTES.



REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

TURNER
LAND SURVEYING

3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

SPROUSE BRANCH STA. 207+50 TO 208+10

MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT

NCEEP PROJECT # 93875

McDOWELL COUNTY

NORTH CAROLINA

NEBO

DATE: 05/18/2015

SURVEYED BY: DST/JAP

DRAWN BY: ROB/DST

REVIEWED BY: DST/EGT

PROJECT: TLS-15-007

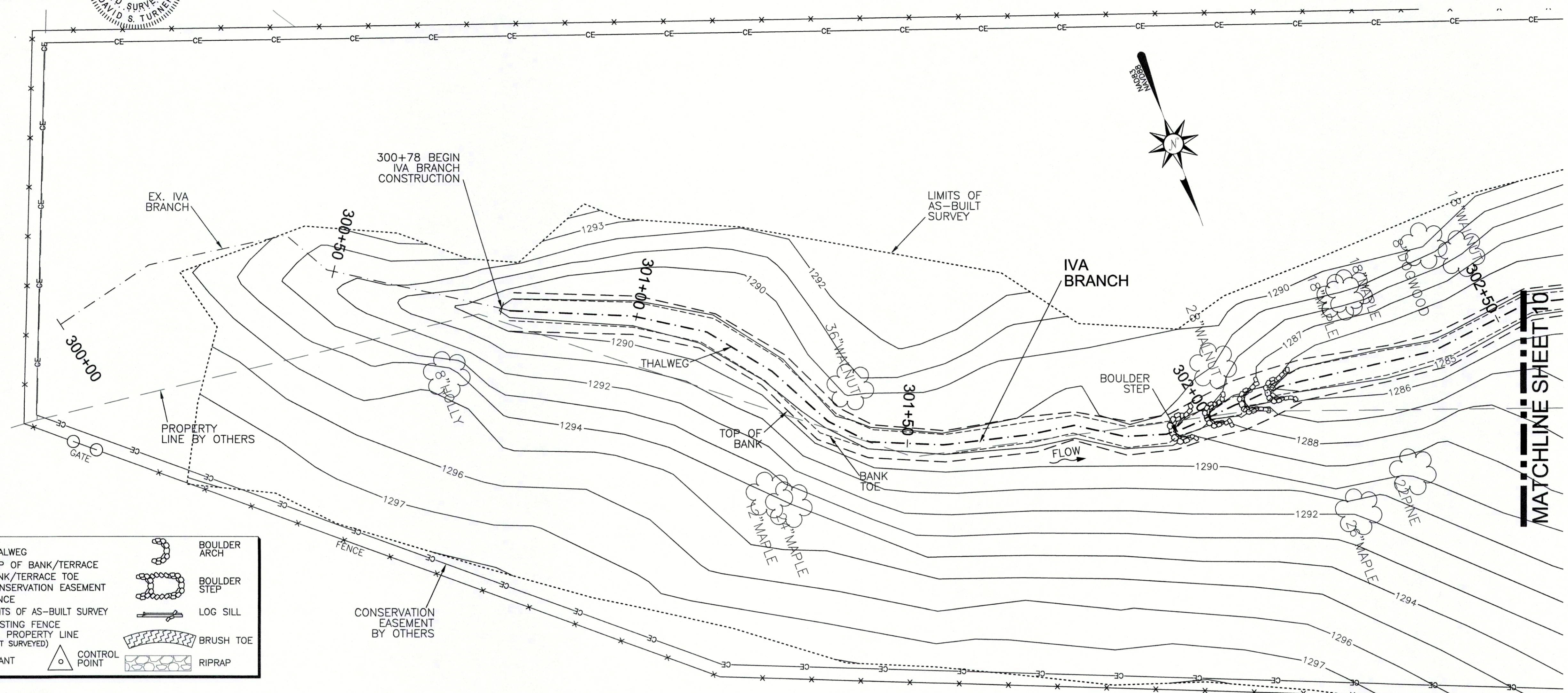
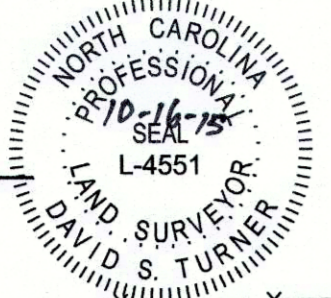
FILE: MSM CREEK_93875_AB_TLS_F.dwg

SCALE: AS SHOWN

SHEET 8 of 13

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 16th DAY OF OCTOBER, 2015.

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



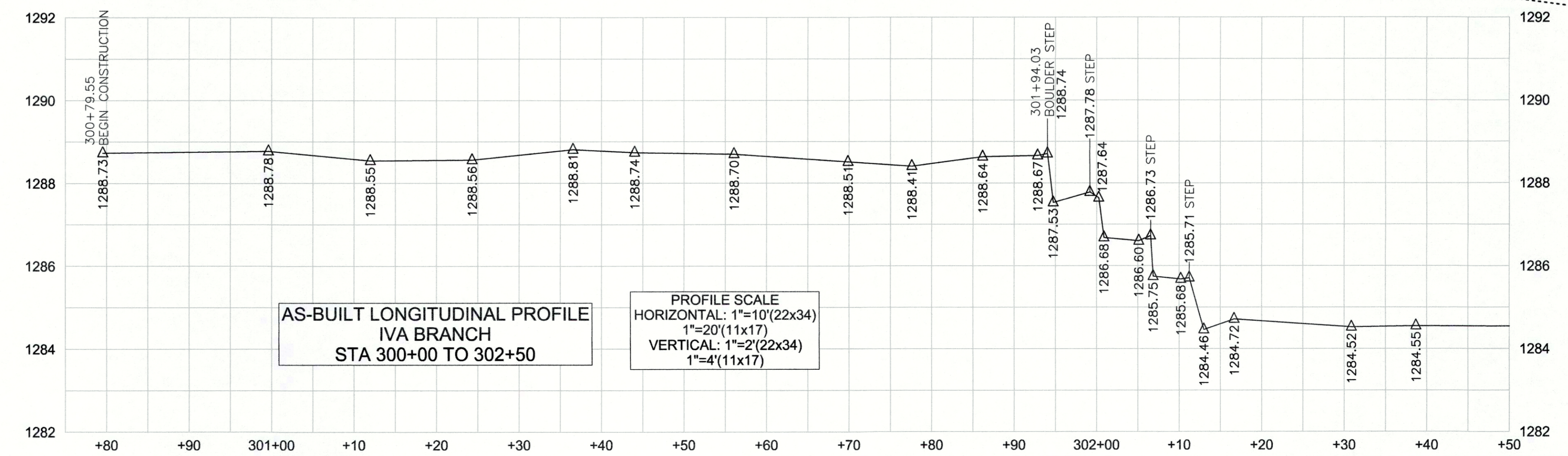
LEGEND:

--- THALWEG	BOULDER ARCH
- - - TOP OF BANK/TERRACE	BOULDER STEP
- - - BANK/TERRACE TOE	LOG SILL
--- CE CONSERVATION EASEMENT	BRUSH TOE
- - - FENCE	RIPRAP
- - - LIMITS OF AS-BUILT SURVEY	
- - - EXISTING FENCE	
- - - EX. PROPERTY LINE (NOT SURVEYED)	
☀ TRANSPLANT	△ CONTROL POINT

AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED MAY & JULY 2015

SCALE: 1"=10' (22x34)
1"=20' (11x17)
CONTOUR INTERVAL = 1'

NOTES:
1. SEE SHEET 1 FOR NOTES.



REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

TURNER
LAND SURVEYING

3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

IVA BRANCH STA. 300+00 TO 302+50

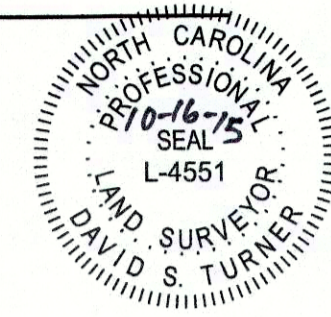
**MIDDLE SOUTH MUDDY STREAM
RESTORATION PROJECT**

NCEEP PROJECT # 93875
McDOWELL COUNTY
NORTH CAROLINA

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK_93875_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	9 of 13

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 16th DAY OF OCTOBER, 2015.

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



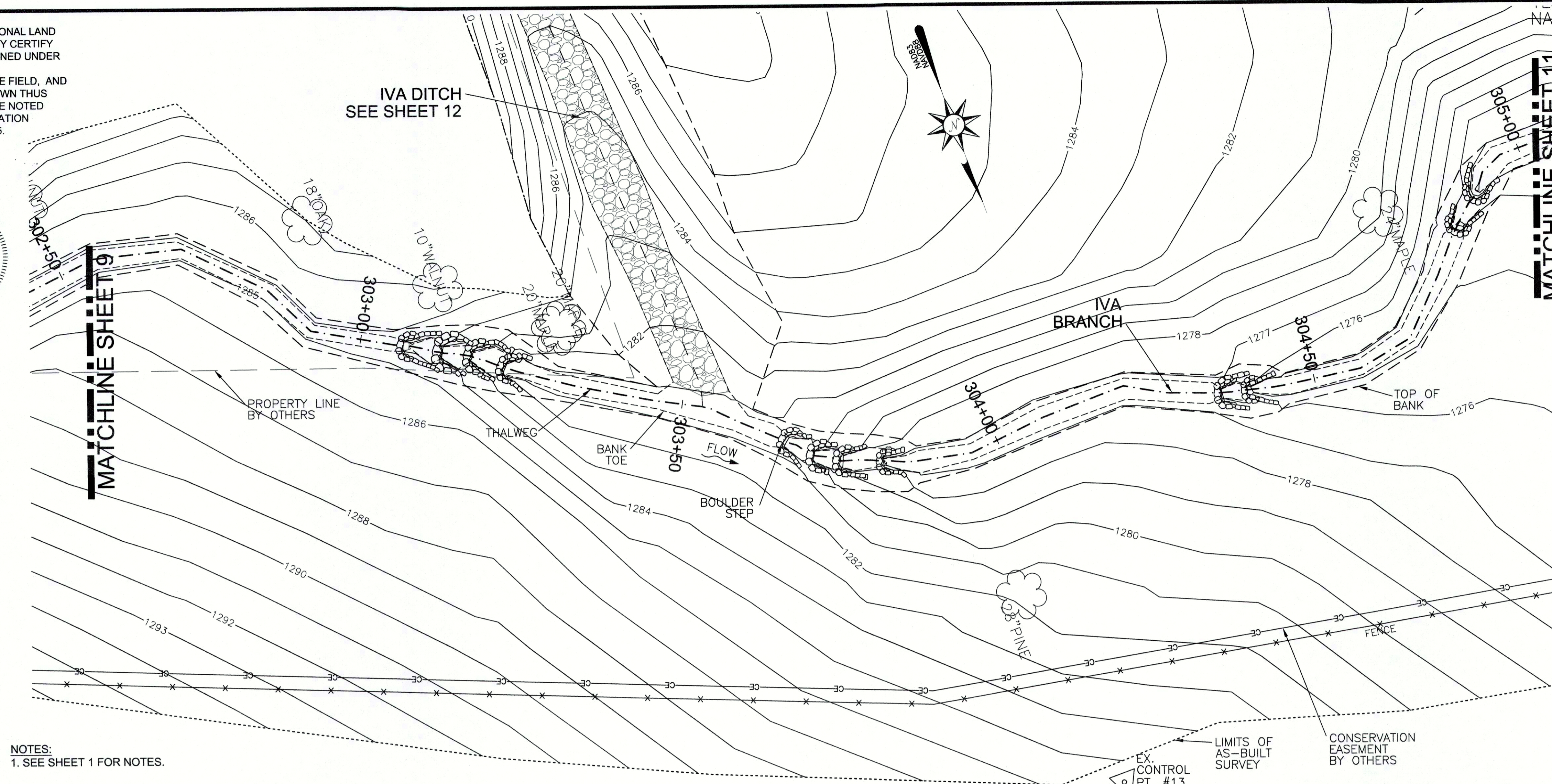
AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED MAY & JULY 2015



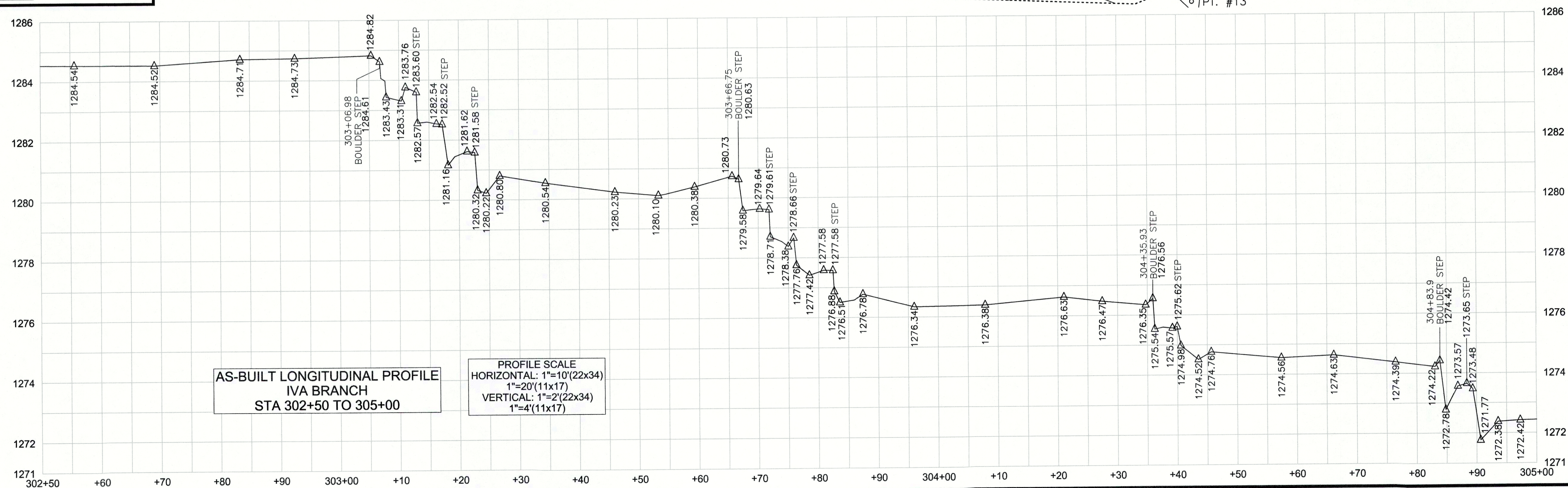
SCALE: 1"=10' (22x34)
1"=20' (11x17)
CONTOUR INTERVAL = 1'

LEGEND:

- THALWEG
- - - TOP OF BANK/TERRACE
- - - BANK/TERRACE TOE
- - - CE CONSERVATION EASEMENT
- - - FENCE
- - - LIMITS OF AS-BUILT SURVEY
- - - EXISTING FENCE
- - - EX. PROPERTY LINE (NOT SURVEYED)
- ☀ TRANSPLANT
- ⬠ BOULDER ARCH
- ⬠ CONTROL POINT
- ⬠ BOULDER STEP
- ⬠ LOG SILL
- ▨ BRUSH TOE
- ▨ RIPRAP



NOTES:
1. SEE SHEET 1 FOR NOTES.



REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

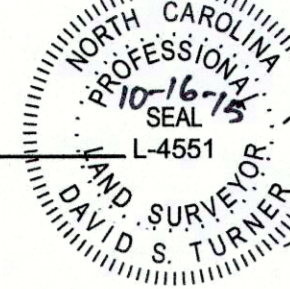
TURNER
LAND SURVEYING
3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified LBE/MBE

IVA BRANCH STA. 302+50 TO 305+00
MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT
NCEEP PROJECT # 93875
McDOWELL COUNTY
NORTH CAROLINA
NEBO

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK 93875_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	10 of 13

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 16th DAY OF OCTOBER, 2015.

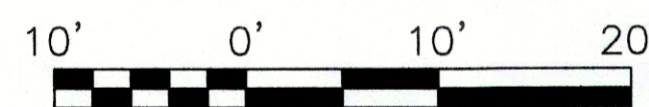
David S. Turner
DAVID S. TURNER, P.L.S. #L-4551



LEGEND:

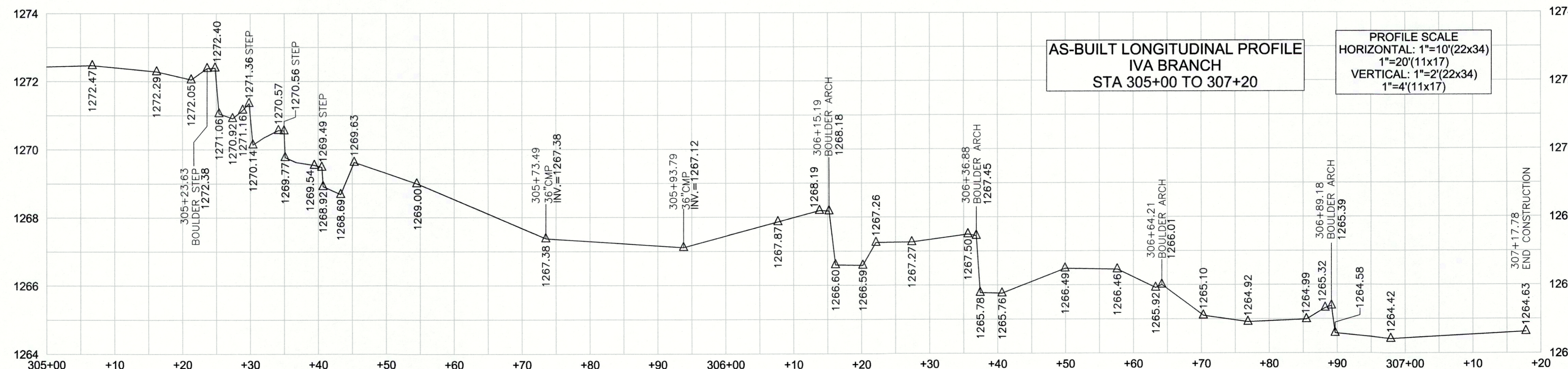
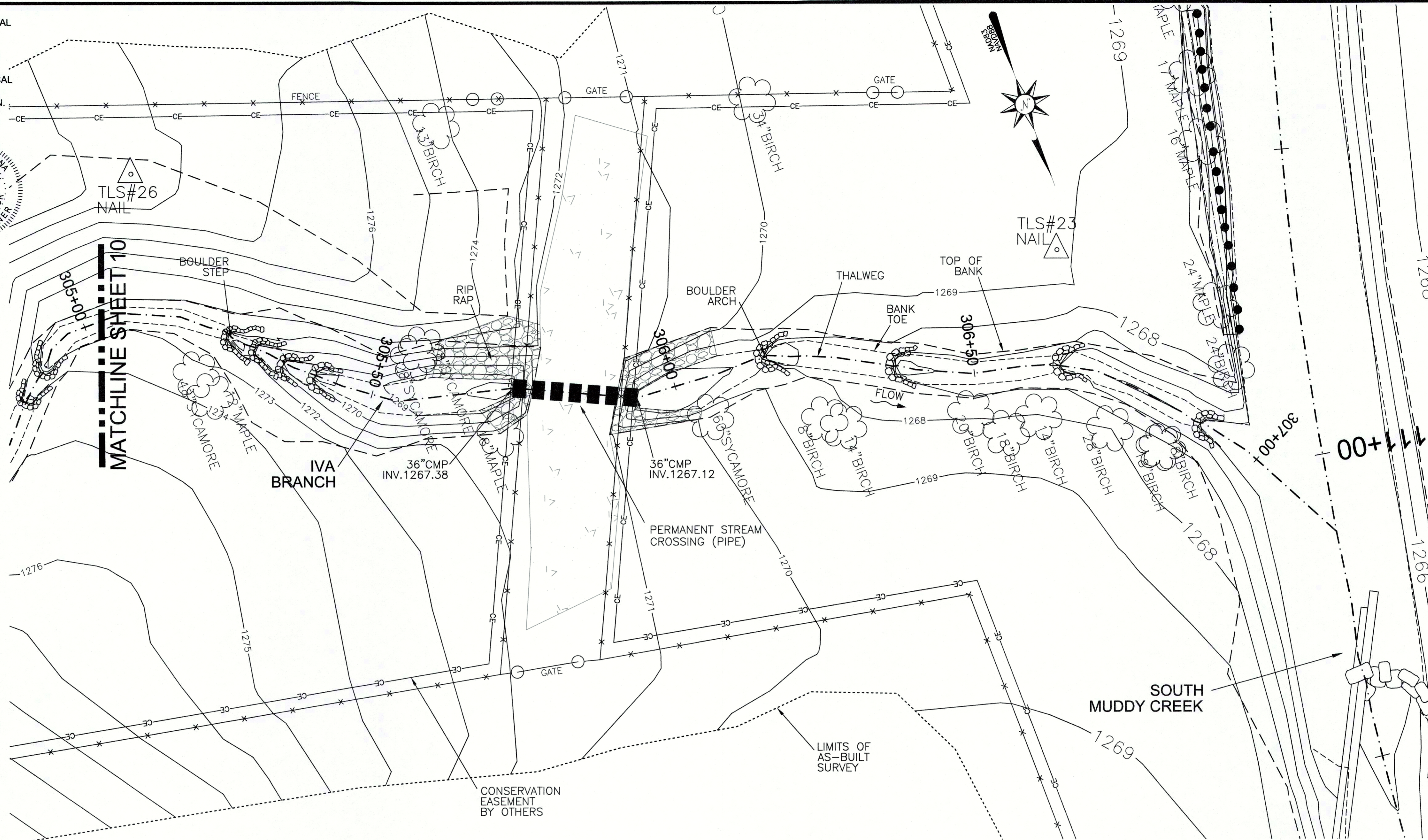
	THALWEG
	TOP OF BANK/TERRACE
	BANK/TERRACE TOE
	CONSERVATION EASEMENT
	FENCE
	LIMITS OF AS-BUILT SURVEY
	EXISTING FENCE
	EX. PROPERTY LINE (NOT SURVEYED)
	TRANSPLANT
	CONTROL POINT
	BOULDER ARCH
	BOULDER STEP
	LOG SILL
	BRUSH TOE
	RIPRAP

AS-BUILT SURVEY BY:
TURNER LAND SURVEYING, PLLC
SURVEYED MAY & JULY 2015



SCALE: 1"=10' (22x34)
1"=20' (11x17)
CONTOUR INTERVAL = 1'

NOTES:
1. SEE SHEET 1 FOR NOTES.



TURNER LAND SURVEYING
3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

IVA BRANCH STA. 305+00 TO 307+00
MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT
NCEEP PROJECT # 93875

REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY SHEETS 8 & SHEET 11, 10/15/15 EGT

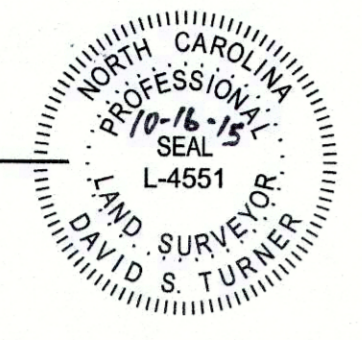
DATE: 05/18/2015
SURVEYED BY: DST/JAP
DRAWN BY: ROB/DST
REVIEWED BY: DST/EGT
PROJECT: TLS-15-007
FILE: MSM CREEK_93875_AB_TLS_F.dwg
SCALE: AS SHOWN

SHEET 11 of 13

MCDOWELL COUNTY
NORTH CAROLINA
NEBO

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 16th DAY OF OCTOBER, 2015.

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



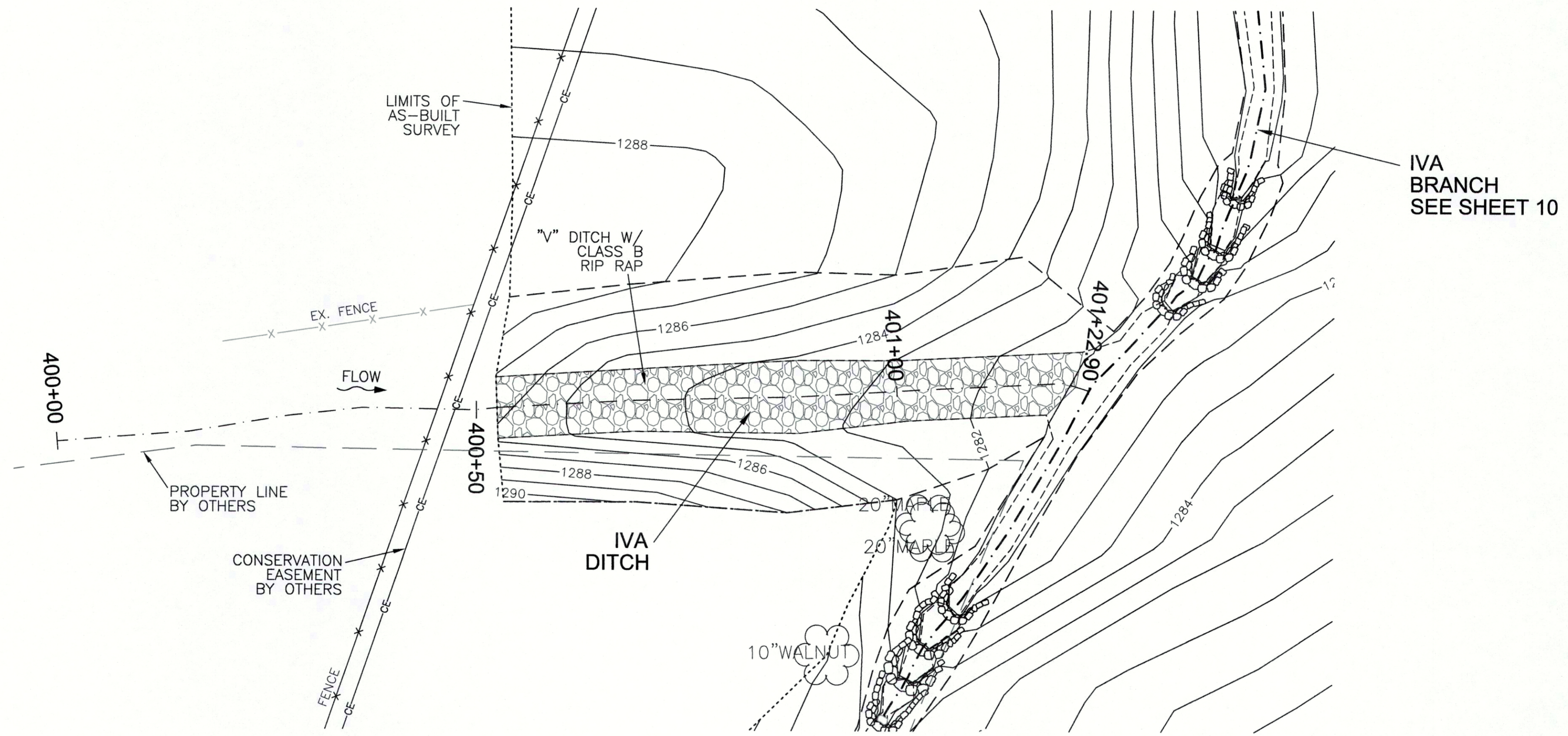
LEGEND:

	THALWEG
	TOP OF BANK/TERRACE
	BANK/TERRACE TOE
	CONSERVATION EASEMENT
	FENCE
	LIMITS OF AS-BUILT SURVEY
	EXISTING FENCE
	EX. PROPERTY LINE (NOT SURVEYED)
	RIPRAP
	CONTROL POINT

AS-BUILT SURVEY BY:
 TURNER LAND SURVEYING, PLLC
 SURVEYED MAY & JULY 2015

10' 0' 10' 20'
 SCALE: 1"=10' (22x34)
 1"=20' (11x17)
 CONTOUR INTERVAL = 1'

NOTES:
 1. SEE SHEET 1 FOR NOTES.



REVISIONS, DATE AND INITIAL:
 1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 8 & SHEET 11, 10/15/15, EGT

TURNER
 LAND SURVEYING

3719 BENSON DRIVE
 RALEIGH, NC 27609
 P-0702 (919) 827-0745
 www.turnerlandsurveying.com
 Certified DBE/WBE

IVA DITCH STA. 400+00 TO 401+22.90

MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT

NCEEP PROJECT # 93875

NORTH CAROLINA
 McDOWELL COUNTY

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK_93875_AB_TLS_F.dwg
SCALE:	AS SHOWN

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 16th DAY OF OCTOBER, 2015.

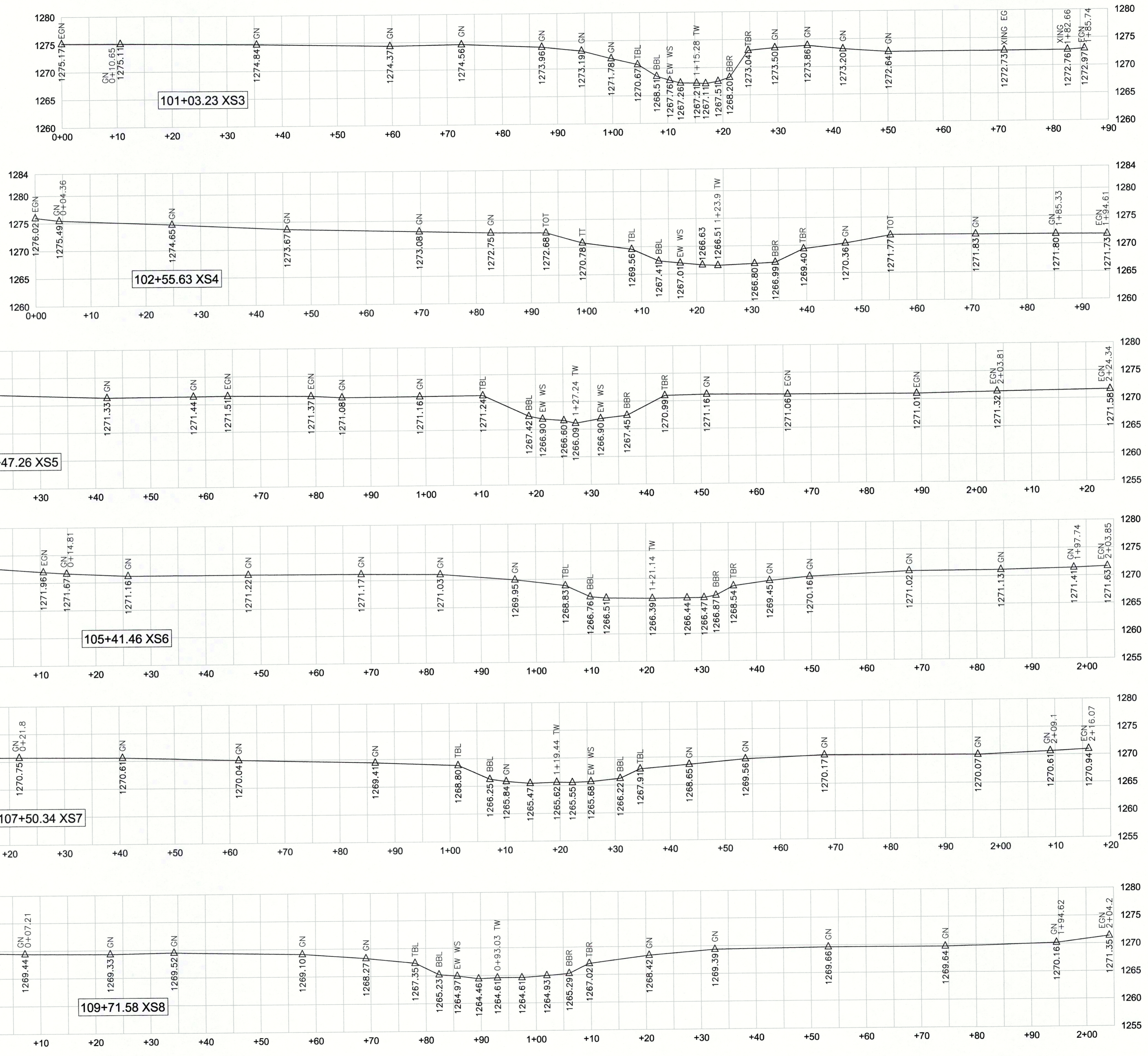
David S. Turner
DAVID S. TURNER, P.L.S. #L-4551



CROSS SECTION SCALE
HORIZONTAL: 1"=10'(22x34)
1"=20'(11x17)
VERTICAL: 1"=10'(22x34)
1"=20'(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
EW-EDGE OF WATER
WS-WATER SURFACE
XING-CROSSING
TOT-TOP OF TERRACE
TT-TERRACE TOE

NOTES:
1. SEE SHEET 1 FOR NOTES.



REVISIONS, DATE AND INITIAL:
1. ADDED GATES INSTALLED AFTER AS-BUILT SURVEY-SHEET 6 & SHEET 11, 10/15/15, EGT



3719 BENSON DRIVE
RALEIGH, NC 27609
P-0702 (919) 827-0745
www.turnerlandsurveying.com
Certified DBE/WBE

CROSS SECTIONS XS3-XS8

MIDDLE SOUTH MUDDY STREAM RESTORATION PROJECT

NCEEP PROJECT # 93875

McDOWELL COUNTY NORTH CAROLINA

DATE:	05/18/2015
SURVEYED BY:	DST/JAP
DRAWN BY:	ROB/DST
REVIEWED BY:	DST/EGT
PROJECT:	TLS-15-007
FILE:	MSM CREEK 93875_AB_TLS_F.dwg
SCALE:	AS SHOWN
SHEET	13 of 13