


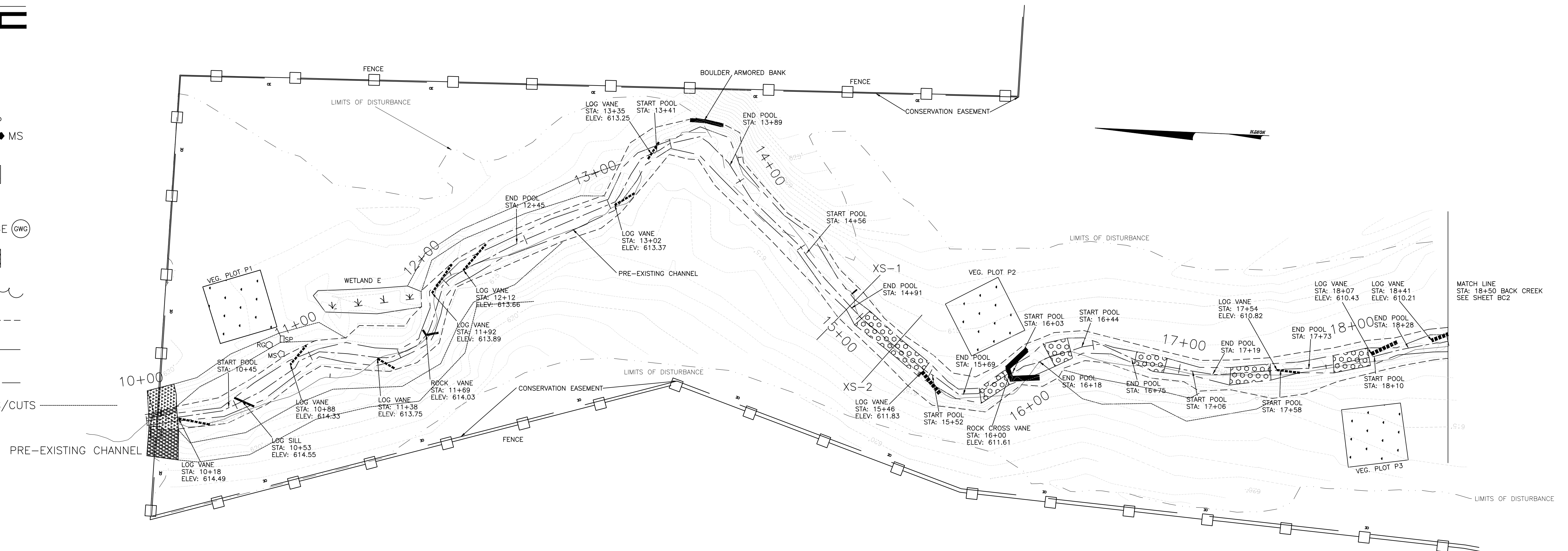
LEGEND

- ROCK CROSS VANE 
- LOG VANE 
- LOG SILL 
- RIP-RAP 
- RIFFLE 

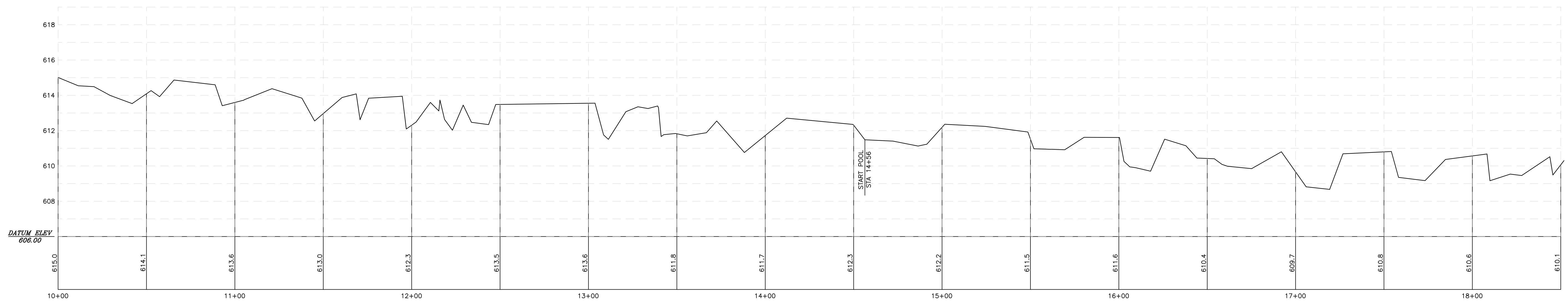
- SOLAR PANEL  SP
- MONITORING STATION  MS
- RAIN GAGUE  RG

- VEG. PLOT 
- PHOTO POINT 

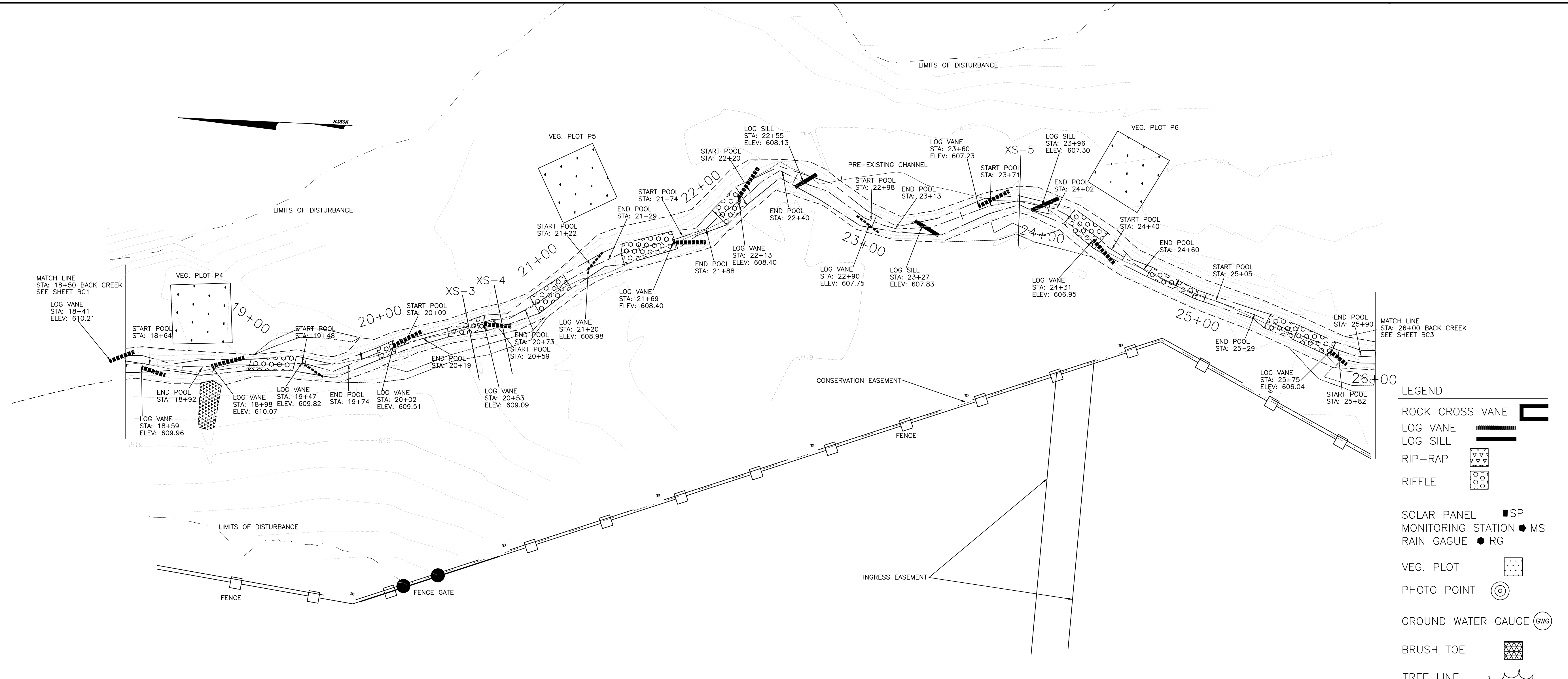
- GROUND WATER GAUGE  (GWC)
- BRUSH TOE 
- TREE LINE 
- BANKFUL 
- BANK TOE 
- THALWEG 
- FLOODPLAIN BENCHES/CUTS 



THALWEG PROFILE

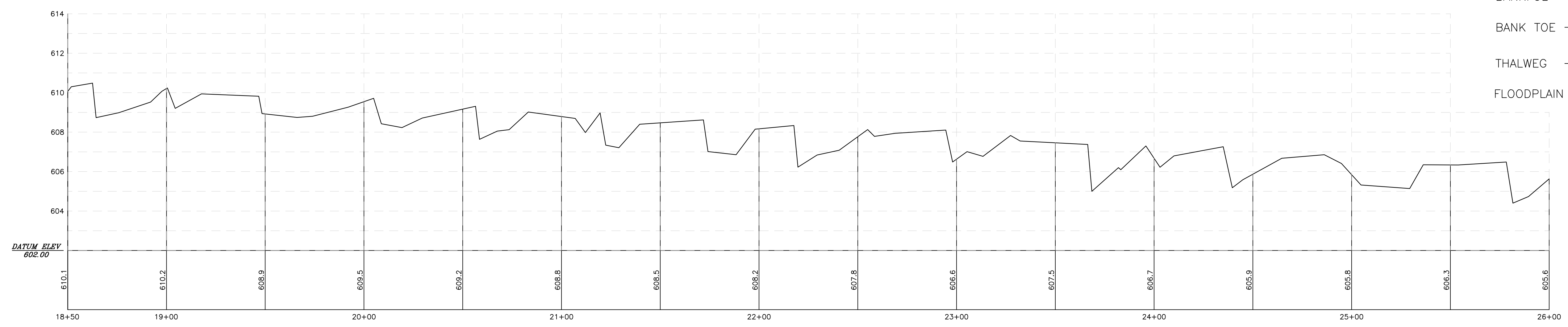


STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL. 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A BACK CREEK

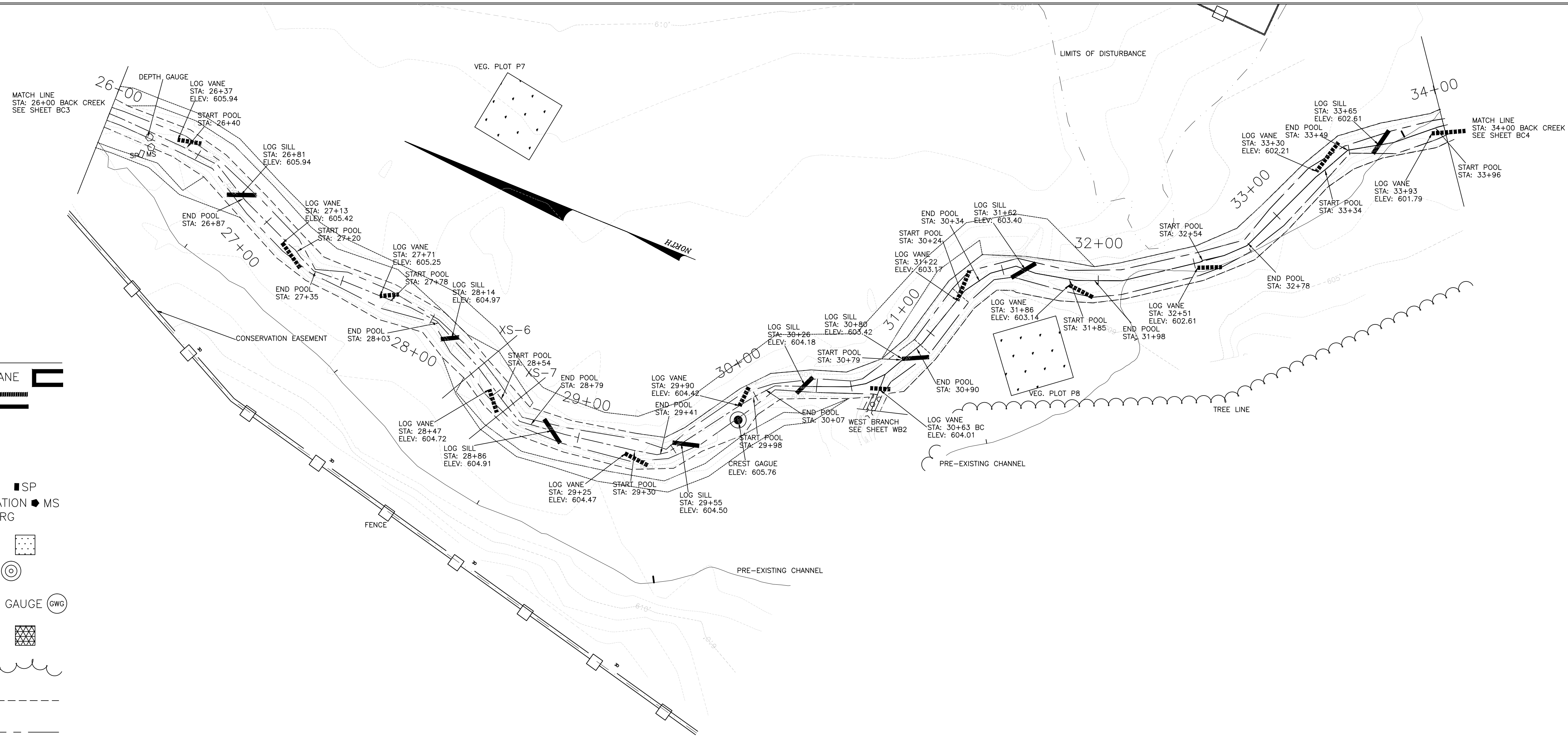


- LEGEND**
- ROCK CROSS VANE
 - LOG VANE
 - LOG SILL
 - RIP-RAP
 - RIFFLE
 - SOLAR PANEL
 - MONITORING STATION
 - RAIN GAUGE
 - VEG. PLOT
 - PHOTO POINT
 - GROUND WATER GAUGE (GW)
 - BRUSH TOE
 - TREE LINE
 - BANKFUL
 - BANK TOE
 - THALWEG
 - FLOODPLAIN BENCHES/CUTS

THALWEG PROFILE



STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL. 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS		NORTH CAROLINA	
		SCO PROJECT NUMBER: 04-06331-01A BACK CREEK	



LEGEND

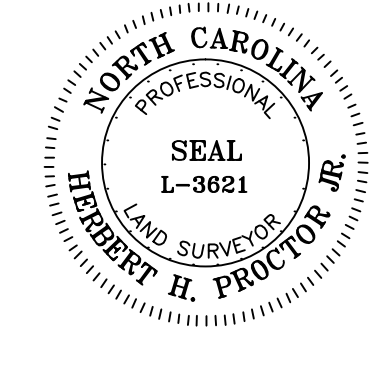
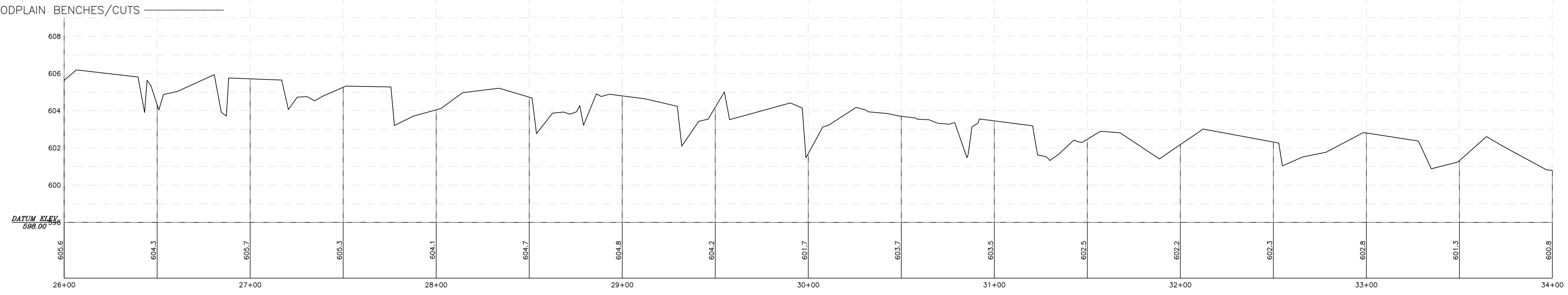
- ROCK CROSS VANE
- LOG VANE
- LOG SILL
- RIP-RAP
- RIFFLE

- SOLAR PANEL SP
- MONITORING STATION MS
- RAIN GAUGE RG

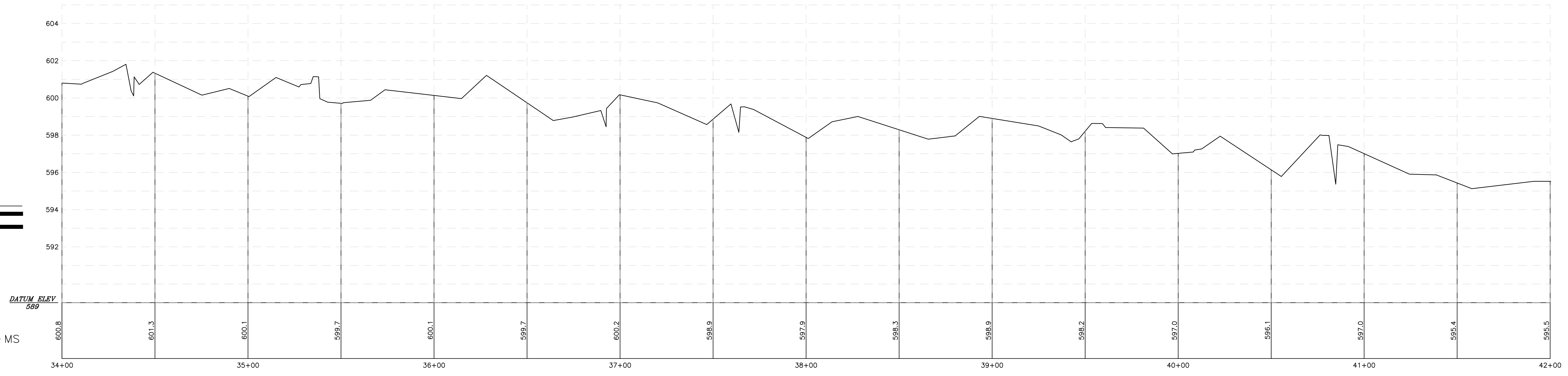
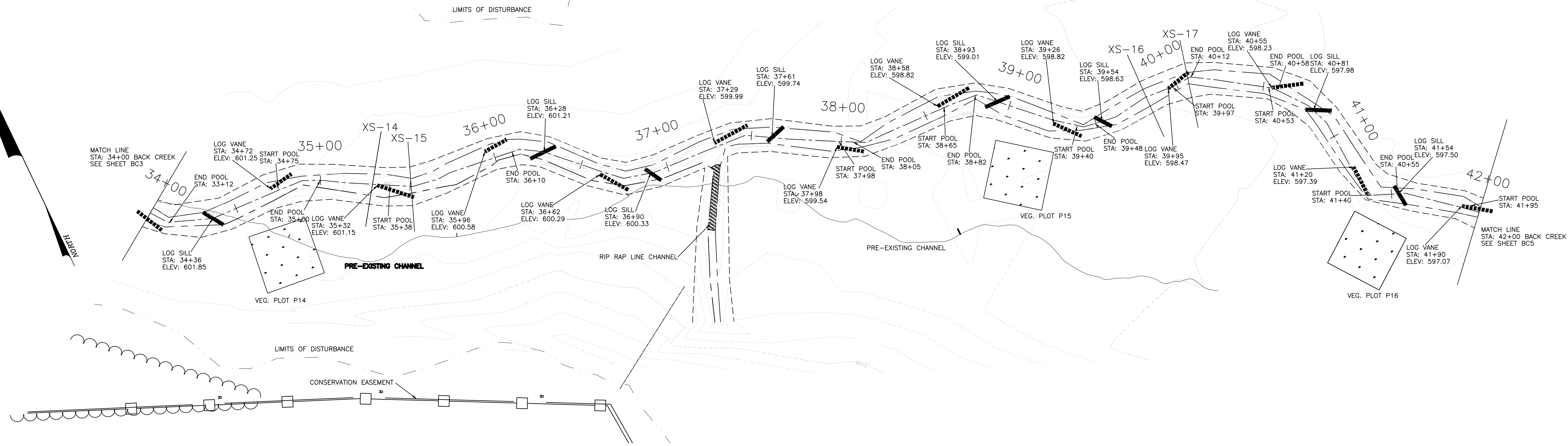
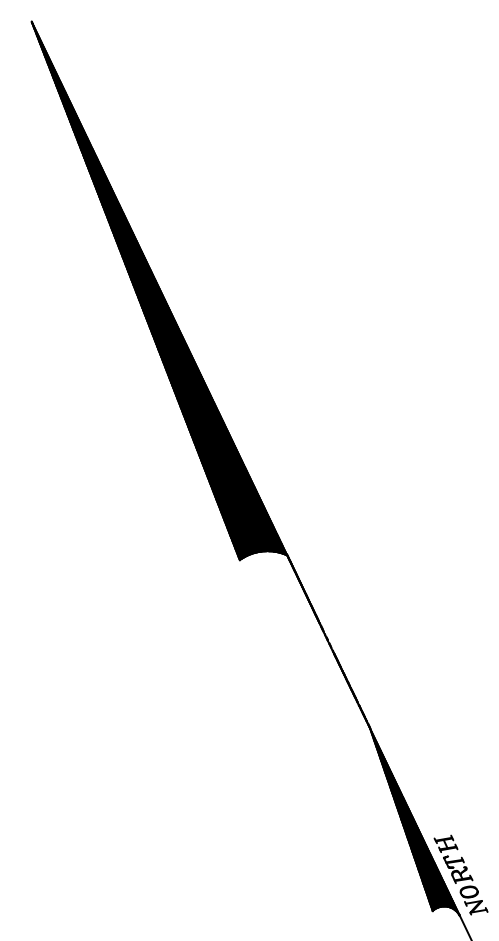
- VEG. PLOT
- PHOTO POINT

- GROUND WATER GAUGE GWG
- BRUSH TOE
- TREE LINE
- BANKFUL
- BANK TOE
- THALWEG
- FLOODPLAIN BENCHES/CUTS

THALWEG PROFILE

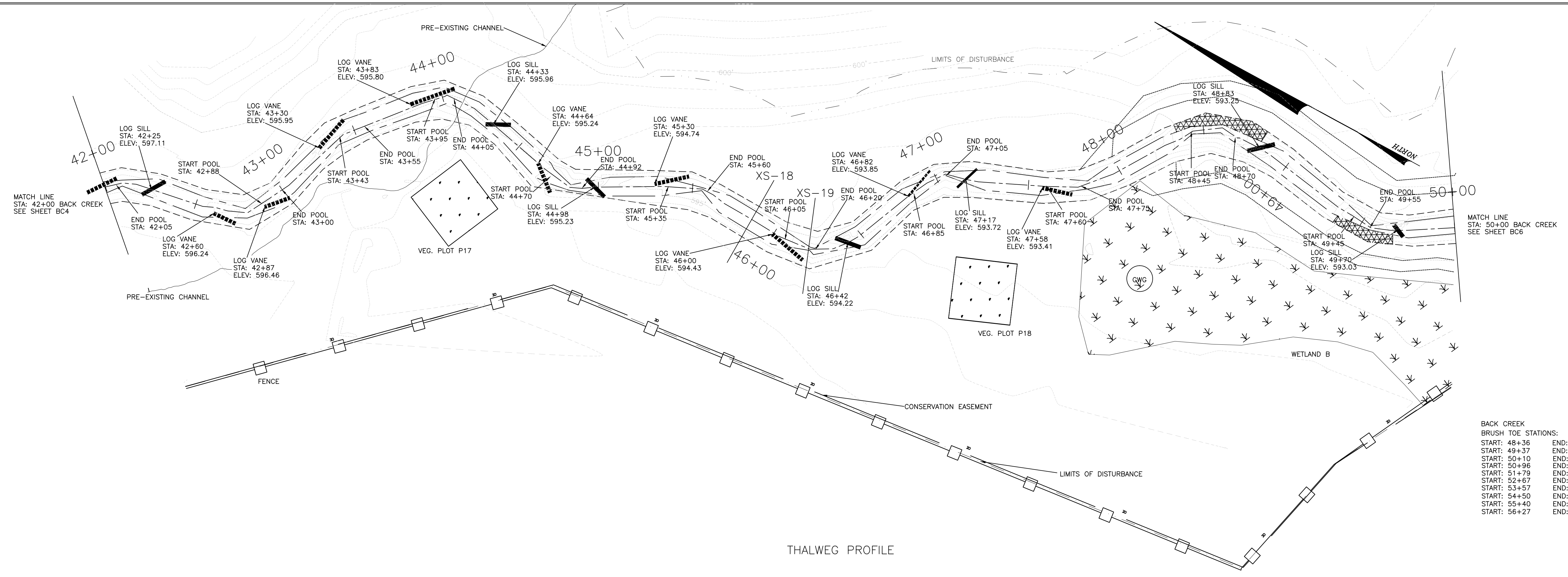


STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 12 JUNE 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS		SCO PROJECT NUMBER: 04-06331-01A BACK CREEK	



- LEGEND**
- ROCK CROSS VANE
 - LOG VANE
 - LOG SILL
 - RIP-RAP
 - RIFFLE
 - SOLAR PANEL
 - MONITORING STATION
 - RAIN GAGUE
 - VEG. PLOT
 - PHOTO POINT
 - GROUND WATER GAUGE
 - BRUSH TOE
 - TREE LINE
 - BANKFUL
 - BANK TOE
 - THALWEG
 - FLOODPLAIN BENCHES/CUTS

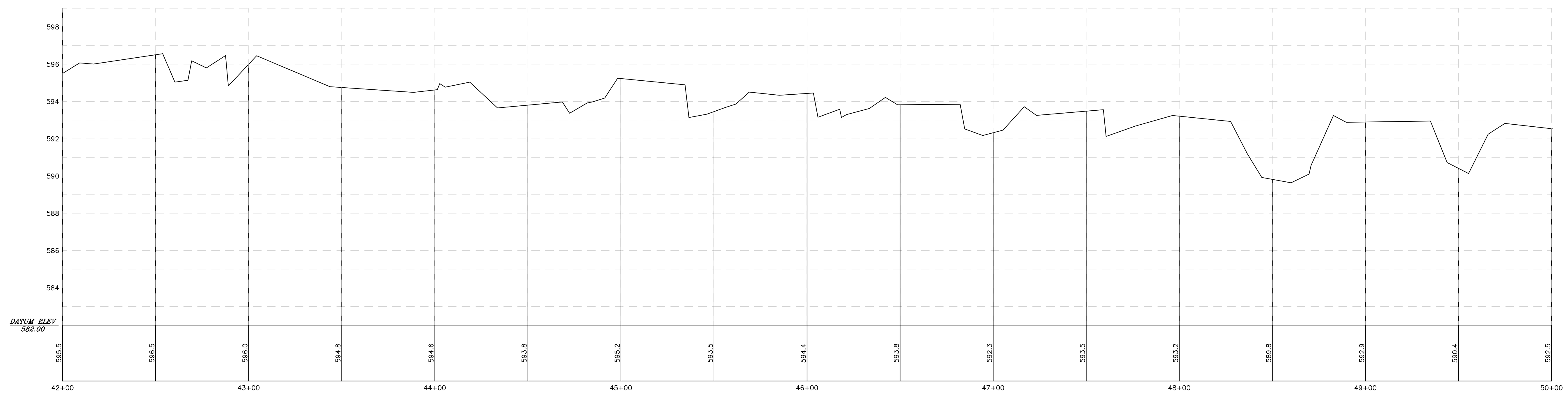
STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A BACK CREEK



BACK CREEK
BRUSH TOE STATIONS:

START: 48+36	END: 48+82
START: 49+37	END: 49+67
START: 50+10	END: 50+37
START: 50+96	END: 51+29
START: 51+79	END: 52+12
START: 52+67	END: 53+05
START: 53+57	END: 53+87
START: 54+50	END: 54+84
START: 55+40	END: 55+72
START: 56+27	END: 56+63

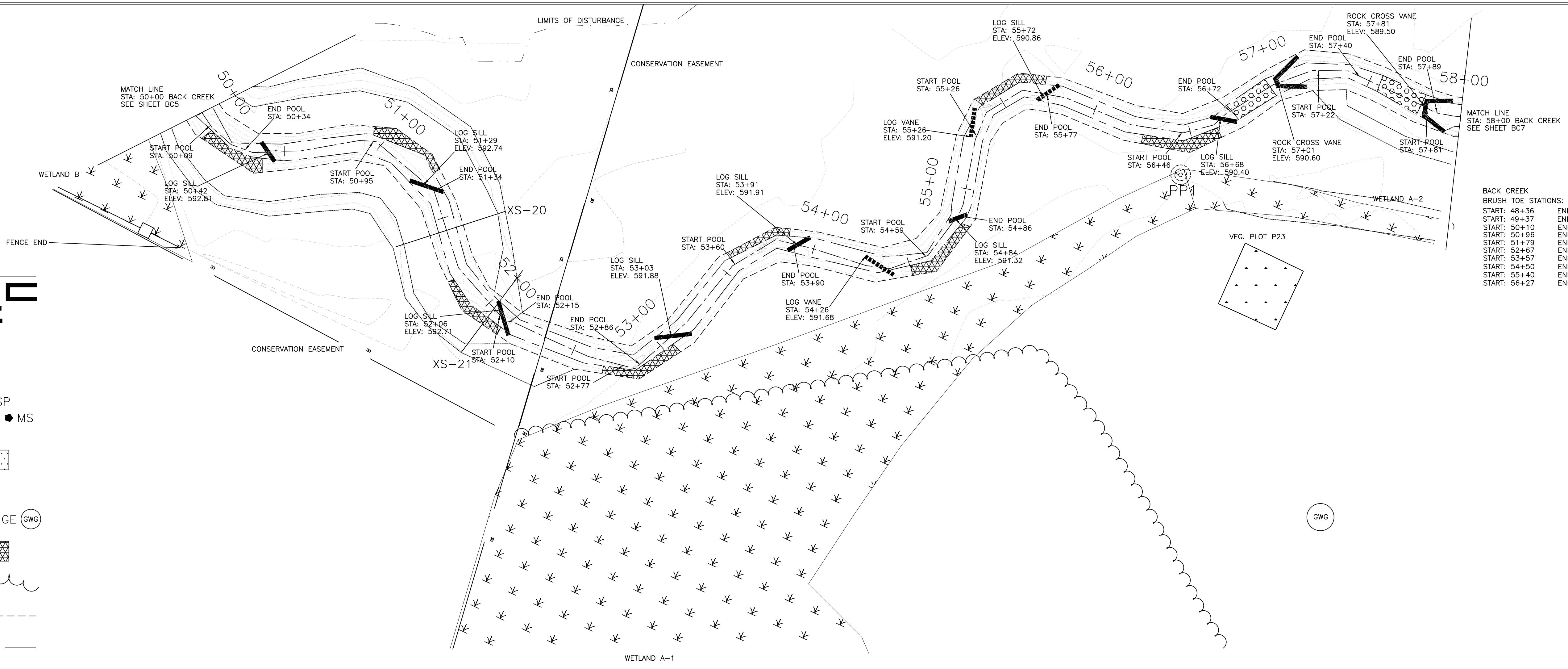
THALWEG PROFILE



- LEGEND
- ROCK CROSS VANE
 - LOG VANE
 - LOG SILL
 - RIP-RAP
 - RIFFLE
 - SOLAR PANEL SP
 - MONITORING STATION MS
 - RAIN GAGUE RG
 - VEG. PLOT
 - PHOTO POINT
 - GROUND WATER GAUGE GWG
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 - BANKFUL
 - BANK TOE
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STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A BACK CREEK

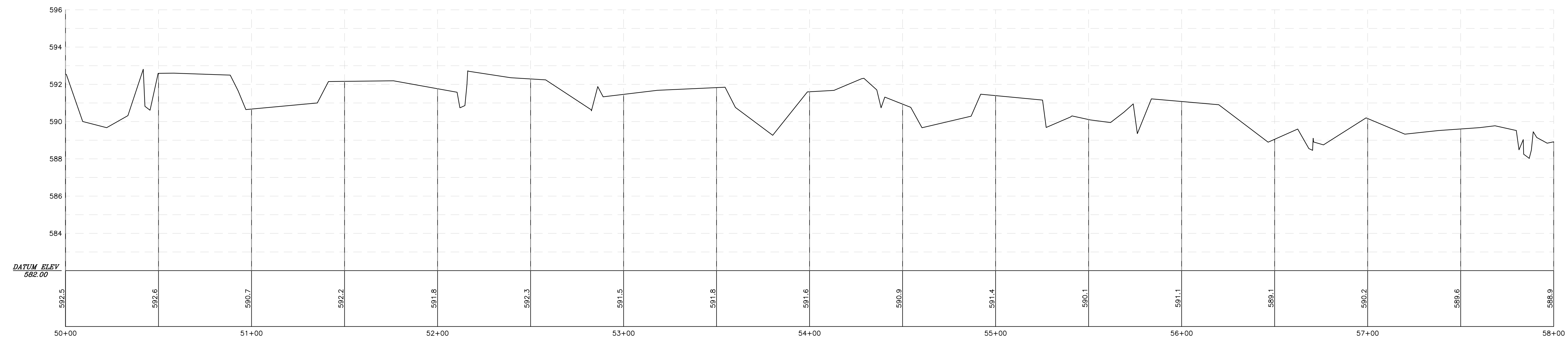
- LEGEND**
- ROCK CROSS VANE
 - LOG VANE
 - LOG SILL
 - RIP-RAP
 - RIFFLE
 - SOLAR PANEL SP
 - MONITORING STATION MS
 - RAIN GAGUE RG
 - VEG. PLOT
 - PHOTO POINT
 - GROUND WATER GAUGE (GWG)
 - BRUSH TOE
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 - BANK TOE
 - THALWEG
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BACK CREEK
BRUSH TOE STATIONS:

START: 48+36	END: 48+82
START: 49+37	END: 49+67
START: 50+10	END: 50+37
START: 50+96	END: 51+29
START: 51+79	END: 52+12
START: 52+67	END: 53+05
START: 53+57	END: 53+87
START: 54+50	END: 54+84
START: 55+40	END: 55+72
START: 56+27	END: 56+63

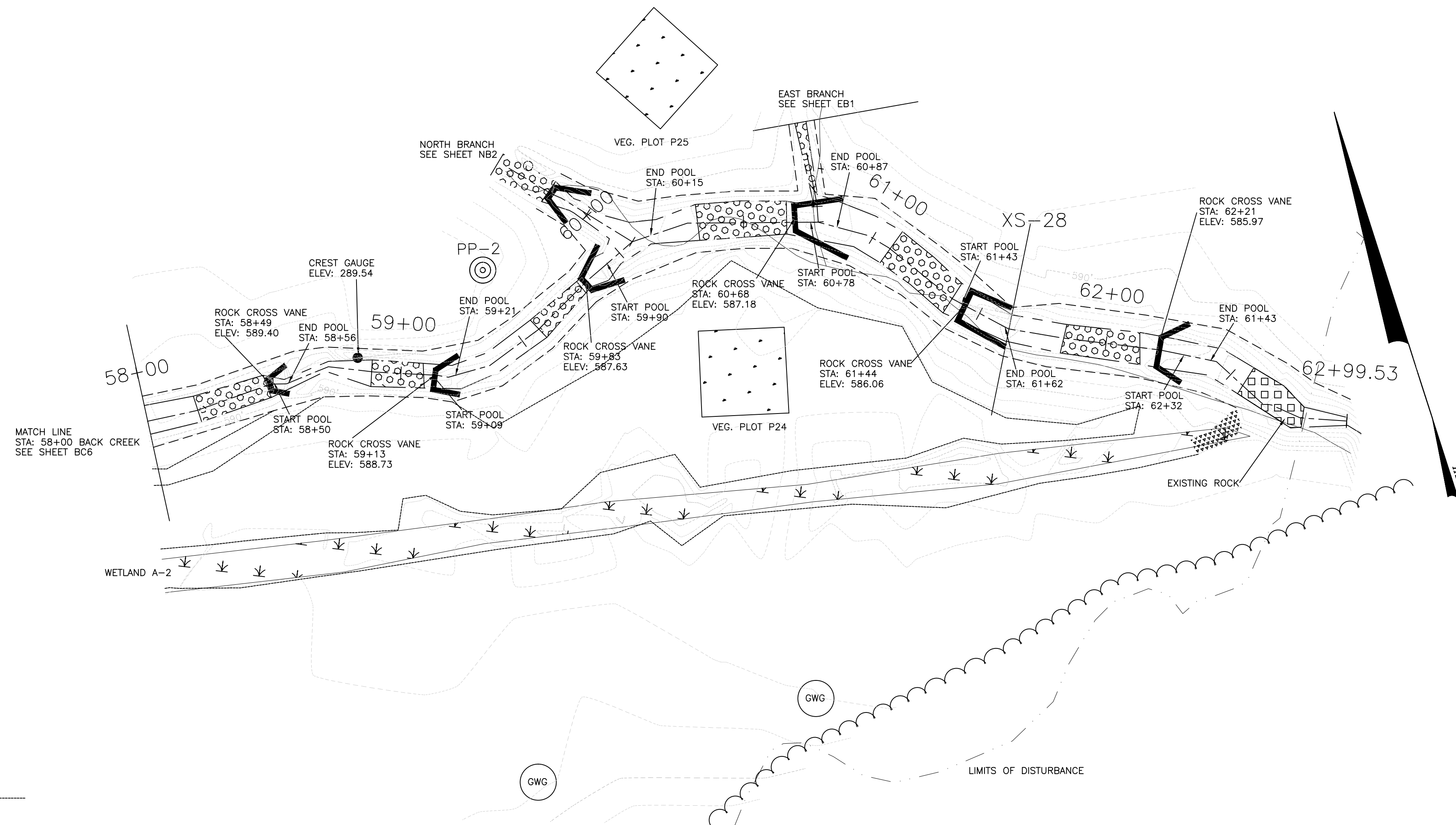
THALWEG PROFILE



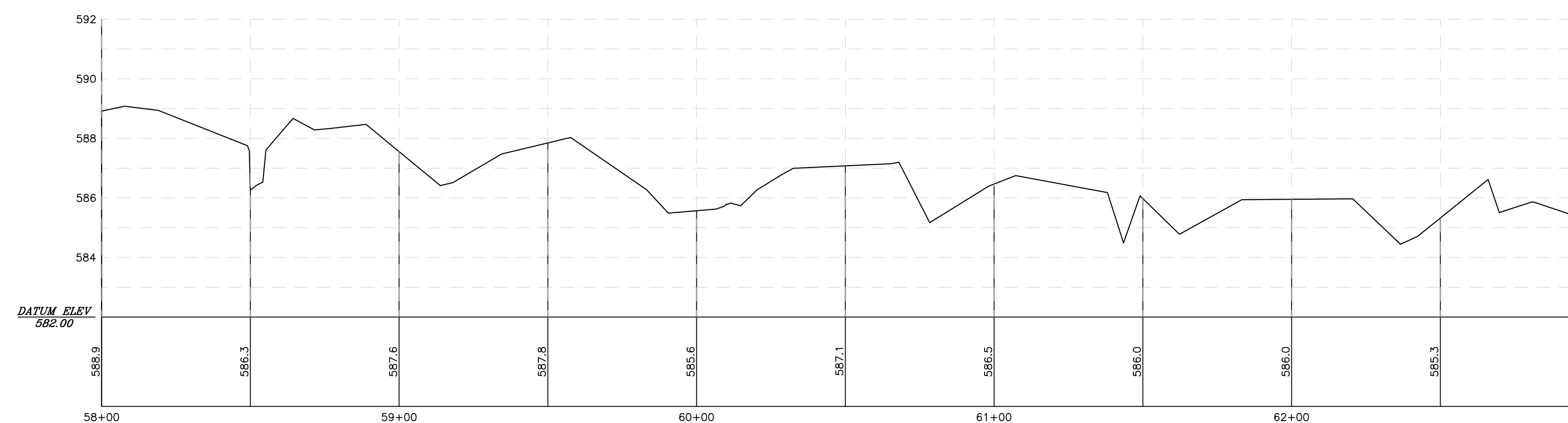
STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS		SCO PROJECT NUMBER: 04-06331-01A BACK CREEK	

LEGEND

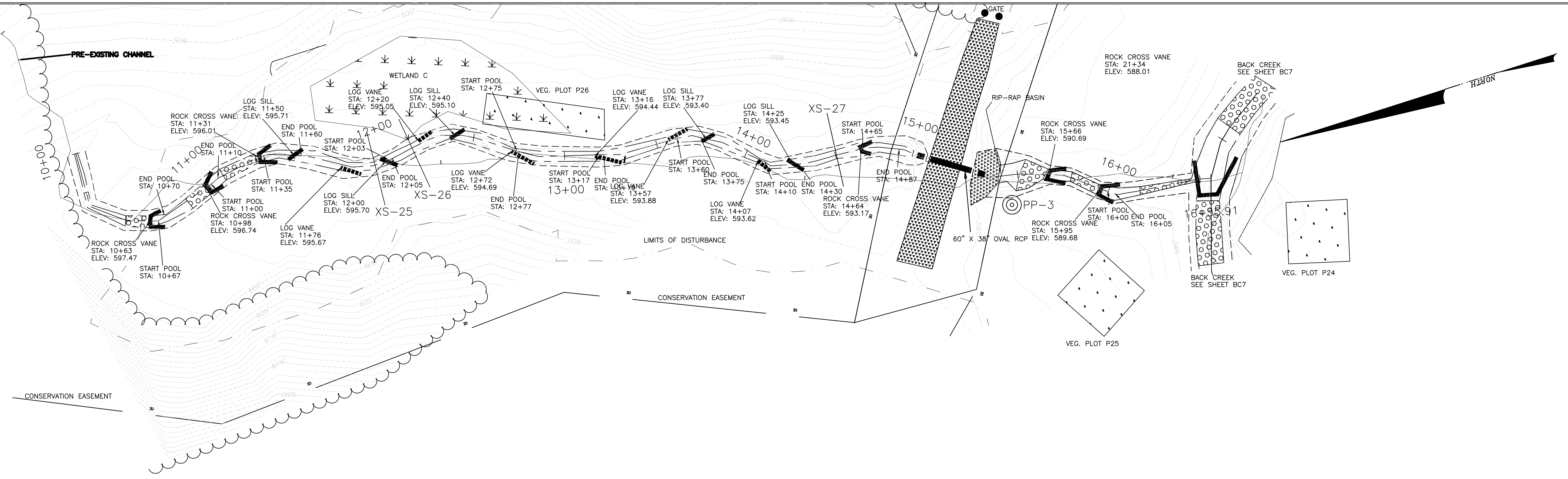
- ROCK CROSS VANE
- LOG VANE
- LOG SILL
- RIP-RAP
- RIFFLE
- SOLAR PANEL SP
- MONITORING STATION MS
- RAIN GAGUE RG
- VEG. PLOT
- PHOTO POINT
- GROUND WATER GAUGE GWG
- BRUSH TOE
- TREE LINE
- BANKFUL
- BANK TOE
- THALWEG
- FLOODPLAIN BENCHES/CUTS



THALWEG PROFILE

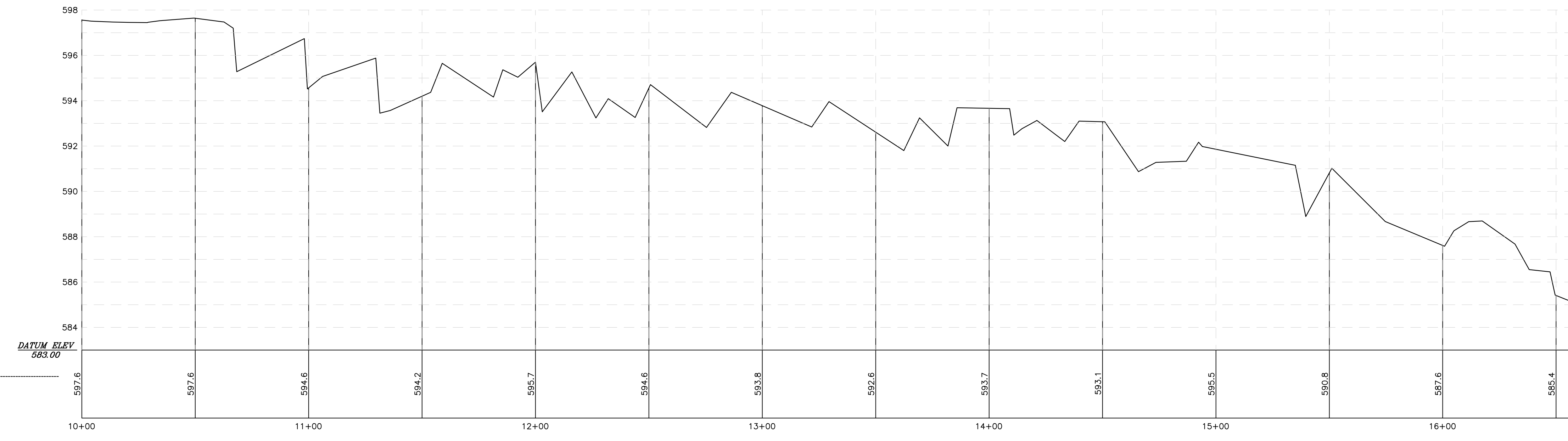


STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A BACK CREEK

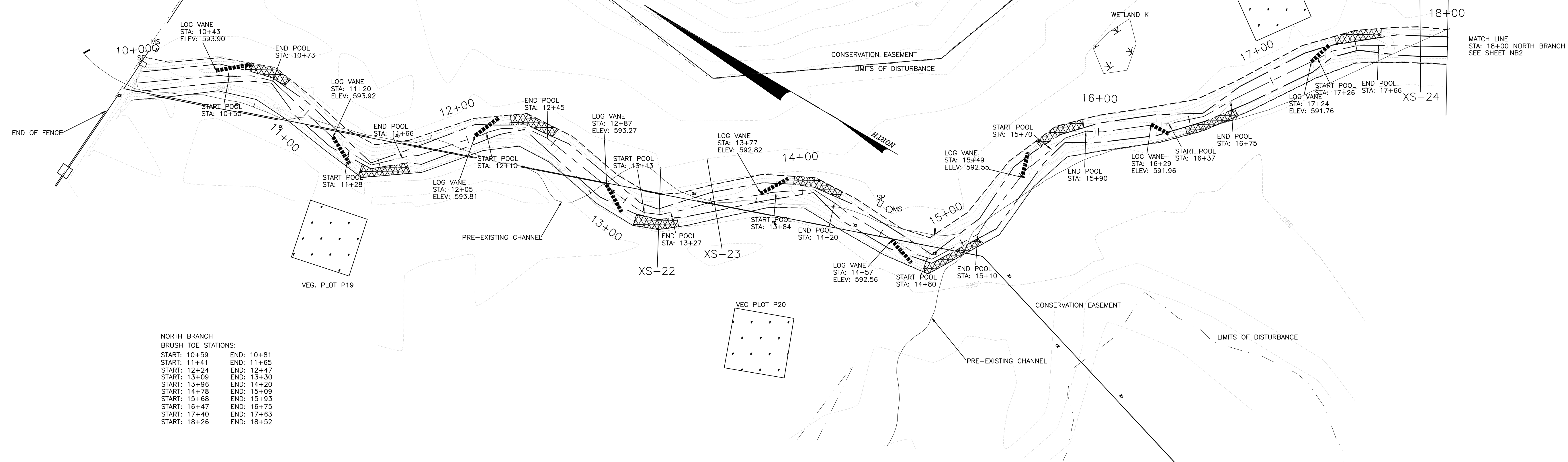


- LEGEND**
- ROCK CROSS VANE
 - LOG VANE
 - LOG SILL
 - RIP-RAP
 - RIFFLE
 - SOLAR PANEL SP
 - MONITORING STATION MS
 - RAIN GAGUE RG
 - VEG. PLOT
 - PHOTO POINT
 - GROUND WATER GAUGE (GWG)
 - BRUSH TOE
 - TREE LINE
 - BANKFUL
 - BANK TOE
 - THALWEG
 - FLOODPLAIN BENCHES/CUTS

THALWEG PROFILE



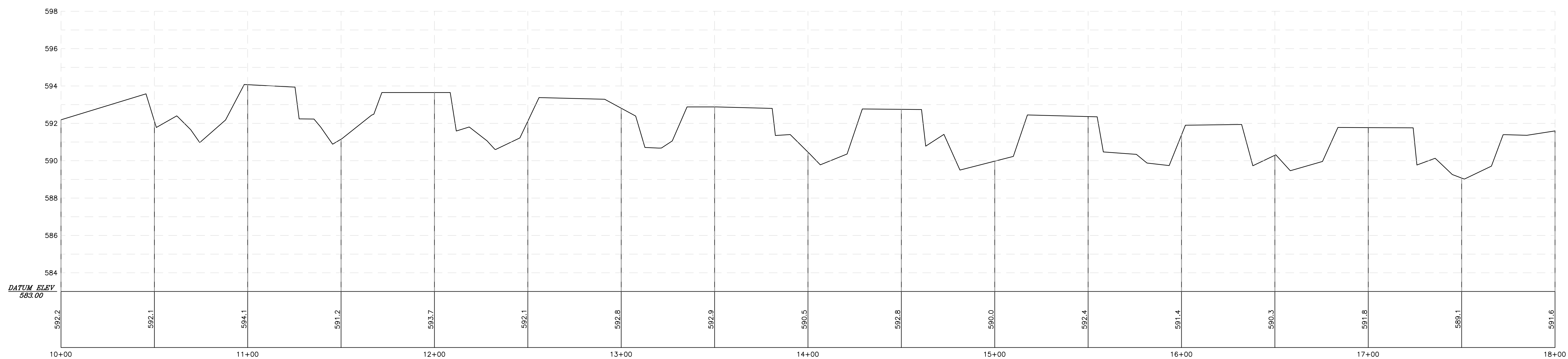
STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL. 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A EAST BRANCH



NORTH BRANCH
BRUSH TOE STATIONS:

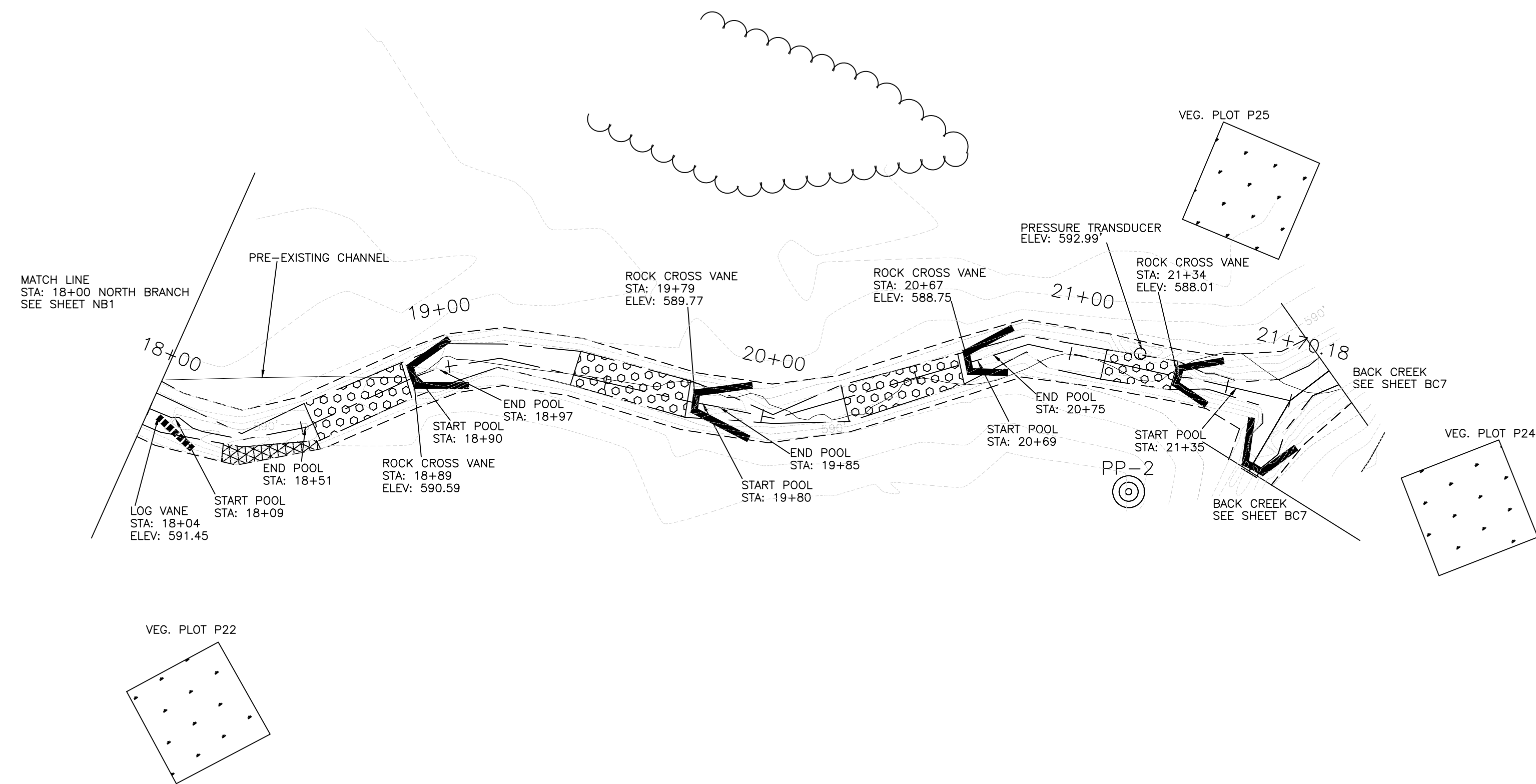
START: 10+59	END: 10+81
START: 11+41	END: 11+65
START: 12+24	END: 12+47
START: 13+09	END: 13+30
START: 13+96	END: 14+20
START: 14+78	END: 15+09
START: 15+68	END: 15+93
START: 16+47	END: 16+75
START: 17+40	END: 17+63
START: 18+26	END: 18+52

THALWEG PROFILE



- LEGEND**
- ROCK CROSS VANE
 - LOG VANE
 - LOG SILL
 - RIP-RAP
 - RIFFLE
 - SOLAR PANEL SP
 - MONITORING STATION MS
 - RAIN GAGUE RG
 - VEG. PLOT
 - PHOTO POINT
 - GROUND WATER GAUGE (GWC)
 - BRUSH TOE
 - TREE LINE
 - BANKFUL
 - BANK TOE
 - THALWEG
 - FLOODPLAIN BENCHES/CUTS

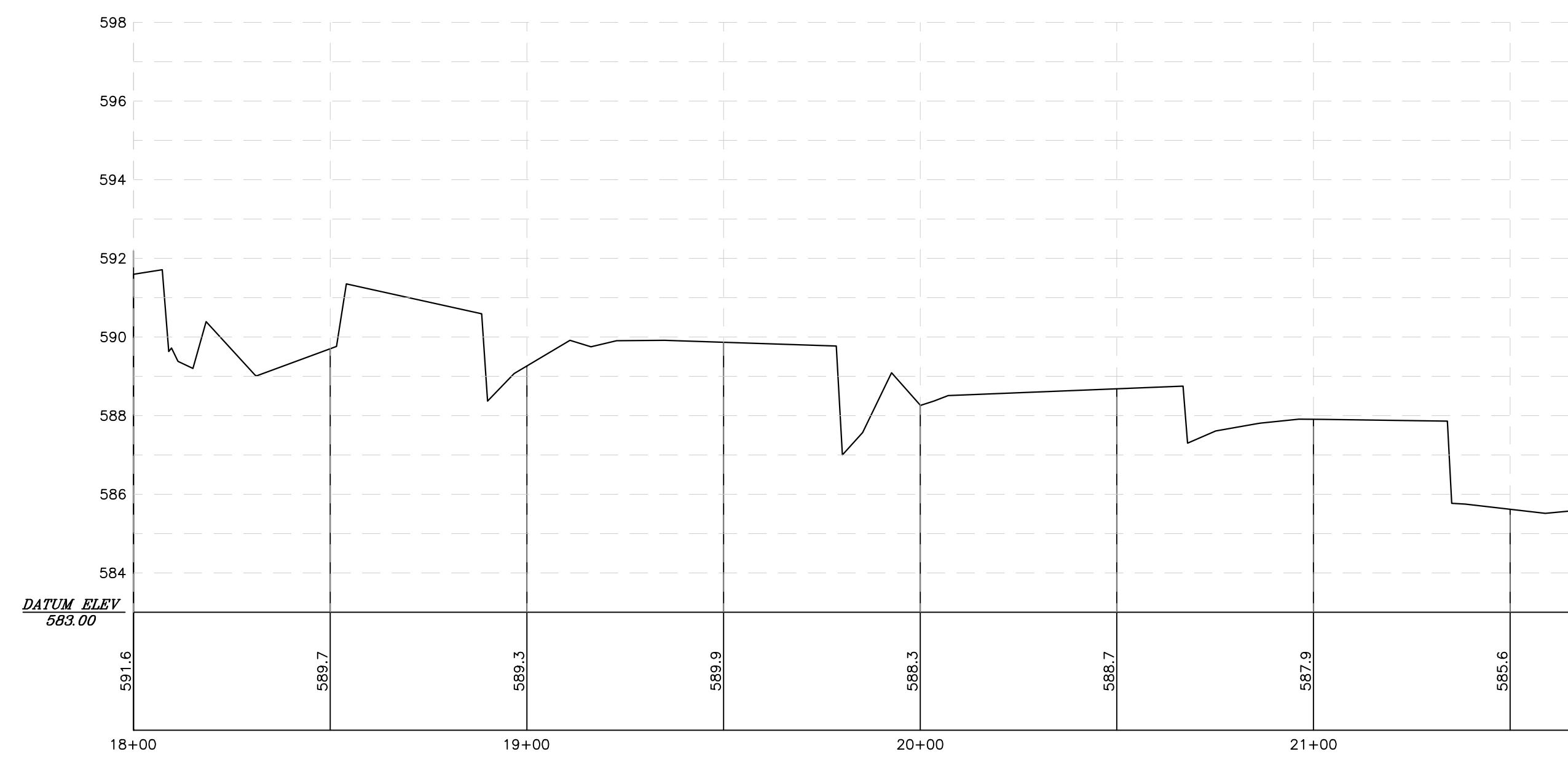
STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL. 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS		NORTH CAROLINA	
		SCO PROJECT NUMBER: 04-06331-01A NORTH BRANCH	



NORTH BRANCH
BRUSH TOE STATIONS:

START: 10+59	END: 10+81
START: 11+41	END: 11+65
START: 12+24	END: 12+47
START: 13+09	END: 13+30
START: 13+96	END: 14+20
START: 14+78	END: 15+09
START: 15+68	END: 15+93
START: 16+47	END: 16+75
START: 17+40	END: 17+63
START: 18+26	END: 18+52

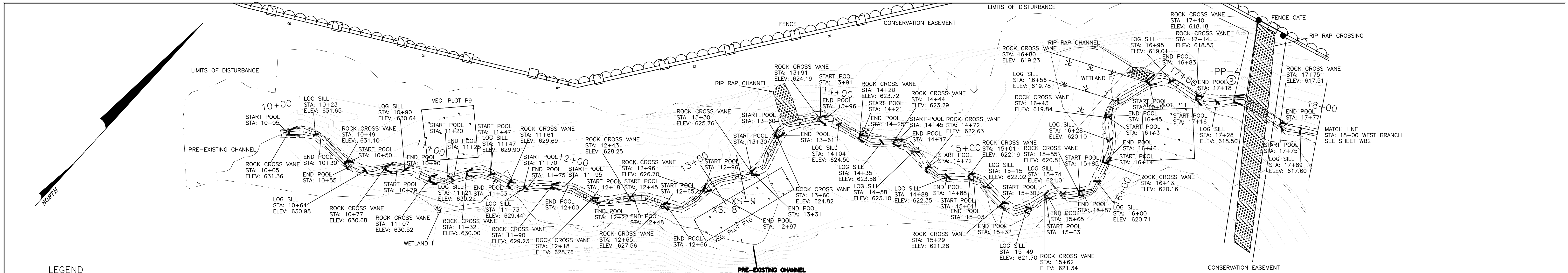
THALWEG PROFILE



LEGEND

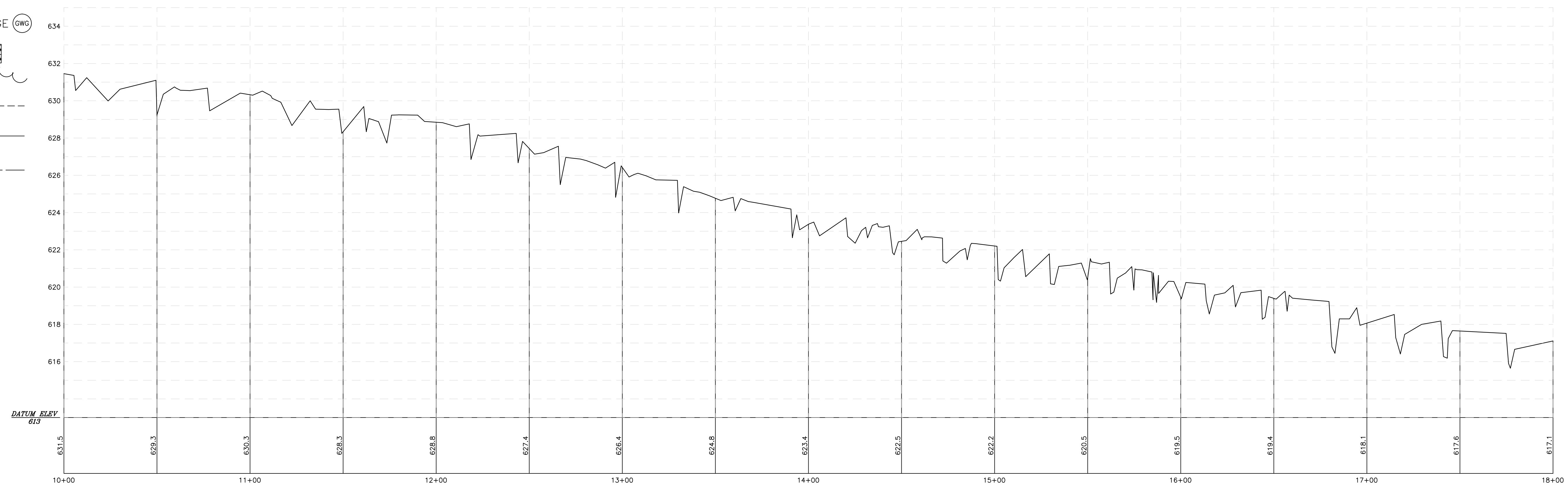
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- LOG VANE
- LOG SILL
- RIP-RAP
- RIFFLE
- SOLAR PANEL SP
- MONITORING STATION MS
- RAIN GAGUE RG
- VEG. PLOT
- PHOTO POINT
- GROUND WATER GAUGE (GWG)
- BRUSH TOE
- TREE LINE
- BANKFUL
- BANK TOE
- THALWEG
- FLOODPLAIN BENCHES/CUTS

STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL. 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JUNE 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A NORTH BRANCH

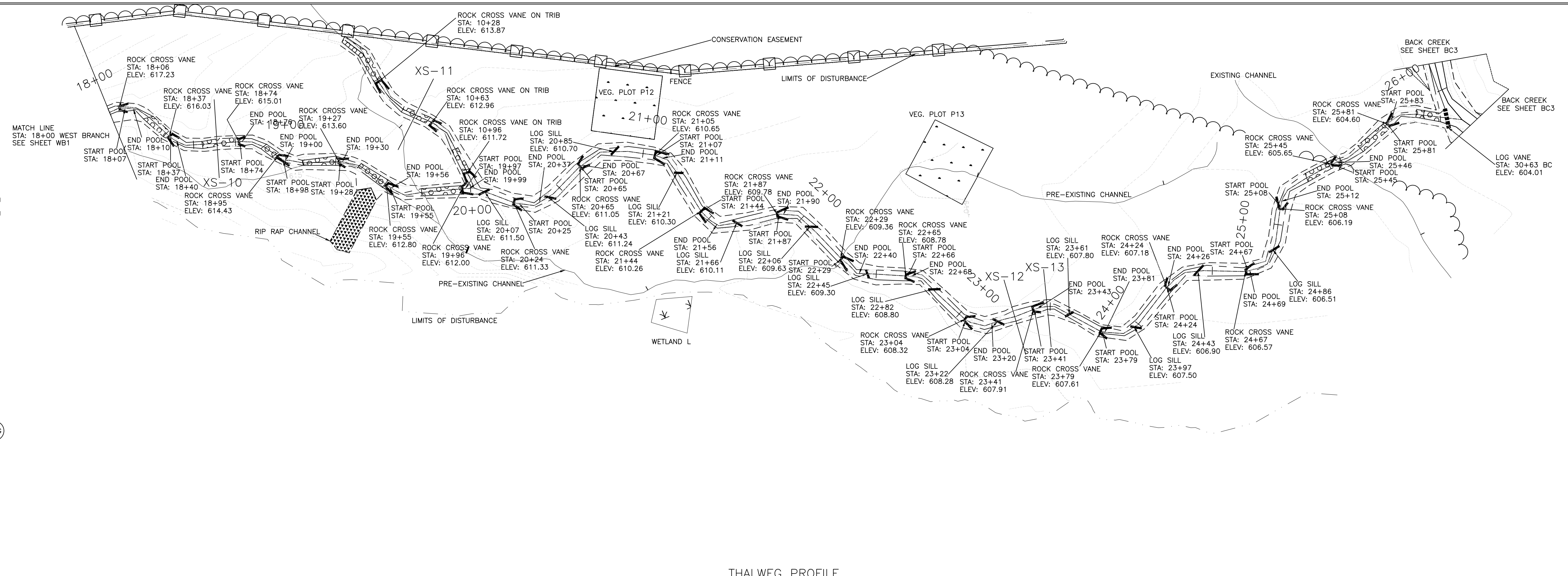


- LEGEND**
- FLOODPLAIN BENCHES/CUTS ————
 - ROCK CROSS VANE [Symbol]
 - LOG VANE [Symbol]
 - LOG SILL [Symbol]
 - RIP-RAP [Symbol]
 - RIFFLE [Symbol]
 - SOLAR PANEL [Symbol] SP
 - MONITORING STATION [Symbol] MS
 - RAIN GAGUE [Symbol] RG
 - VEG. PLOT [Symbol]
 - PHOTO POINT [Symbol]
 - GROUND WATER GAUGE (GWC) [Symbol]
 - BRUSH TOE [Symbol]
 - TREE LINE [Symbol]
 - BANKFUL [Symbol]
 - BANK TOE [Symbol]
 - THALWEG [Symbol]

THALWEG PROFILE

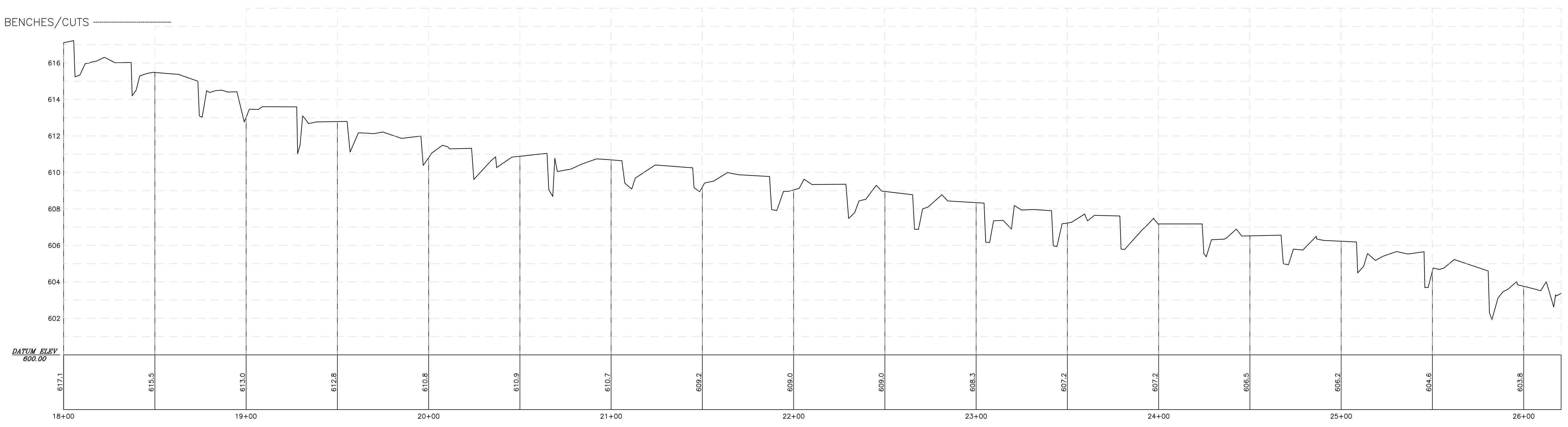


STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS		SCO PROJECT NUMBER: 04-06331-01A WEST BRANCH	

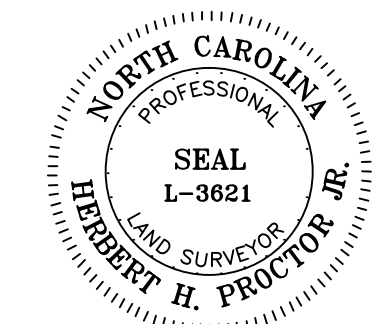
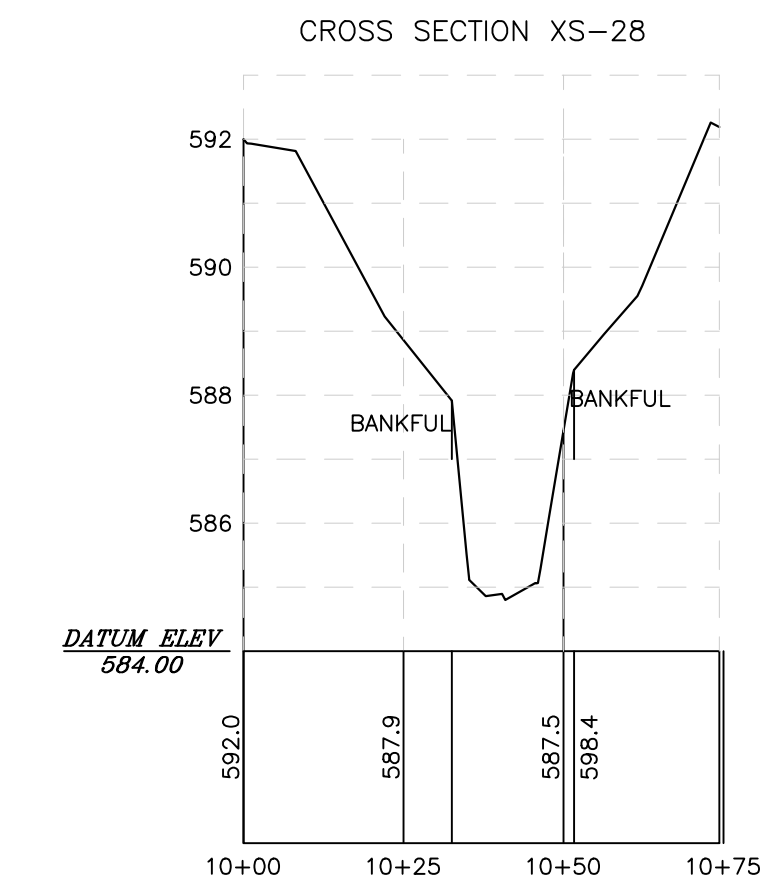
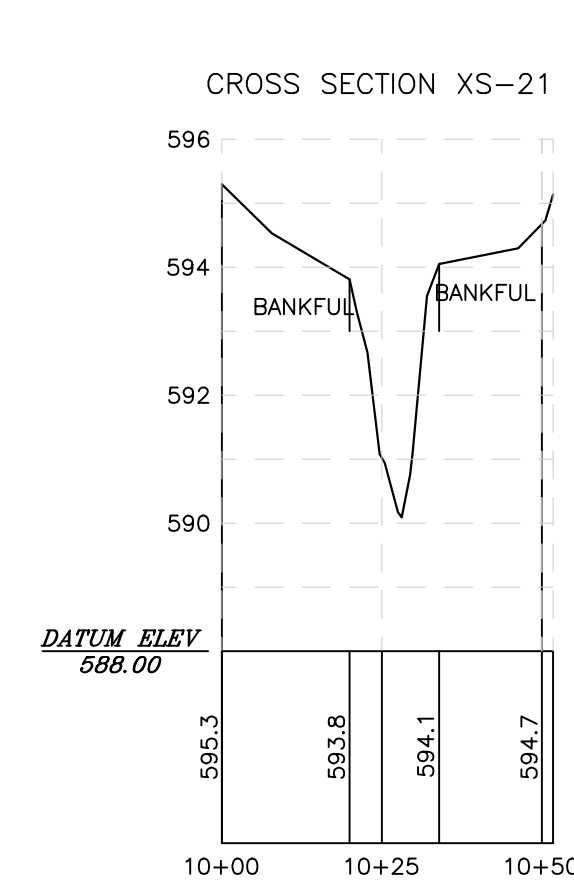
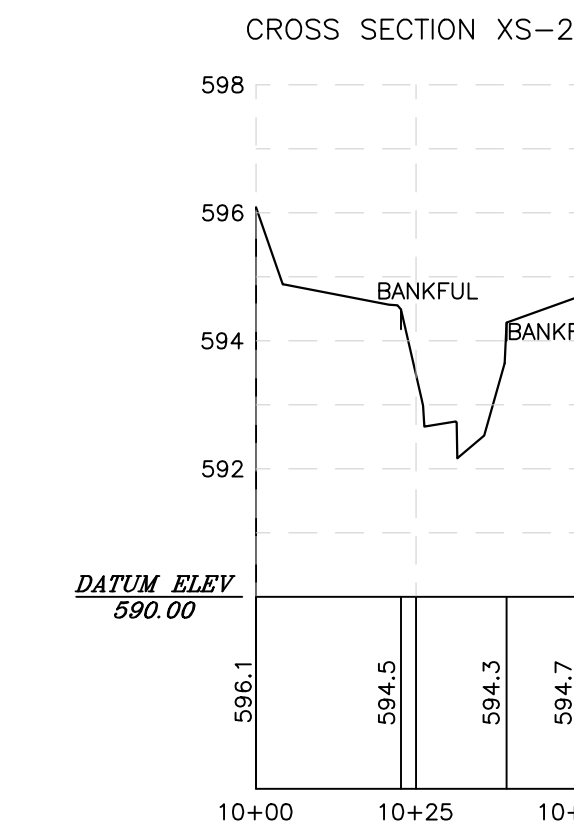
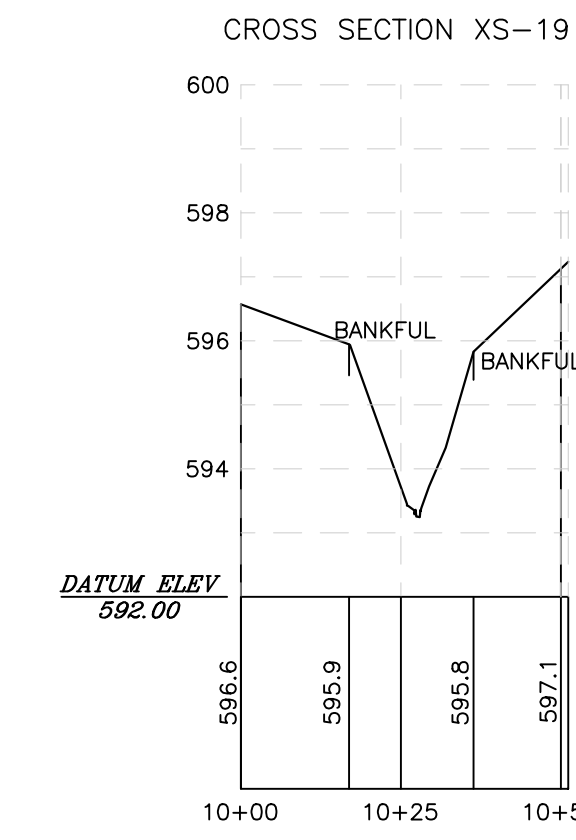
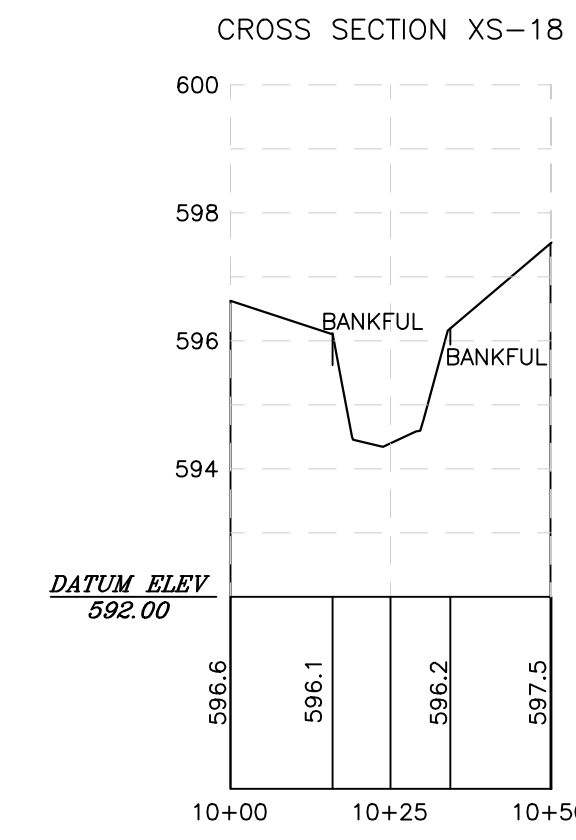
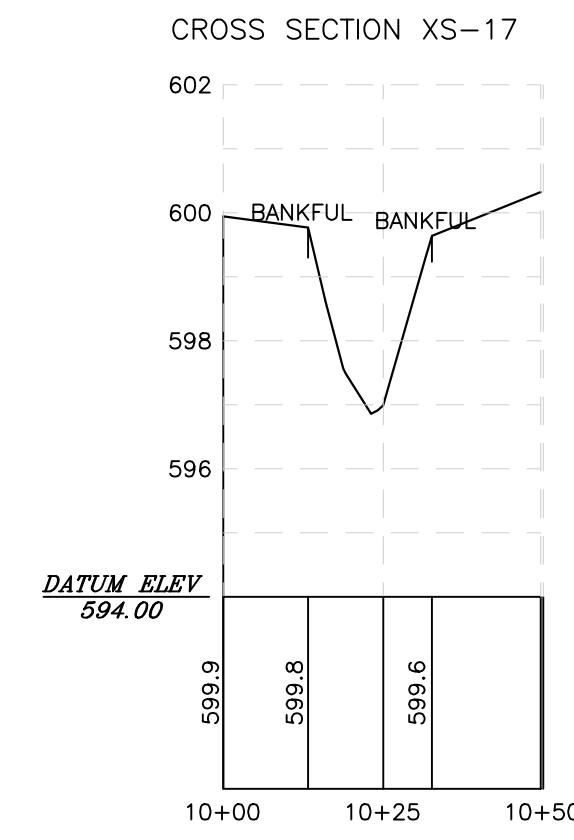
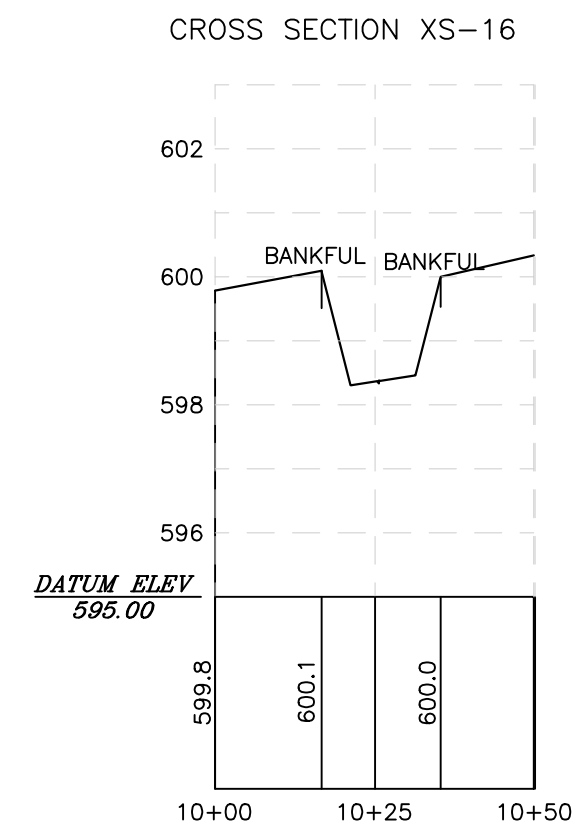
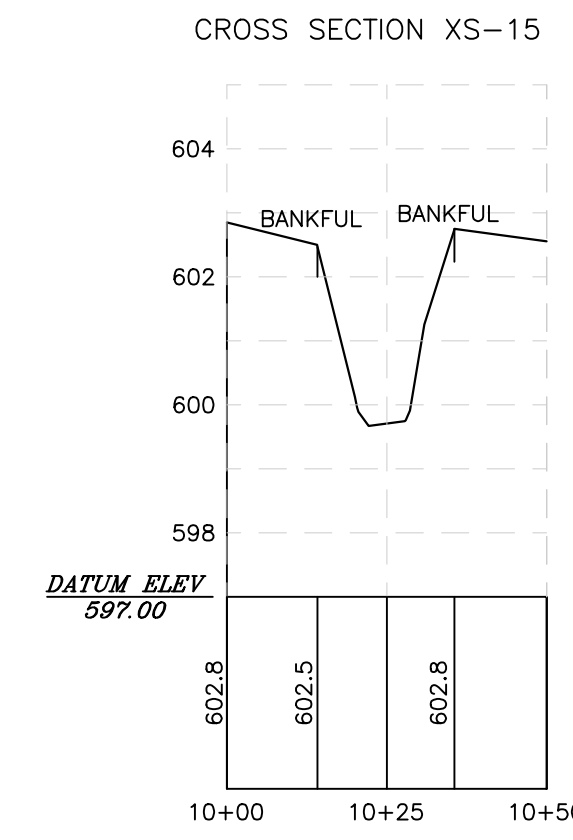
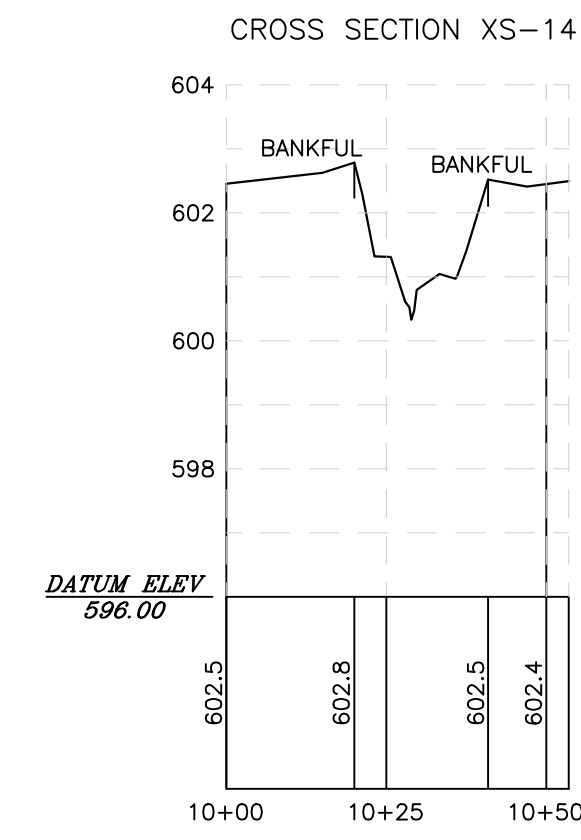
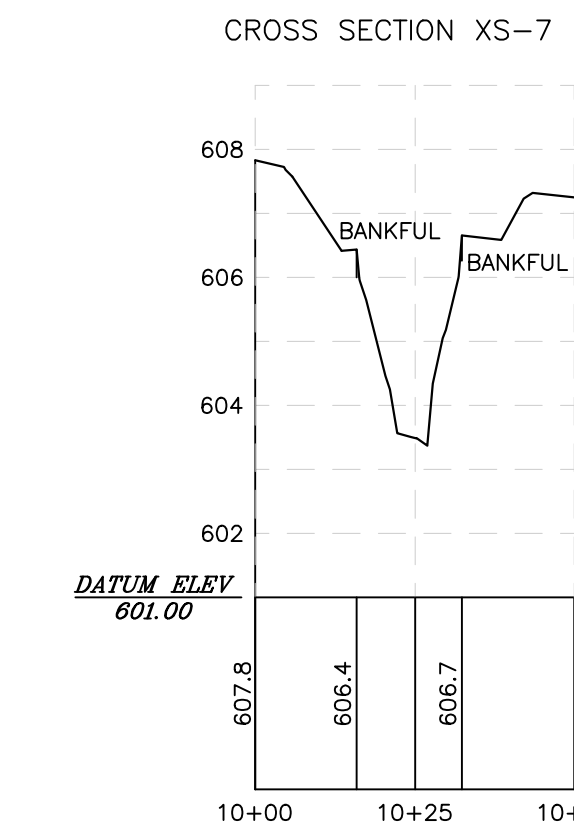
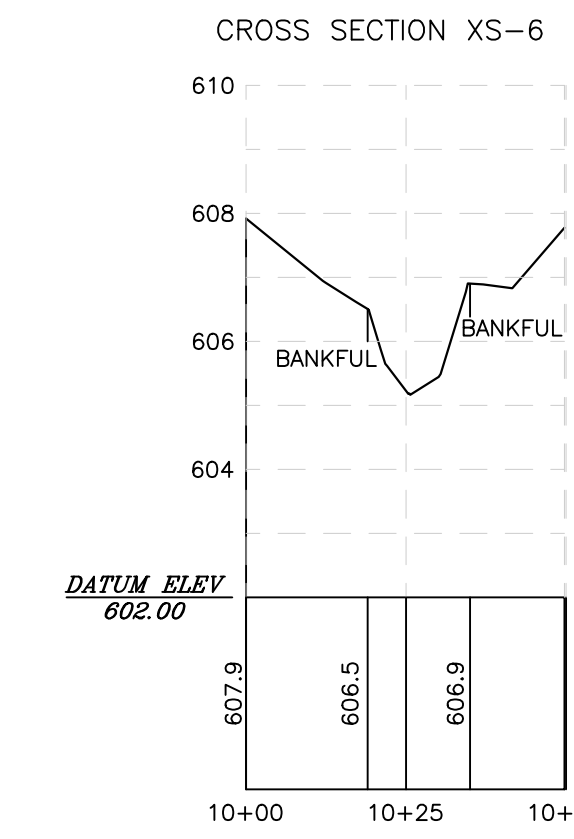
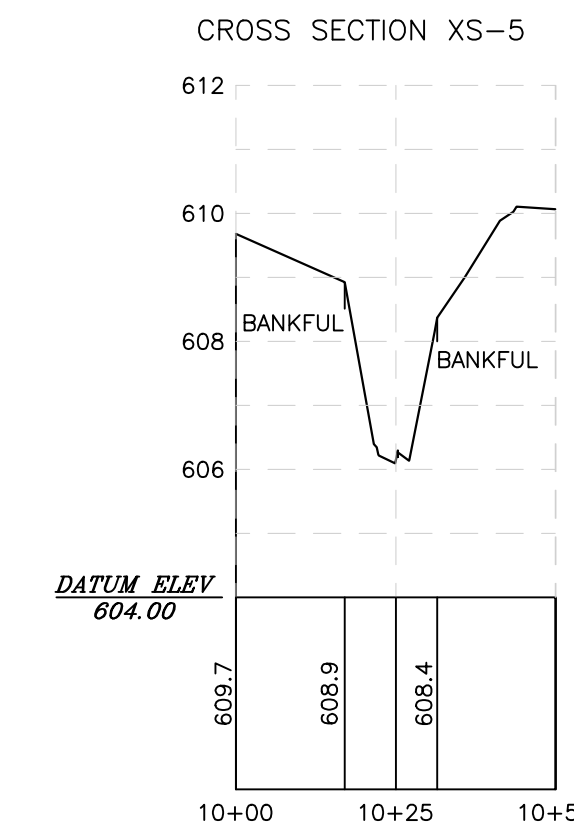
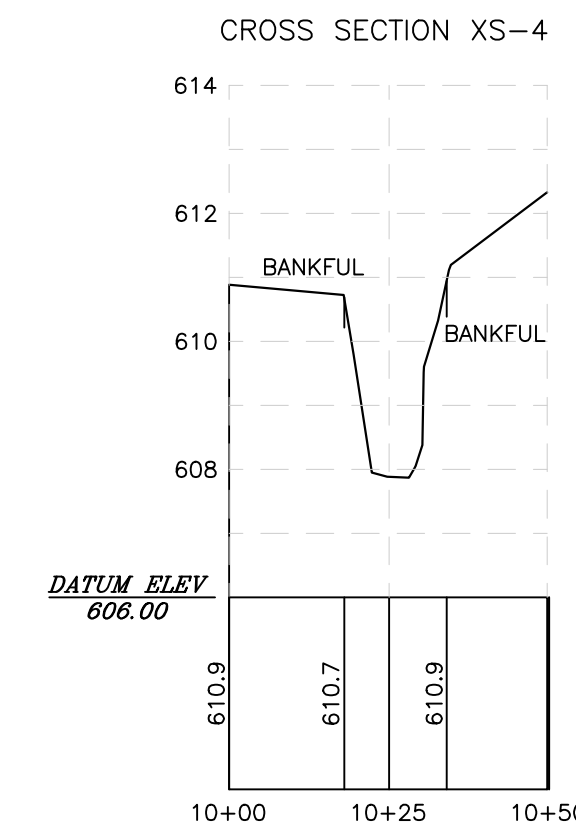
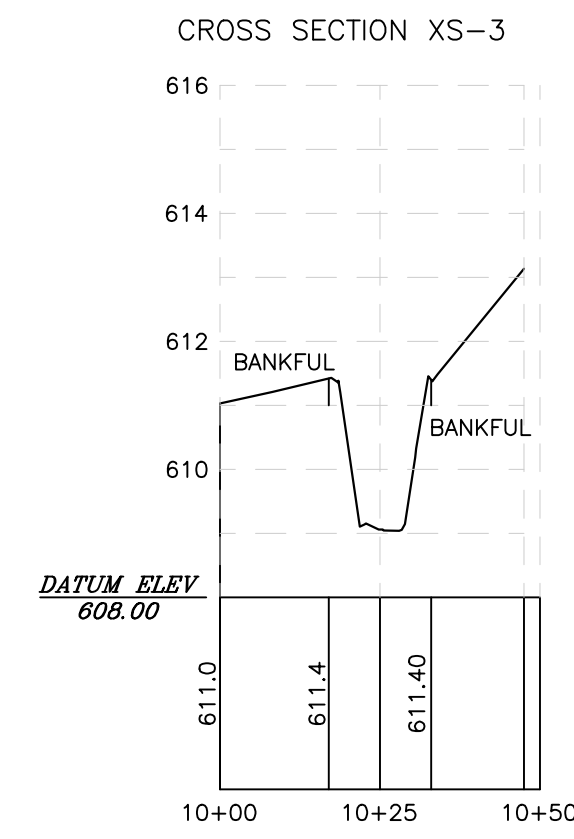
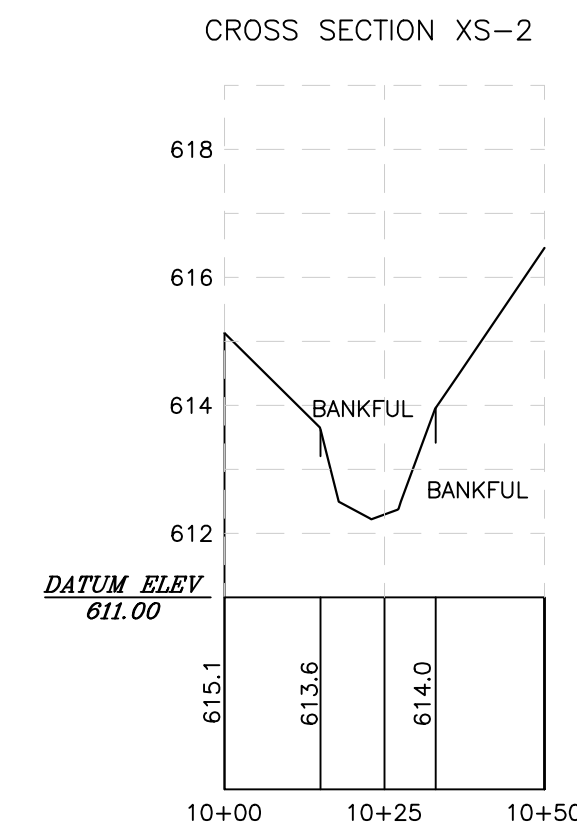
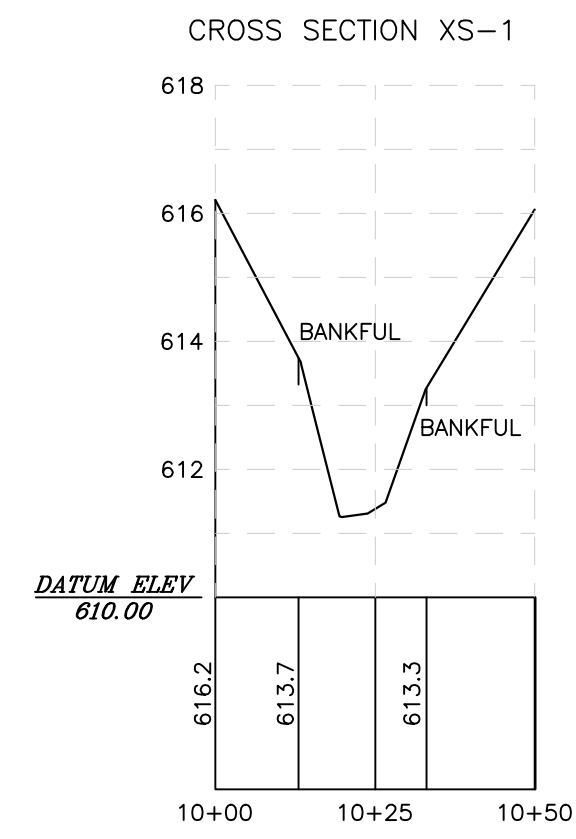


- LEGEND**
- ROCK CROSS VANE
 - LOG VANE
 - LOG SILL
 - RIP-RAP
 - RIFFLE
 - SOLAR PANEL
 - MONITORING STATION
 - RAIN GAGUE
 - VEG. PLOT
 - PHOTO POINT
 - GROUND WATER GAUGE
 - BRUSH TOE
 - TREE LINE
 - BANKFUL
 - BANK TOE
 - THALWEG
 - FLOODPLAIN BENCHES/CUTS

THALWEG PROFILE

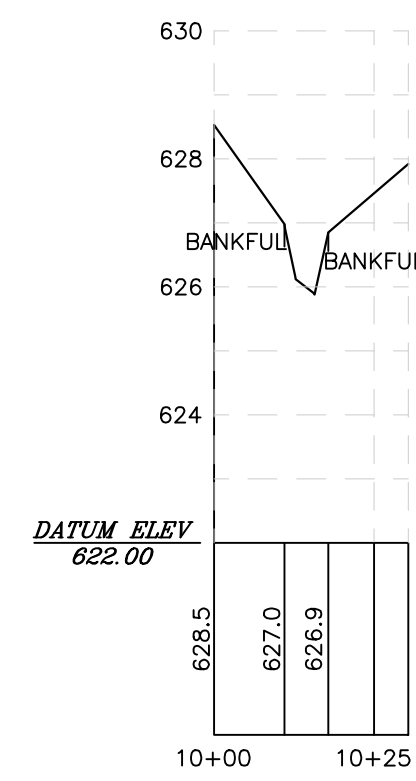


STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 24 JULY 2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A WEST BRANCH

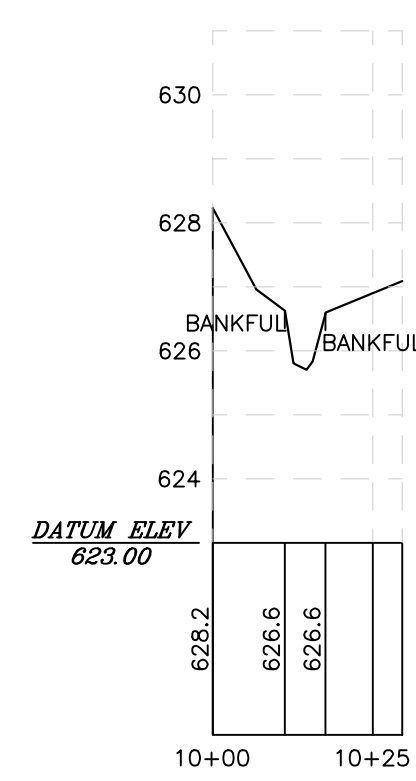


STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL: 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 23MAY2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A BACK CREEK CROSS SECTIONS

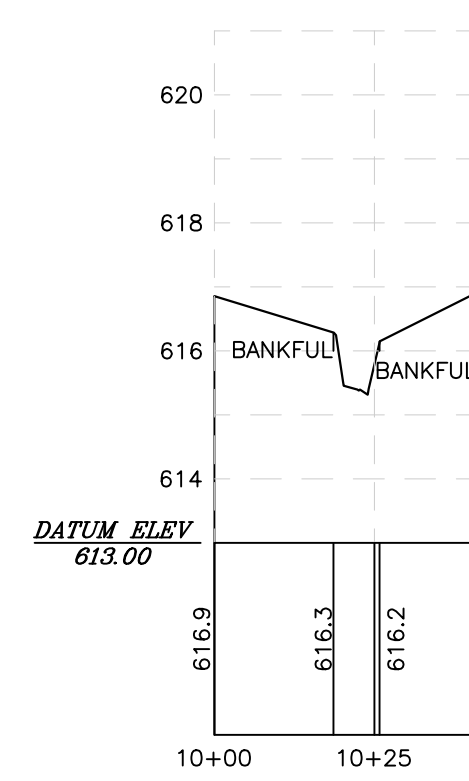
CROSS SECTION XS-8



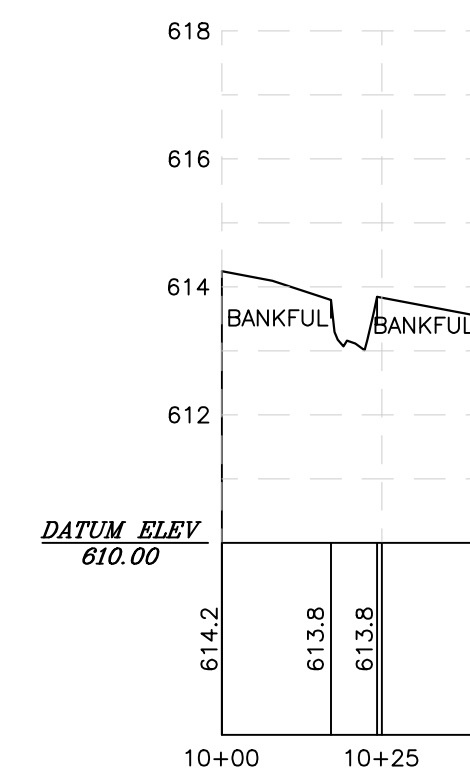
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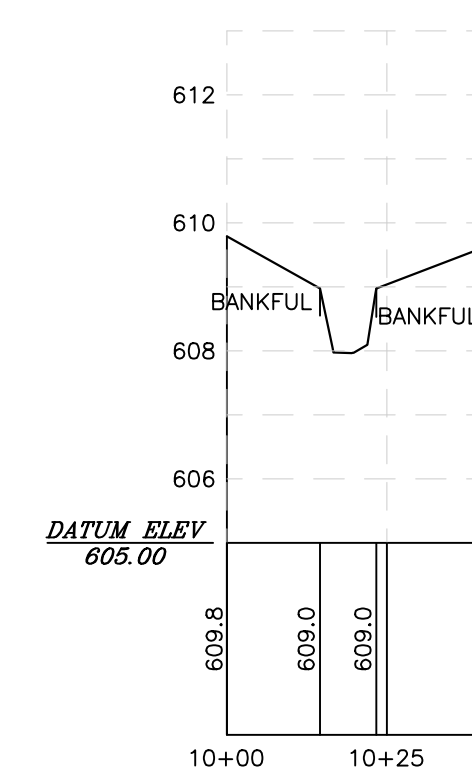
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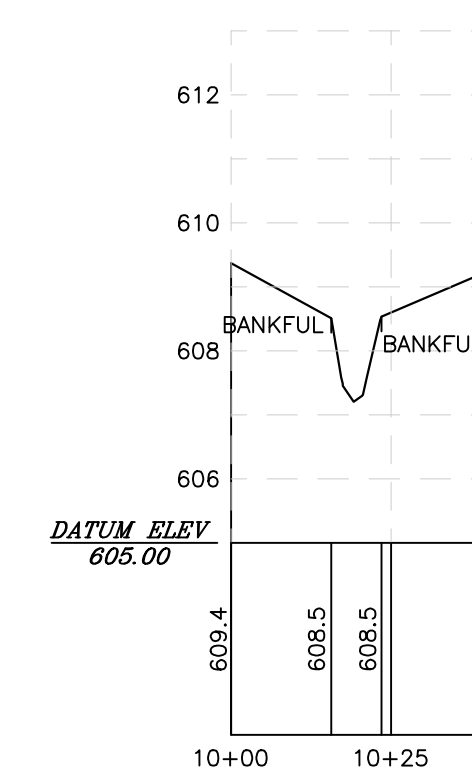
CROSS SECTION XS-11



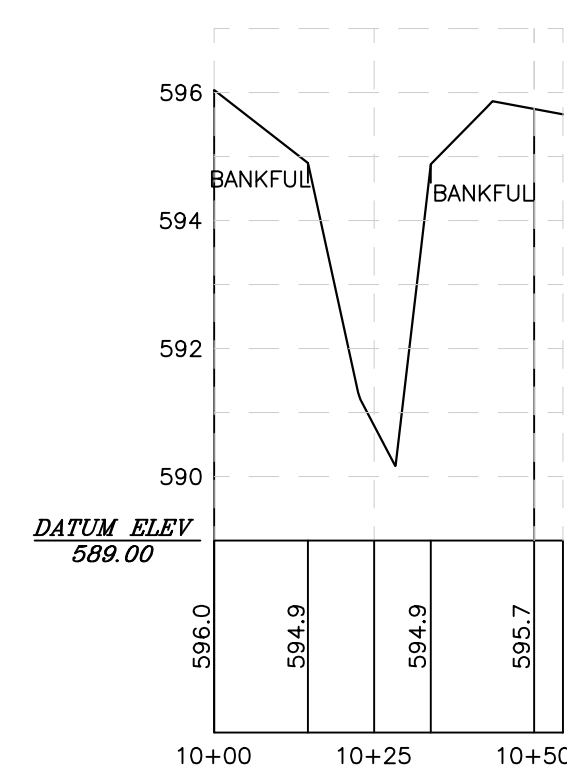
CROSS SECTION XS-12



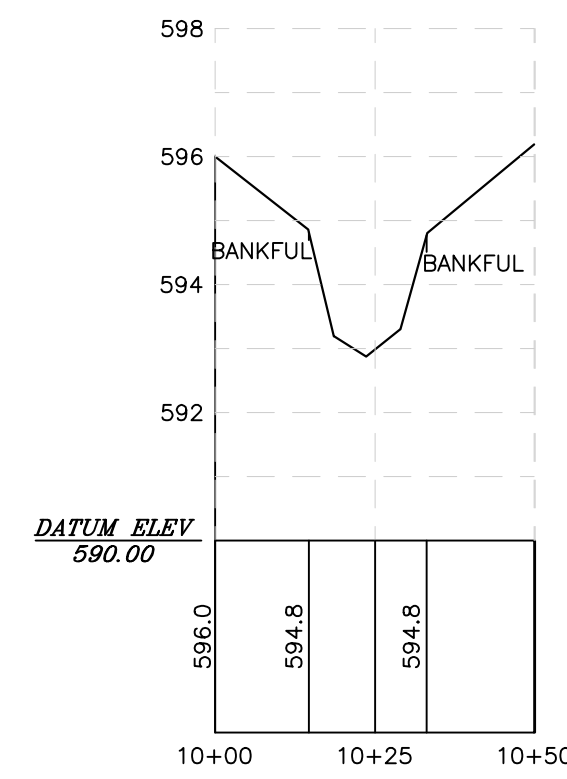
CROSS SECTION XS-13



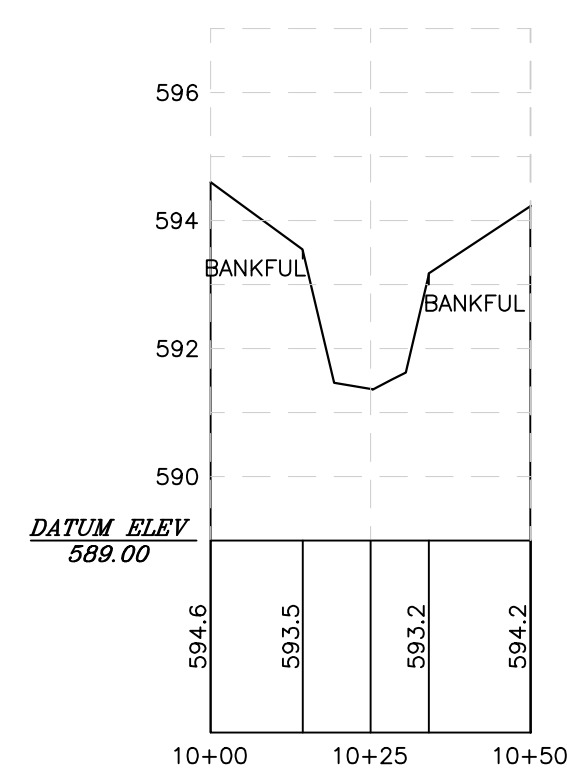
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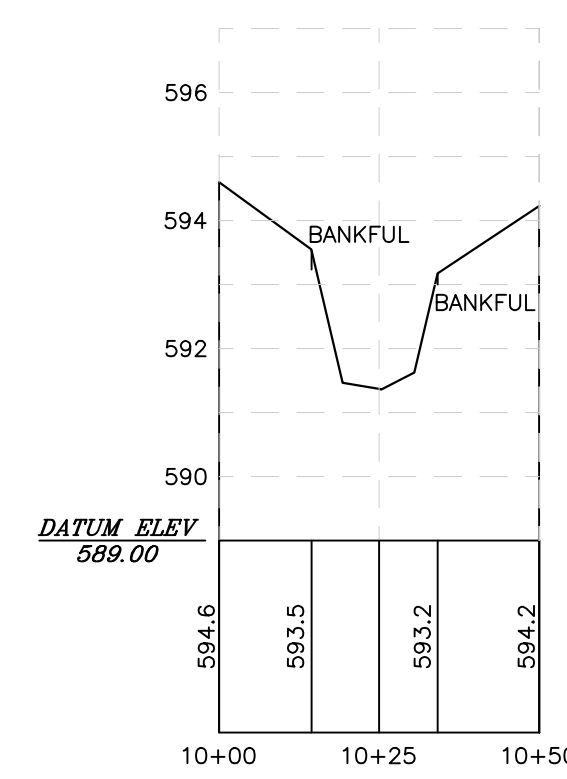
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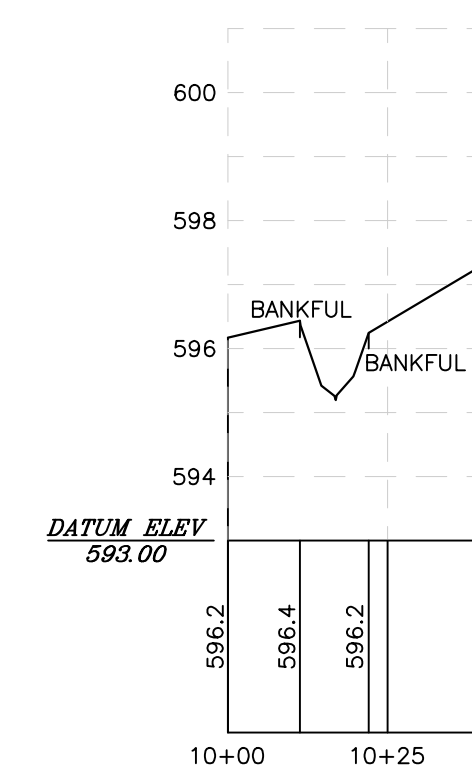
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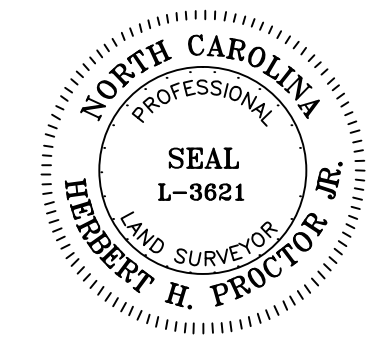
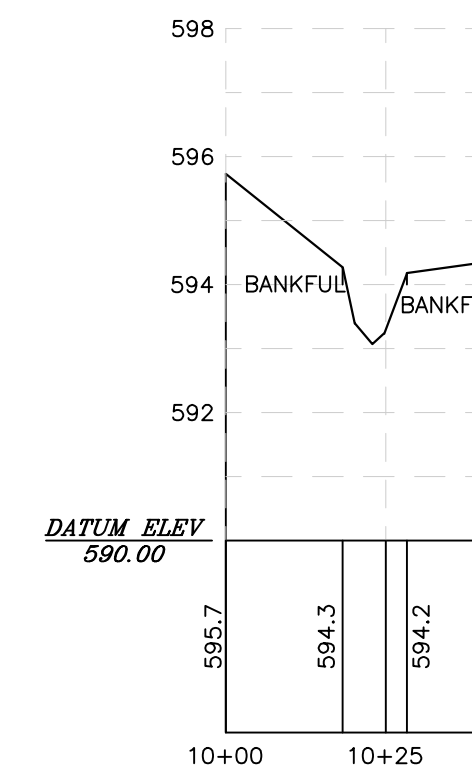
CROSS SECTION XS-25



CROSS SECTION XS-26



CROSS SECTION XS-27



STEWART-PROCTOR, PLLC ENGINEERING and SURVEYING 322 CHAPANOKE ROAD SUITE 100 RALEIGH, NC 27603 TEL. 919 779-1855 FAX 919 779-1661		ASBUILT FOR HEATH DAIRY ROAD STREAM RESTORATION SITE	
DATE: 23MAY2013	SURVEYED BY	JOB	NORTH CAROLINA
SCALE 1"=30'	DRAWN BY	DWG. NO.	RANDOLPH COUNTY
REVISIONS			SCO PROJECT NUMBER: 04-06331-01A BRANCH CROSS SECTIONS