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SUITE 300
CHARLOTTE, NC 28273
(P) 704-329-0900
(F) 704-329-0905
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CLIENT:

**ENVIRONMENTAL BANC &
EXCHANGE, LLC**
909 CAPABILITY DR.
RALEIGH, NC 27606
(P) 919-829-9909

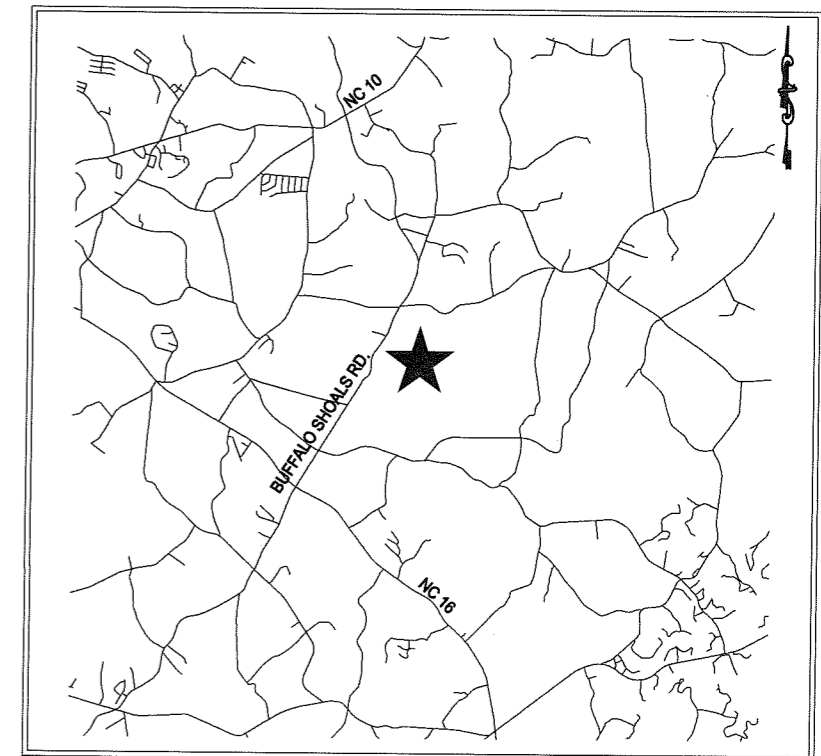
AS-BUILT SURVEY OF NORTH FORK MOUNTAIN CREEK STREAM AND WETLAND RESTORATION CATAWBA COUNTY, NORTH CAROLINA

ENVIRONMENTAL BANC & EXCHANGE, LLC
RALEIGH, NORTH CAROLINA
JULY 13, 2012
PROJECT NUMBER: 171300307

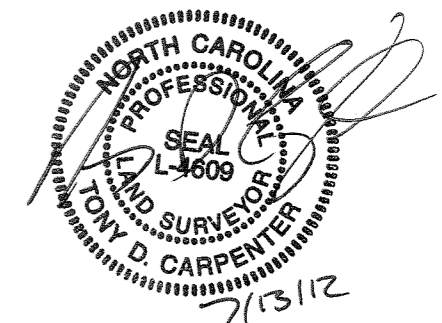
SHEET DESCRIPTION

0.0	COVER
1.1	LEGEND AND SYMBOLS
2.2	KEY SHEET
3.3 - 3.11	AS-BUILT PLAN SHEETS
4.12 - 4.13	AS-BUILT TYPICAL SECTION SHEETS
5.14 - 5.18	AS-BUILT PROFILE SHEETS
6.19	AS-BUILT PLANTING PLAN

SITE LOCATION



VICINITY MAP NOT TO SCALE



NOTES:

THIS IS A SURVEY OF AS-BUILT CONDITIONS ONLY. THIS INCLUDES SITE TOPOGRAPHY, CHANNEL DEFINITION, AND STREAM STRUCTURE LOCATION. THE PLS VERIFIES ONLY THE LOCATION AND ELEVATION OF THE POINTS COLLECTED AND THE CORRESPONDING ACCURACY OF THE CONTOURS TO DEFINE THE PREVIOUSLY MENTIONED FEATURES.

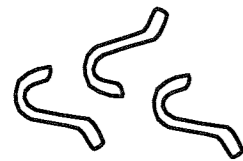
ALL WETLAND AND VEGETATION INFORMATION HAS BEEN PROVIDED BY THE DESIGNER.

THE AS-BUILT SURVEY WAS CONDUCTED WITH NAVD88 DATUM IN NORTH CAROLINA STATE PLANE (FT) COORDINATE SYSTEM.

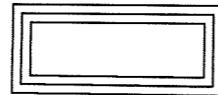
CONSERVATION EASEMENT WAS PROVIDED BY OTHERS.

PRE-EXISTING CONTOURS WERE PROVIDED BY OTHERS.

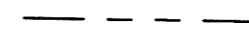
CONVENTIONAL SYMBOLS



BOULDER CONSTRUCTED RIFFLE



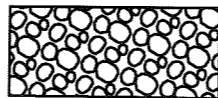
WOOD AND GRAVEL RIFFLE



CONSERVATION EASEMENT

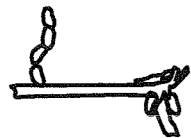


LOG STEP POOL



FORD CROSSING

EXISTING INDEX CONTOUR



LOG VANE W/
ROCK J-HOOK



EXISTING WETLAND

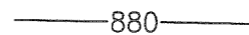
EXISTING INTERIM CONTOUR



WOODY DEBRIS / BRUSH
TOE PROTECTION / MATTRESS



PROPOSED WETLAND
CREATION



INDEX CONTOUR



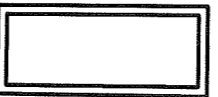
PROPOSED WETLAND
RESTORATION



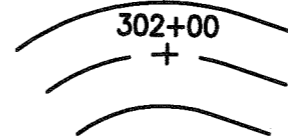
INTERIM CONTOUR



BOULDER CROSS-VANE



VEGETATION
MONITORING PLOT



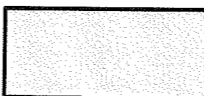
THALWEG



BOULDER CROSS-VANE
W/ STEP



BANKFULL



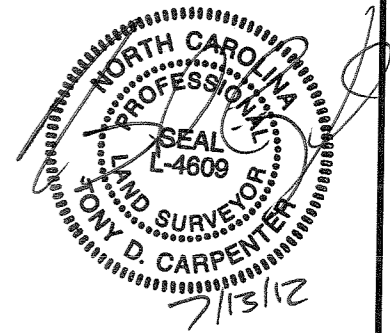
RIPRAP



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REVISIONS			
NO.	DATE	BY	DESCRIPTION

CERTIFICATION AND SEAL

AS-BUILT

PROJECT NAME
AS-BUILT SURVEY OF NORTH FORK
MOUNTAIN CREEK STREAM RESTORATION
CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
LEGEND AND SYMBOLS

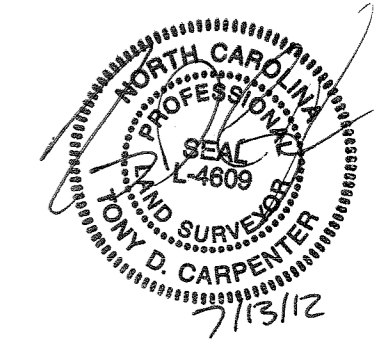
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VOID PLOT:	DRAWN BY: R.R.P.	1.1
RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	



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CERTIFICATION AND SEAL

AS-BUILT

PROJECT NAME
 AS-BUILT SURVEY OF NORTH FORK MOUNTAIN CREEK STREAM RESTORATION CATAWBA COUNTY, NORTH CAROLINA

KEY SHEET

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RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	



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 E: 1379502.72

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 UT 2 REACH 3
 STA: 206+69.71
 N: 691769.92
 E: 1380118.66

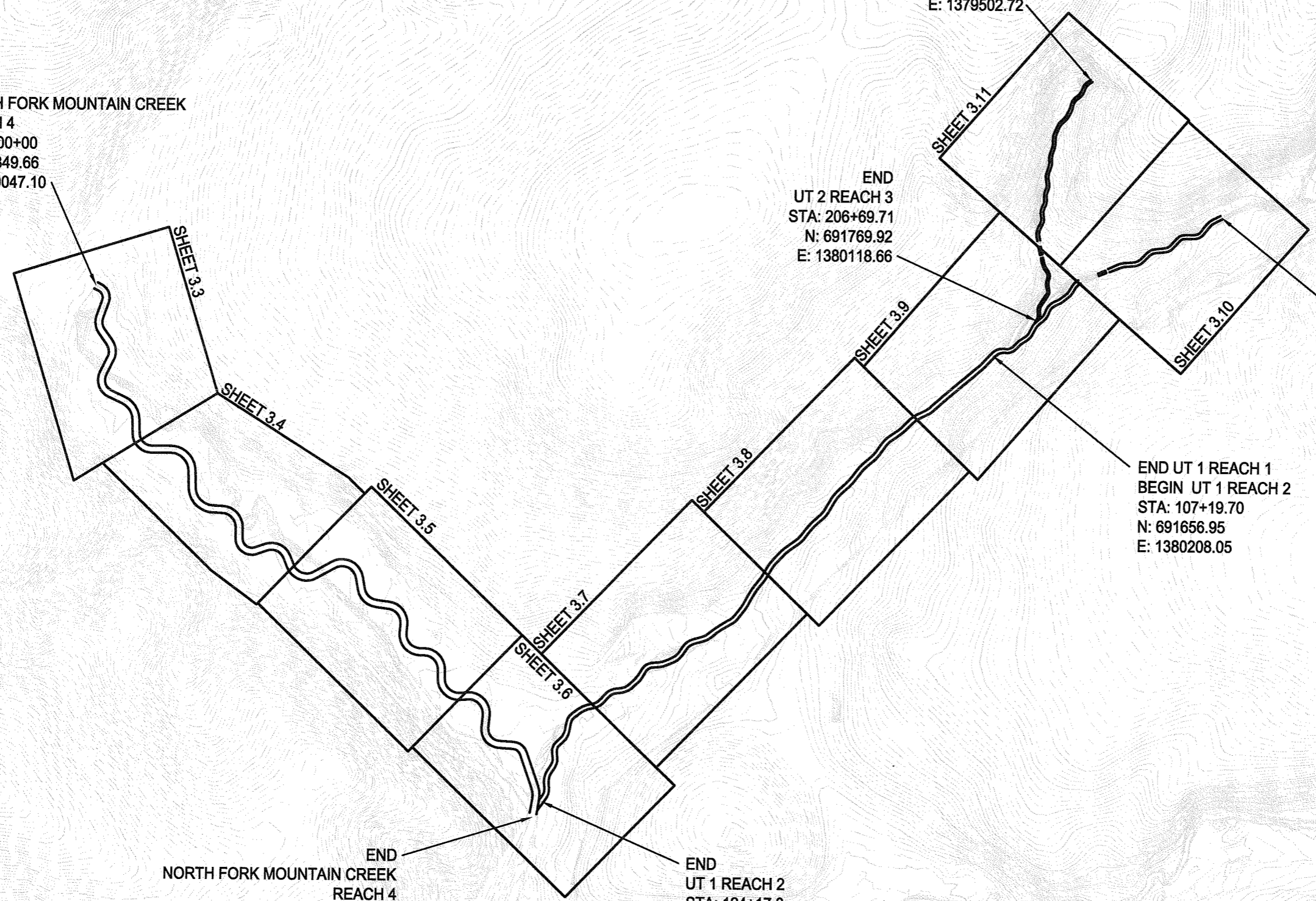
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 E: 1380208.05

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 REACH 4
 STA: 321+95.4
 N: 690488.28
 E: 1381399.59

END
 UT 1 REACH 2
 STA: 124+17.8
 N: 690509.11
 E: 1381359.18

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 NORTH FORK MOUNTAIN CREEK
 REACH 4
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 N: 689349.66
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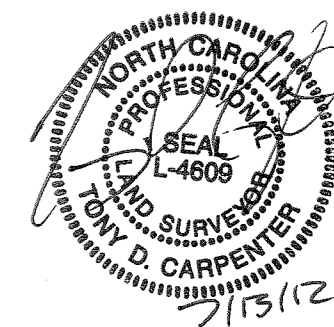


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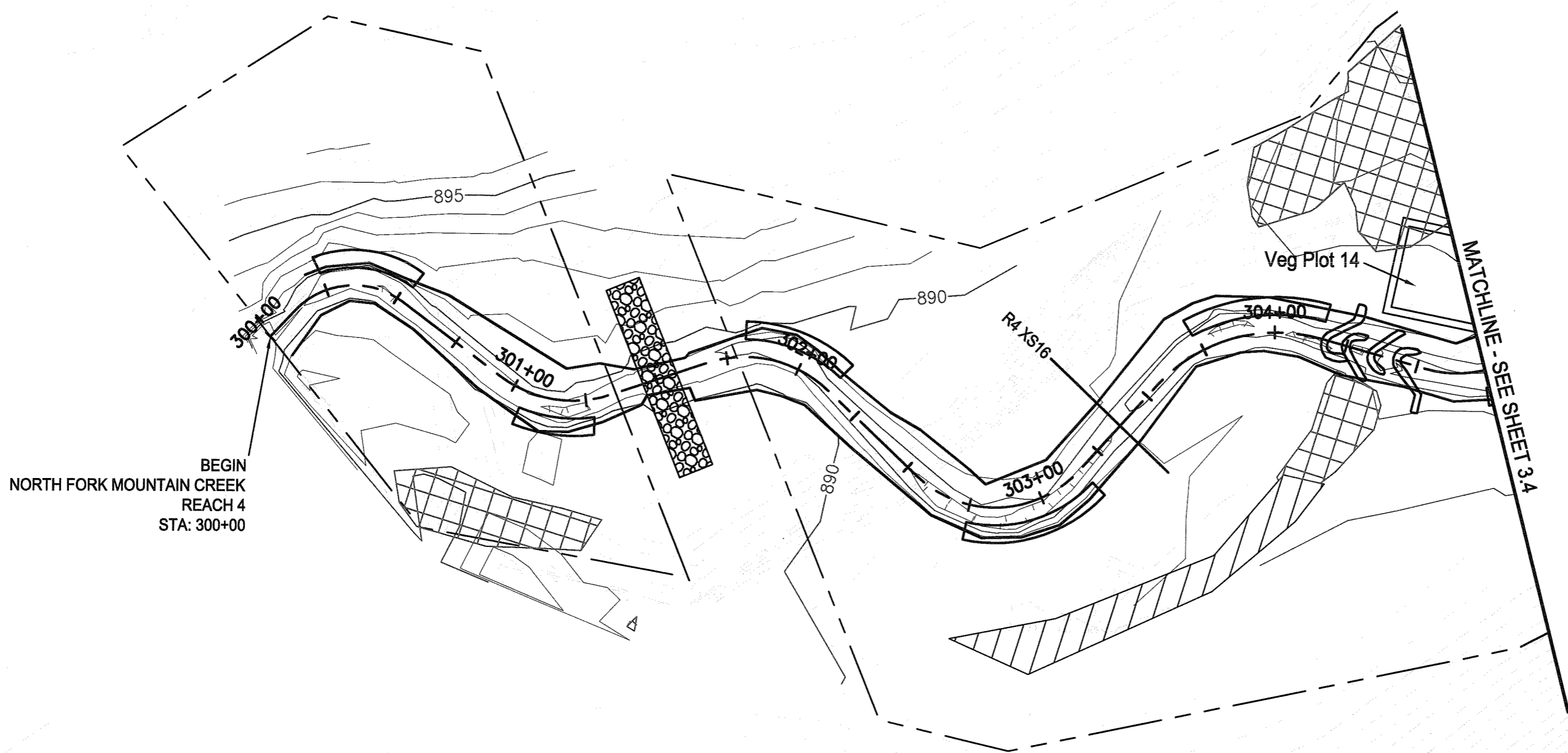
CERTIFICATION AND SEAL

AS-BUILT

PROJECT NAME
 AS-BUILT SURVEY OF NORTH FORK MOUNTAIN CREEK STREAM RESTORATION CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLAN SHEET

CADD PLOT:	SCALE: N/A	SHEET NO.
VOID PLOT:	DRAWN BY: R.R.P.	3.3
RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	



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 NORTH FORK MOUNTAIN CREEK
 REACH 4
 STA: 300+00



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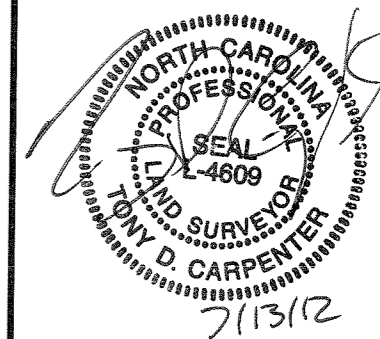


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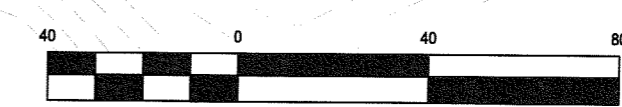
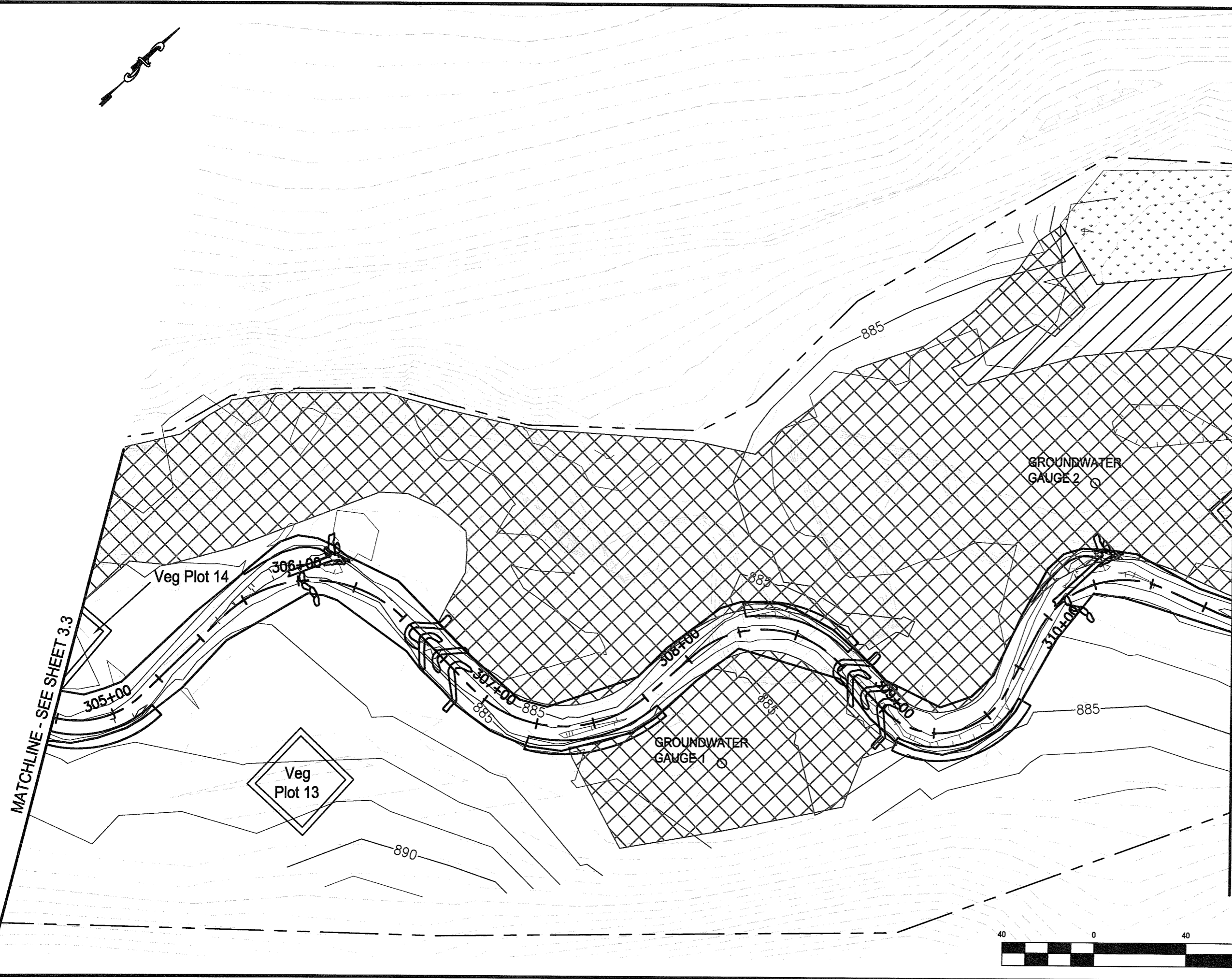
CERTIFICATION AND SEAL

AS-BUILT

PROJECT NAME
 AS-BUILT SURVEY FOR NORTH FORK
 MOUNTAIN CREEK STREAM RESTORATION
 CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLAN SHEET

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RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	



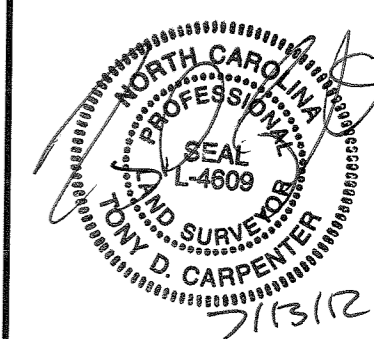
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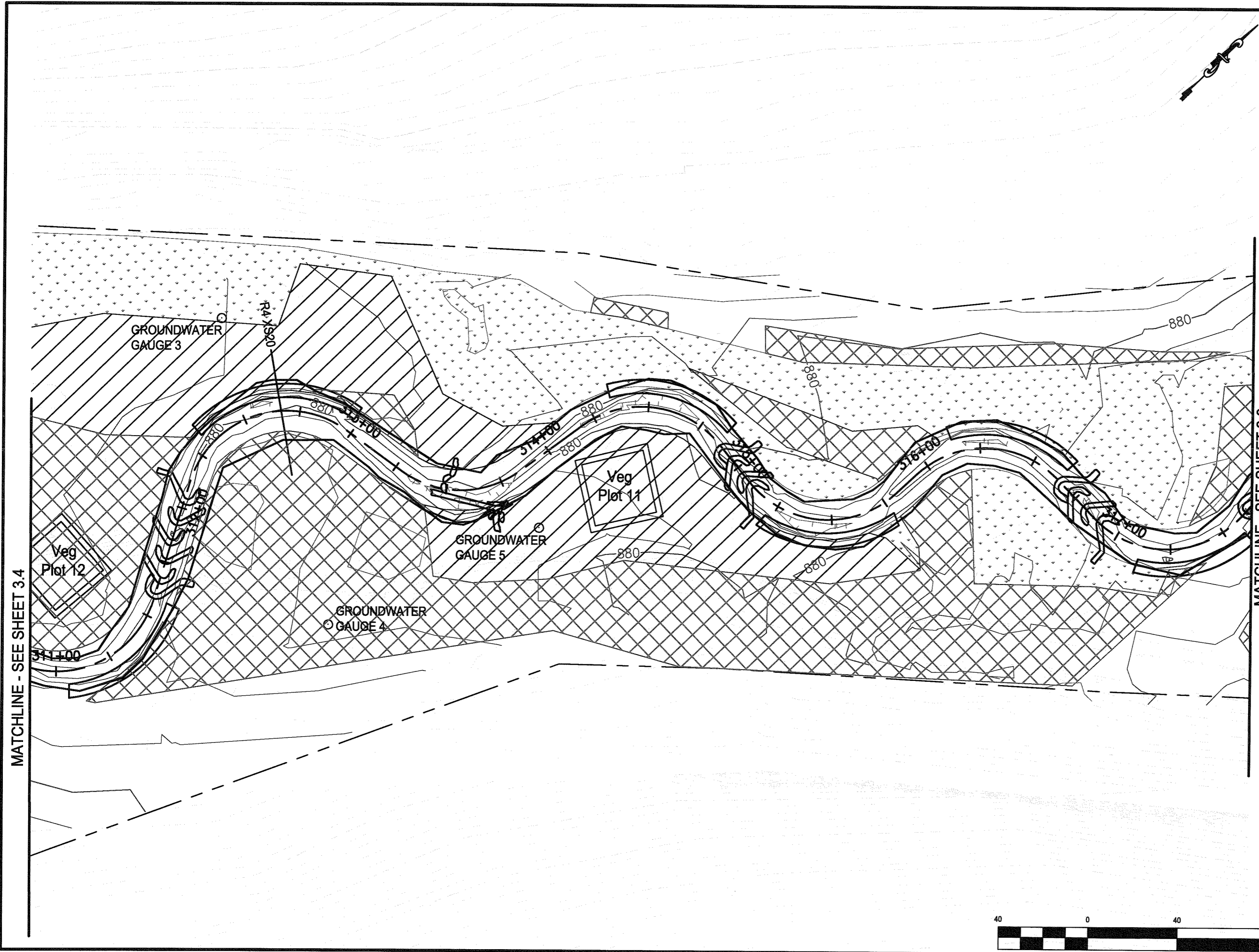
CERTIFICATION AND SEAL

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 CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLAN SHEET

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RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	



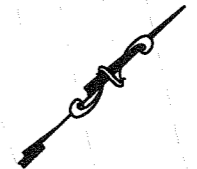
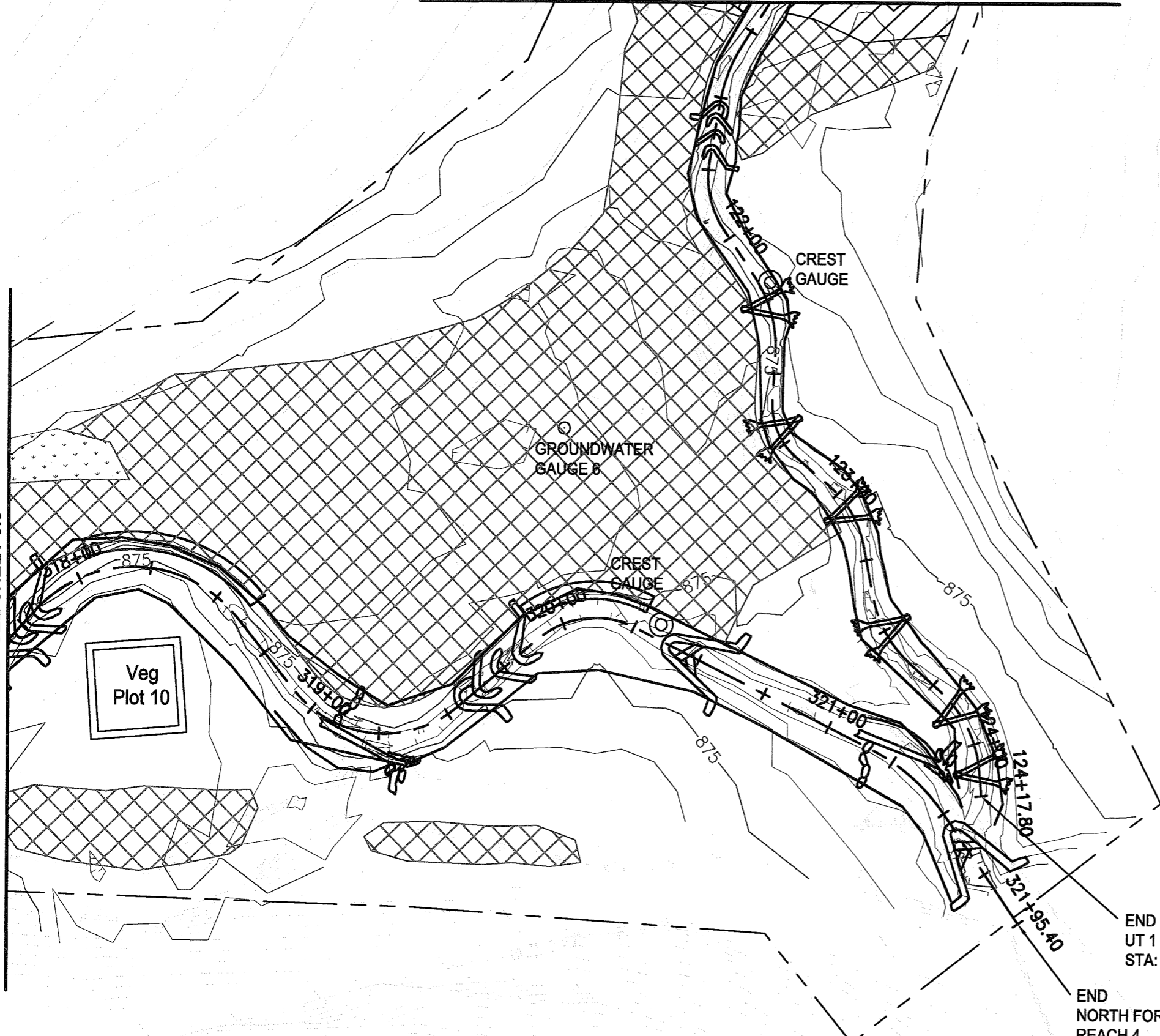
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MATCHLINE - SEE SHEET 3.6

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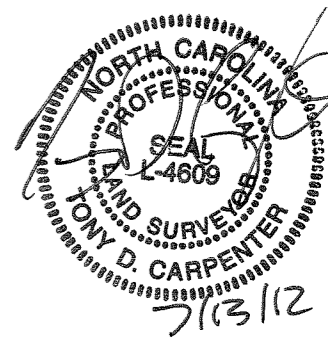
MATCHLINE - SEE SHEET 3.7

MATCHLINE - SEE SHEET 3.5



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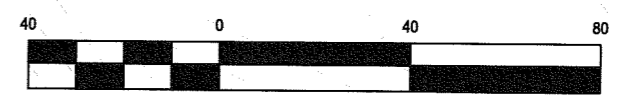
CERTIFICATION AND SEAL

AS-BUILT

PROJECT NAME
 AS-BUILT SURVEY OF NORTH FORK MOUNTAIN CREEK STREAM RESTORATION CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLAN SHEET

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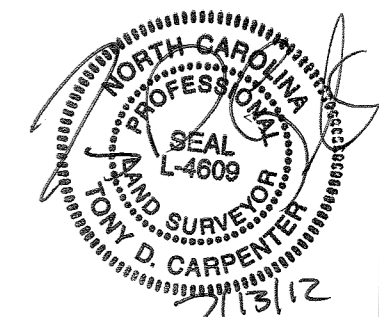


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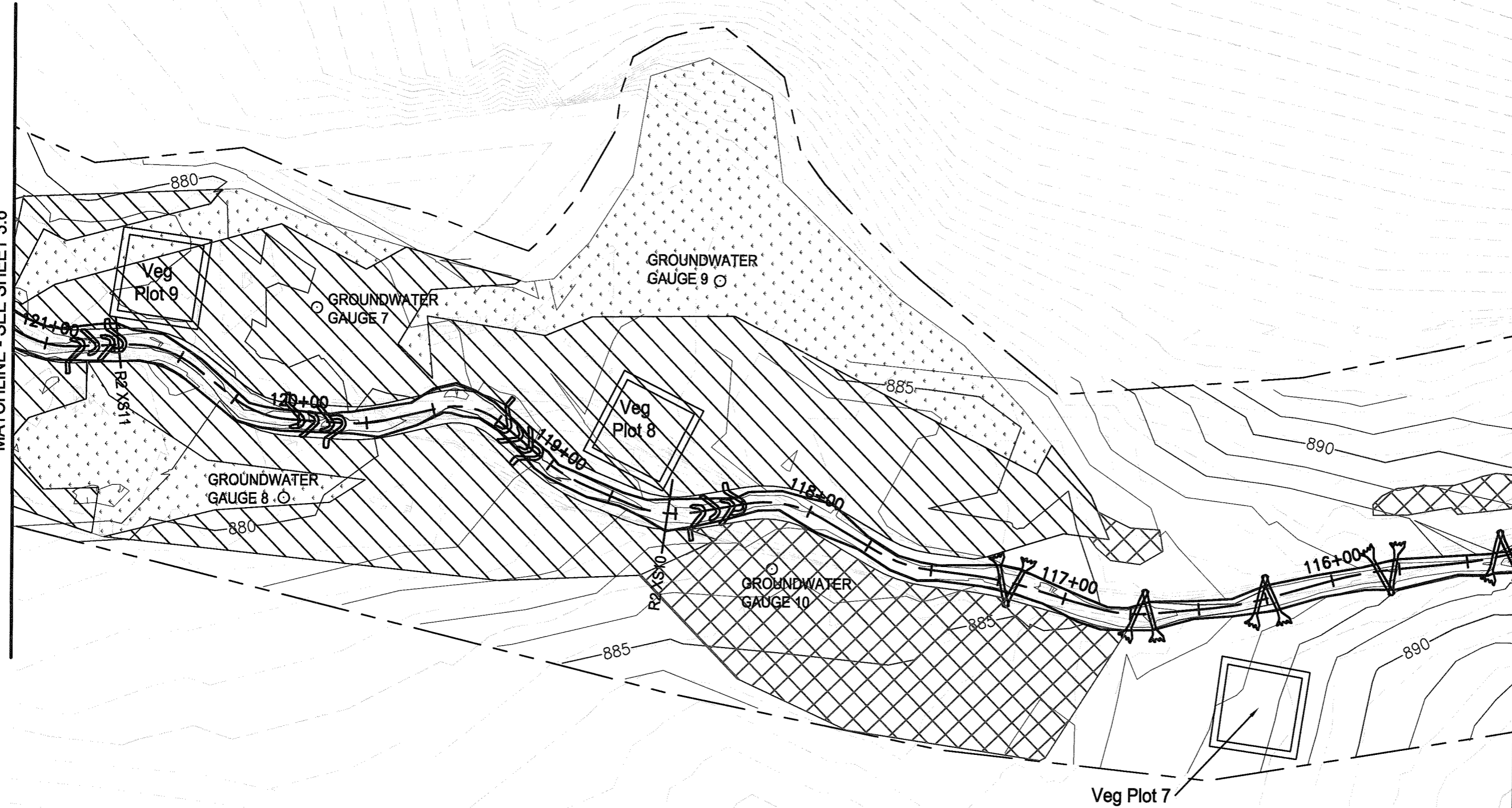
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 AS-BUILT SURVEY OF NORTH FORK
 MOUNTAIN CREEK STREAM RESTORATION
 CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLAN SHEET

CADD PLOT:	SCALE: N/A	SHEET NO.
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RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	

MATCHLINE - SEE SHEET 3.6

MATCHLINE - SEE SHEET 3.8



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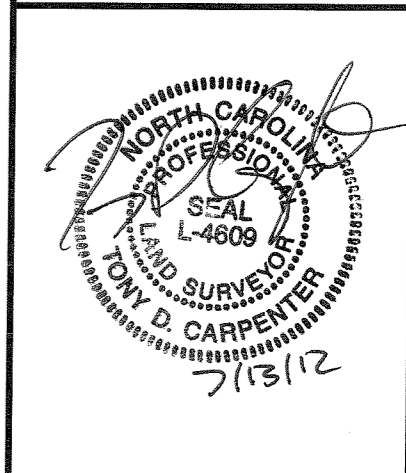


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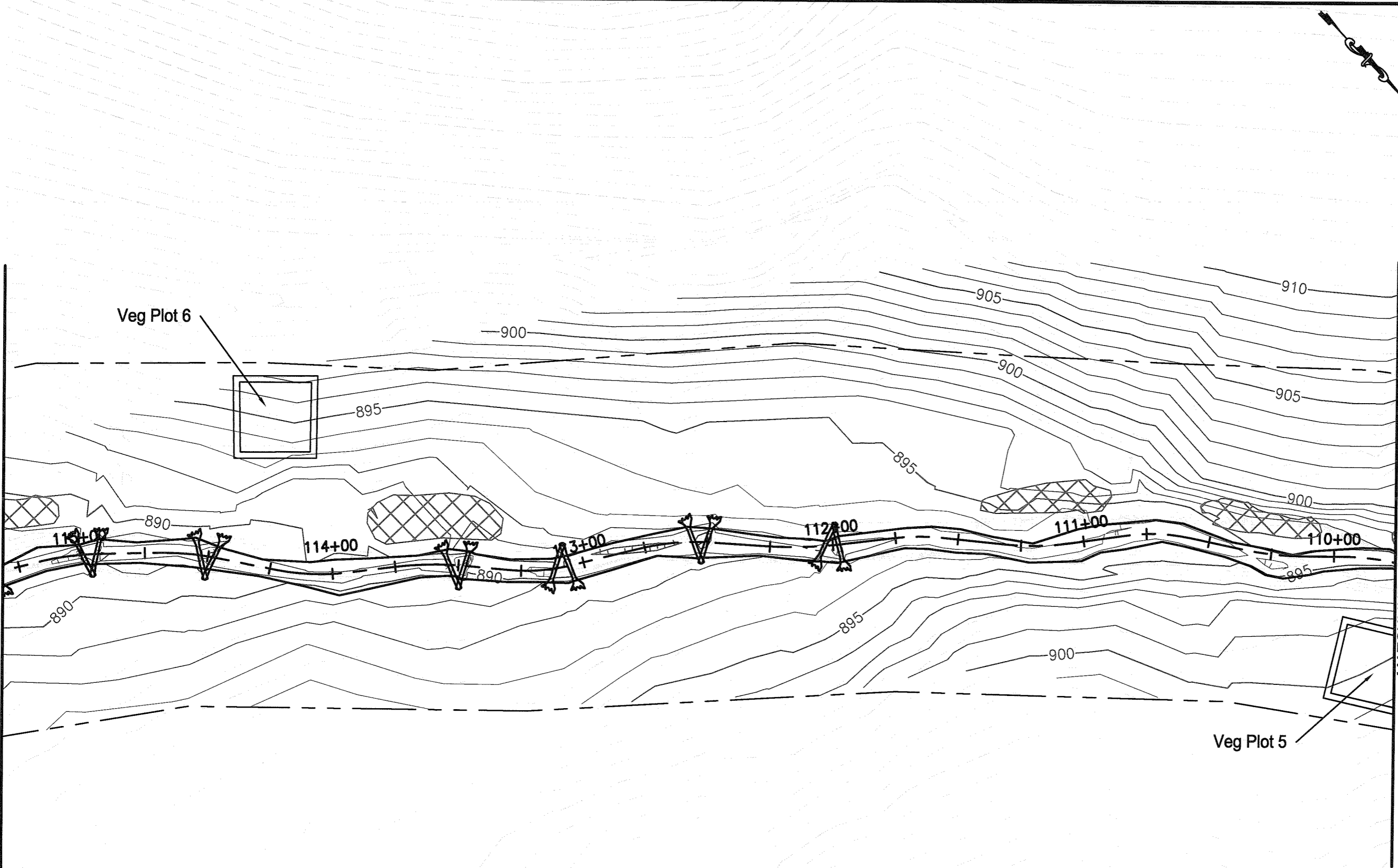
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AS-BUILT SURVEY OF NORTH FORK
MOUNTAIN CREEK STREAM RESTORATION
CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLAN SHEET

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RELEASED TO CONSTRUCTION	DATE: 07-13-12 REVIEWED BY: T.T.	

MATCHLINE - SEE SHEET 3.7

MATCHLINE - SEE SHEET 3.9



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MATCHLINE - SEE SHEET 3.8

MATCHLINE - SEE SHEET 3.11

MATCHLINE - SEE SHEET 3.10

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STA: 206+69.71

Farm Road

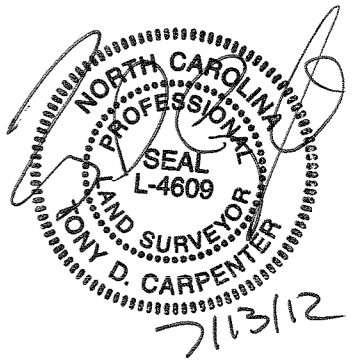
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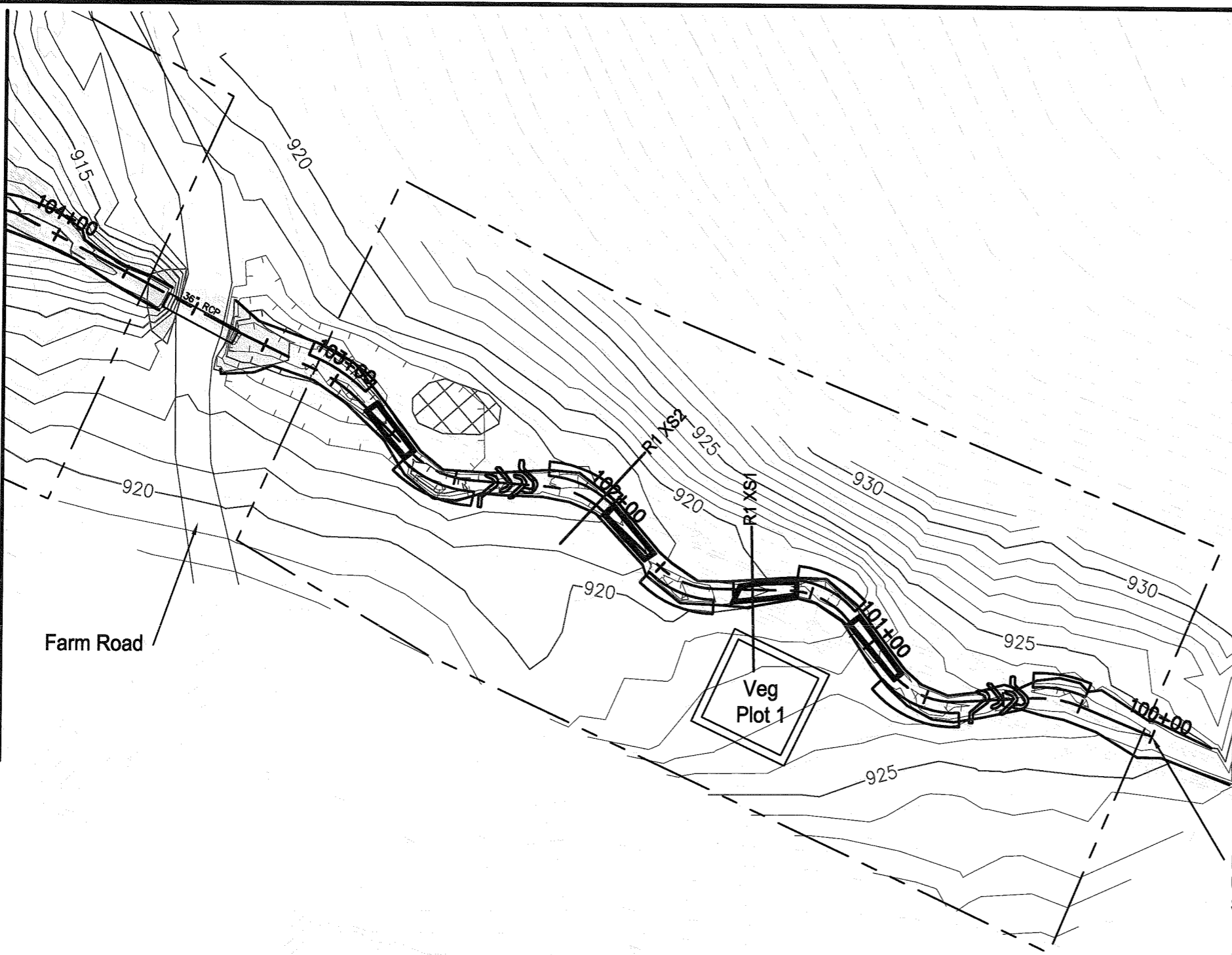
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AS-BUILT SURVEY OF NORTH FORK
MOUNTAIN CREEK STREAM RESTORATION
CATAWBA COUNTY, NORTH CAROLINA

AS-BUILT PLAN SHEET


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VOID PLOT:	DRAWN BY: R.R.P.	3.9
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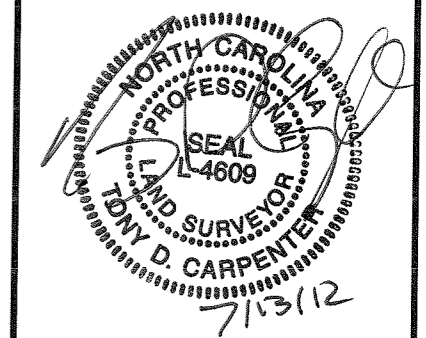


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STA: 100+00



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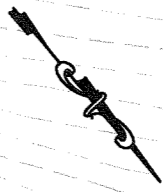
PROJECT NAME
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MOUNTAIN CREEK STREAM RESTORATION
CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLAN SHEET

CADD PLOT:	SCALE: N/A	SHEET NO.
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	REVIEWED BY: T.T.	



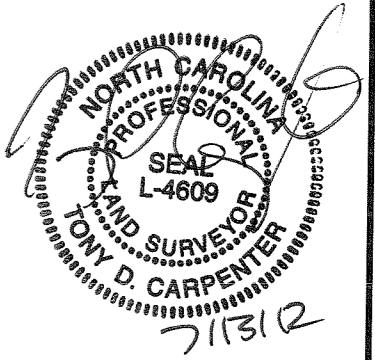
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 MOUNTAIN CREEK STREAM RESTORATION
 CATAWBA COUNTY, NORTH CAROLINA

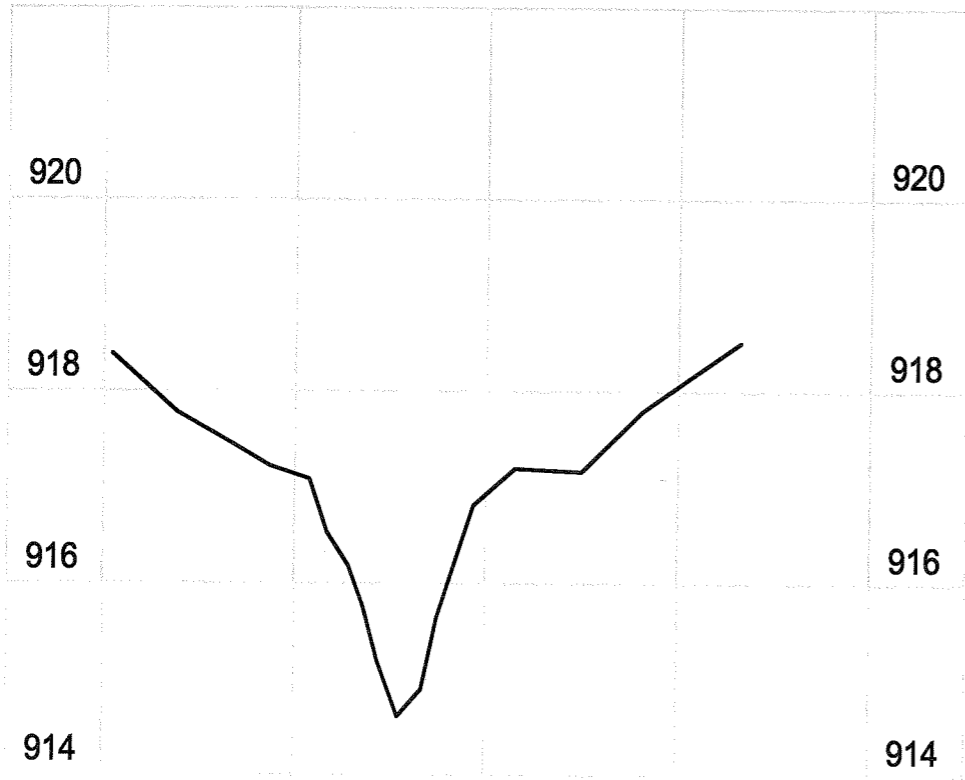
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RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	

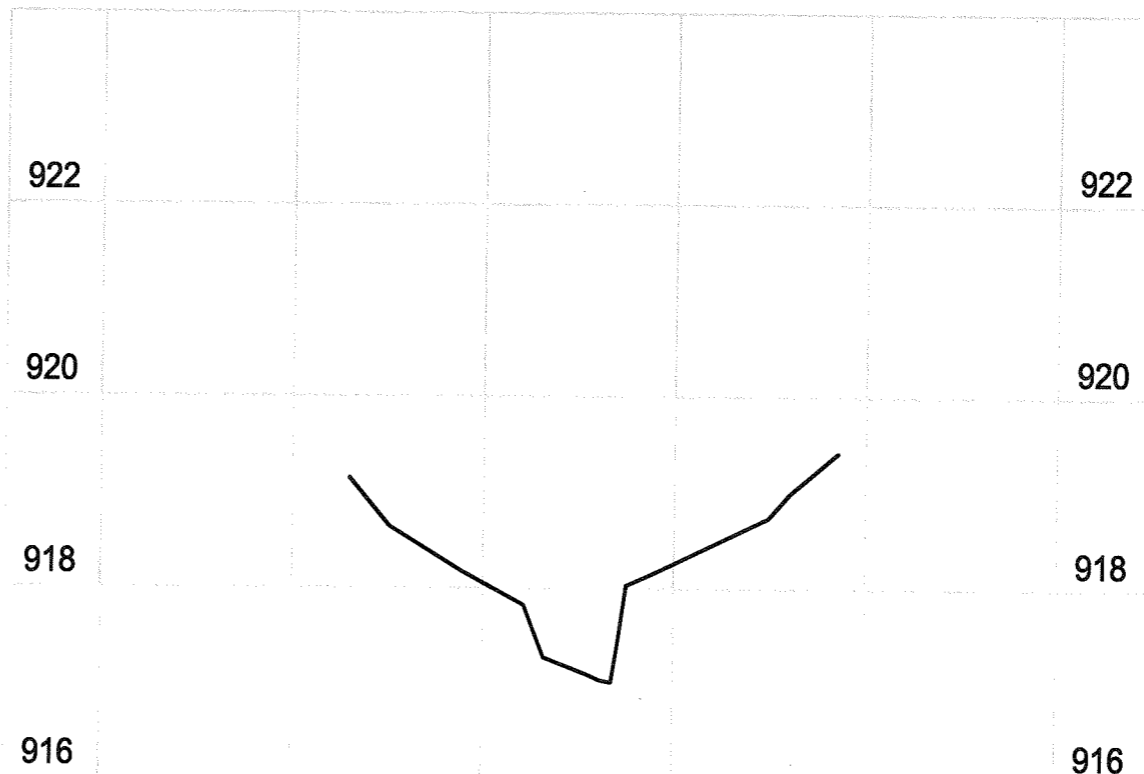
MATCHLINE - SEE SHEET 3.9



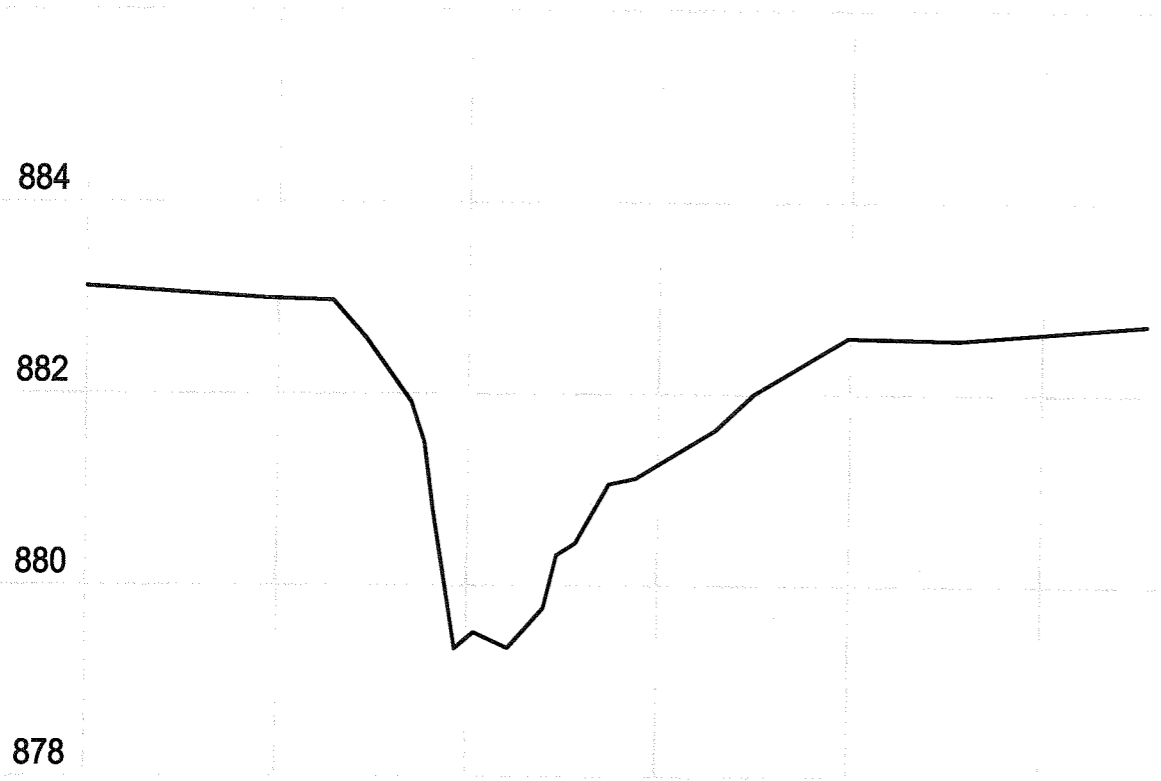
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REACH 3 - XS13 - POOL



REACH 3 - XS12 - RIFFLE



REACH 4 - XS20 - POOL



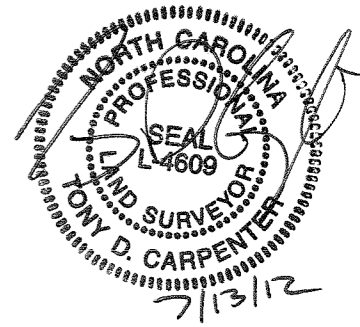
REACH 4 - XS16 - RIFFLE



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REVISIONS			
NO.	DATE	BY	DESCRIPTION

CERTIFICATION AND SEAL

AS-BUILT

PROJECT NAME
 AS-BUILT SURVEY OF NORTH FORK MOUNTAIN CREEK STREAM RESTORATION CATAWBA COUNTY, NORTH CAROLINA

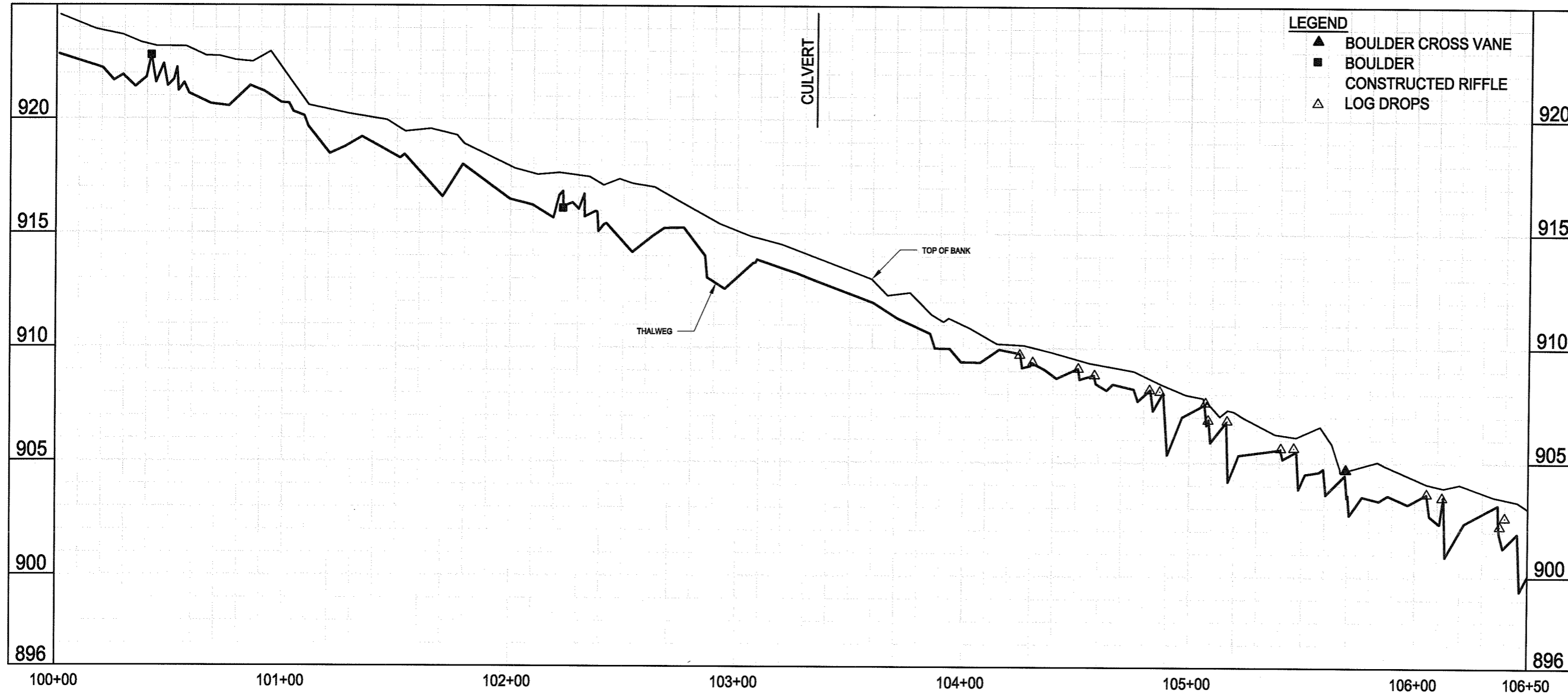
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AS-BUILT TYPICAL SECTION SHEET

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	REVIEWED BY: T.T.	

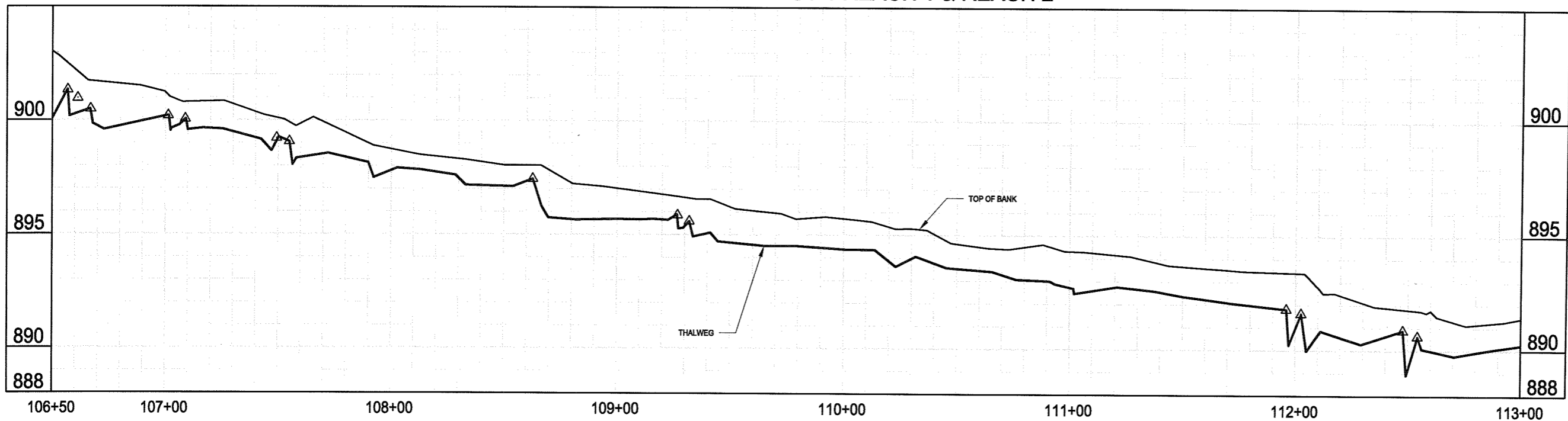
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AS-BUILT PROFILE - UT 1 REACH 1 & REACH 2



AS-BUILT PROFILE - UT 1 REACH 1 & REACH 2



LEGEND

- ▲ BOULDER CROSS VANE
- BOULDER
- CONSTRUCTED RIFFLE
- ▽ LOG DROPS

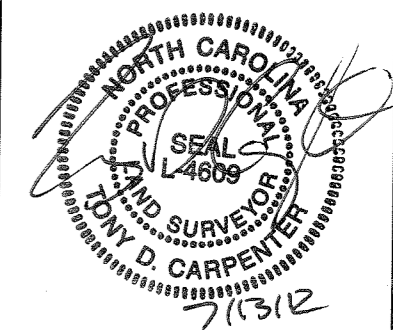


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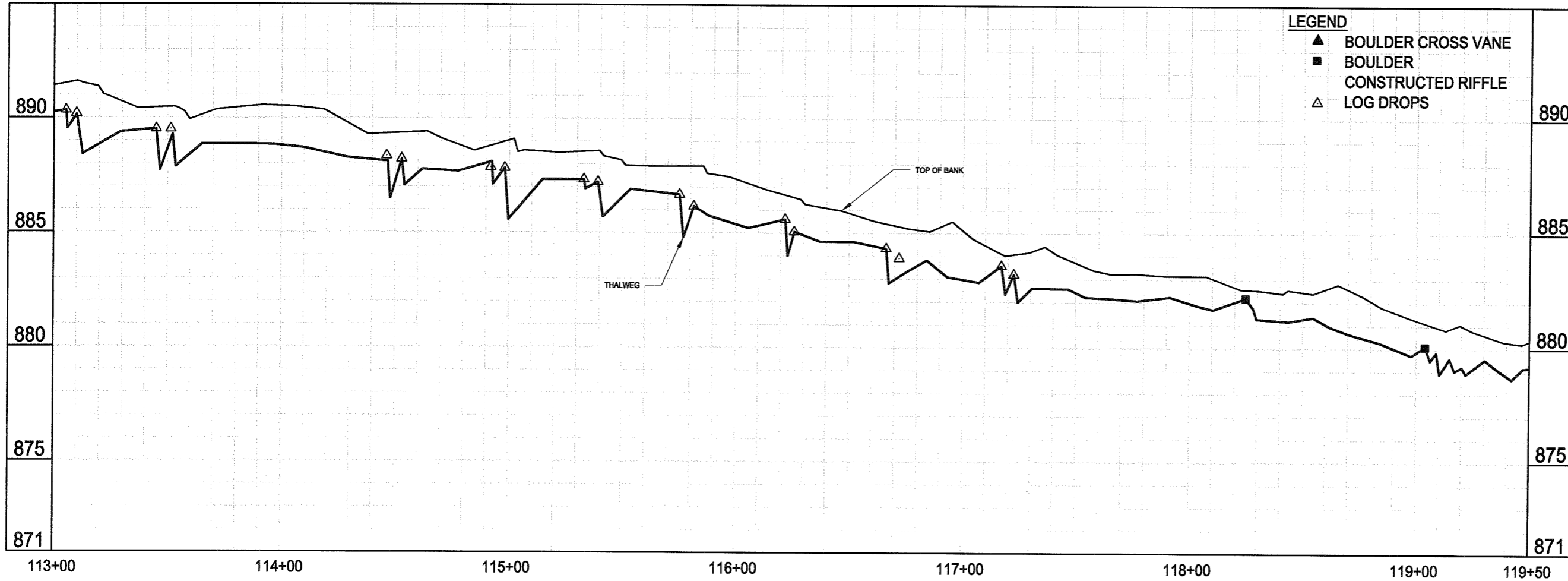
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 AS-BUILT SURVEY OF NORTH FORK
 MOUNTAIN CREEK STREAM RESTORATION
 CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PROFILE SHEET

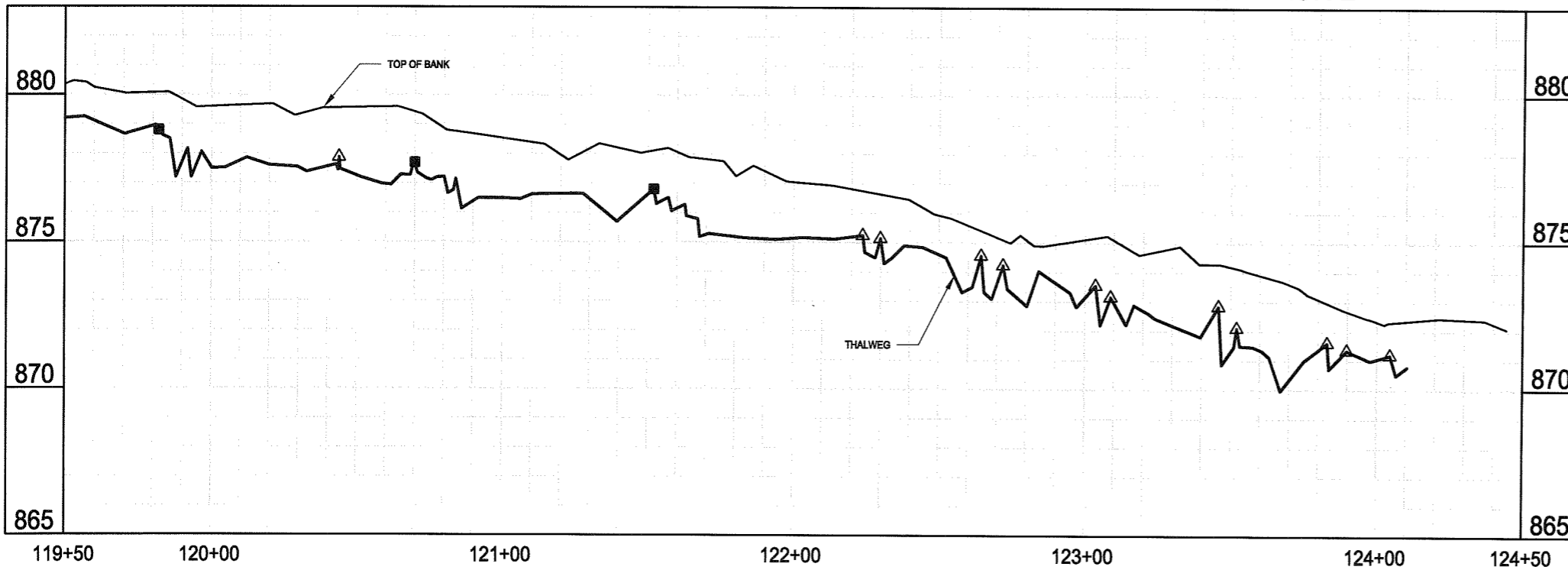
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AS-BUILT PROFILE - UT 1 REACH 1 & REACH 2



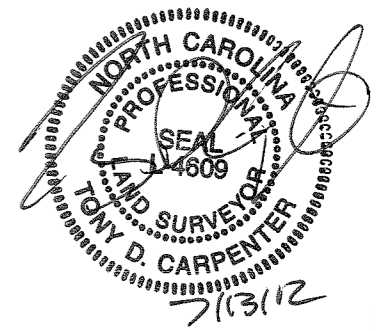
AS-BUILT PROFILE - UT 1 REACH 1 & REACH 2



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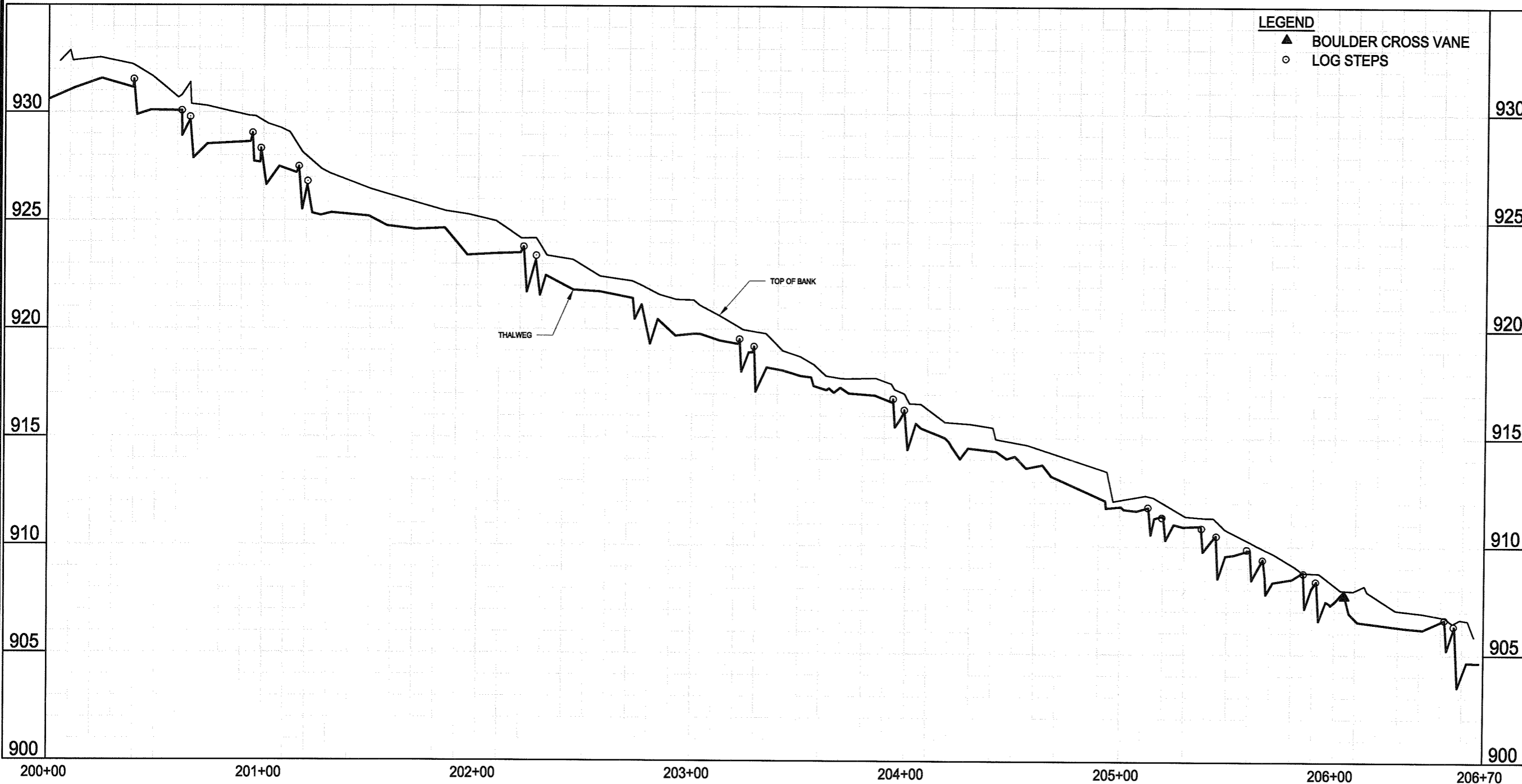
PROJECT NAME
 AS-BUILT SURVEY OF NORTH FORK
 MOUNTAIN CREEK STREAM RESTORATION
 CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PROFILE SHEET

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VOID PLOT:	DRAWN BY: R.R.P.	5.15
RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	

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AS-BUILT PROFILE - UT 2 REACH 3



LEGEND
 ▲ BOULDER CROSS VANE
 ○ LOG STEPS

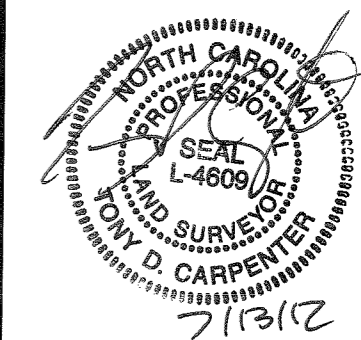


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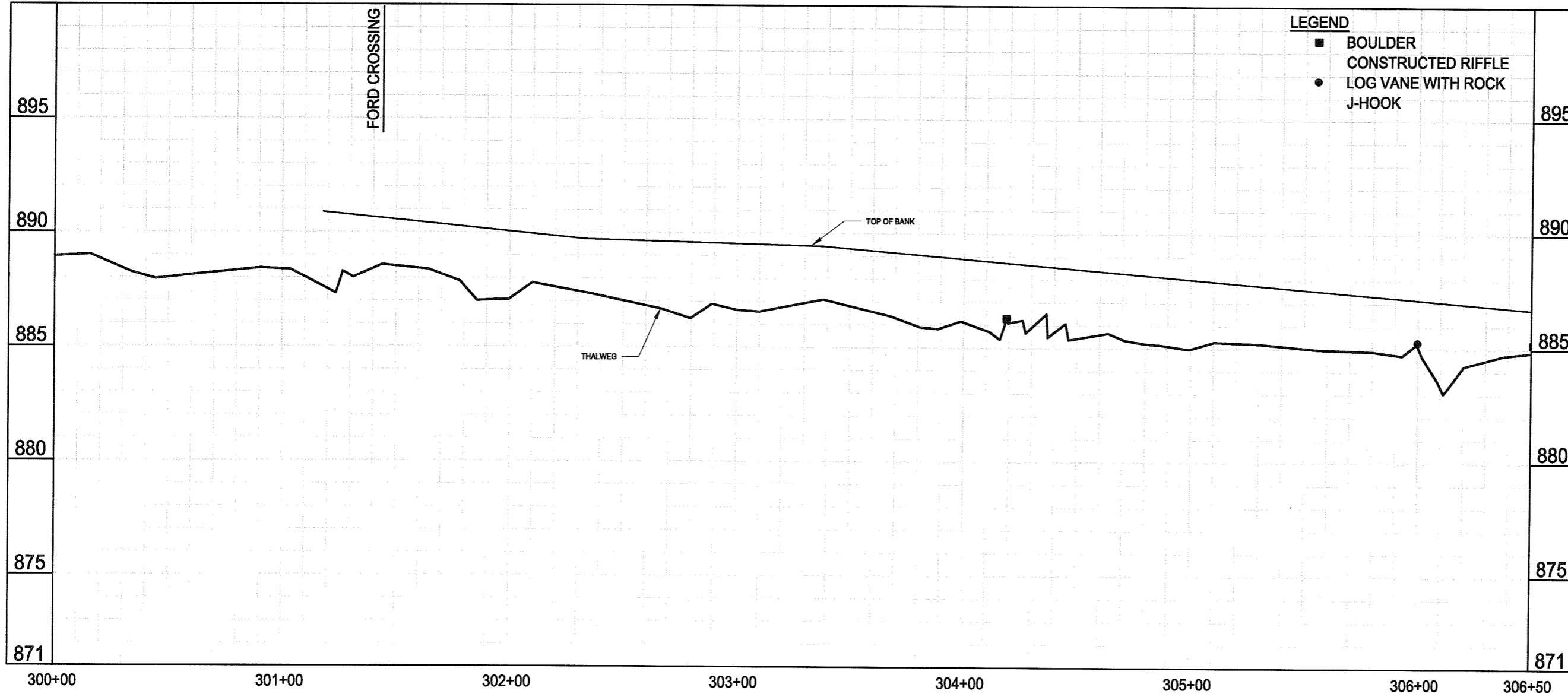
PROJECT NAME
 AS-BUILT SURVEY OF NORTH FORK
 MOUNTAIN CREEK STREAM RESTORATION
 CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PROFILE SHEET

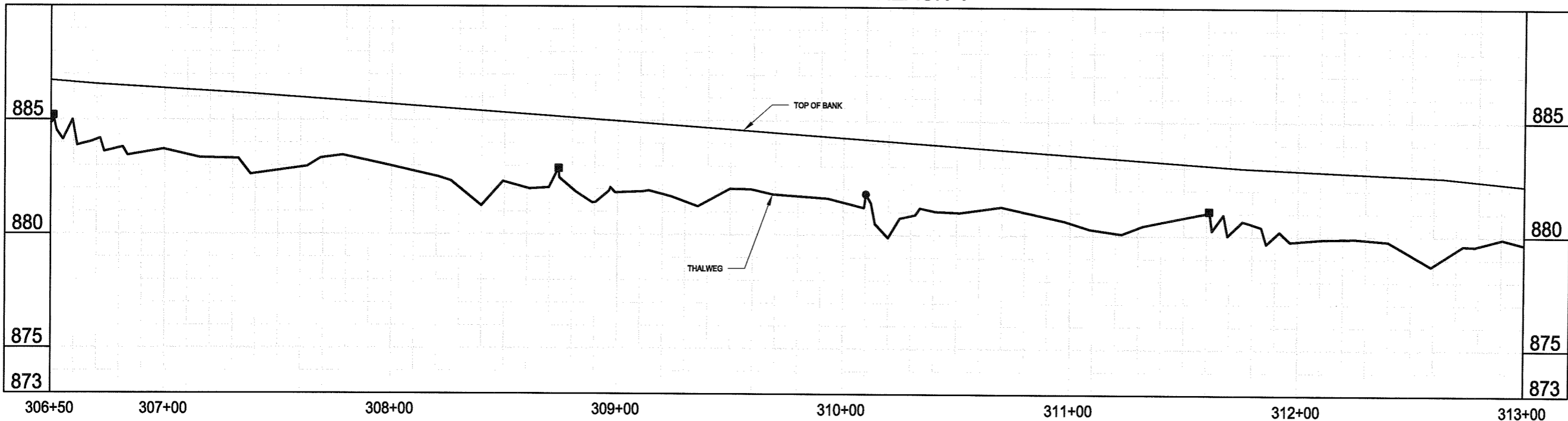
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	REVIEWED BY: T.T.	

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AS-BUILT PROFILE - REACH 4



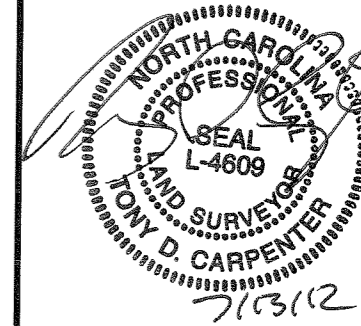
AS-BUILT PROFILE - REACH 4



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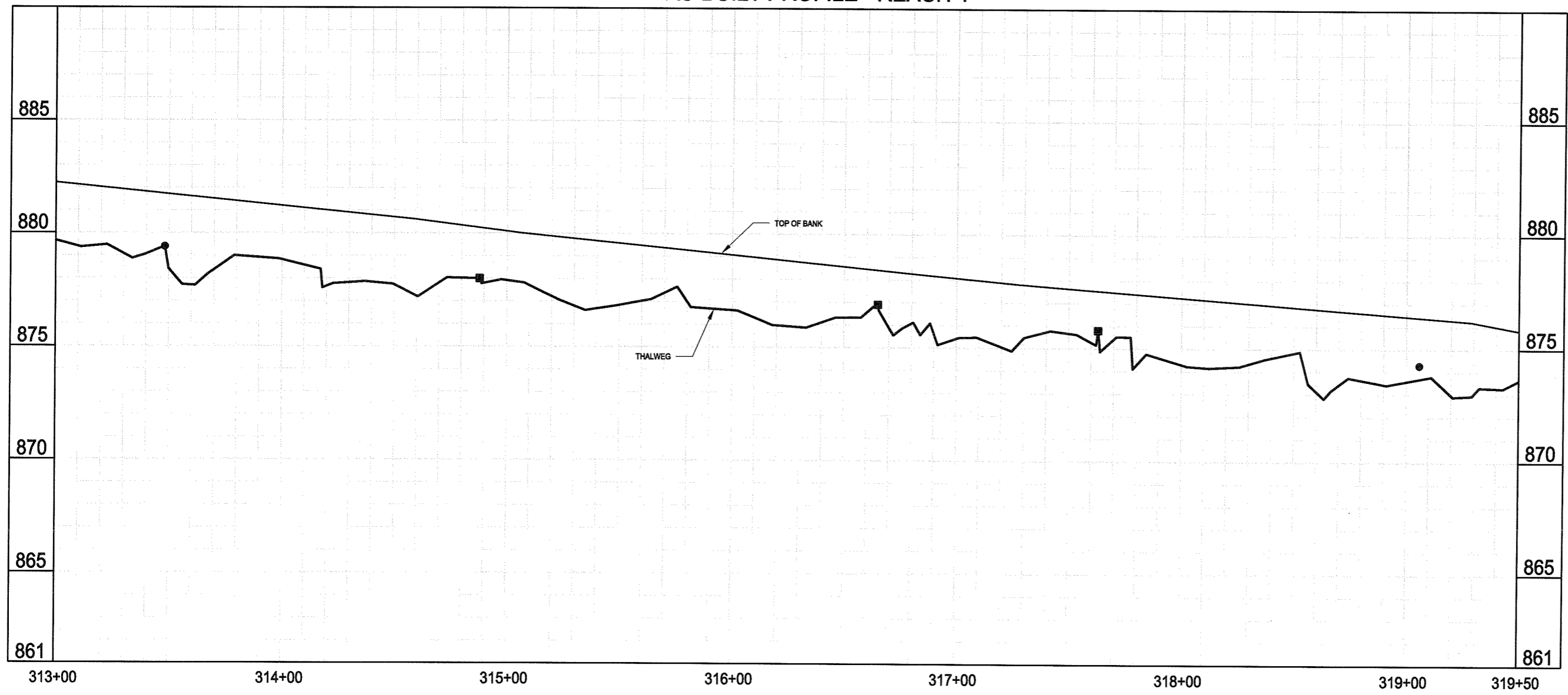
PROJECT NAME
 AS-BUILT SURVEY OF NORTH FORK
 MOUNTAIN CREEK STREAM RESTORATION
 CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PROFILE SHEET

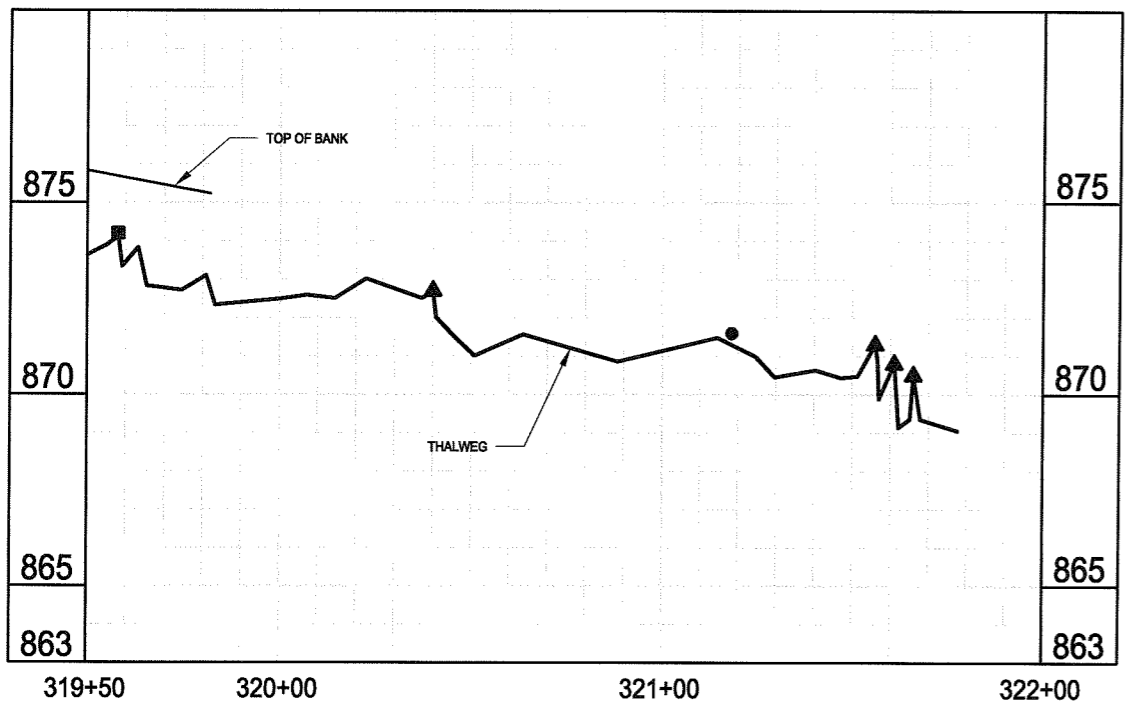
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AS-BUILT PROFILE - REACH 4



AS-BUILT PROFILE - REACH 4

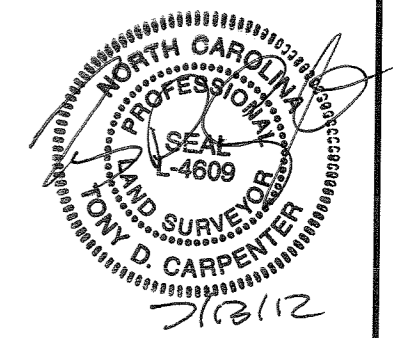


LEGEND

- ▲ BOULDER CROSS VANE
- BOULDER
- ▣ CONSTRUCTED RIFFLE
- LOG VANE WITH ROCK J-HOOK

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 AS-BUILT

PROJECT NAME		
AS-BUILT SURVEY OF NORTH FORK MOUNTAIN CREEK STREAM RESTORATION CATAWBA COUNTY, NORTH CAROLINA		
DRAWING TITLE		
AS-BUILT PROFILE SHEET		
CADD PLOT:	SCALE: N/A	SHEET NO.
VOID PLOT:	DRAWN BY: R.R.P.	5.18
RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	

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UT 1 REACH 1
STA: 100+00
N: 692240.92
E: 1379849.31

BEGIN
UT 2 REACH 3
STA: 200+00
N: 691901.85
E: 1379502.72

END UT 1 REACH 1
BEGIN UT 1 REACH 2
STA: 107+19.70
N: 691656.95
E: 1380208.05

END
UT 2 REACH 3
STA: 206+69.71
N: 691769.92
E: 1380118.66

END NORTH FORK MOUNTAIN
CREEK REACH 4
STA: 321+95.4
N: 690488.28
E: 1381399.59

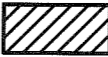

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UT 1 REACH 2
STA: 124+17.8
N: 690509.11
E: 1381359.18

BEGIN
NORTH FORK MOUNTAIN CREEK
REACH 4
STA: 300+00
N: 689349.66
E: 1380047.10

END
NORTH FORK MOUNTAIN CREEK
REACH 4
STA: 321+95.4
N: 690488.28
E: 1381399.59

END
UT 1 REACH 2
STA: 124+17.8
N: 690509.11
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LEGEND

-  UPLAND ZONE
-  FLOODPLAIN ZONE

NOTE:

BOUNDARIES FOR PLANTING ZONES
PROVIDED BY DESIGNER.

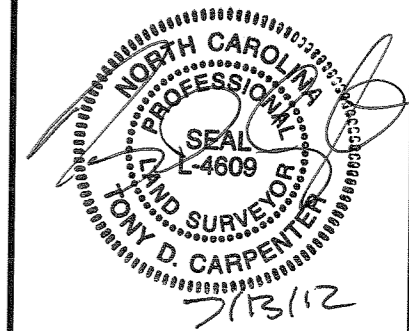


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PROJECT NAME
AS-BUILT SURVEY OF NORTH FORK
MOUNTAIN CREEK STREAM RESTORATION
CATAWBA COUNTY, NORTH CAROLINA

DRAWING TITLE
AS-BUILT PLANTING PLAN

CADD PLOT:	SCALE: N/A	SHEET NO.
VOID PLOT:	DRAWN BY: R.R.P.	6.19
RELEASED TO CONSTRUCTION	DATE: 07-13-12	
	REVIEWED BY: T.T.	



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