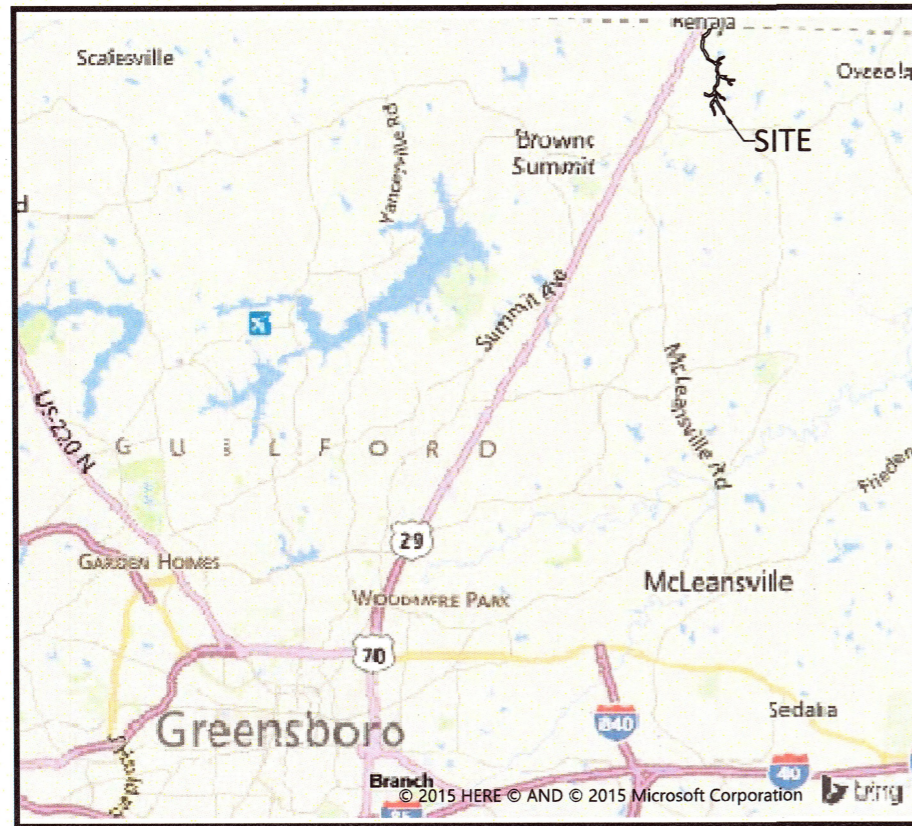


# Candy Creek Mitigation Site-Record Drawings

Guilford County, North Carolina  
Cape Fear River Basin - HUC 03030002

for  
NC DEQ

Division of Mitigation Services



Vicinity Map  
Not to Scale



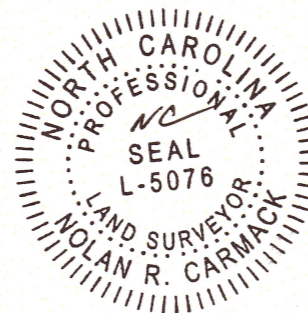
RECORD DRAWINGS  
ISSUED MAY 3, 2017

CERTIFICATE OF SURVEY  
AND  
ACCURACY

I, NOLAN R. CARMACK, CERTIFY THAT THE GROUND TOPOGRAPHIC SURVEY PORTION OF THIS PROJECT WAS COMPLETED UNDER MY DIRECT SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY DIRECT SUPERVISION, THAT THE RECORD DRAWINGS WERE PREPARED BY WILDLANDS ENGINEERING, INC FROM DIGITAL FILES PROVIDED BY KEE MAPPING AND SURVEYING, PA, AS SHOWN ON AN AS-BUILT SURVEY FOR "THE STATE OF NC, DIVISION OF MITIGATION SERVICES" DATED MAY 2, 2017; THAT THIS SURVEY WAS PERFORMED AT THE 95% CONFIDENCE LEVEL TO MEET THE FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC SURVEY TO THE ACCURACY OF CLASS A HORIZONTAL AND CLASS C VERTICAL WHERE APPLICABLE; THAT THE ORIGINAL DATA WAS OBTAINED BETWEEN THE DATES OF 12/12/16 - 3/29/17; THAT THE CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD AND ALL COORDINATES ARE BASED ON NAD 83 (NSRS 2011) AND ALL ELEVATIONS ARE BASE ON NAVD 88; THAT THIS MAP MEETS THE SPECIFICATIONS FOR TOPOGRAPHIC SURVEYS AS STATED IN TITLE 21, CHAPTER 56, SECTION .1606; THAT THIS MAP WAS NOT PREPARED IN ACCORDANCE WITH G.S. 47-30, AS AMENDED AND DOES NOT REPRESENT AN OFFICIAL BOUNDARY SURVEY.

WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS THE 3rd DAY OF May, 2017

OFFICIAL SEAL



*[Signature]*  
NOLAN R. CARMACK, PLS L-5076

Sheet Index

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UT1D	2.3.1 - 2.3.2
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Planting Plan	3.0

Project Directory

**Engineering:**  
Wildlands Engineering, Inc  
License No. F-0831  
1430 South Mint Street  
Suite 104  
Charlotte, NC 28203  
Aaron Earley, PE  
704-332-7754

**Owner:**  
NCDEQ  
Division of Mitigation Services  
217 West Jones St., Ste 3000A  
Raleigh, NC 27603  
Jeff Schaffer  
919-707-8308

DMS #: 96315

**Surveying:**  
Kee Mapping and Surveying, PA  
111 Central Avenue  
Asheville, NC 28801  
Brad Kee, PLS  
828-645-8275



Candy Creek Mitigation Site-Record Drawings  
Guilford County, North Carolina

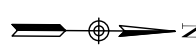
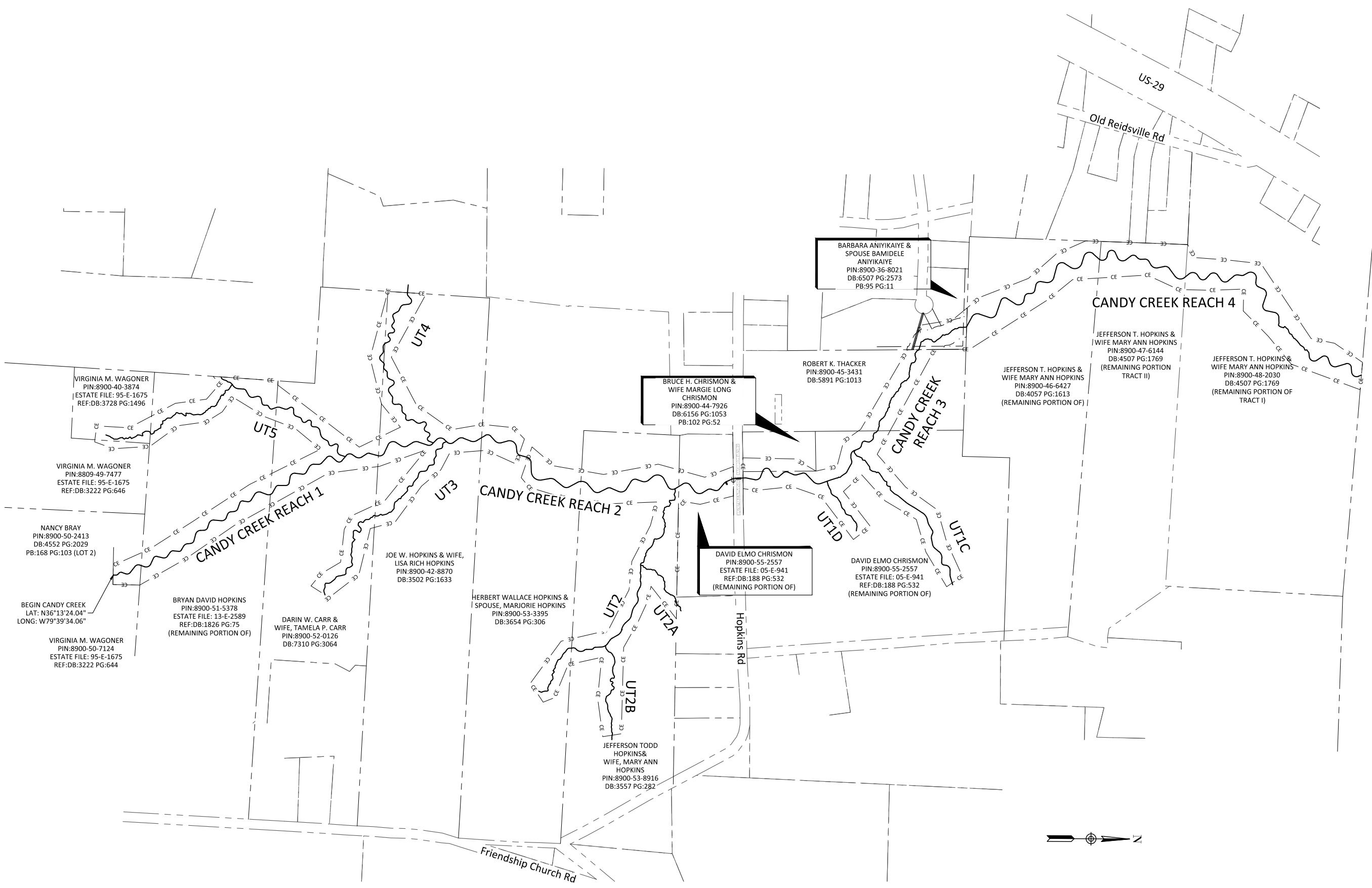
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Revisions:

Date: May 3, 2017  
Job Number: 005-02145  
Project Engineer: ASE  
Drawn By: SID  
Checked By: JL

1.0

Sheet



**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**

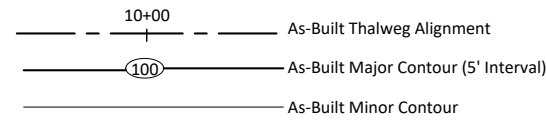
Project Overview

Revisions:

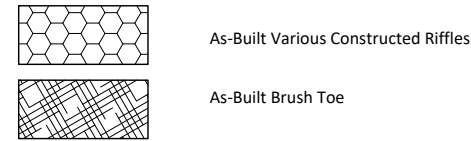

Date:	May 3, 2017
Job Number:	005-02145
Project Engineer:	ASE
Drawn By:	SJD
Checked By:	JL

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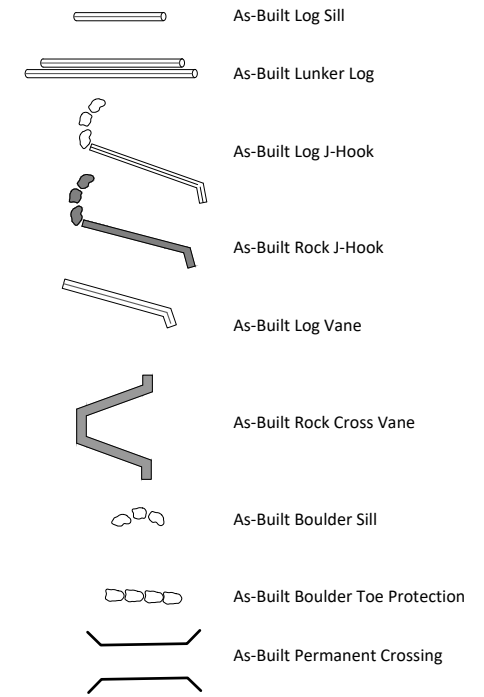
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### As-Built Structures

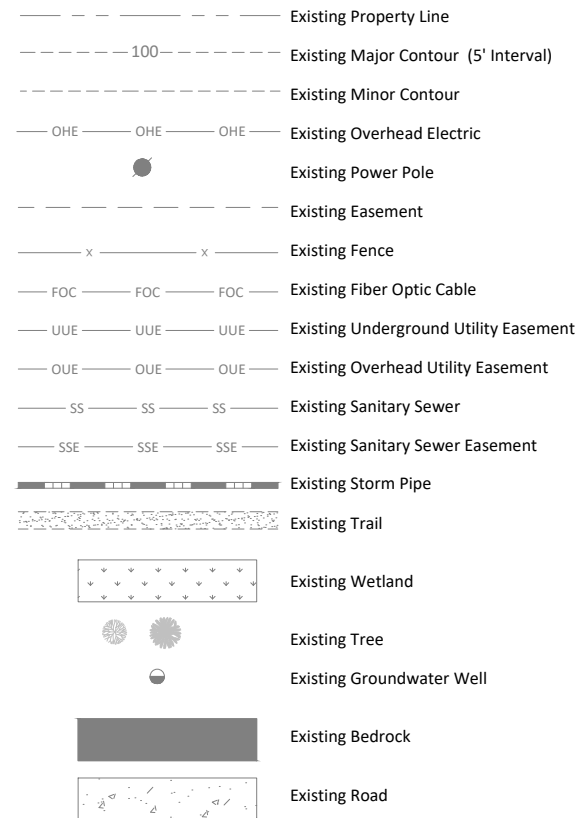


### As-Built Structures

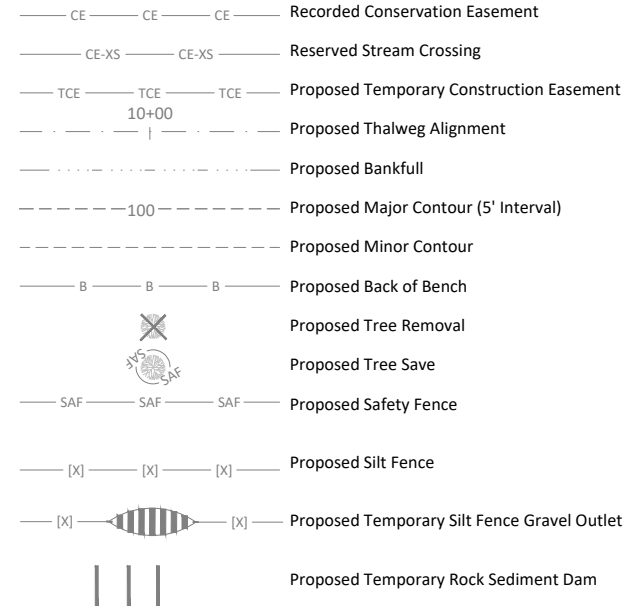


AS-BUILT DRAWINGS:  
 Deviations from the design will be shown in red.

### Existing Features



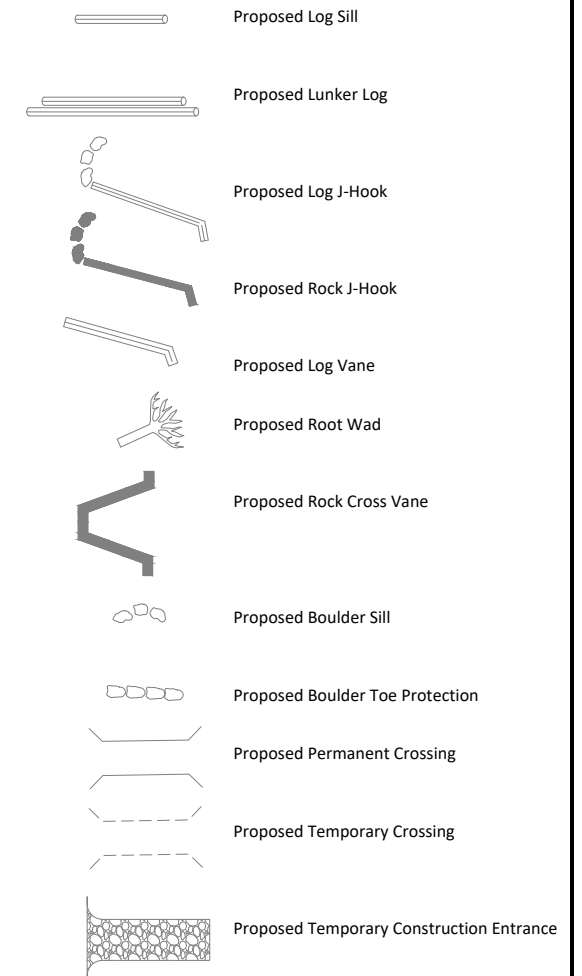
### Proposed Features



### Proposed Structures



### Proposed Structures



**PROJECT NOTES:**

Topographic survey was completed by Kee Mapping and Surveying in March 2015. Parcel boundary survey completed by Kee Mapping and Surveying in 2015. **As-Built survey completed March 2017.**

Riffle selection will be varied based on available materials at the Engineers' discretion. Field coordination will be required.

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 General Notes and Symbols

**WILDLANDS**  
 ENGINEERING  
 1450 N. WILSON ROAD  
 CHARLOTTE, NC 28203  
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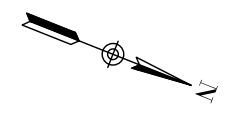
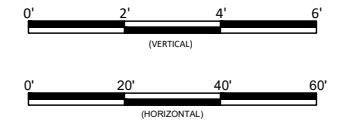
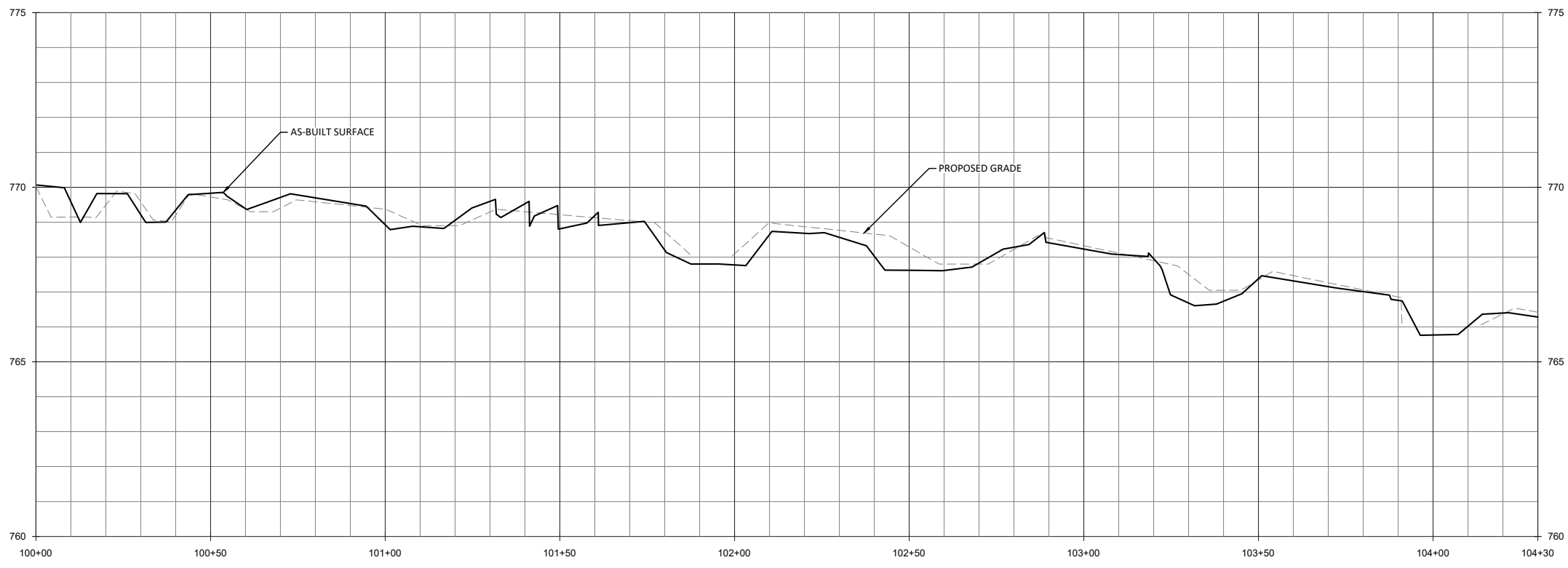
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Date: May 3, 2017  
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1.2

Sheet

May 3, 2017



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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

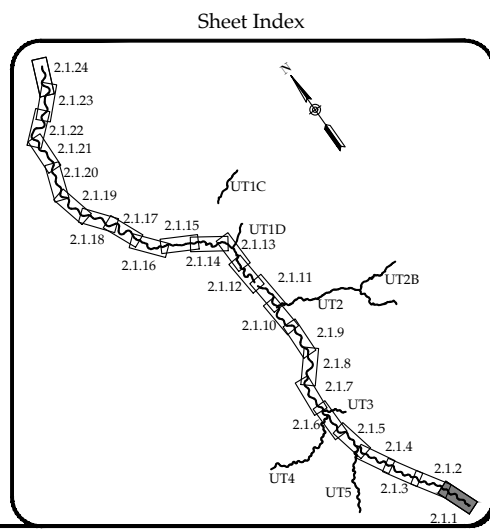
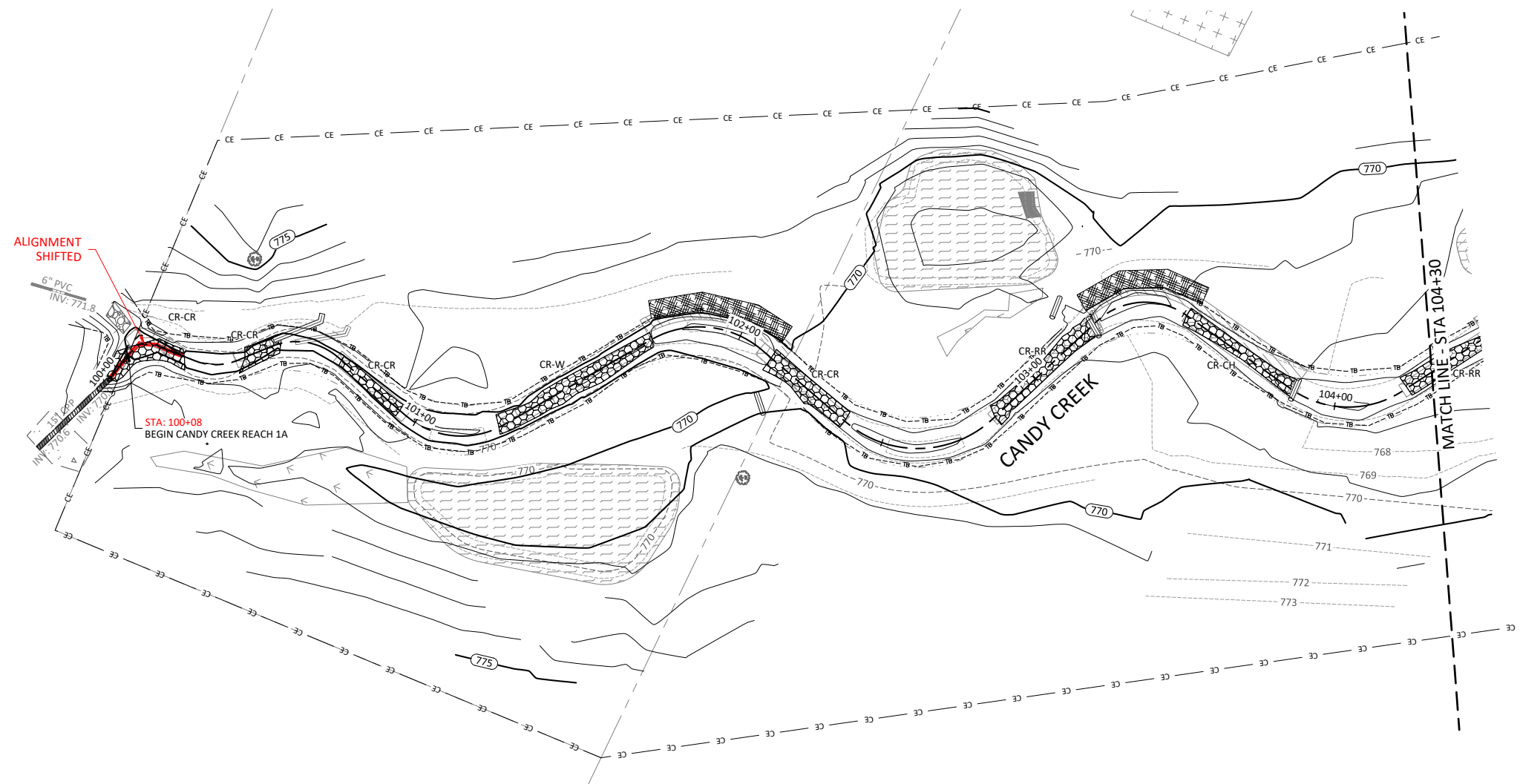
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 Stream Plan and Profile

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 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

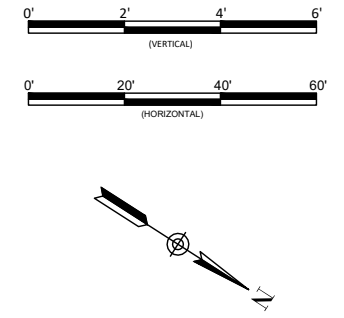
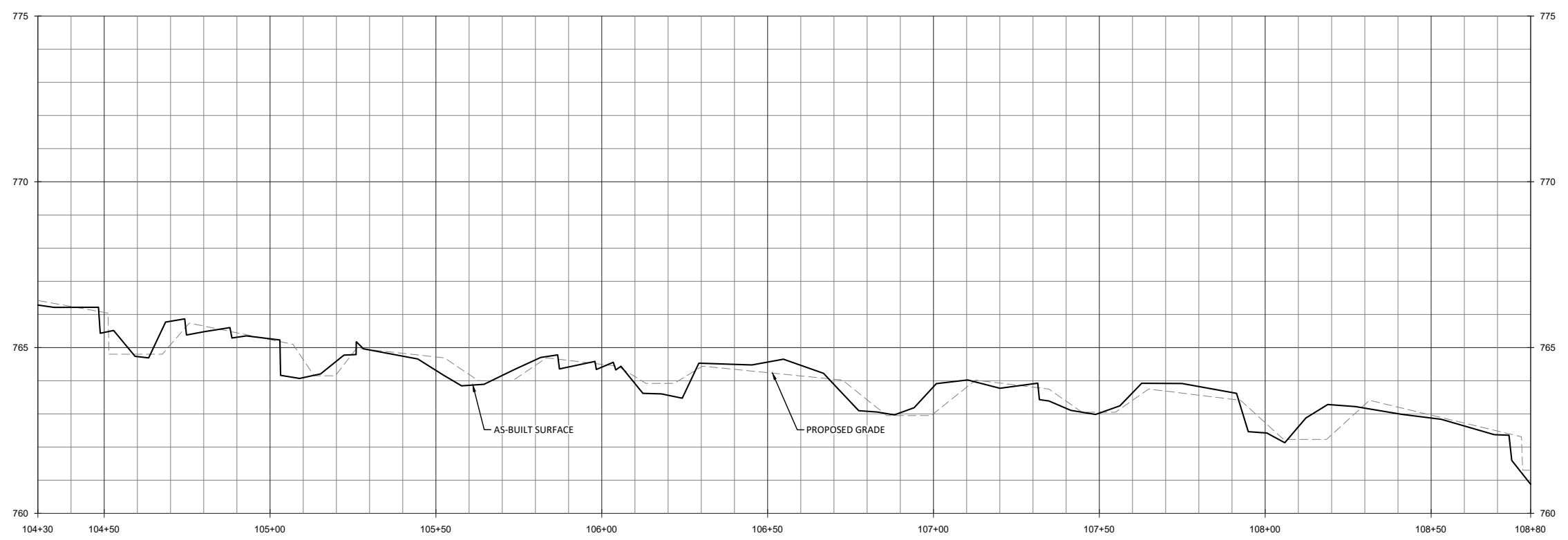
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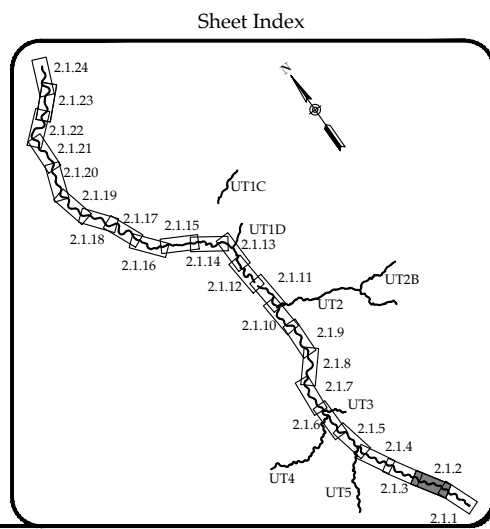
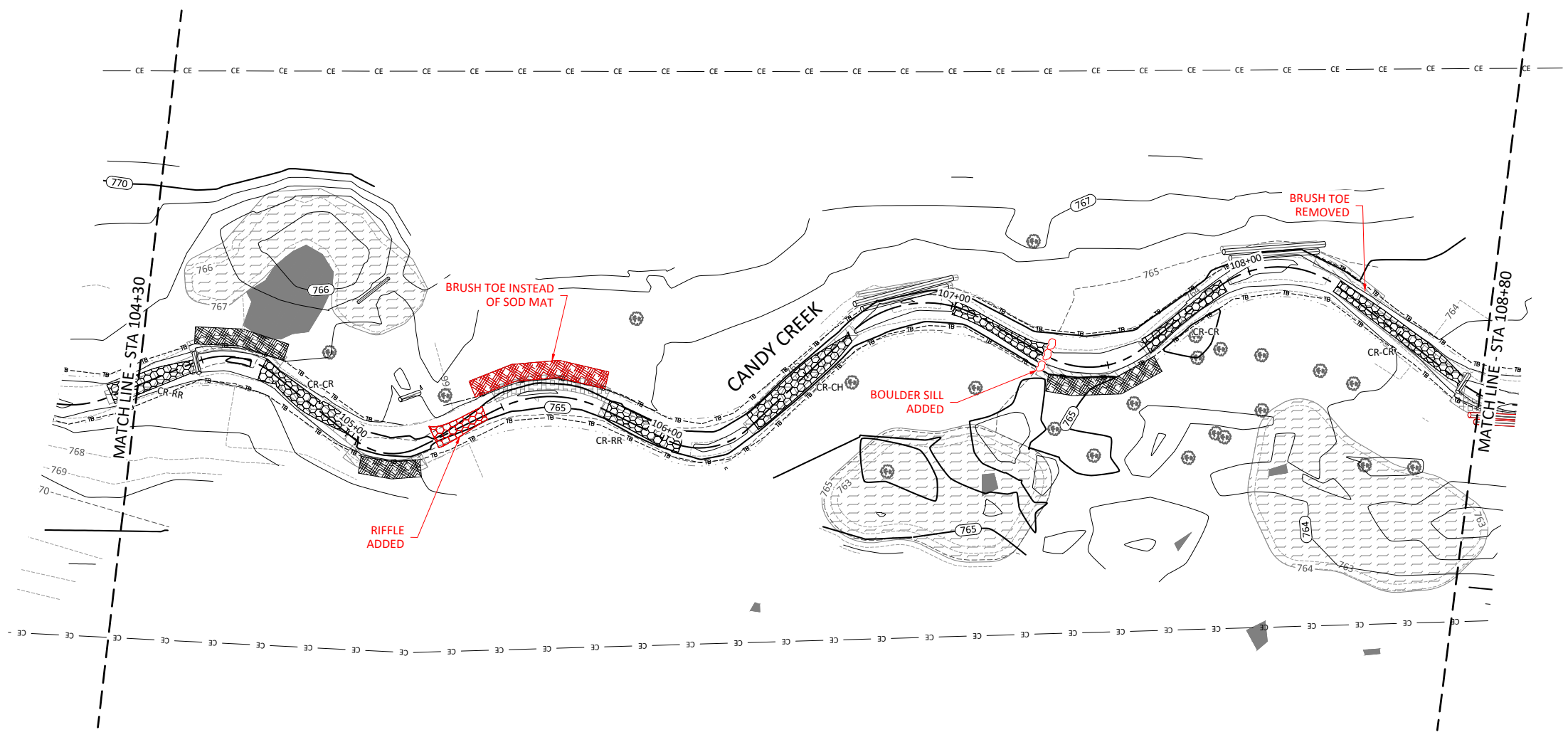


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Candy Creek Mitigation Site-Record Drawings  
Guilford County, North Carolina  
Candy Creek Reach 1A  
Stream Plan and Profile

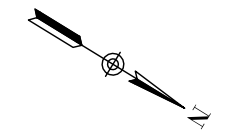
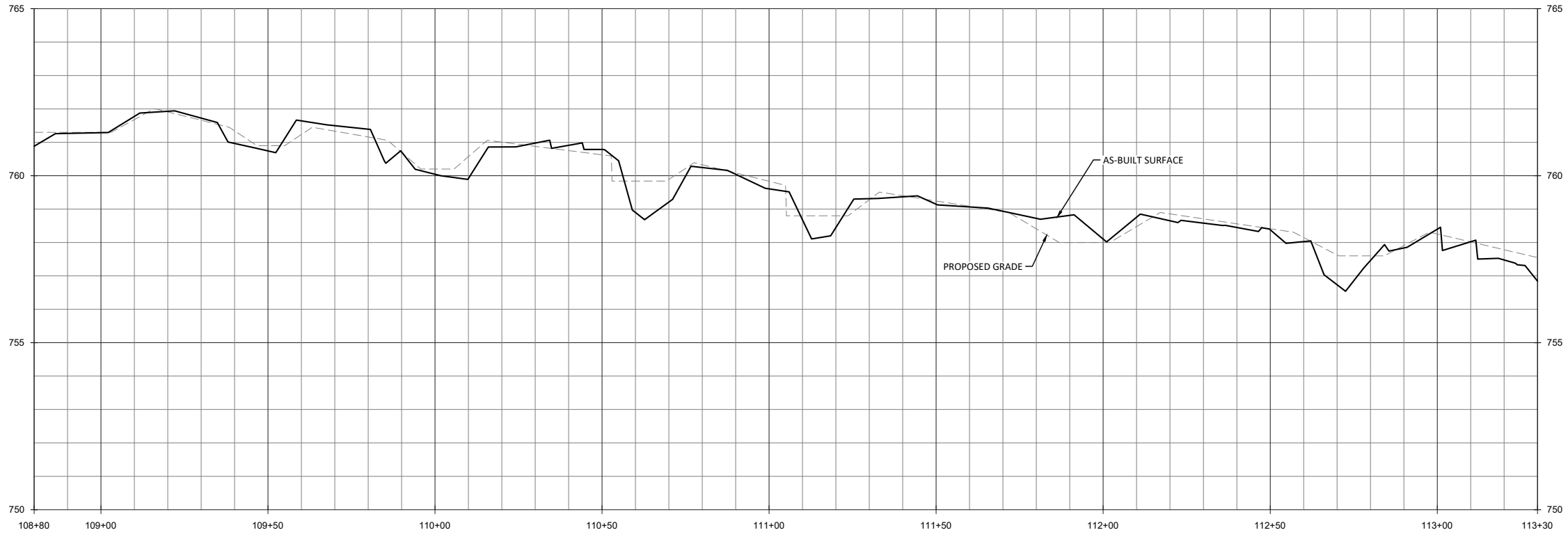
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Project Engineer:	ASE
Drawn By:	SID
Checked By:	JL

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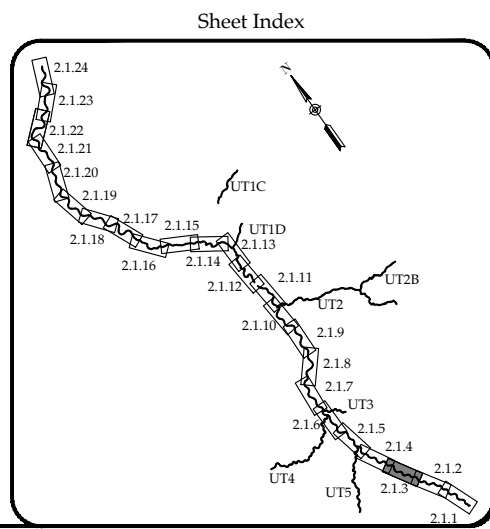
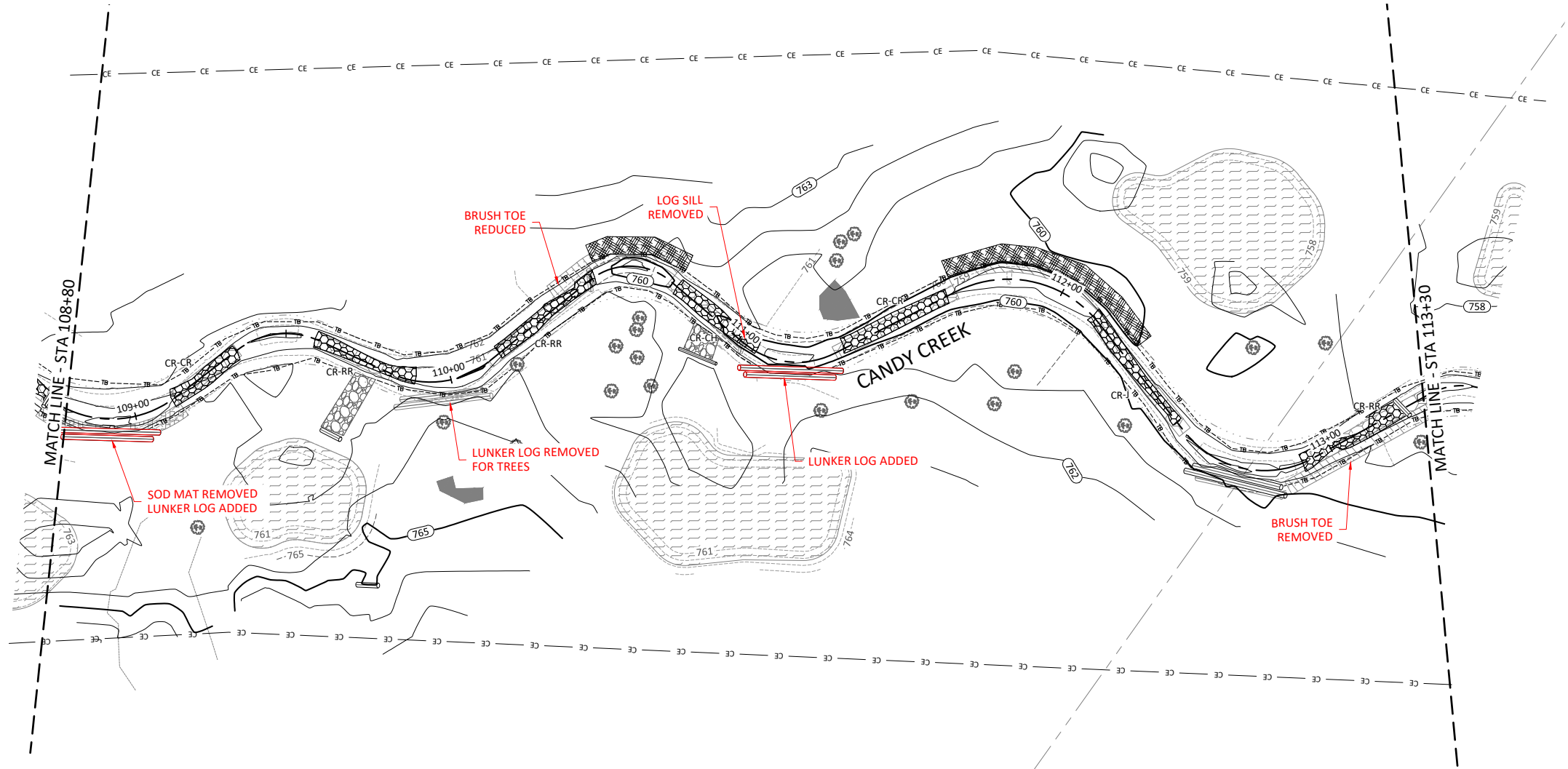
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 1A  
 Stream Plan and Profile

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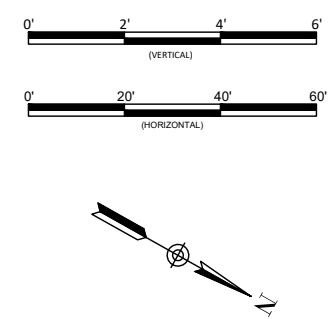
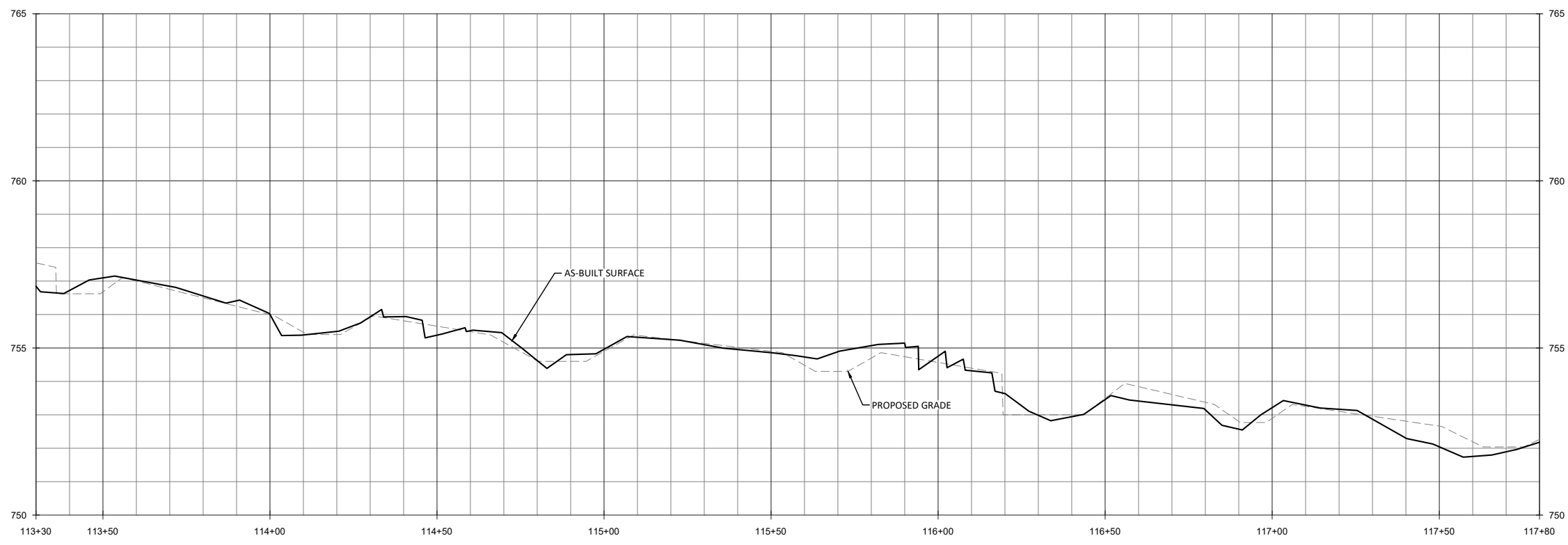
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Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
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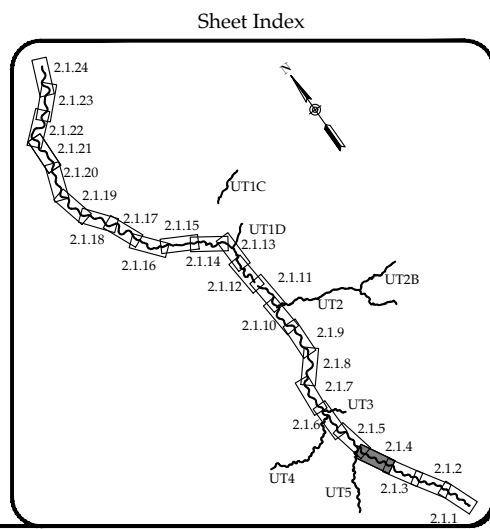
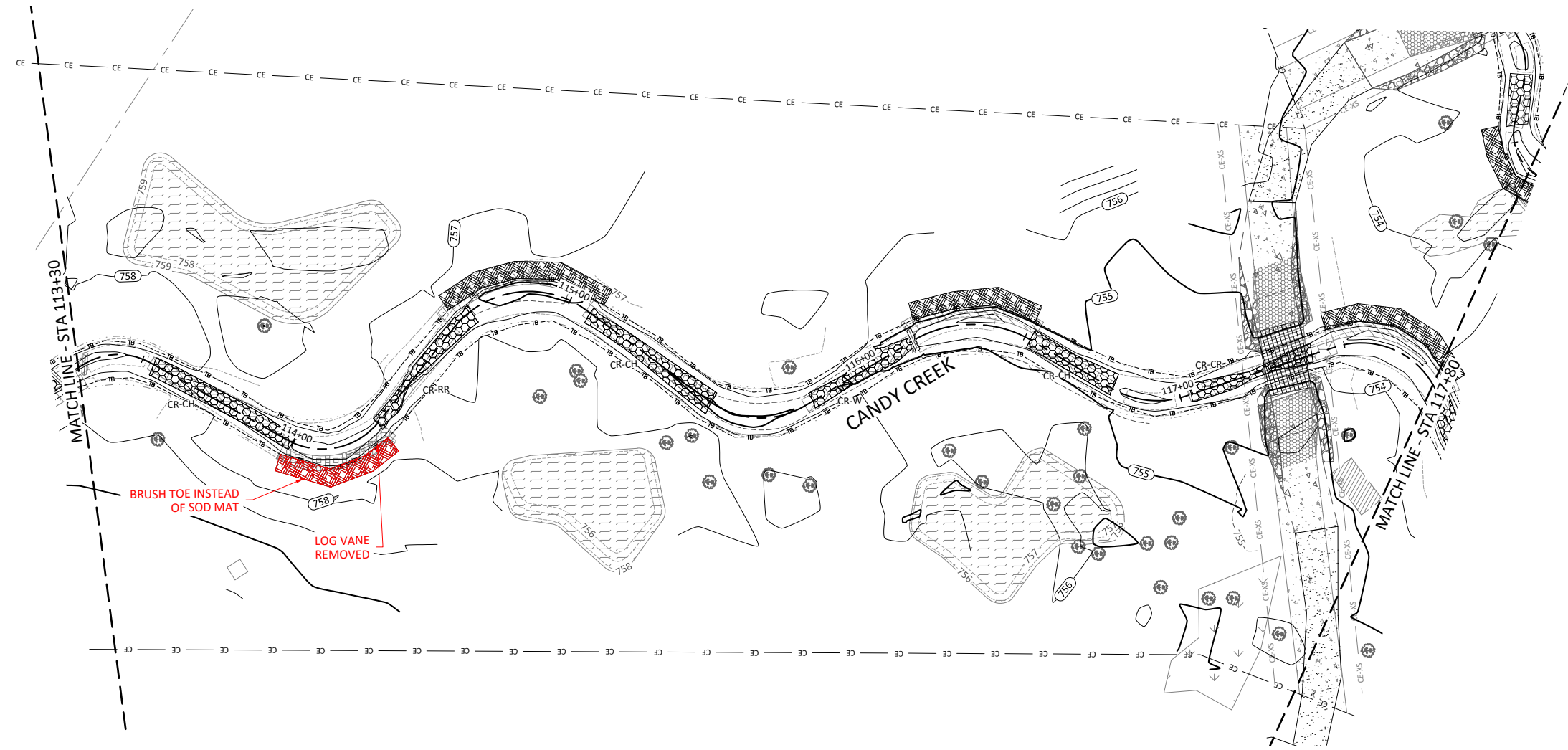
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 1A  
 Stream Plan and Profile

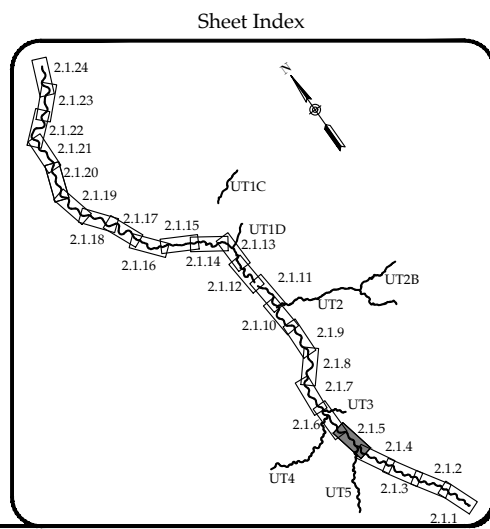
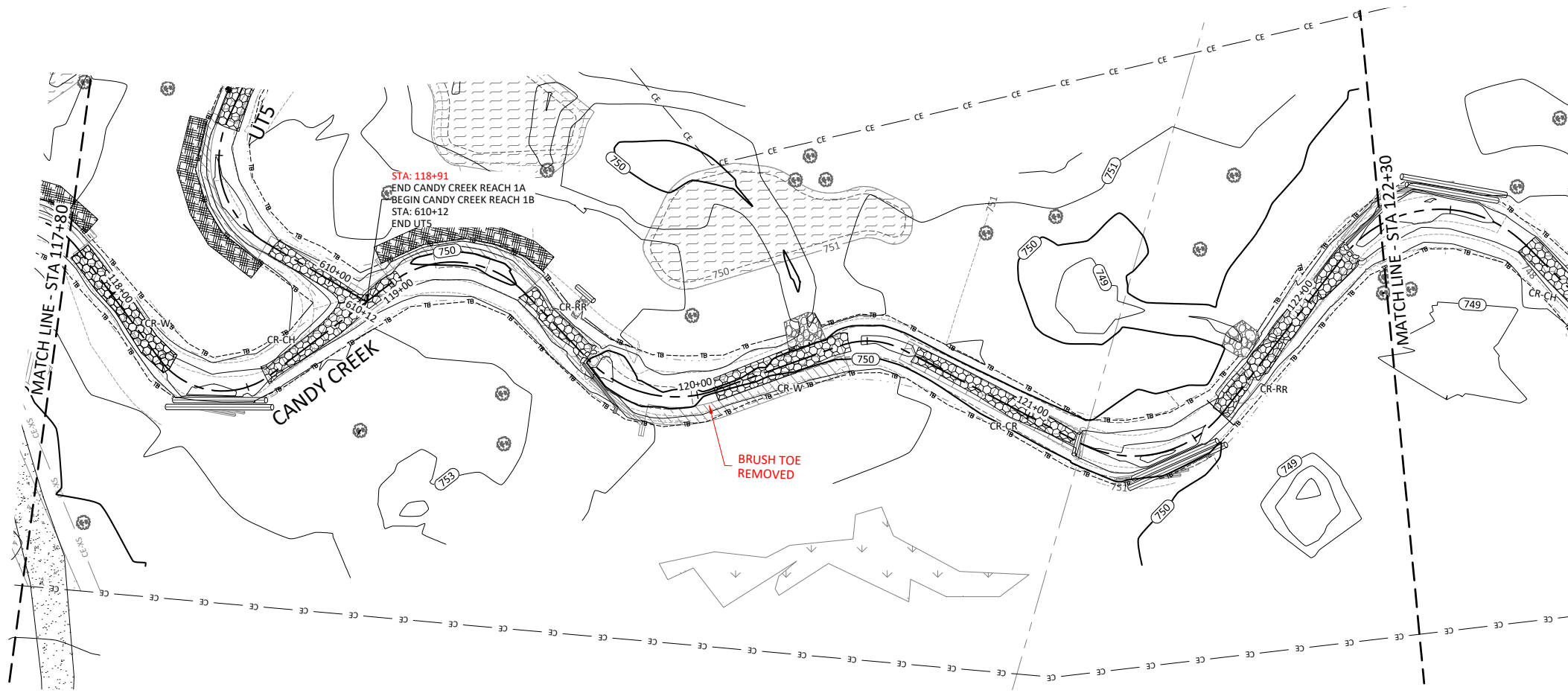
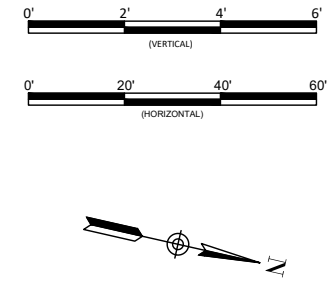
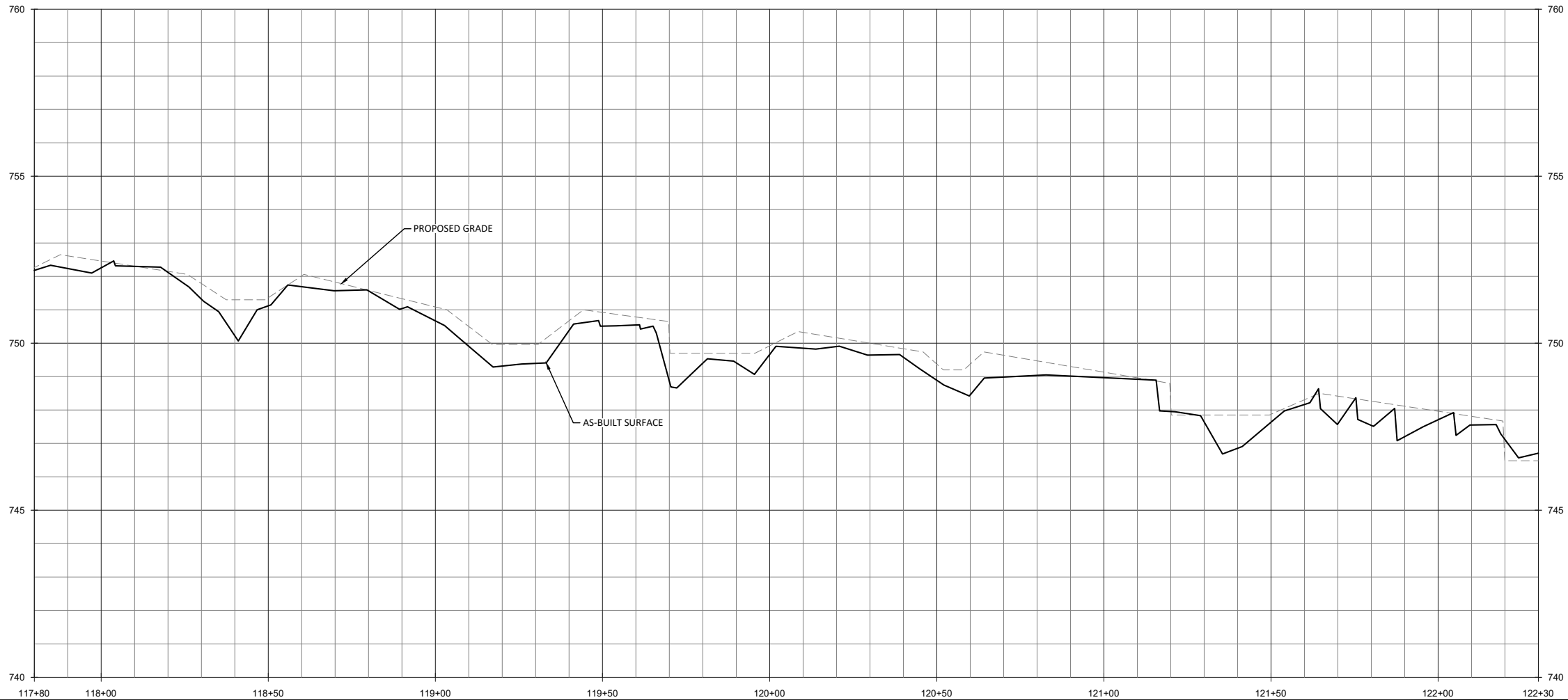


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Date: May 3, 2017  
 Job Number: 005-02145  
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**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**  
 Candy Creek Reach 1A & 1B  
 Stream Plan and Profile

Revisions:

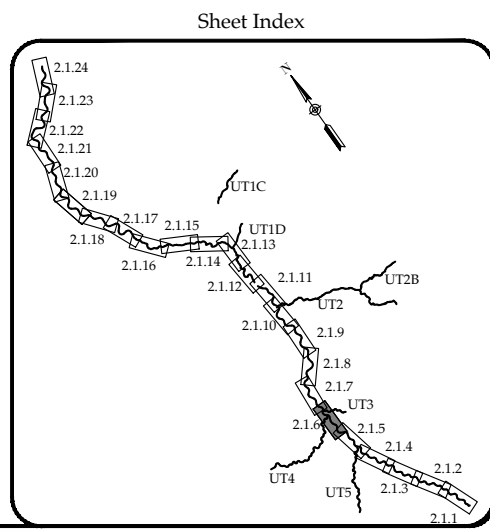
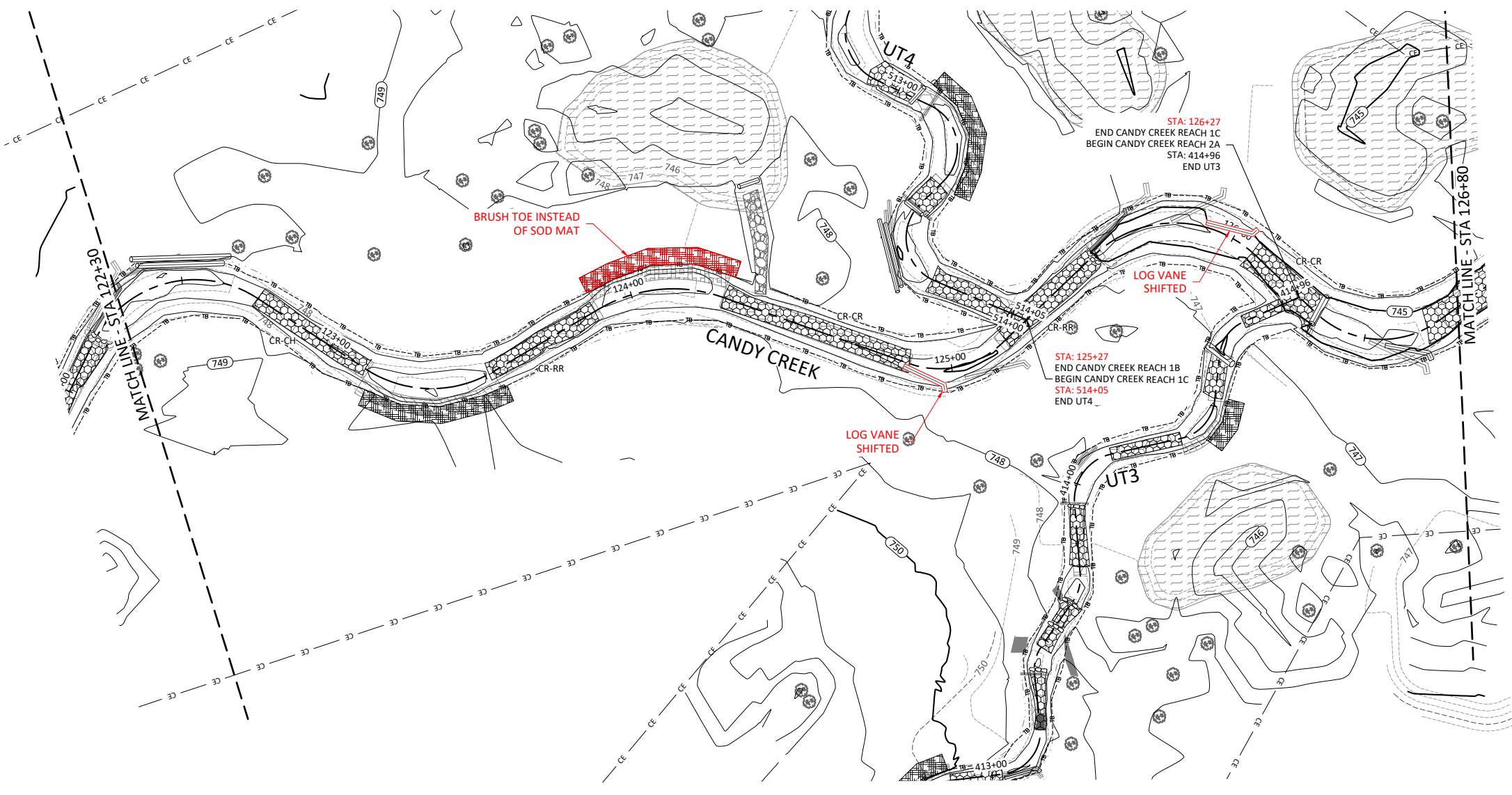
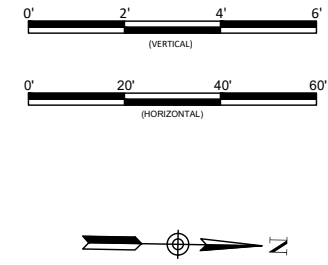
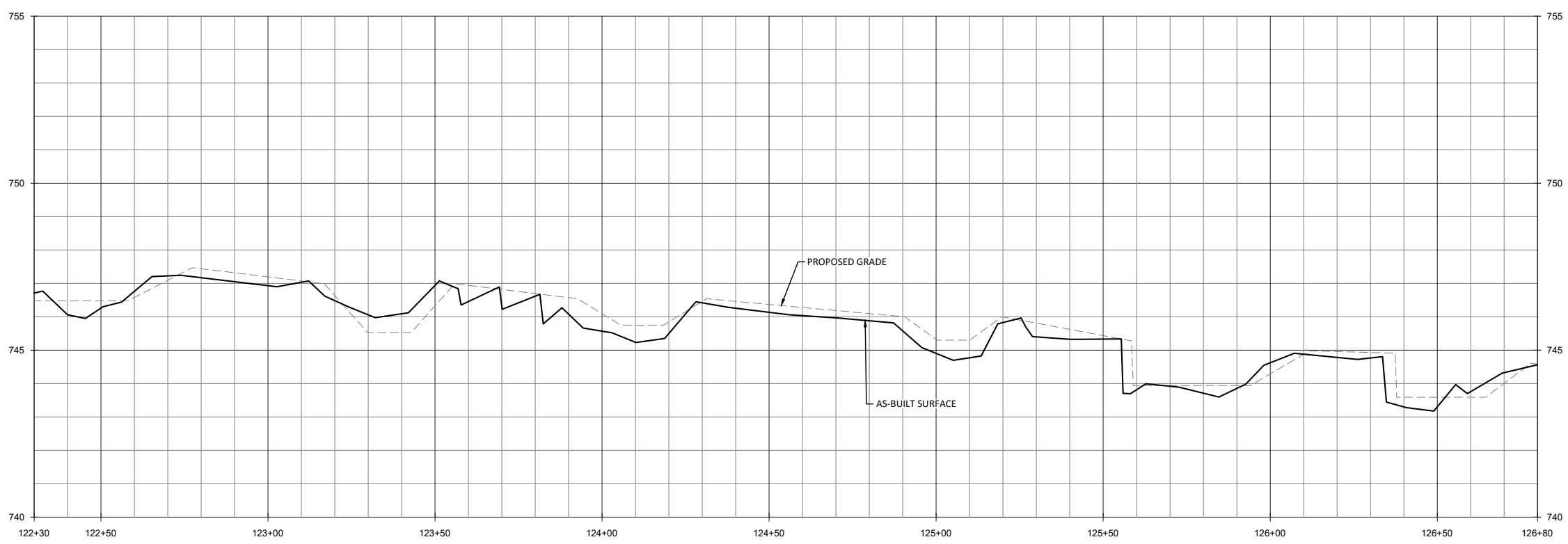

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 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.5**

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 May 3, 2017



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 Firm License No. F-0831

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 1B 1C & 2A  
 Stream Plan and Profile

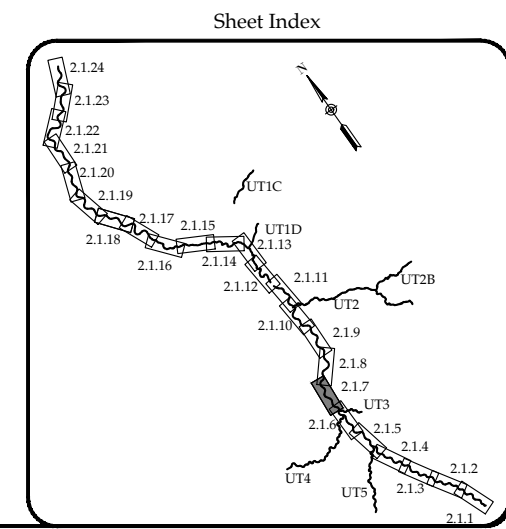
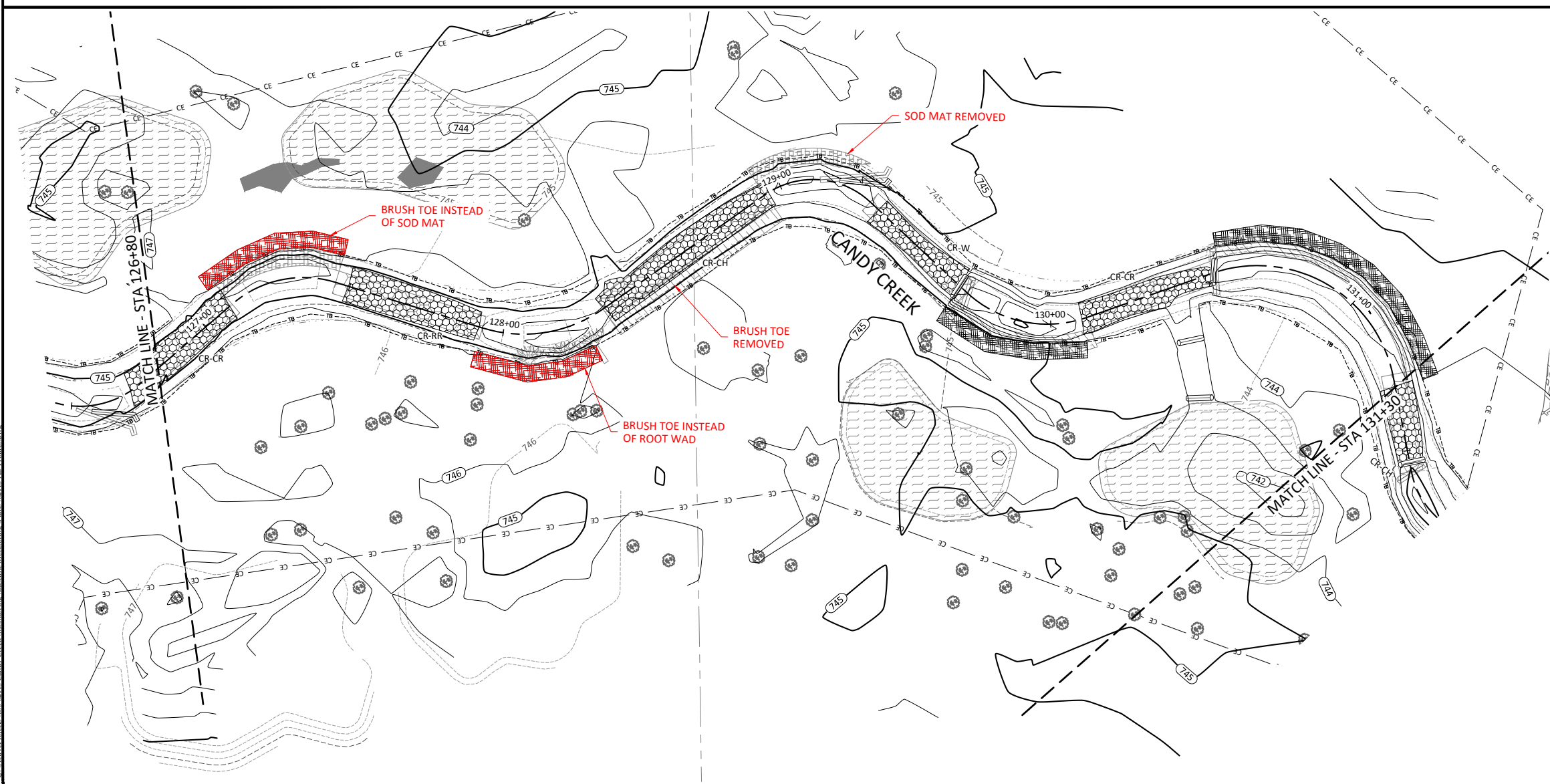
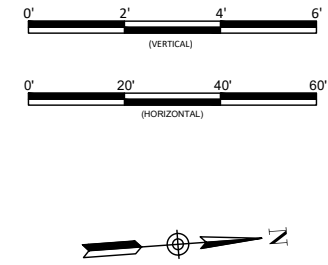
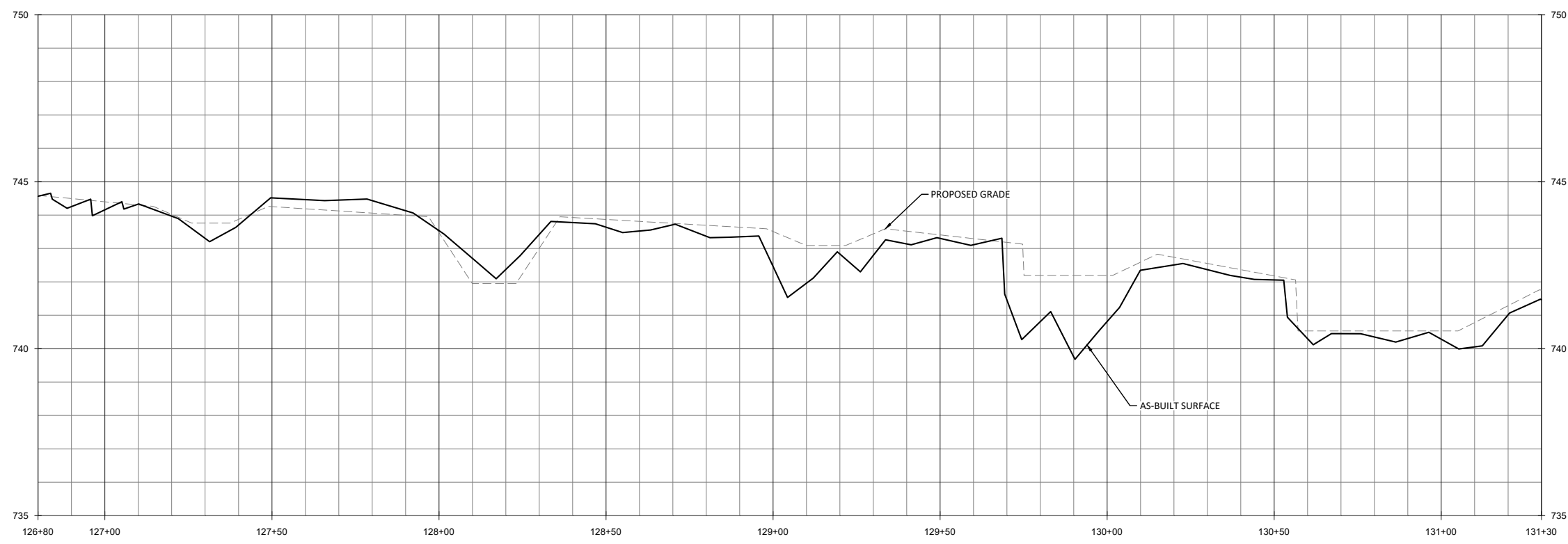
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 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

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May 3, 2017  
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Revisions:

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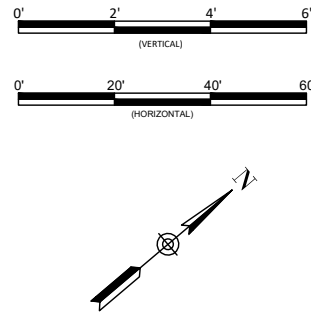
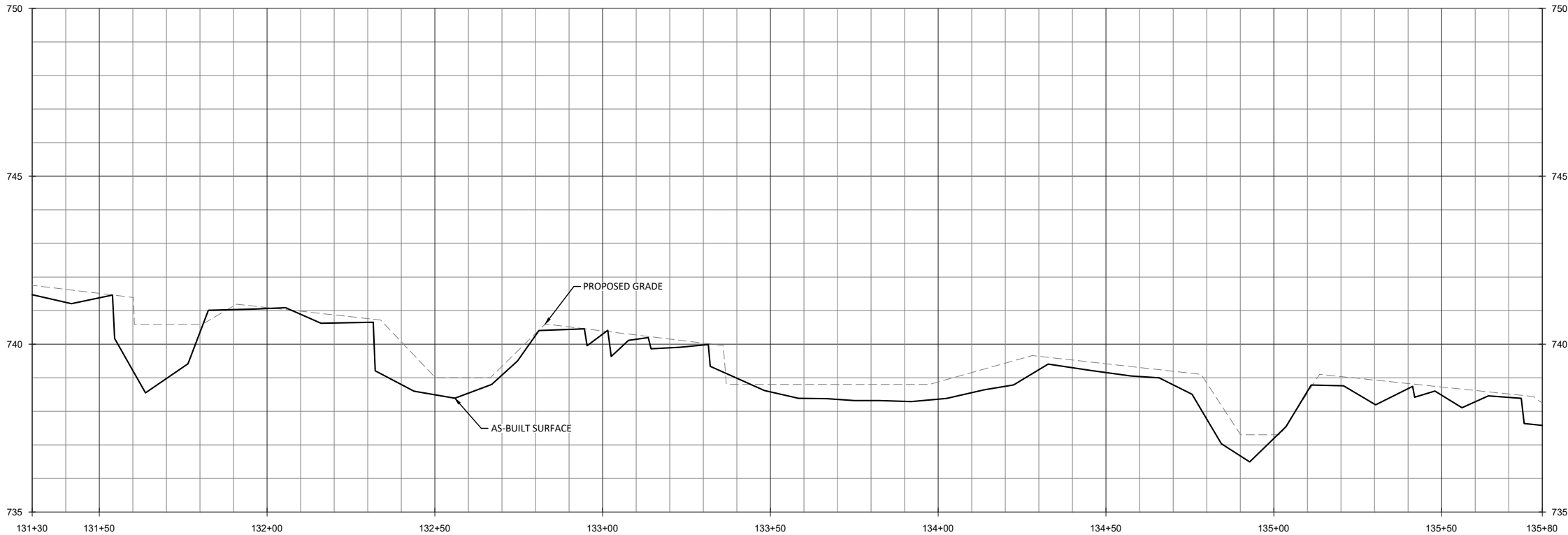
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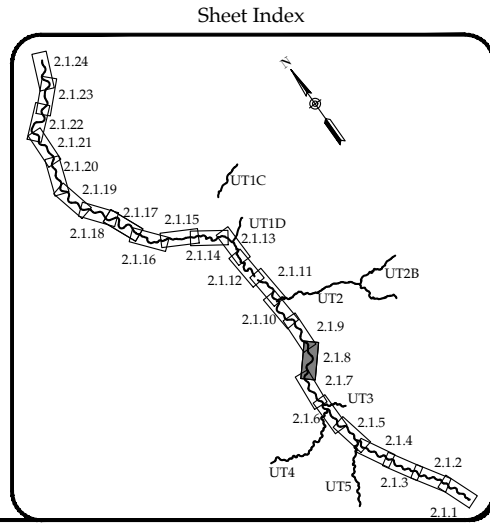
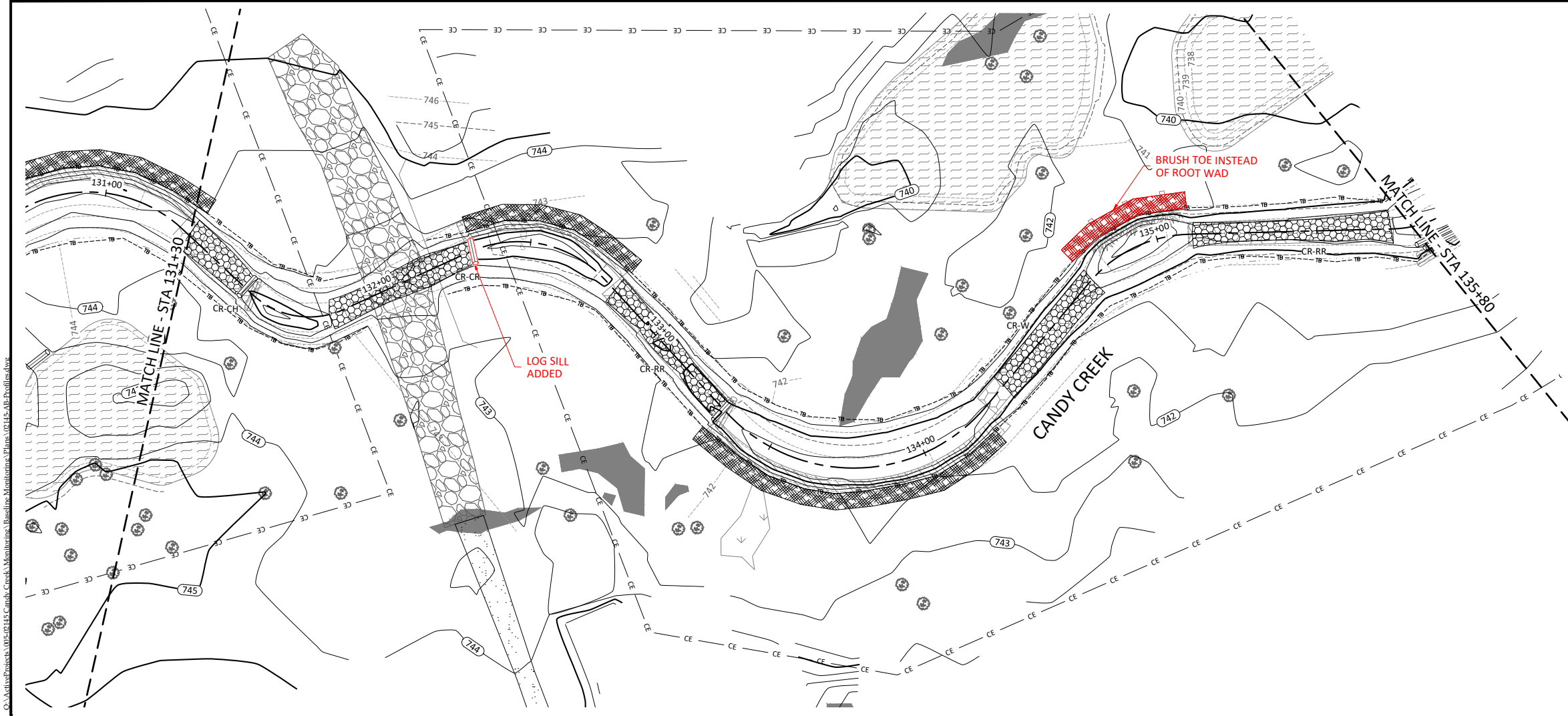
**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**  
 Candy Creek Reach 2A  
 Stream Plan and Profile

**WILDLANDS**  
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 145 W. WILSON ST.  
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May 3, 2017



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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

Candy Creek Reach 2A  
 Stream Plan and Profile

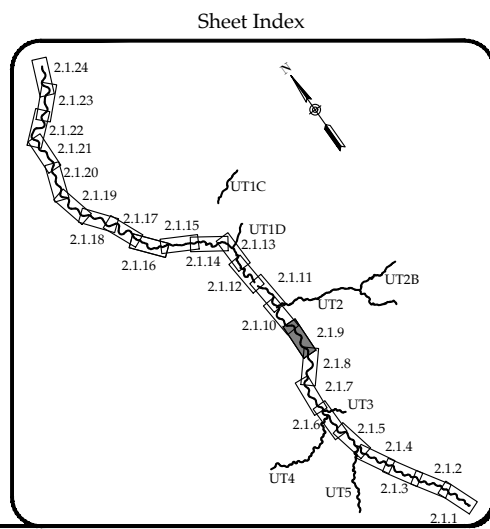
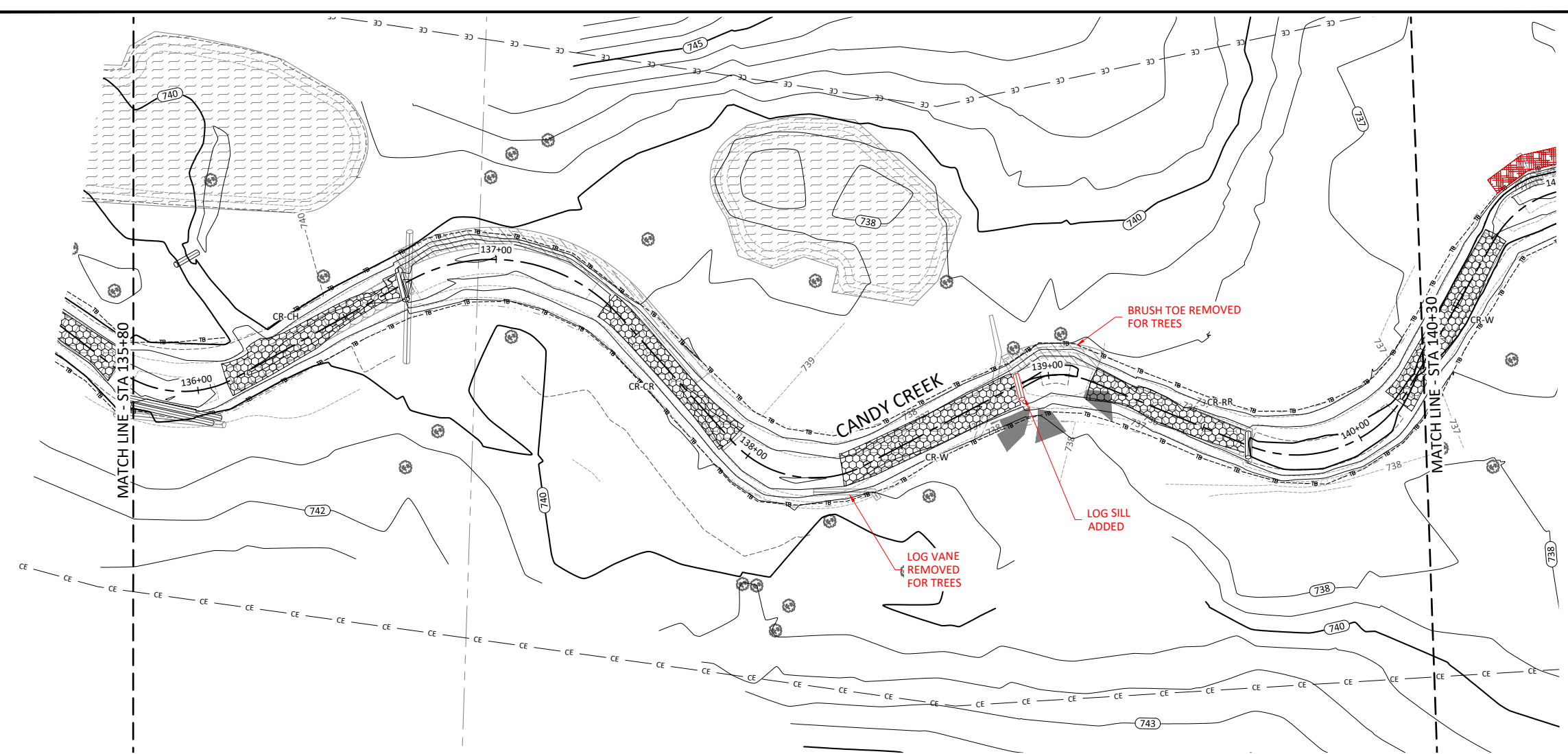
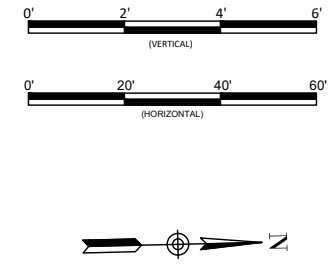
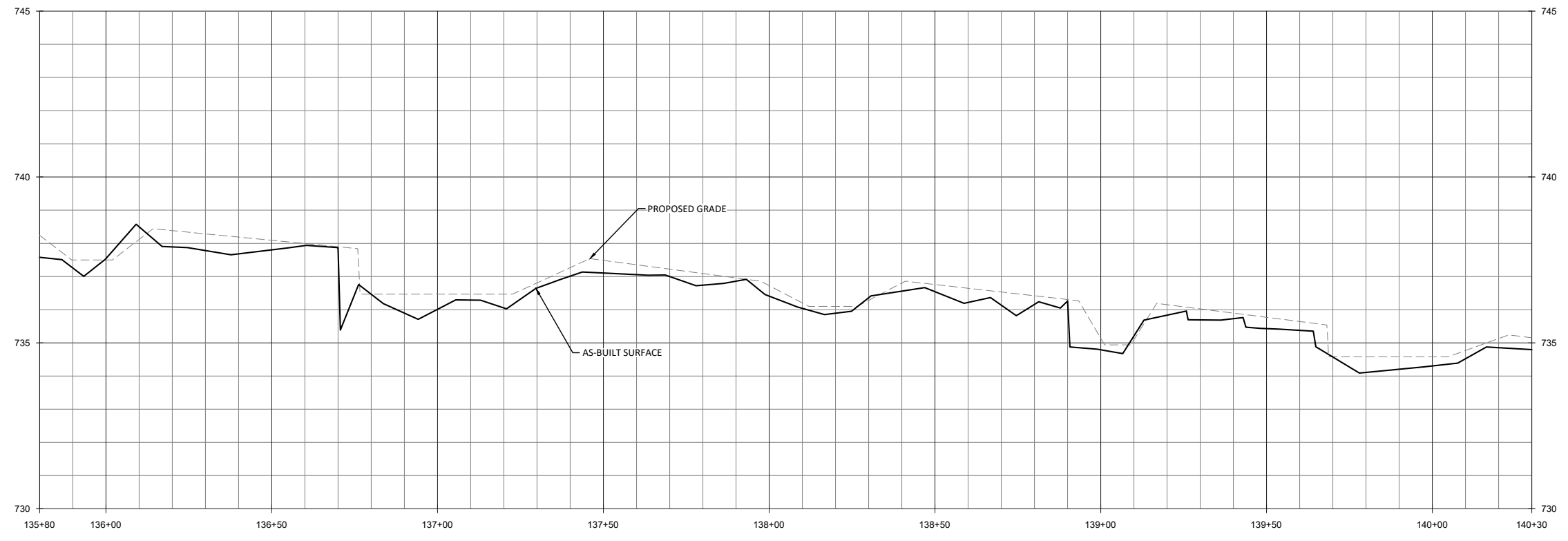
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 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.8**

Sheet

May 3, 2017  
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 Fax: 704.332.3306  
 Firm License No. F-0831

**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**  
 Candy Creek Reach 2A  
 Stream Plan and Profile

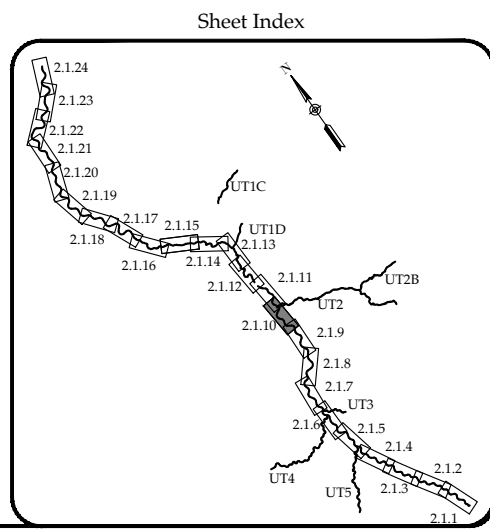
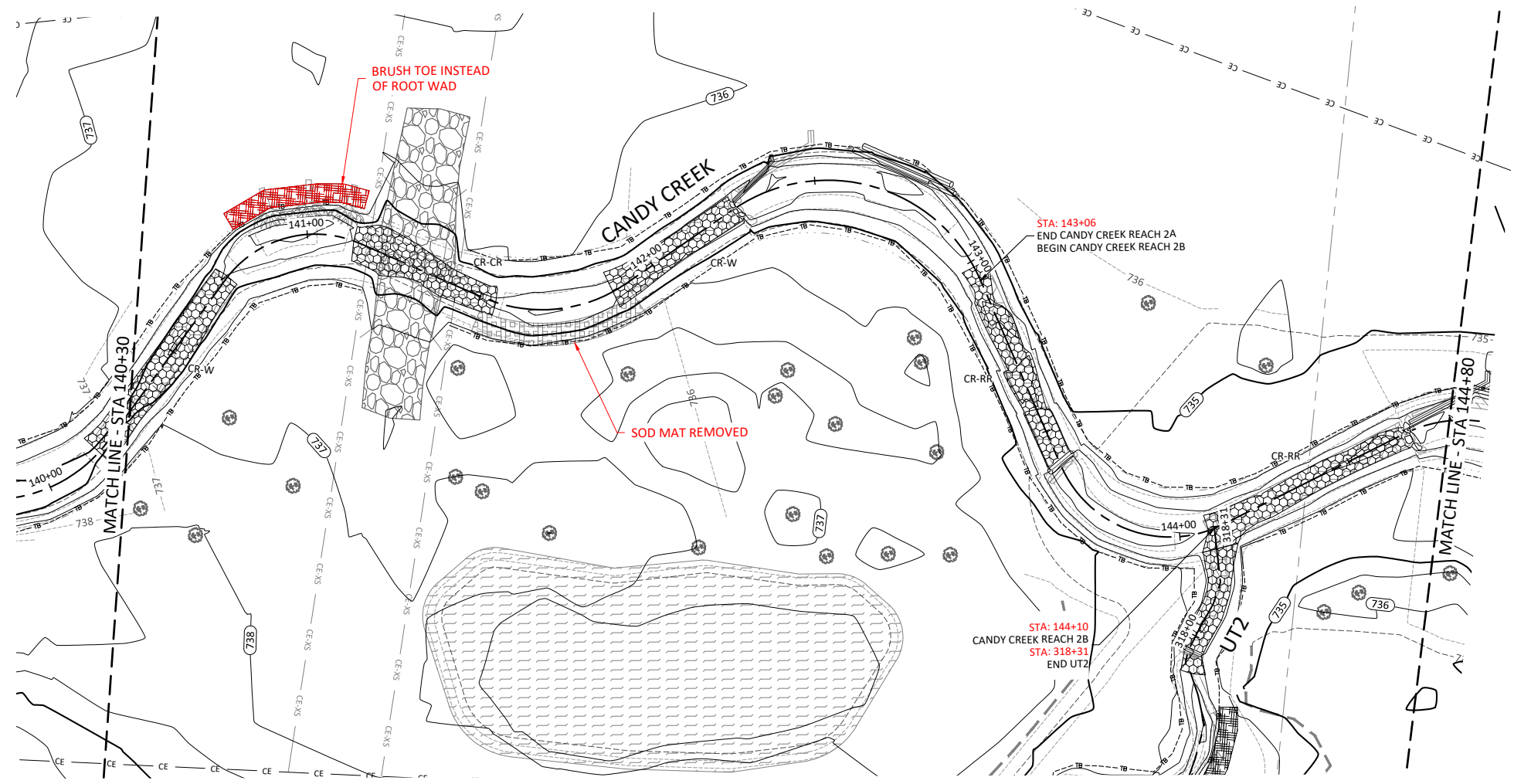
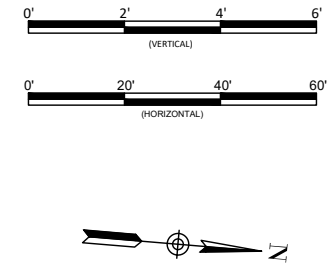
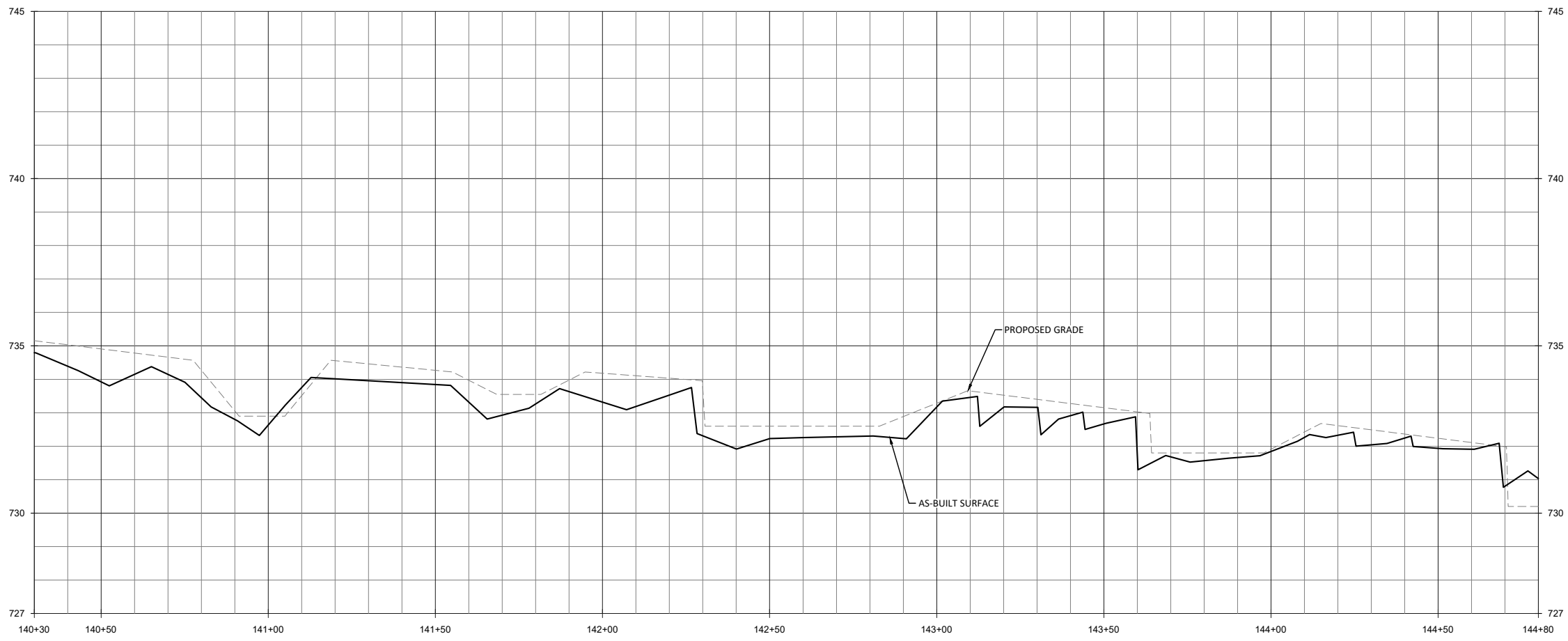
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 Checked By: JL

**2.1.9**

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May 3, 2017  
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Revisions:

Date	Job Number	Project Engineer	Drawn By	Checked By
May 3, 2017	005-02145	ASE	SJD	JL

**2.1.10**

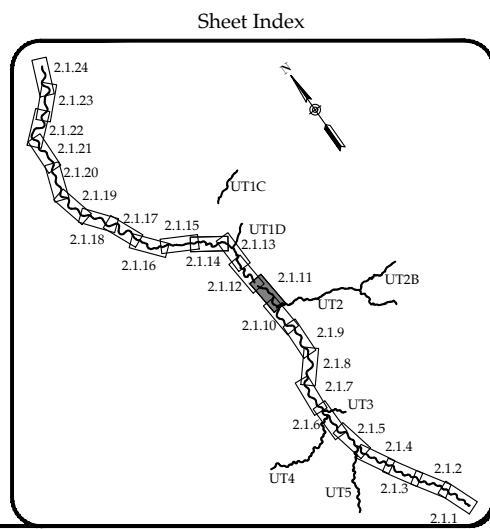
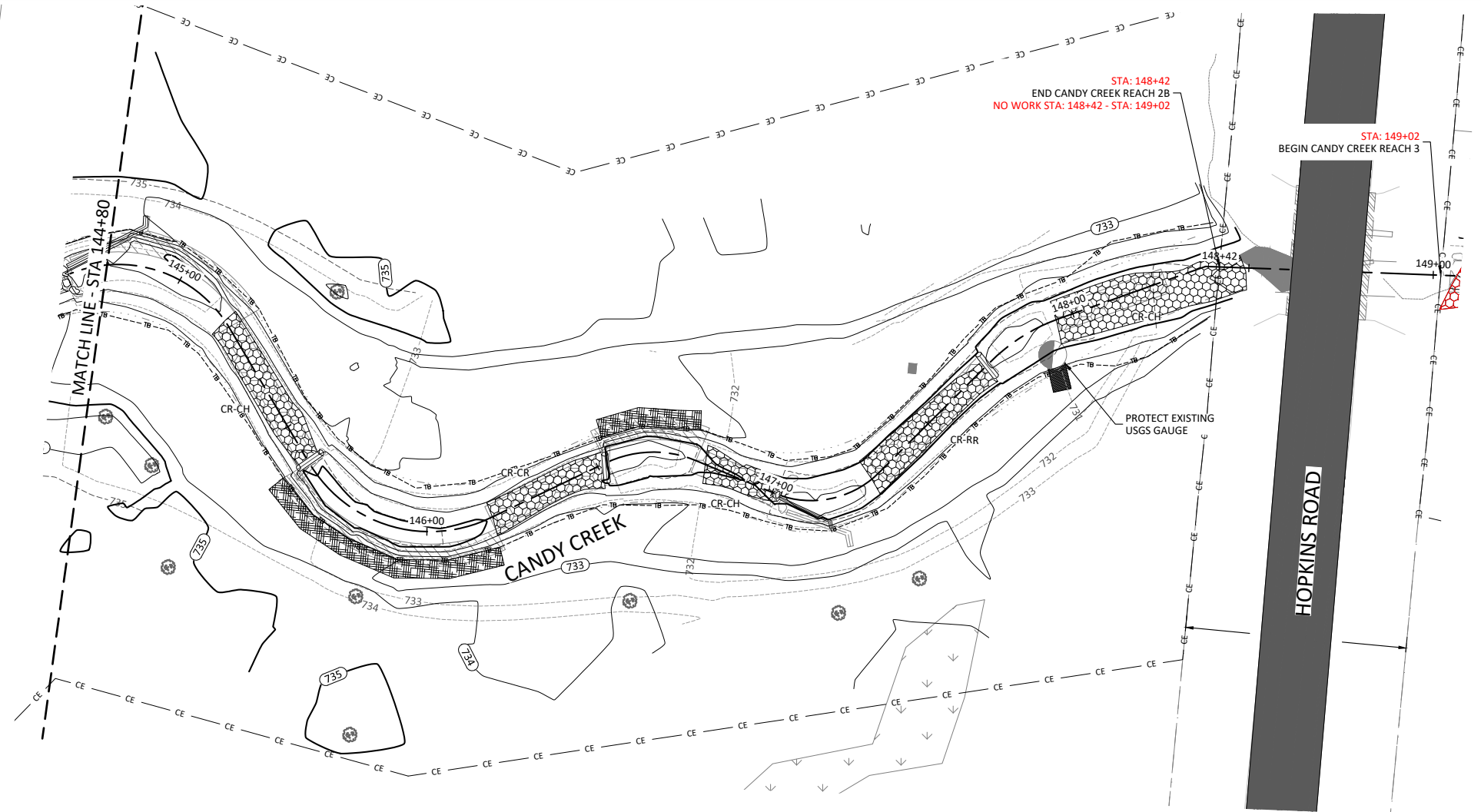
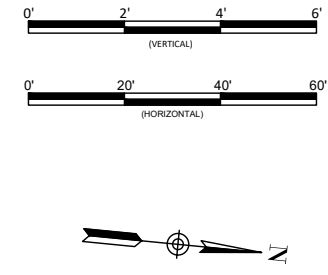
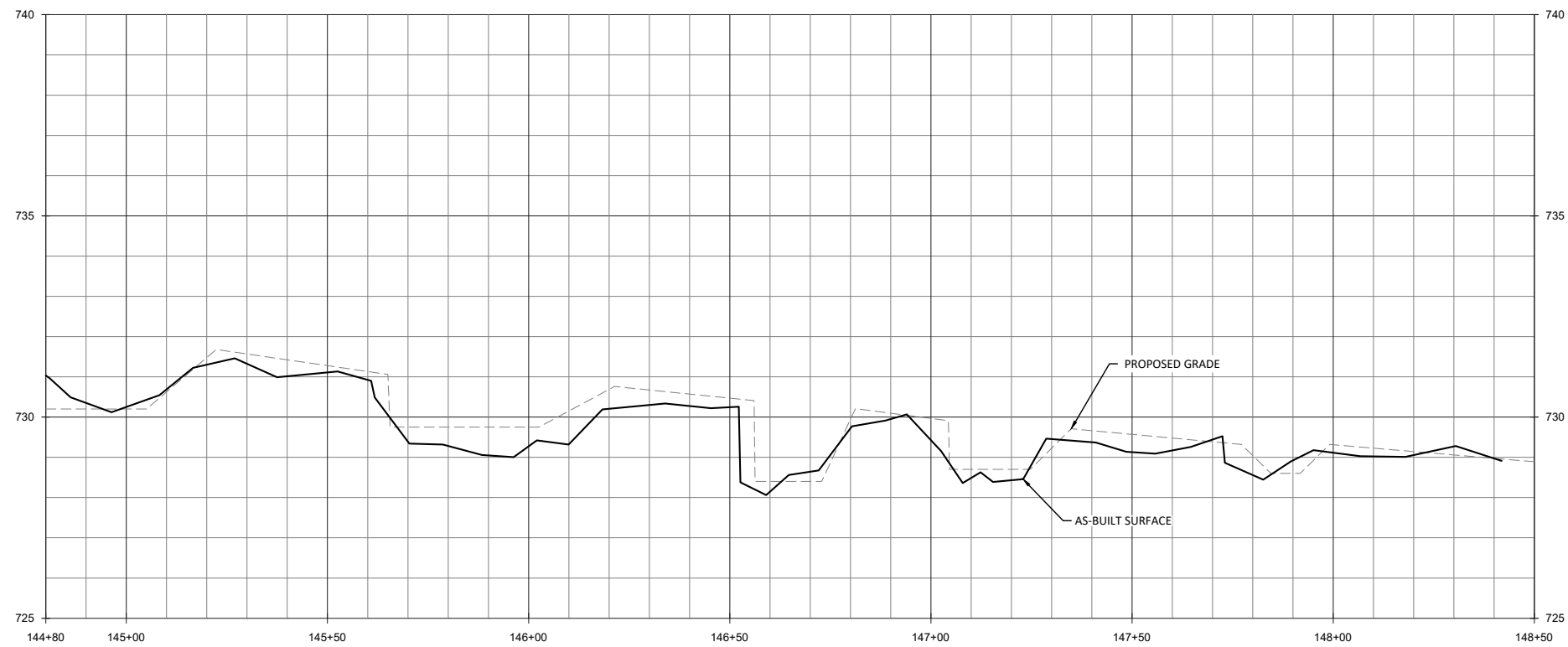
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

Candy Creek Reach 2A & 2B  
 Stream Plan and Profile


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May 3, 2017



Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 2B & Reach 3  
 Stream Plan and Profile

Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

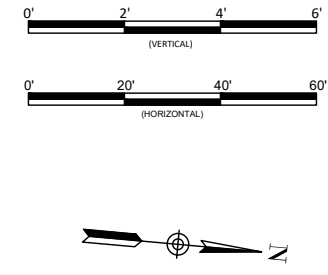
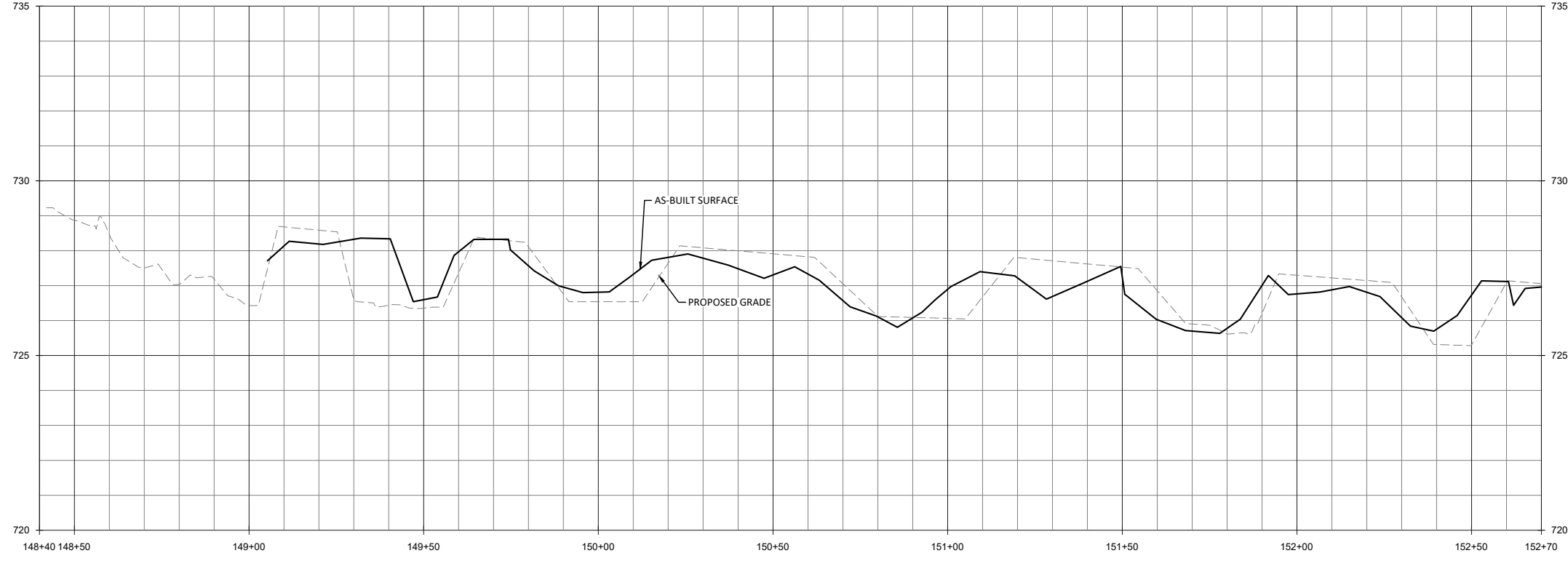
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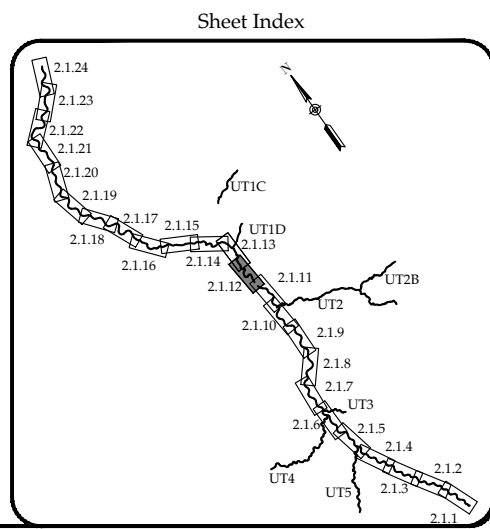
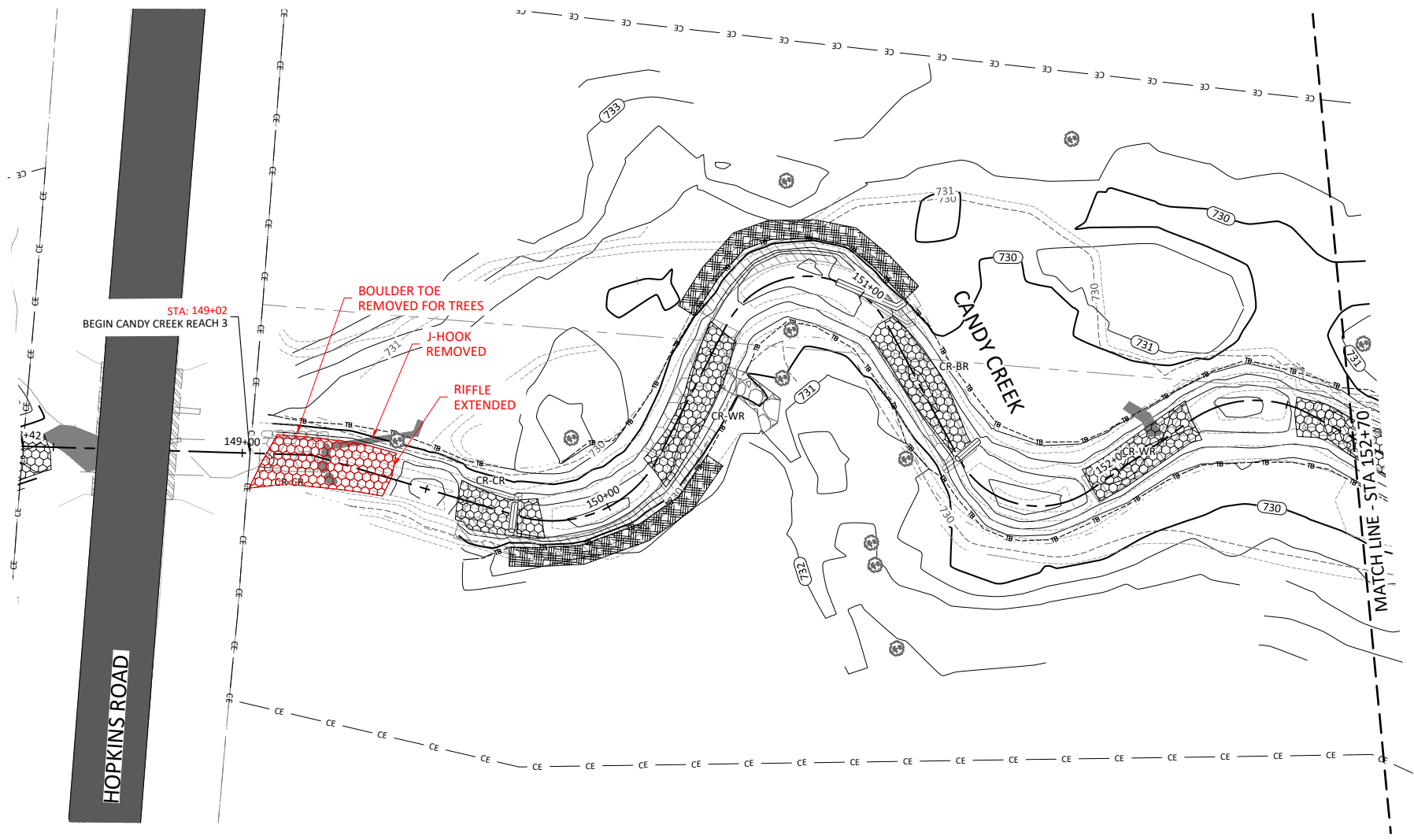
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

Candy Creek Reach 3  
 Stream Plan and Profile



Revisions:

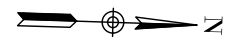
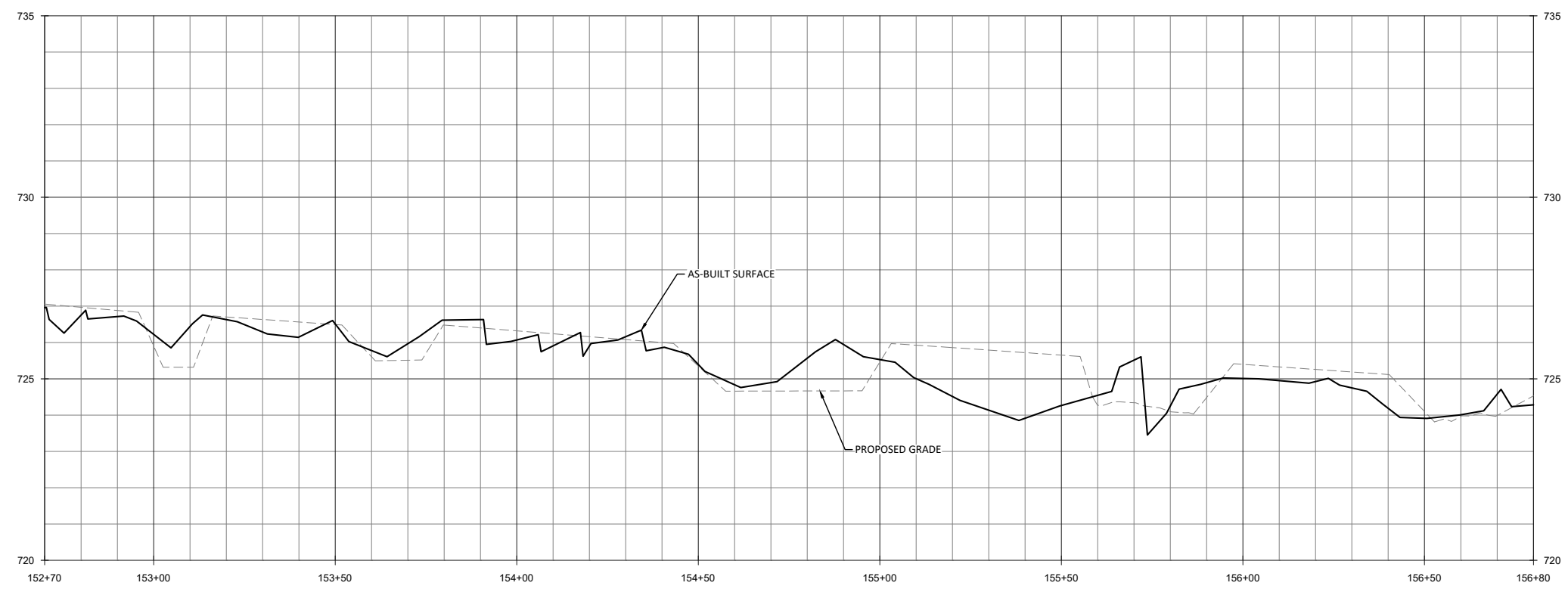

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.12**

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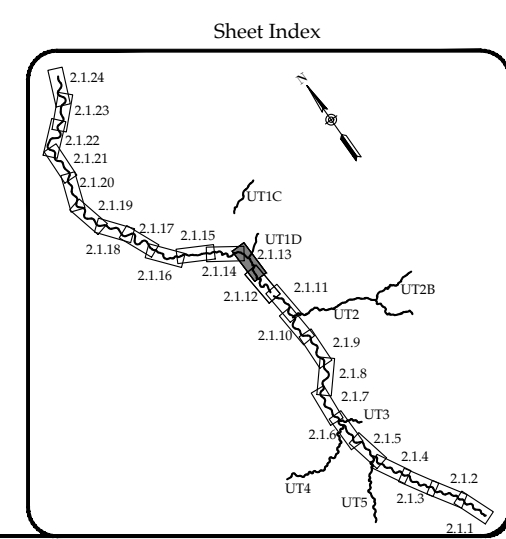
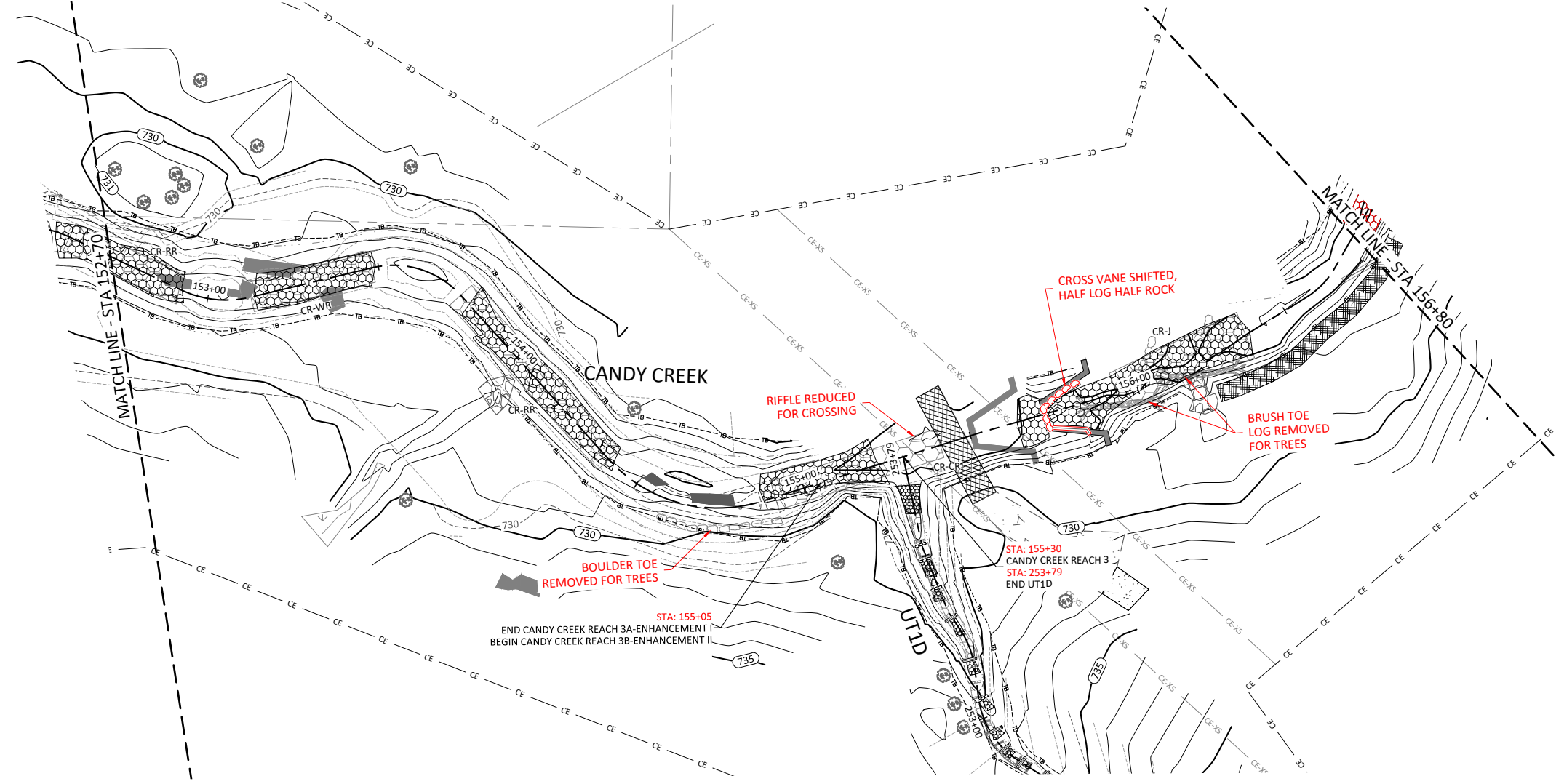
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 3  
 Stream Plan and Profile



Revisions:

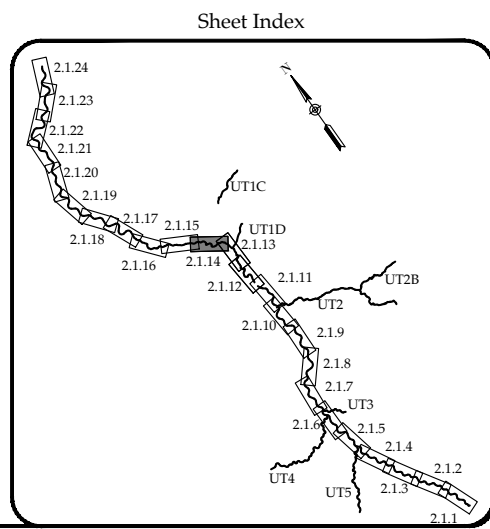
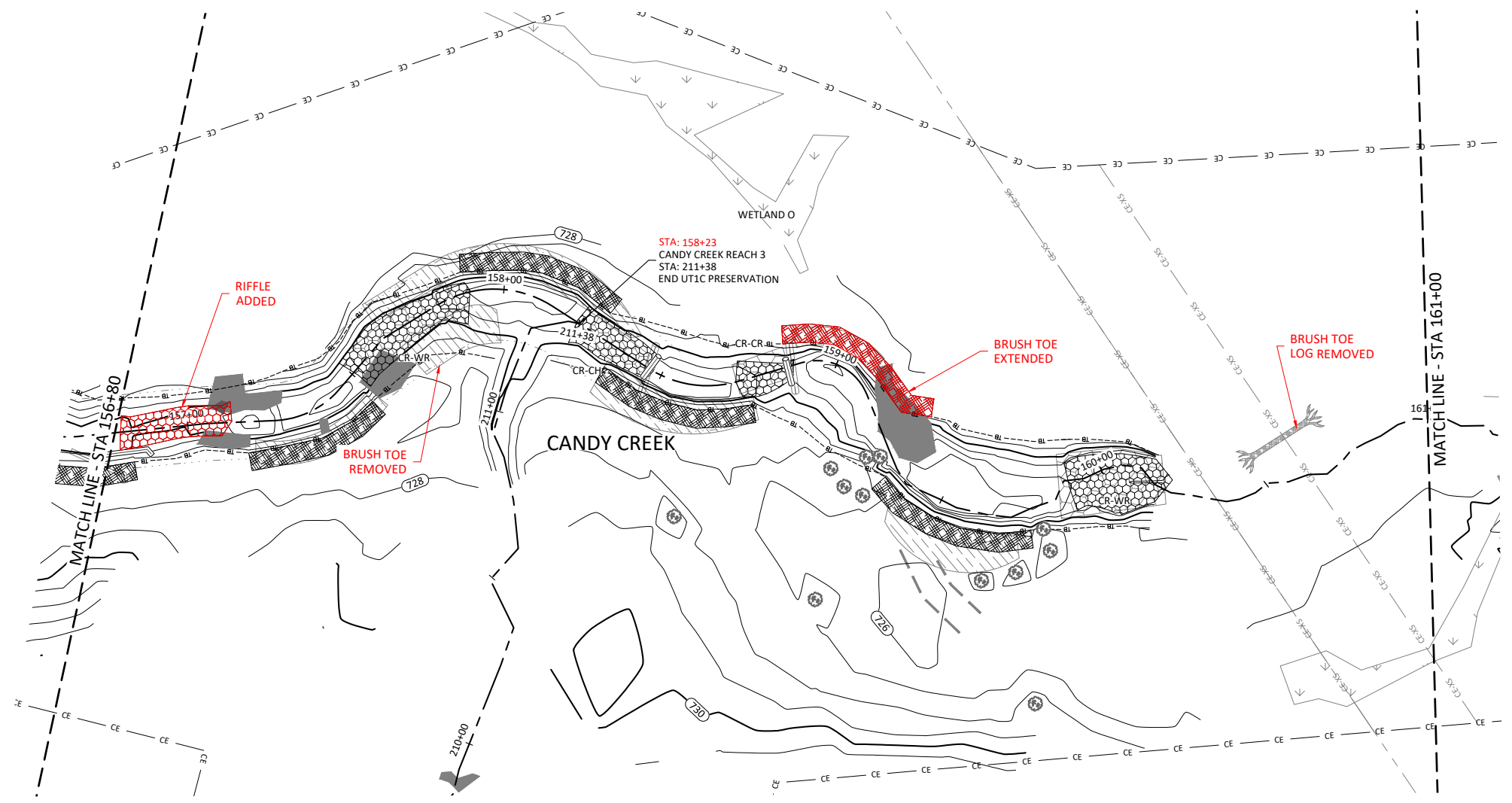
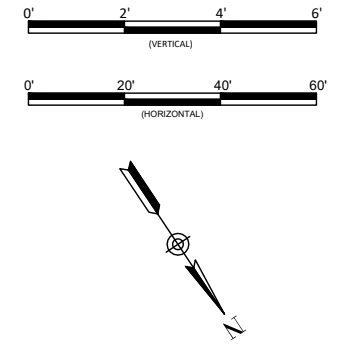
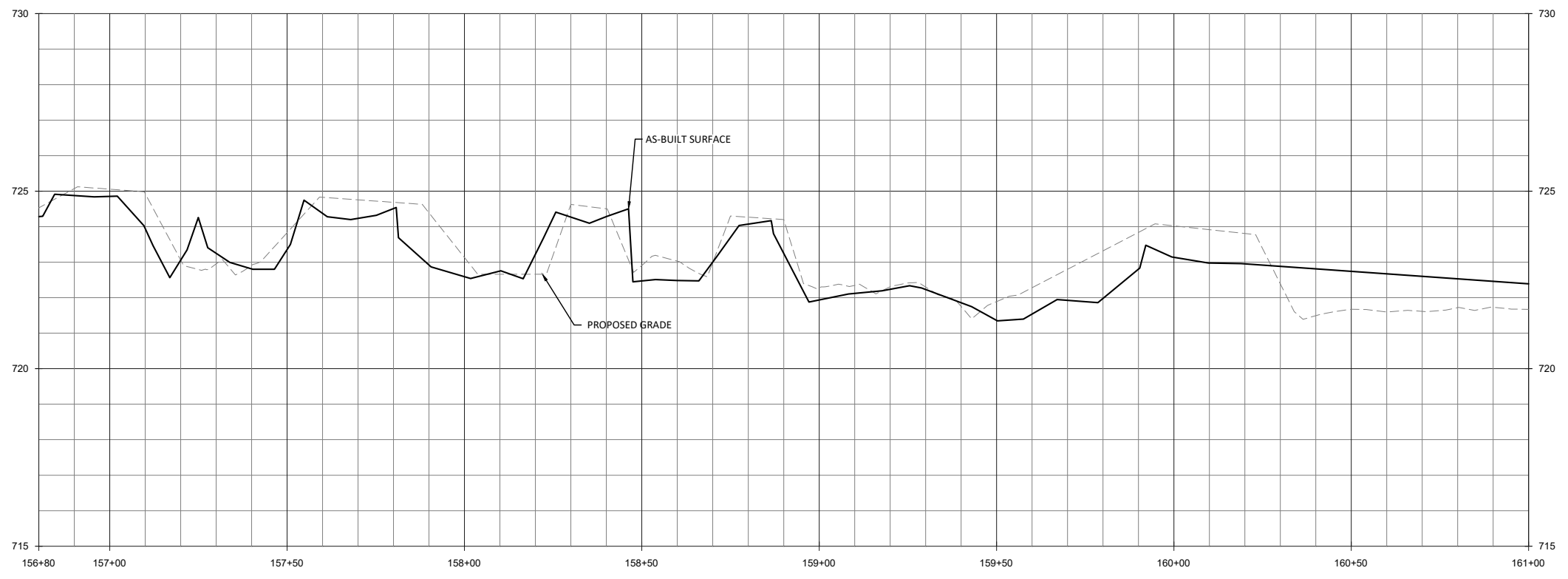

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.13**  
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May 3, 2017



Candy Creek Mitigation Site-Record Drawings  
Guilford County, North Carolina

Candy Creek Reach 3  
Stream Plan and Profile

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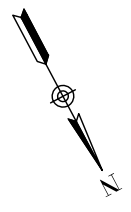
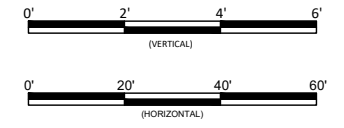
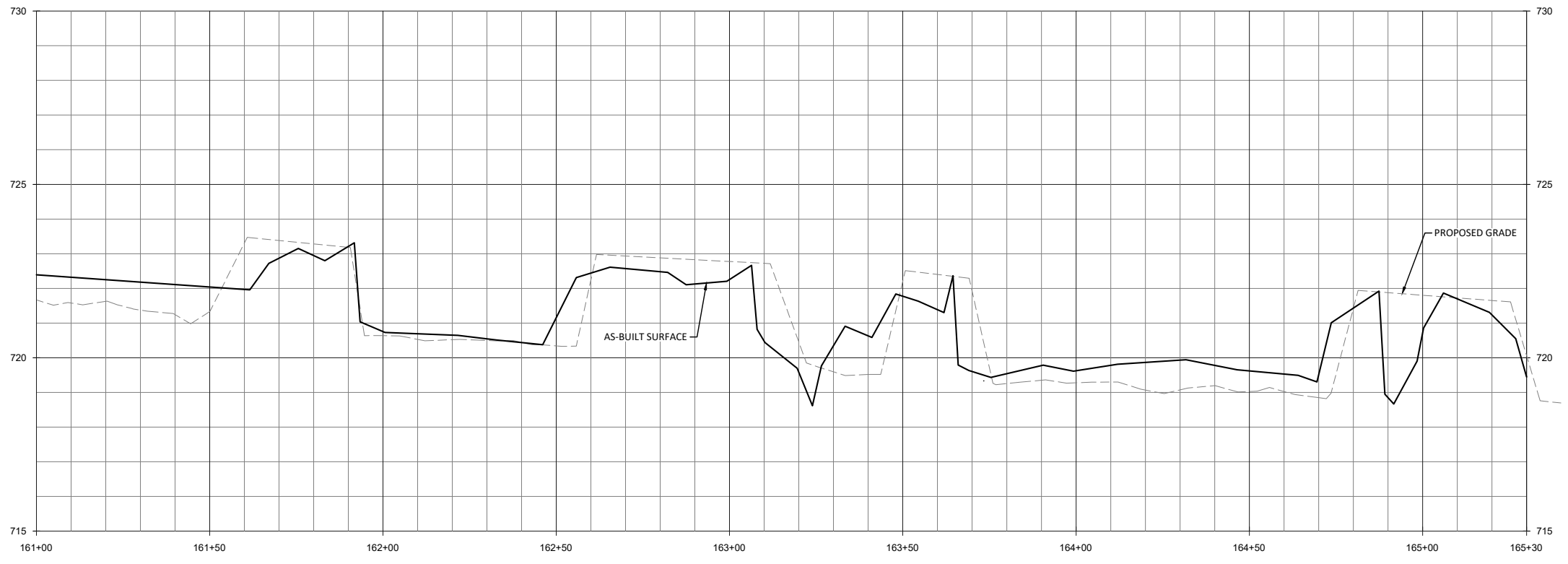
Revisions:


Date: May 3, 2017  
Job Number: 005-02145  
Project Engineer: ASE  
Drawn By: SID  
Checked By: JL

**2.1.14**  
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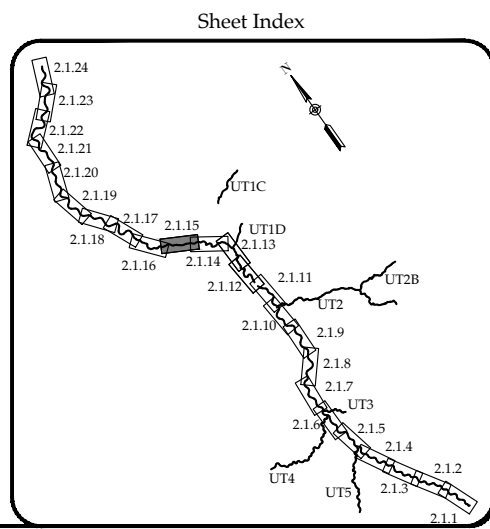
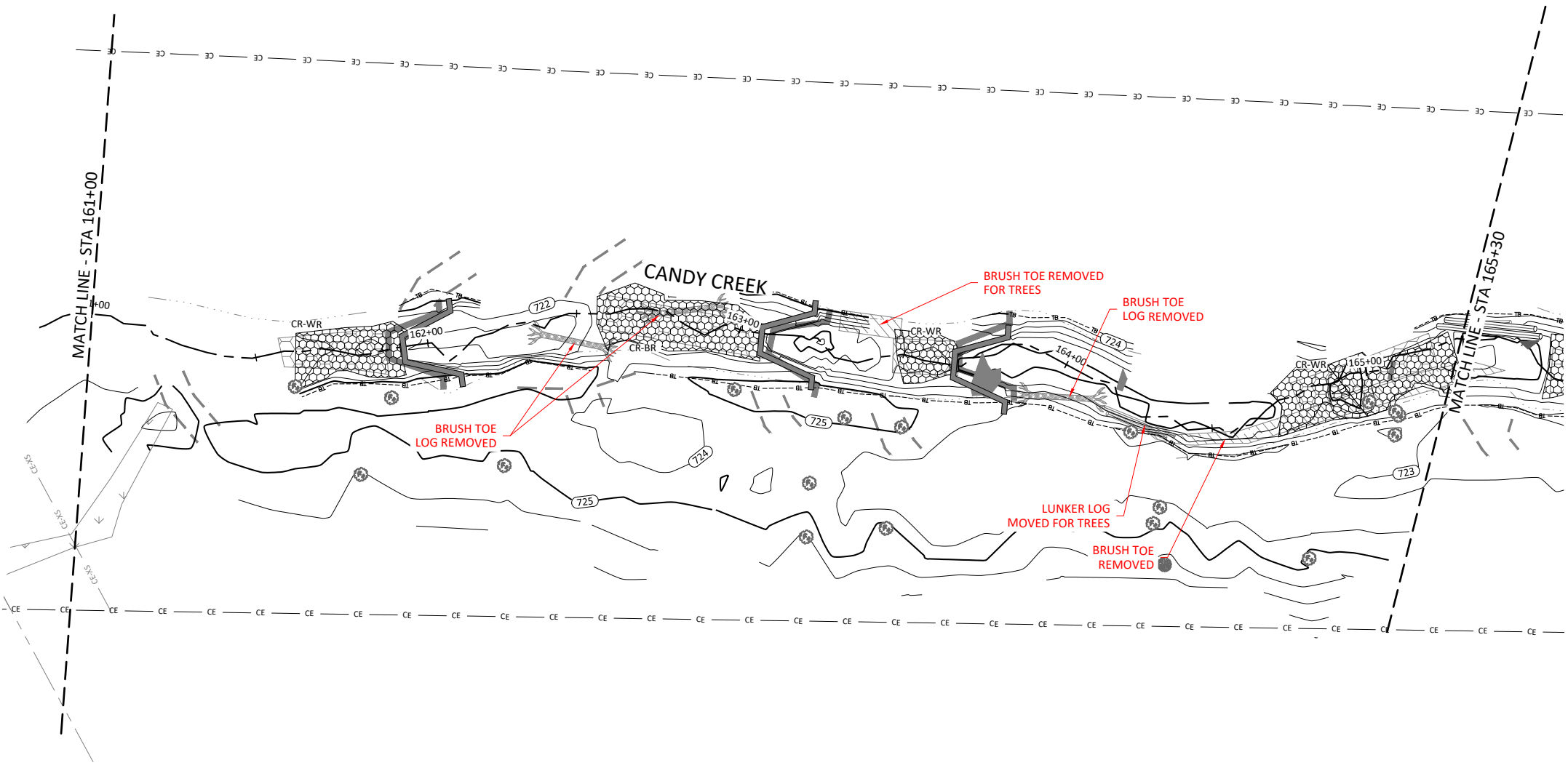
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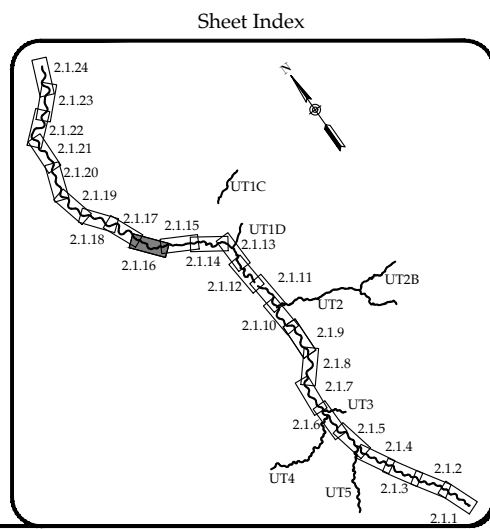
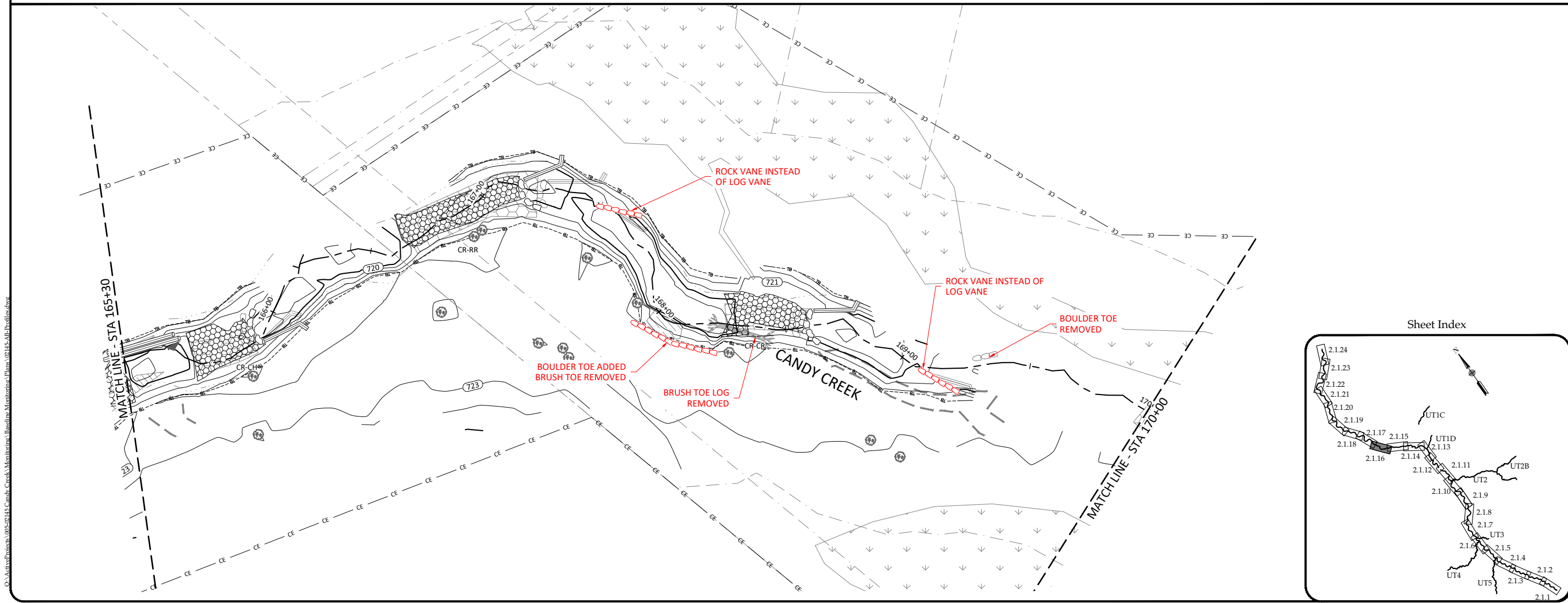
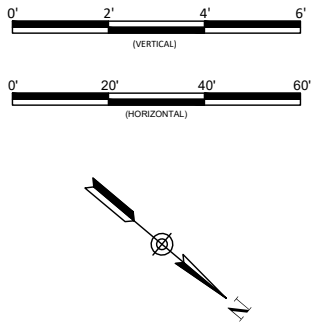
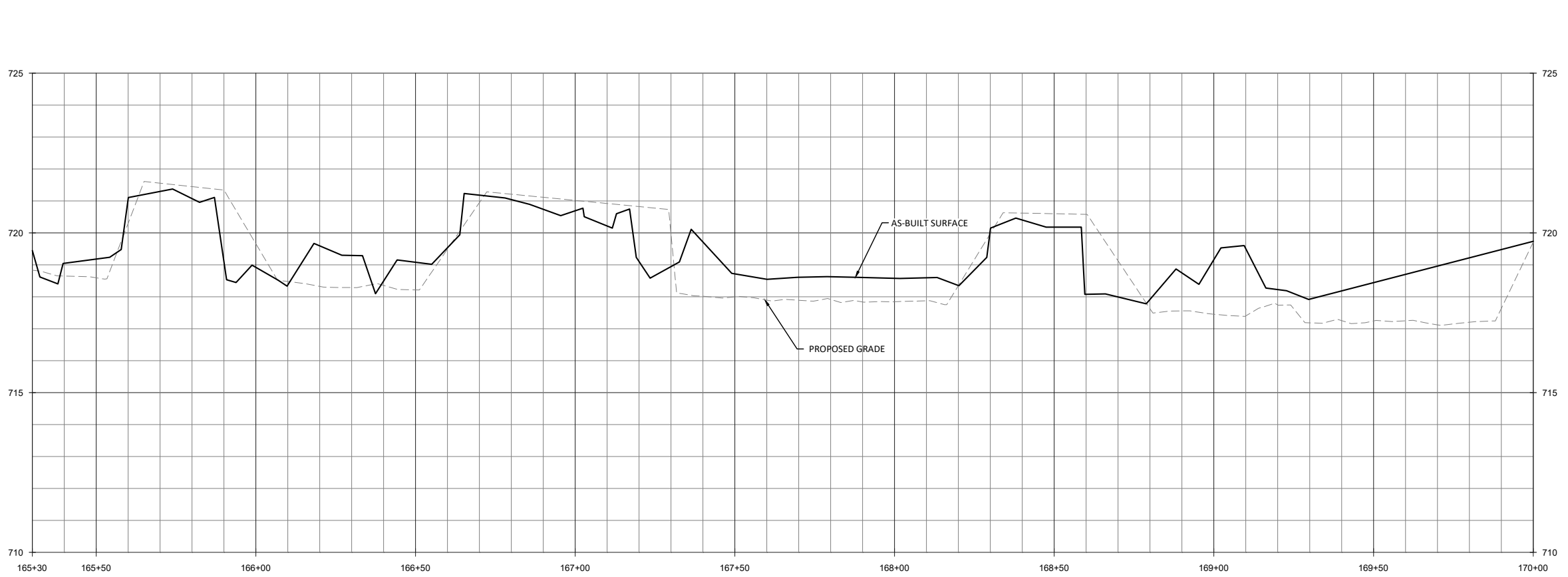
Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 3  
 Stream Plan and Profile

Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.15**  
 Sheet

May 3, 2017



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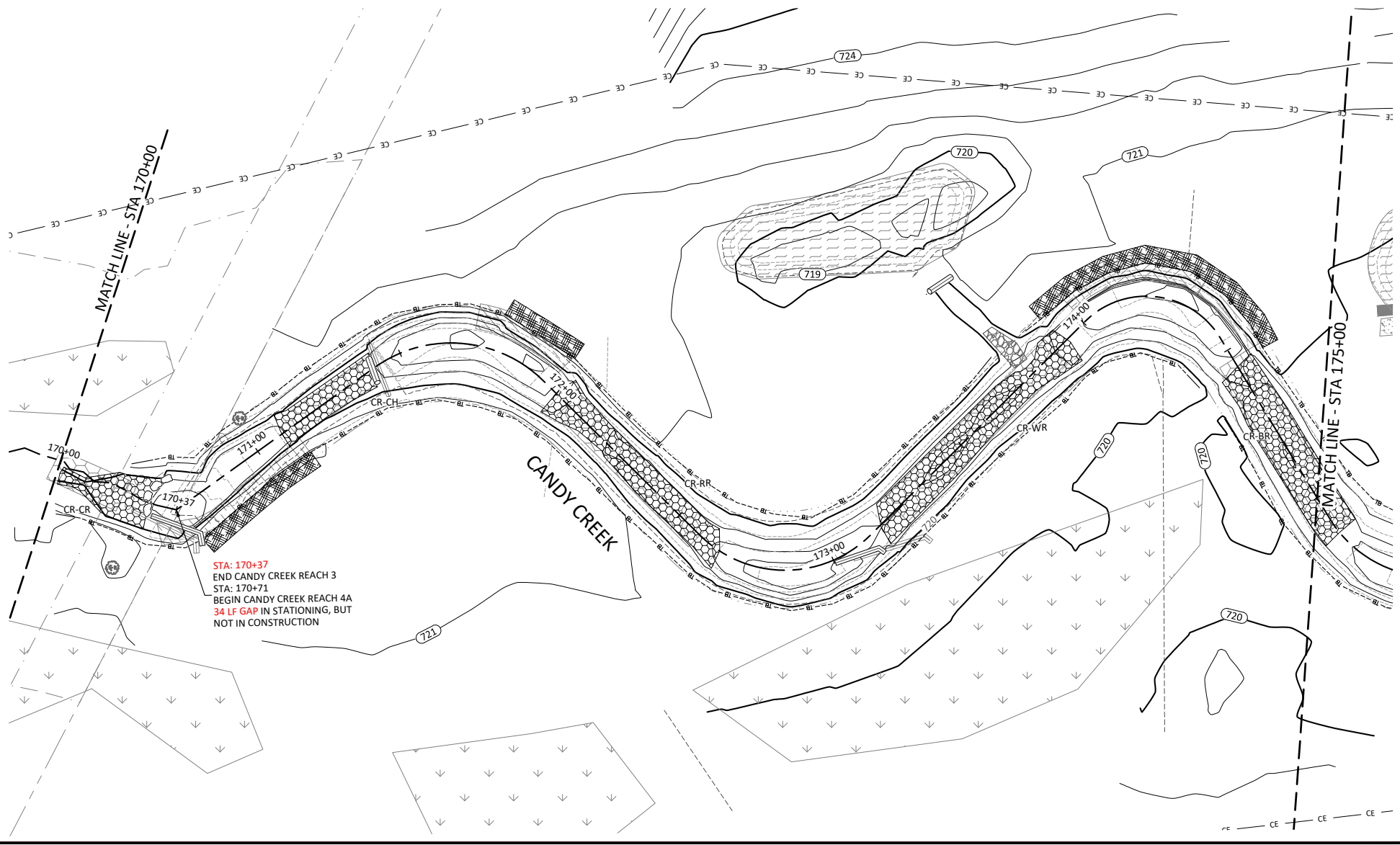
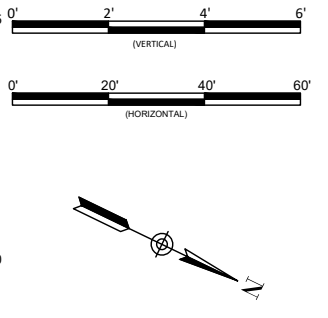
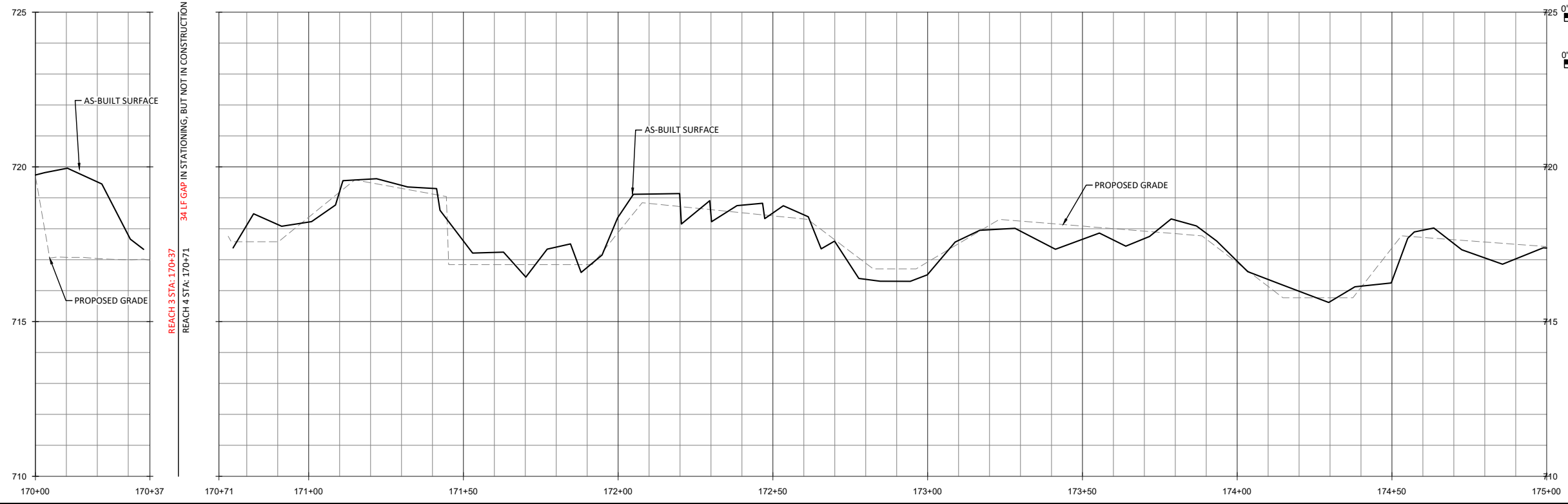
Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 3  
 Stream Plan and Profile

Date	Job Number	Project Engineer	Drawn By	Checked By
May 3, 2017	005-02145	ASE	SID	JL

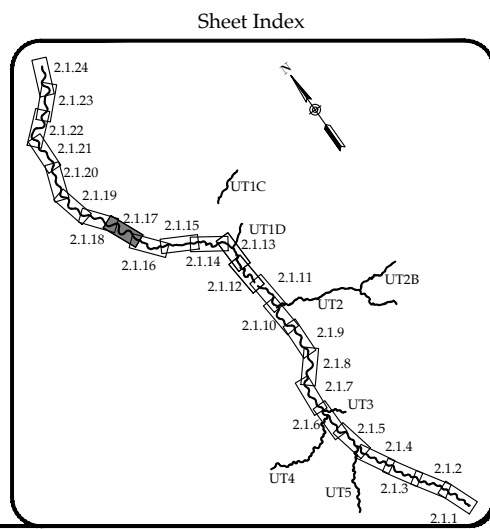
Revisions:


**2.1.16**  
Sheet

May 3, 2017



STA: 170+37  
 END CANDY CREEK REACH 3  
 STA: 170+71  
 BEGIN CANDY CREEK REACH 4A  
 34 LF GAP IN STATIONING, BUT  
 NOT IN CONSTRUCTION



Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

Candy Creek Reach 3 & 4  
 Stream Plan and Profile

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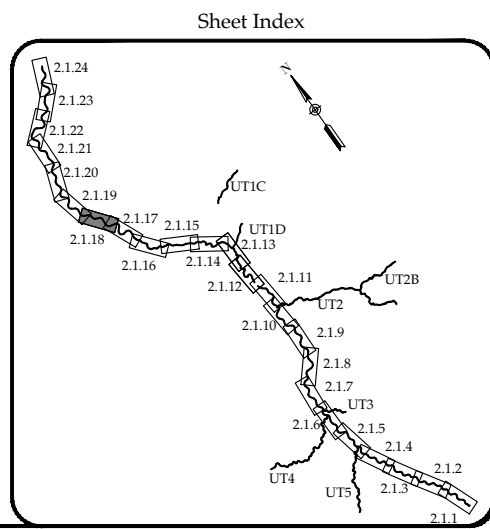
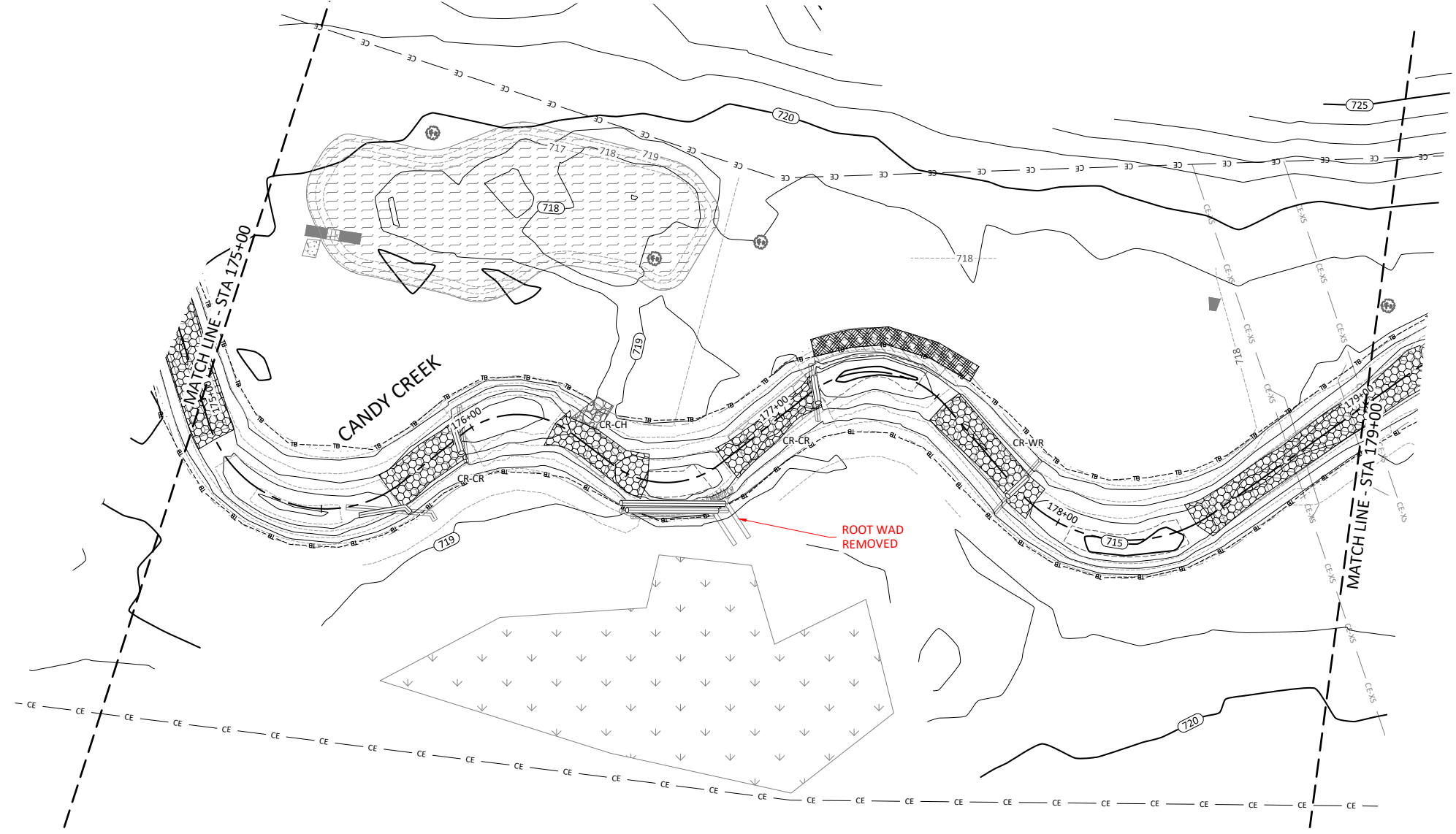
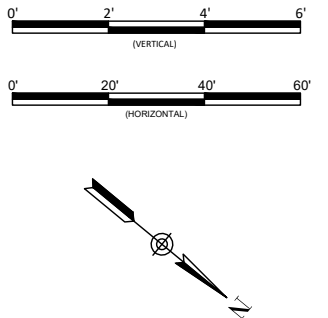
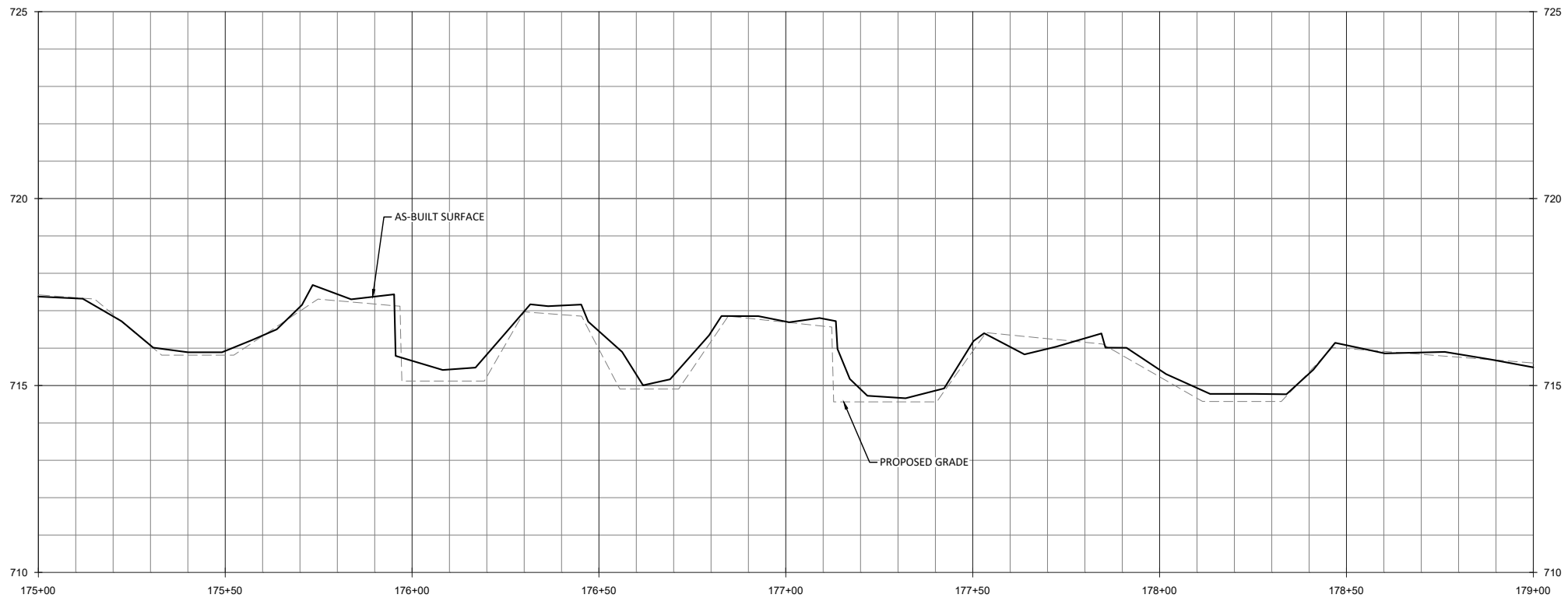
Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.17**  
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 4  
 Stream Plan and Profile

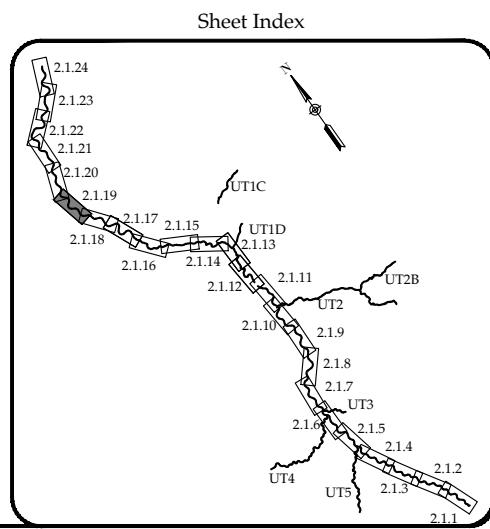
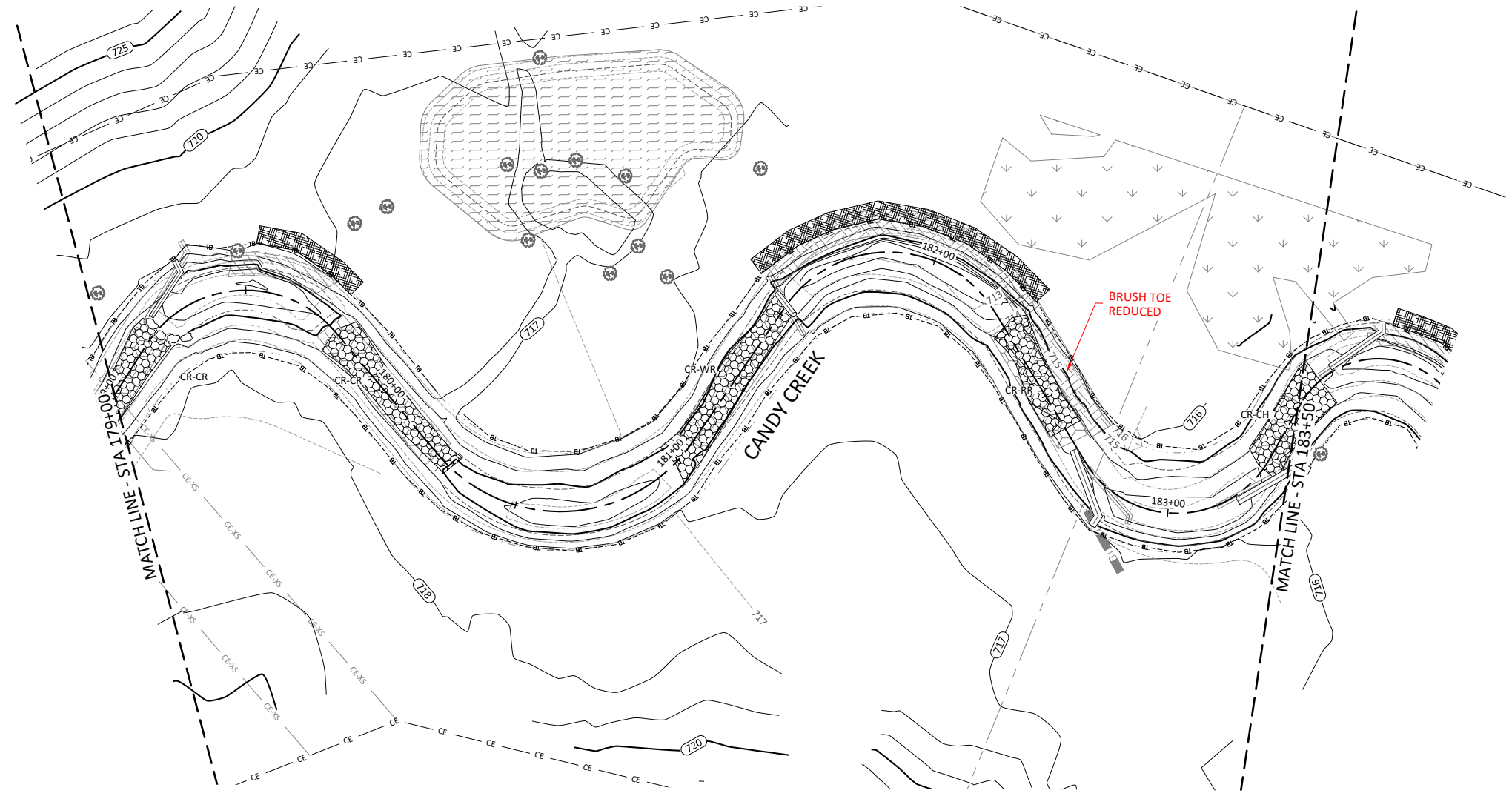
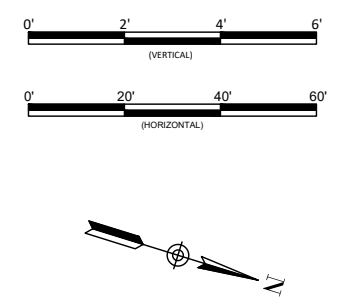
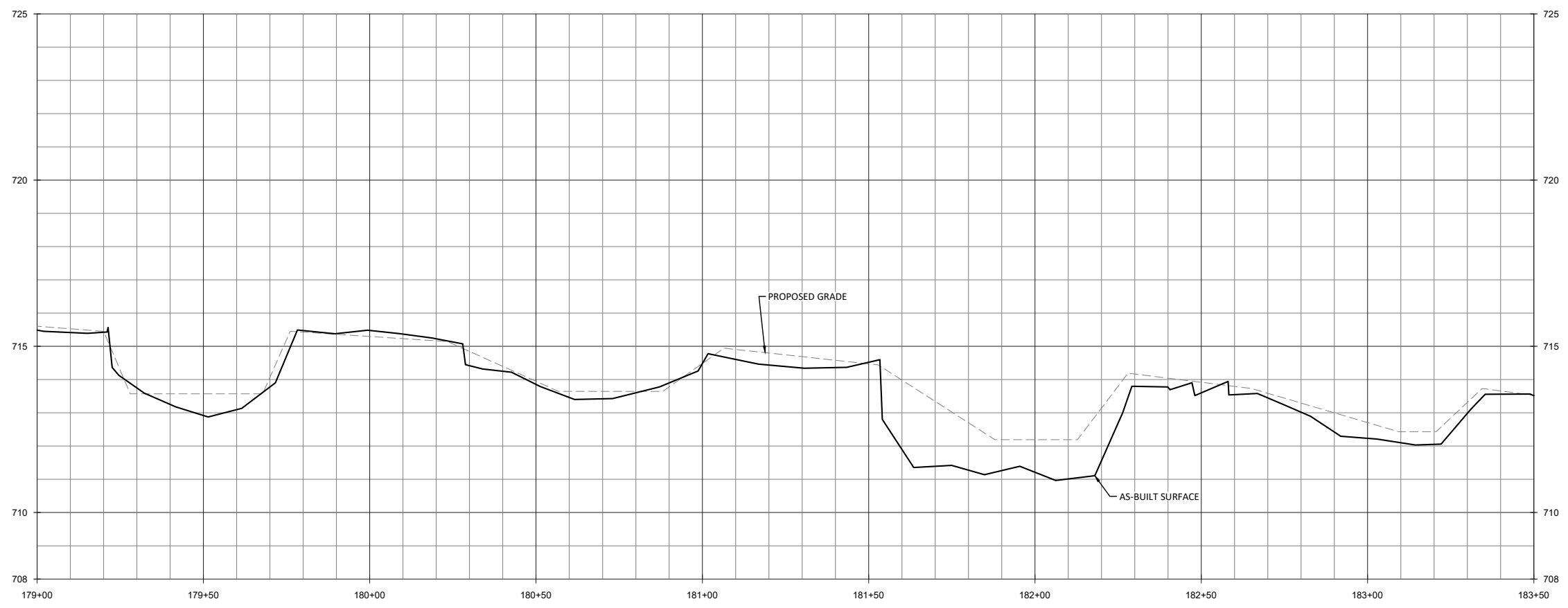
Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.18**

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May 3, 2017  
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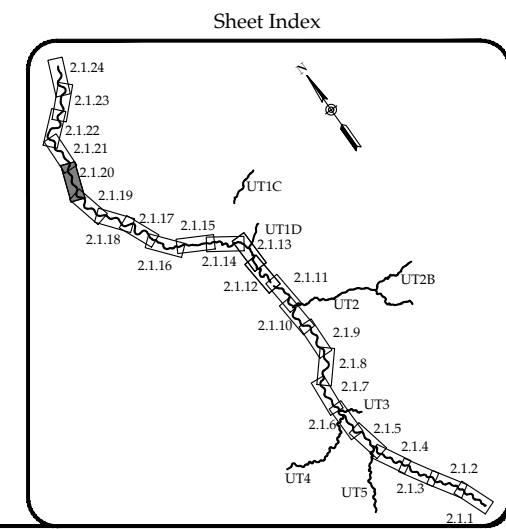
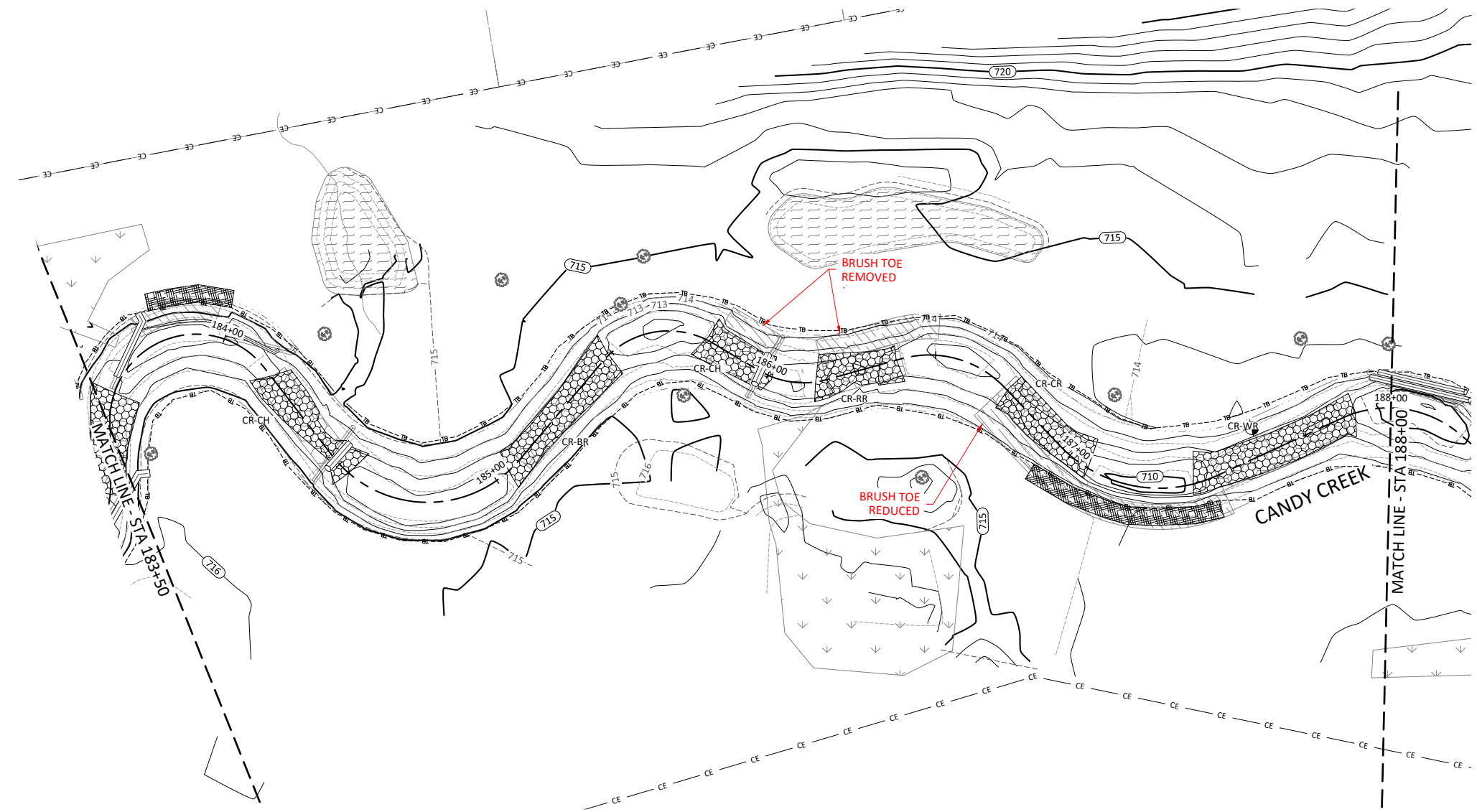
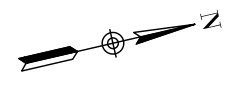
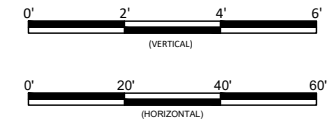
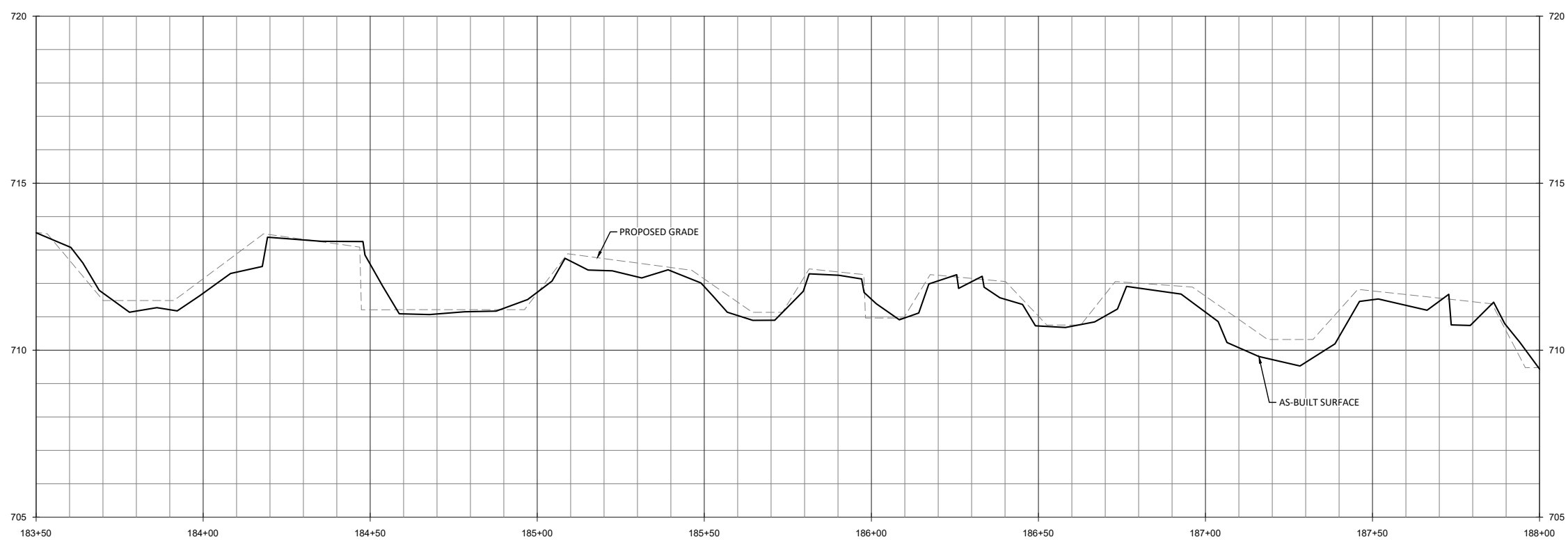
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**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**

Candy Creek Reach 4  
 Stream Plan and Profile

Revisions:	Date:	Job Number:	Project Engineer:	Drawn By:	Checked By:	Title:
		005-02145	ASE	SID	JL	2.1.19

May 3, 2017  
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

Candy Creek Reach 4  
 Stream Plan and Profile

Revisions:

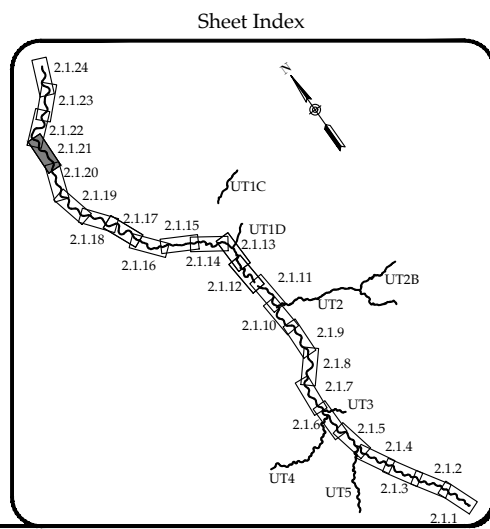
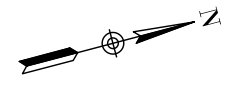
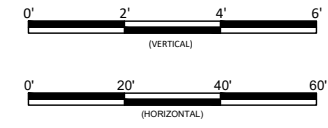
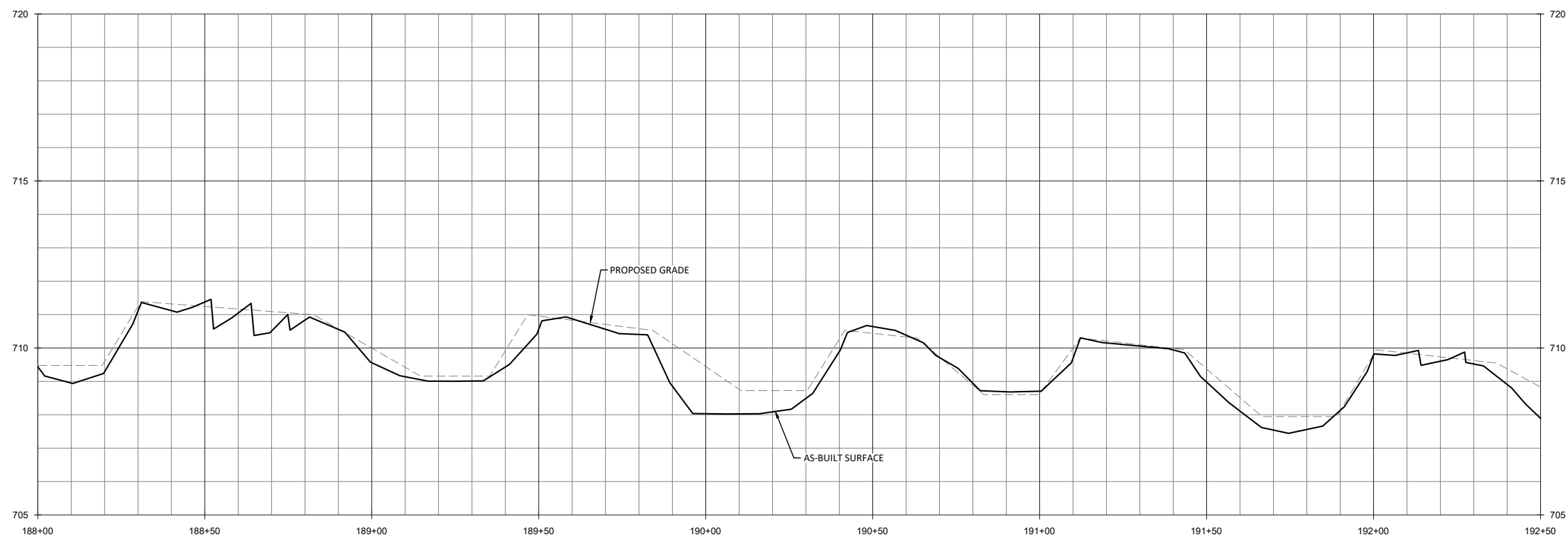

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

2.1.20

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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 4  
 Stream Plan and Profile

Revisions:

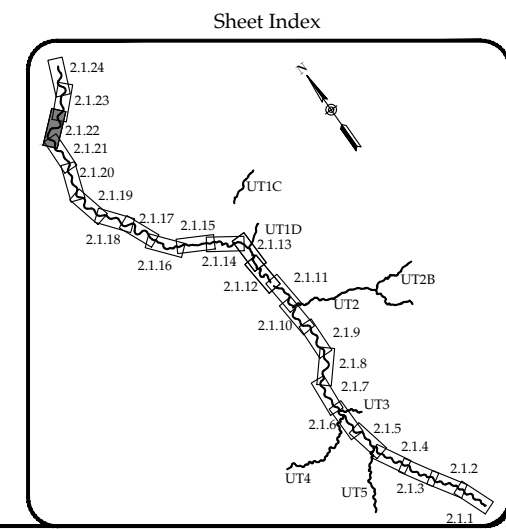
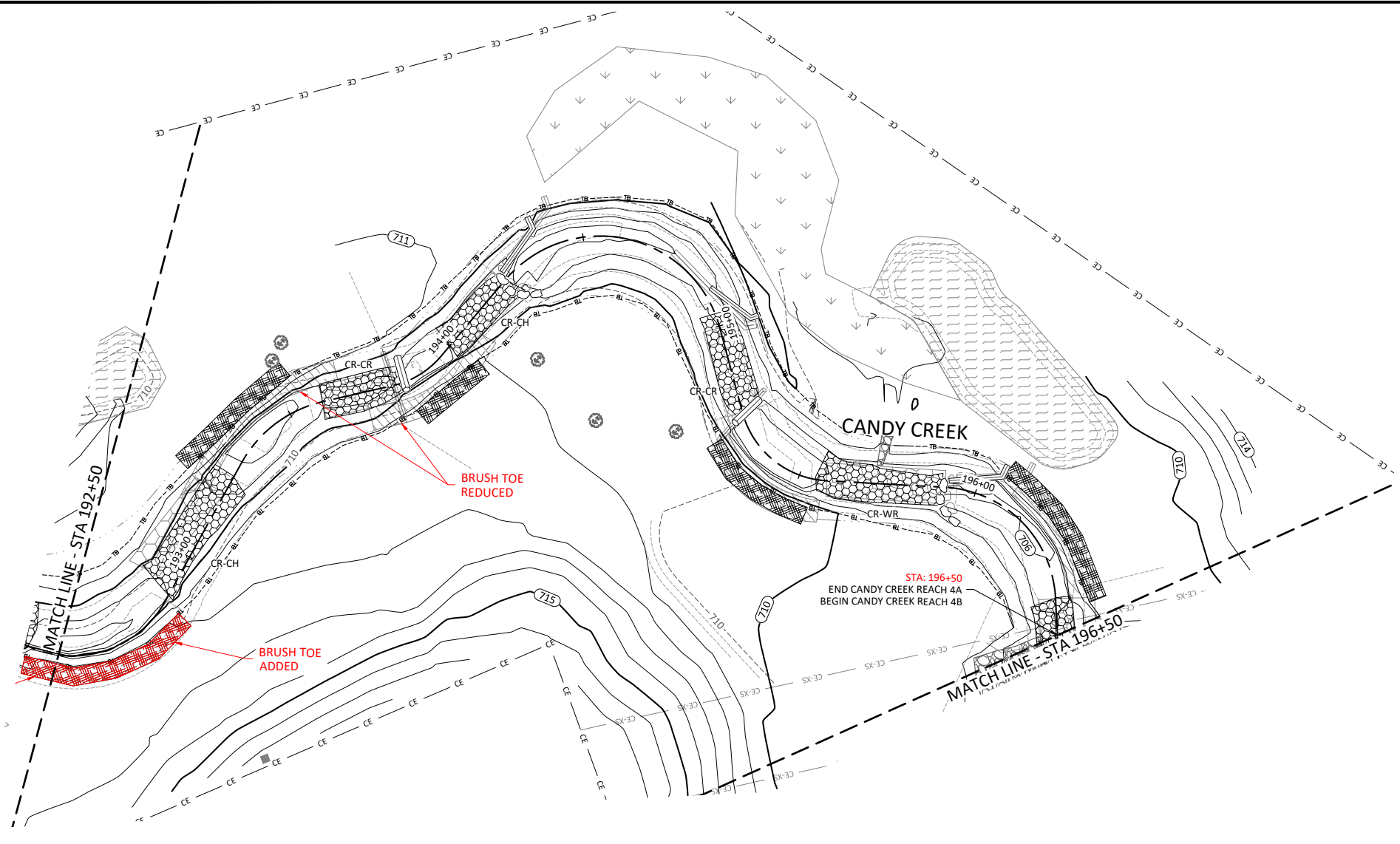
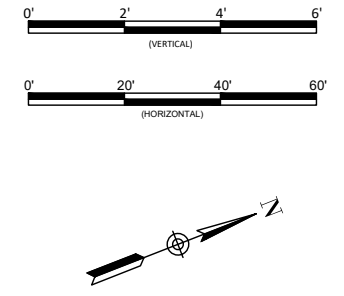
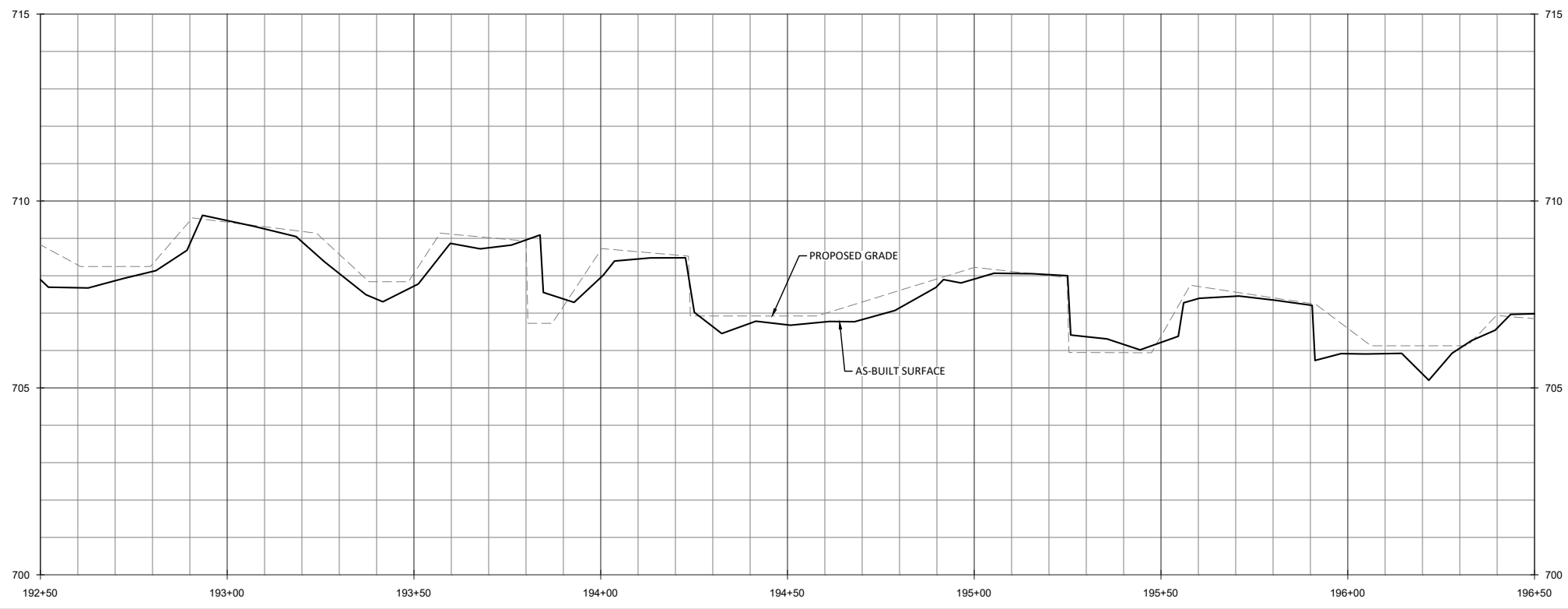

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.21**

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 May 3, 2017



Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

Candy Creek Reach 4  
 Stream Plan and Profile

Revisions:

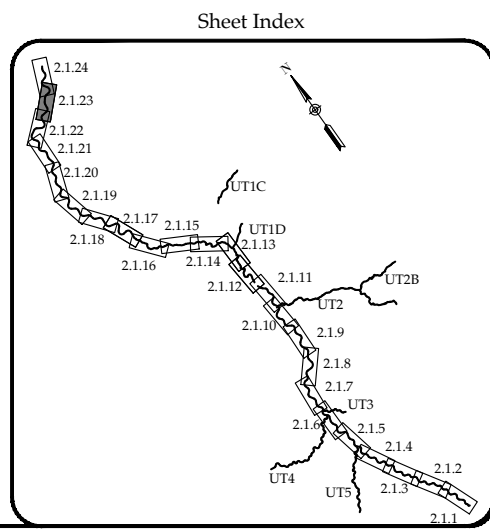
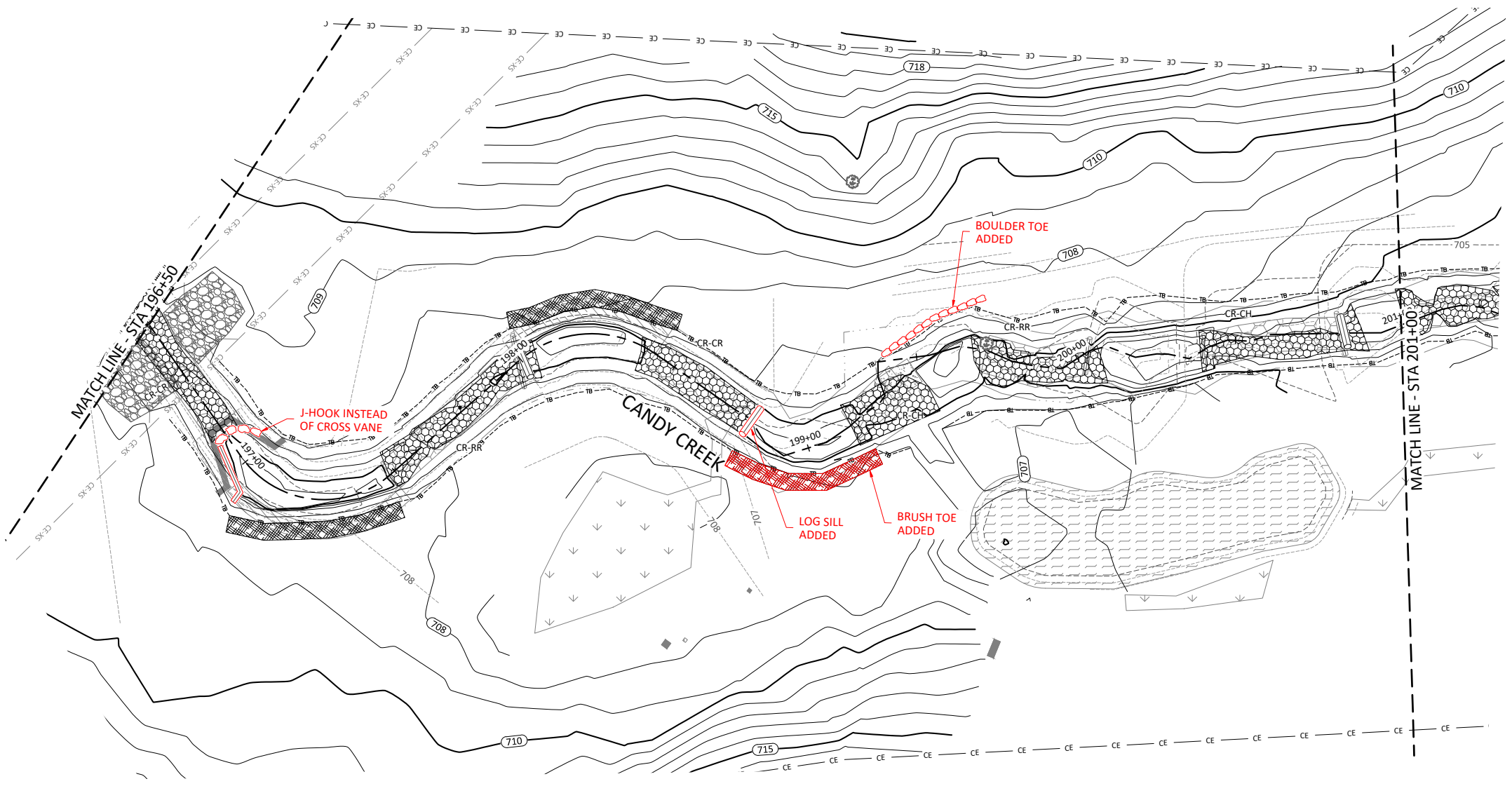
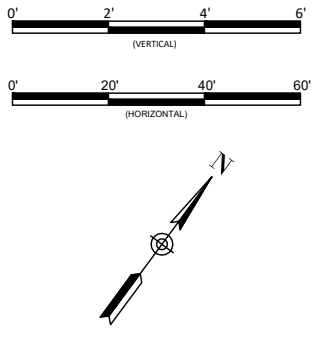
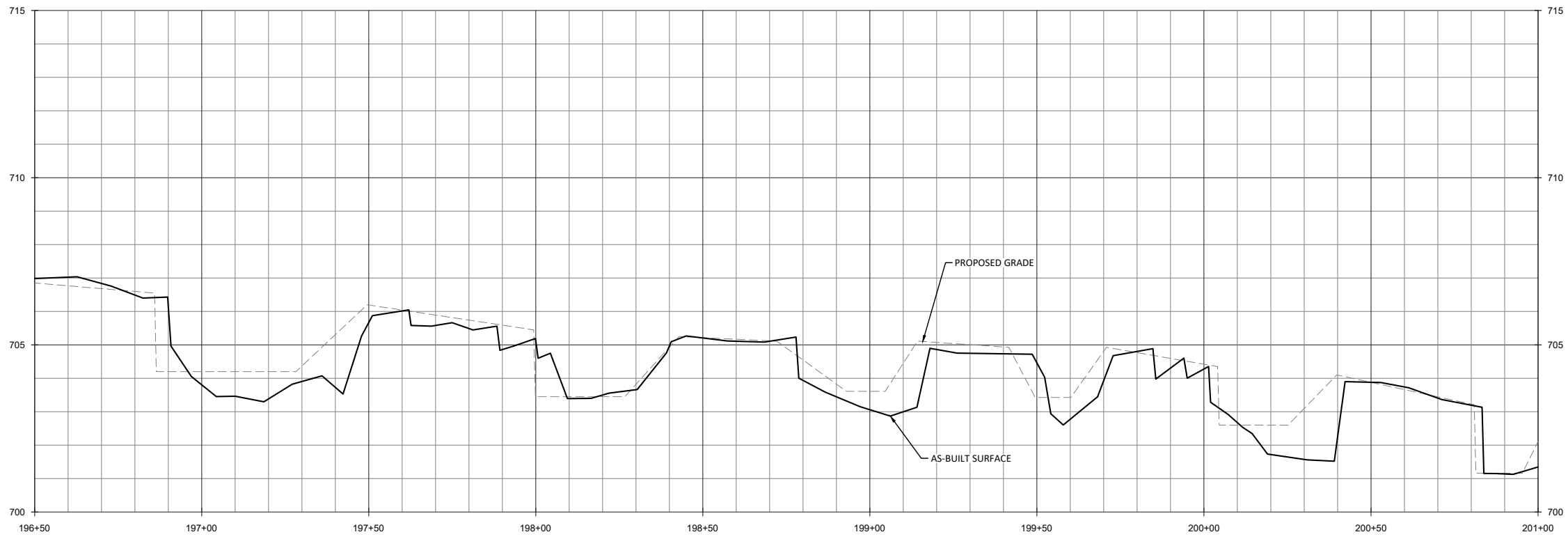

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.22**

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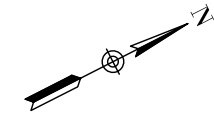
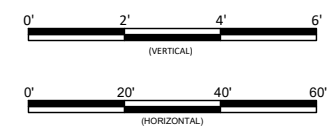
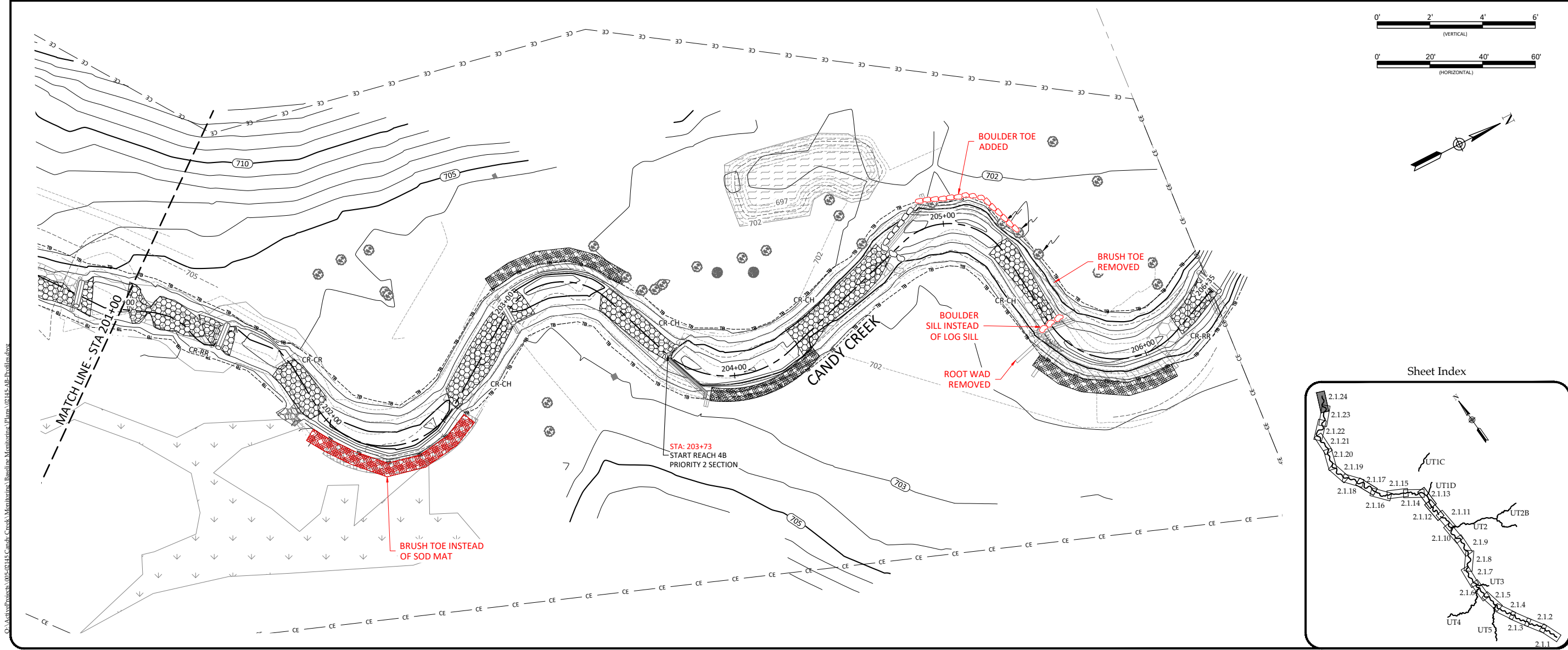
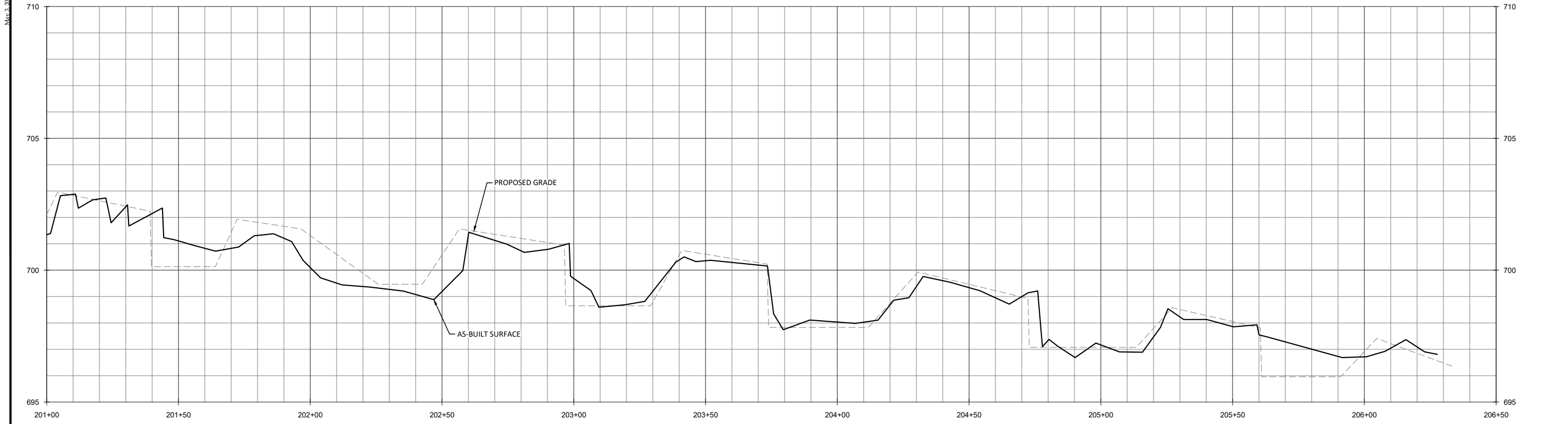
Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 4  
 Stream Plan and Profile

Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.23**  
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 Candy Creek Reach 4  
 Stream Plan and Profile

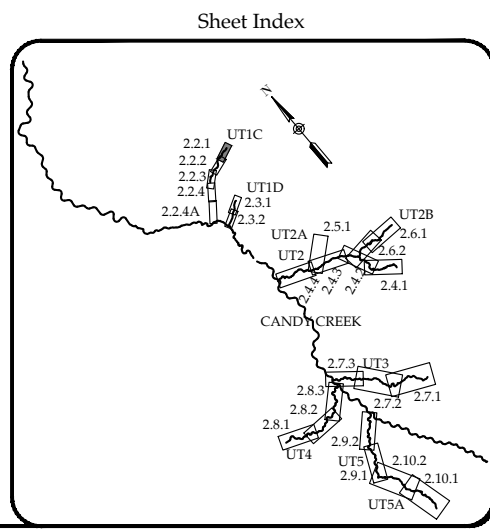
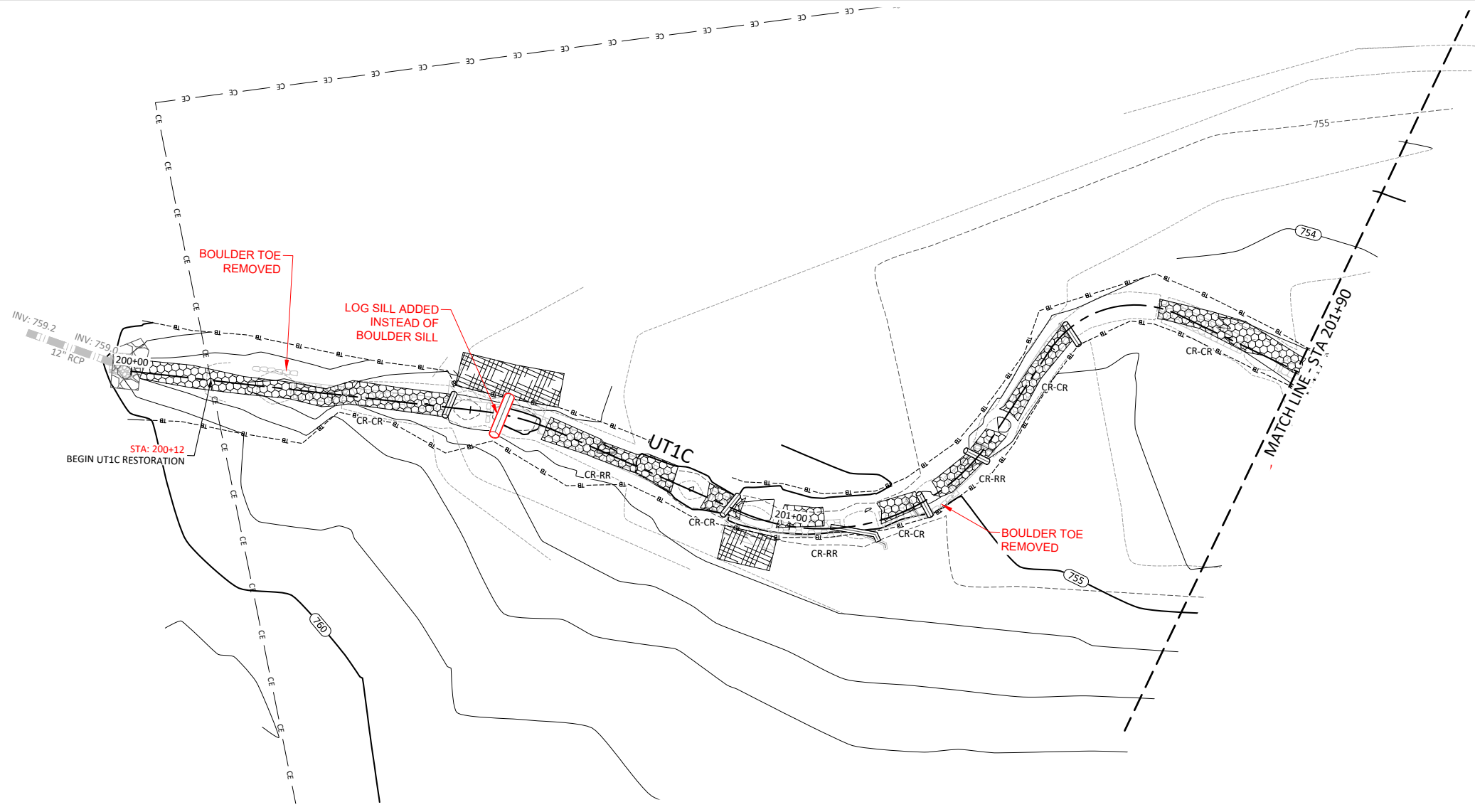
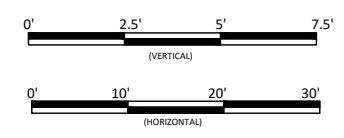
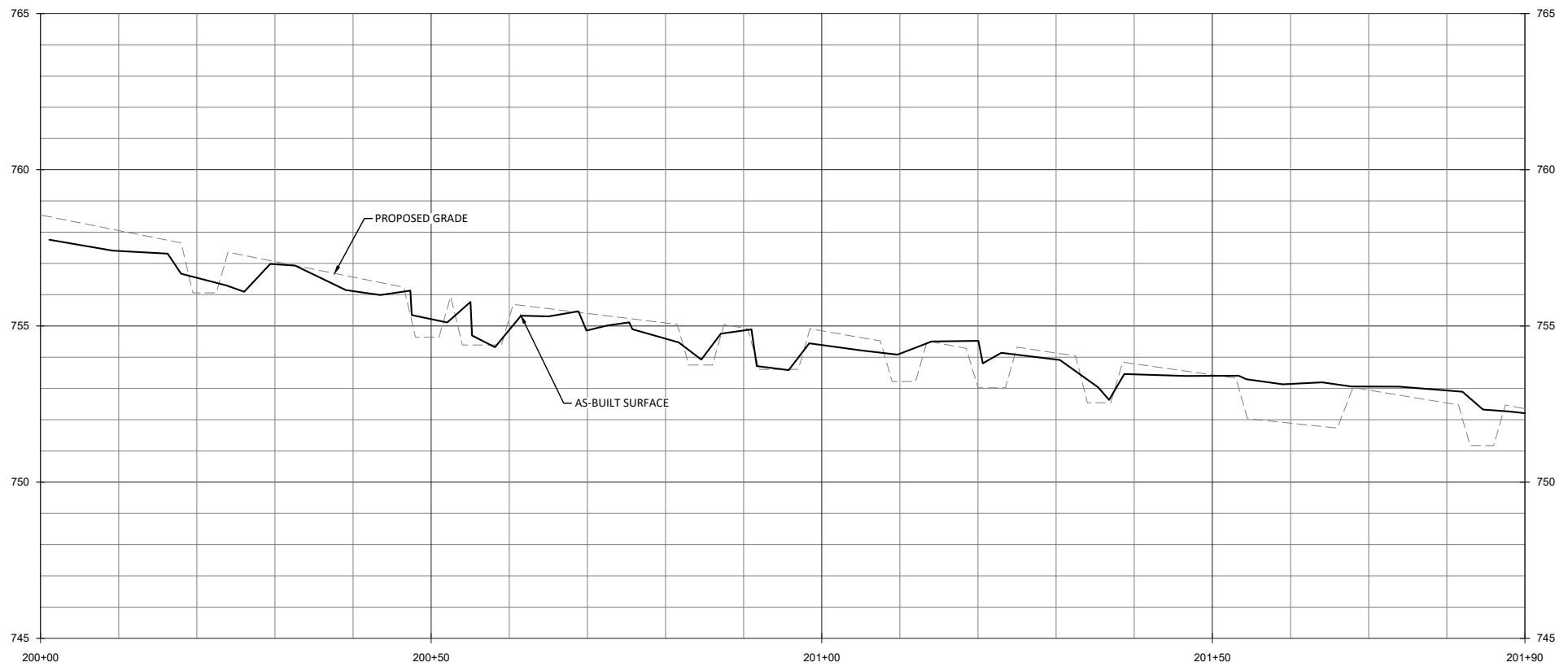
Revisions:


Date: May 3, 2017  
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 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.1.24**

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Revisions:

No.	Description	By	Date

Date: May 3, 2017  
Job Number: 005-02145  
Project Engineer: ASE  
Drawn By: SID  
Checked By: JL

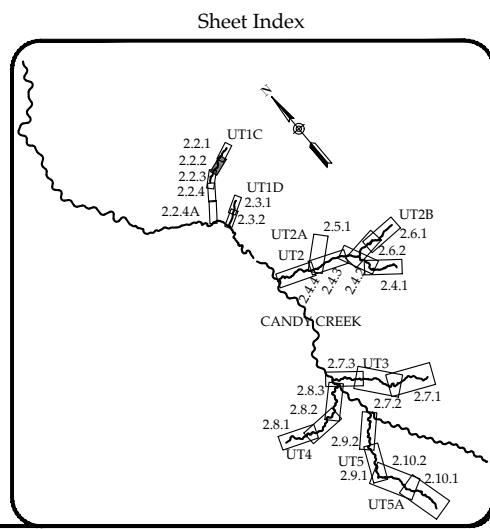
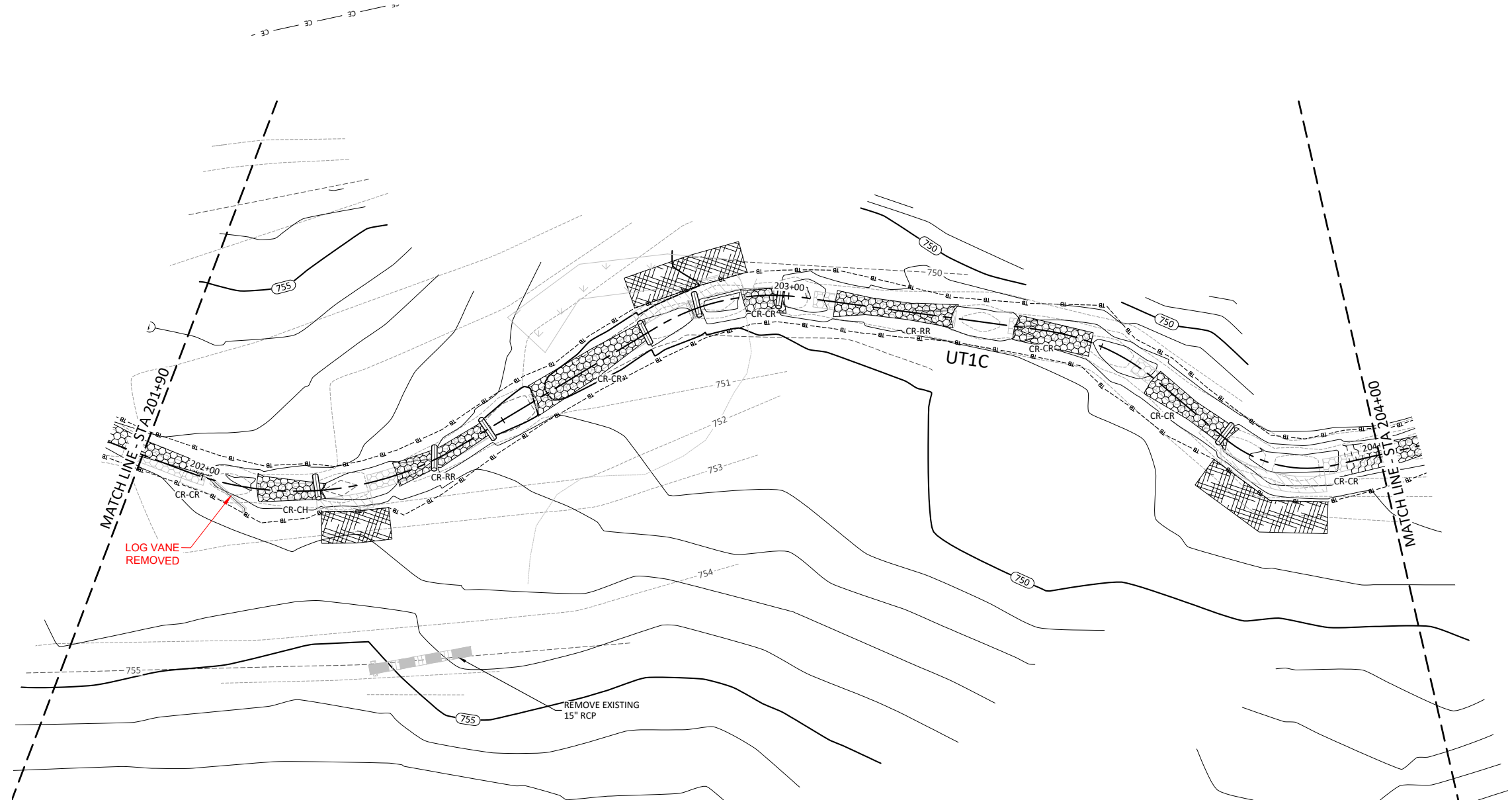
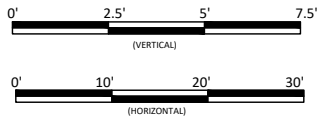
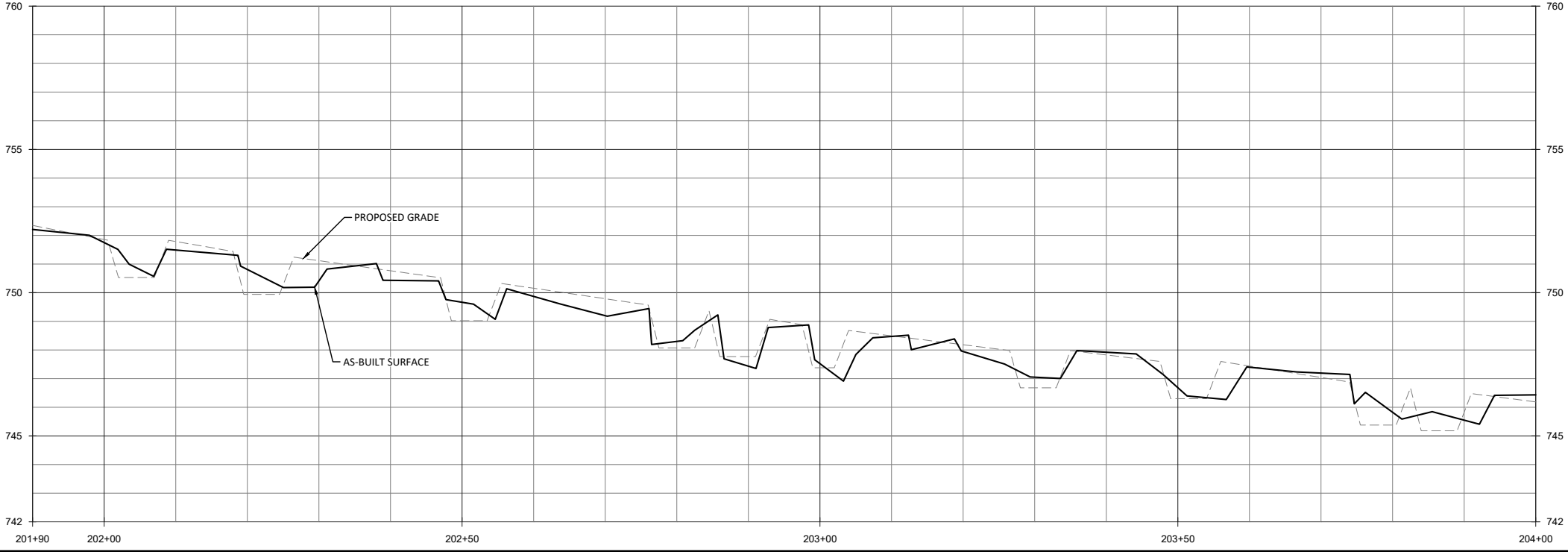
**2.2.1**

Sheet

Candy Creek Mitigation Site-Record Drawings  
Guilford County, North Carolina

UT1C  
Stream Plan and Profile

**WILDLANDS**  
ENGINEERING  
1450 N. WILSON  
Charlotte, NC 28203  
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Fax: 704.332.3306  
Firm License No. F-0831



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 Fax: 704.332.3306  
 Firm License No. F-0831

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina  
 UTIC  
 Stream Plan and Profile

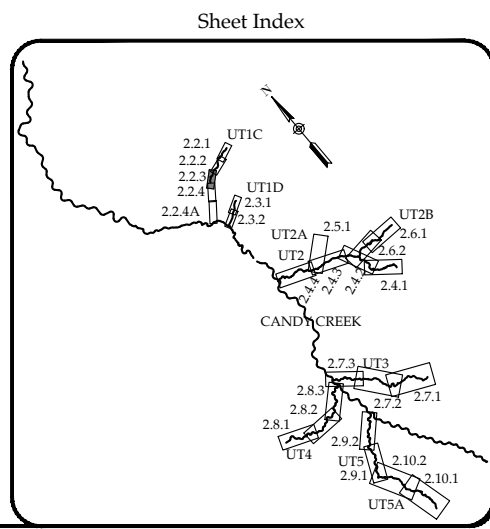
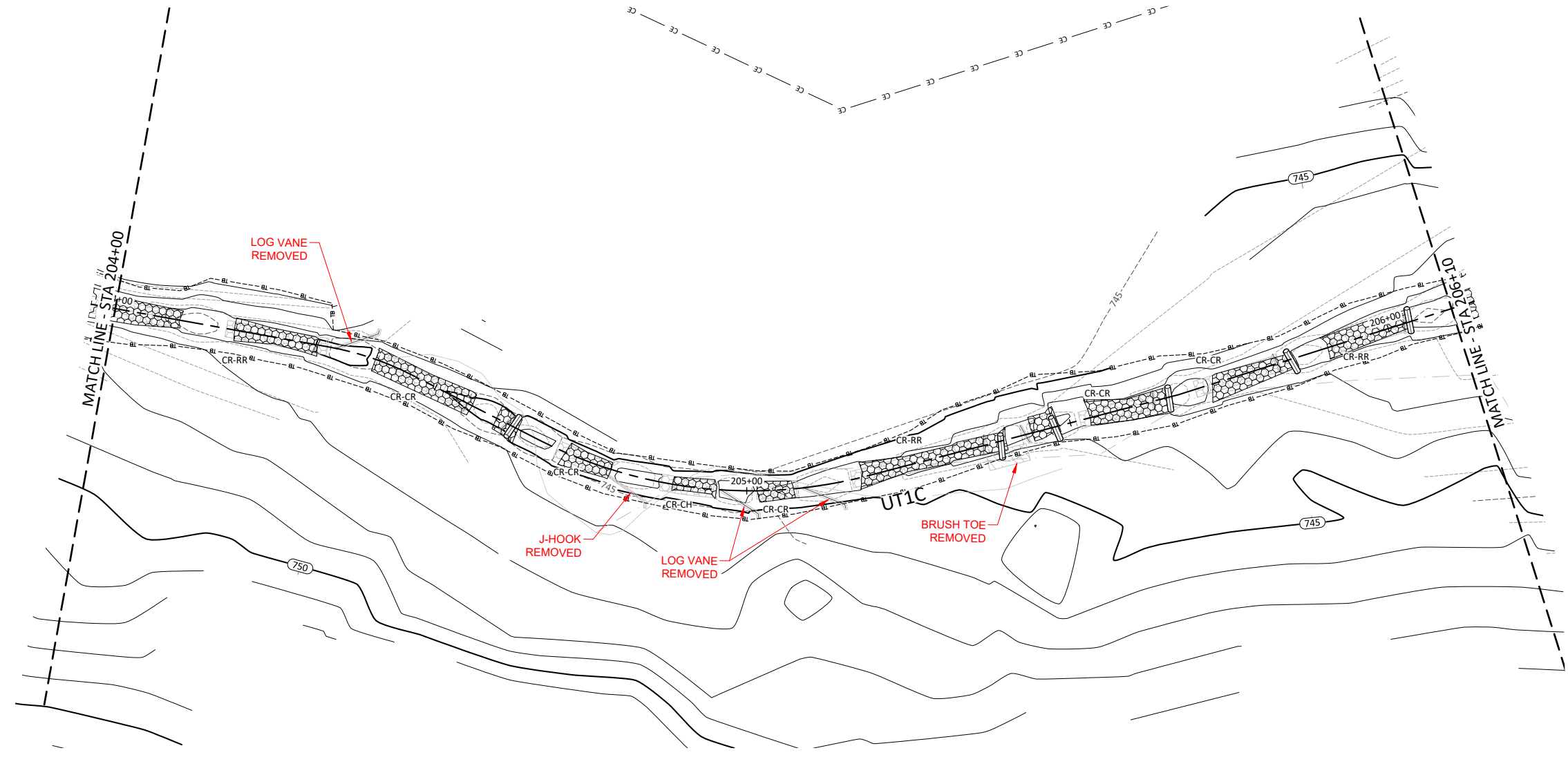
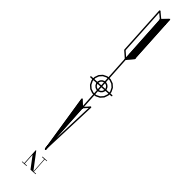
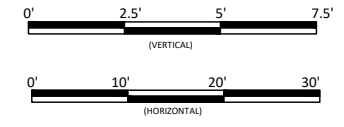
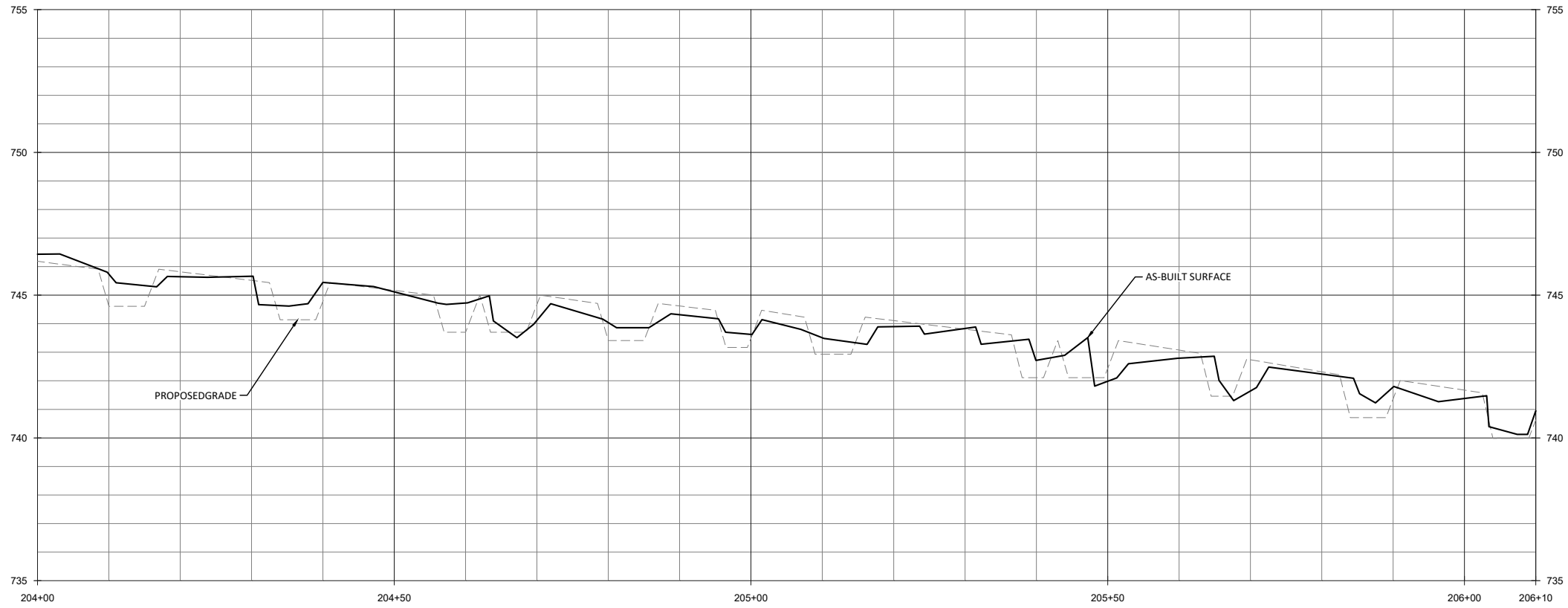
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Date:	May 3, 2017
Job Number:	005-02145
Project Engineer:	ASE
Drawn By:	SJD
Checked By:	IL

# 2.2.2

Sheet

May 3, 2017  
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Revisions:

No.	Description

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

2.2.3

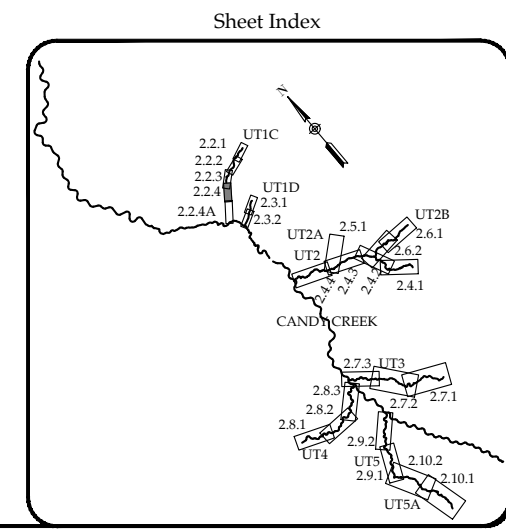
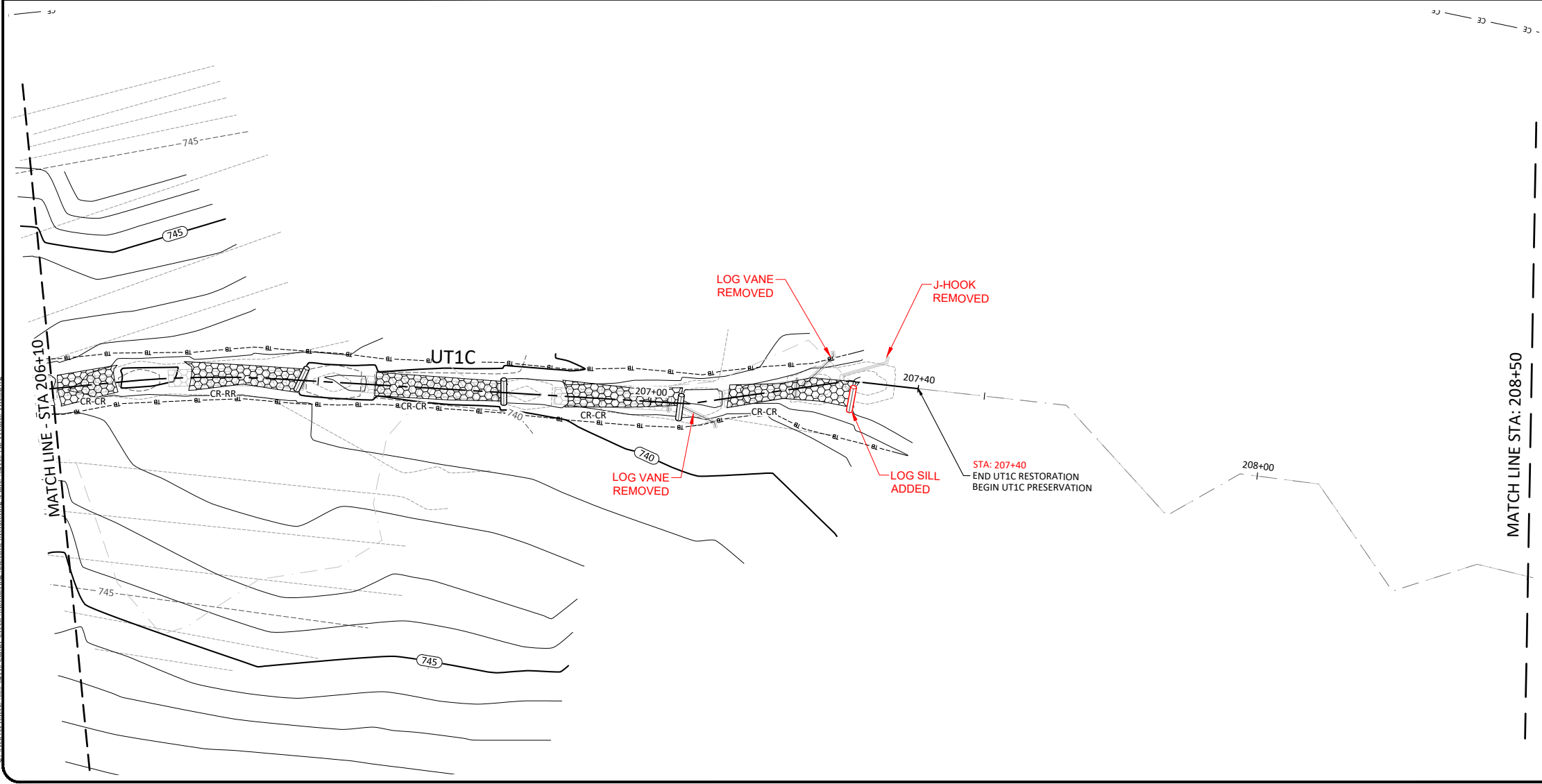
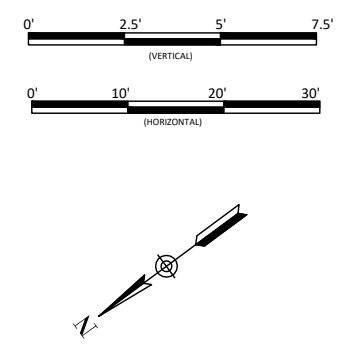
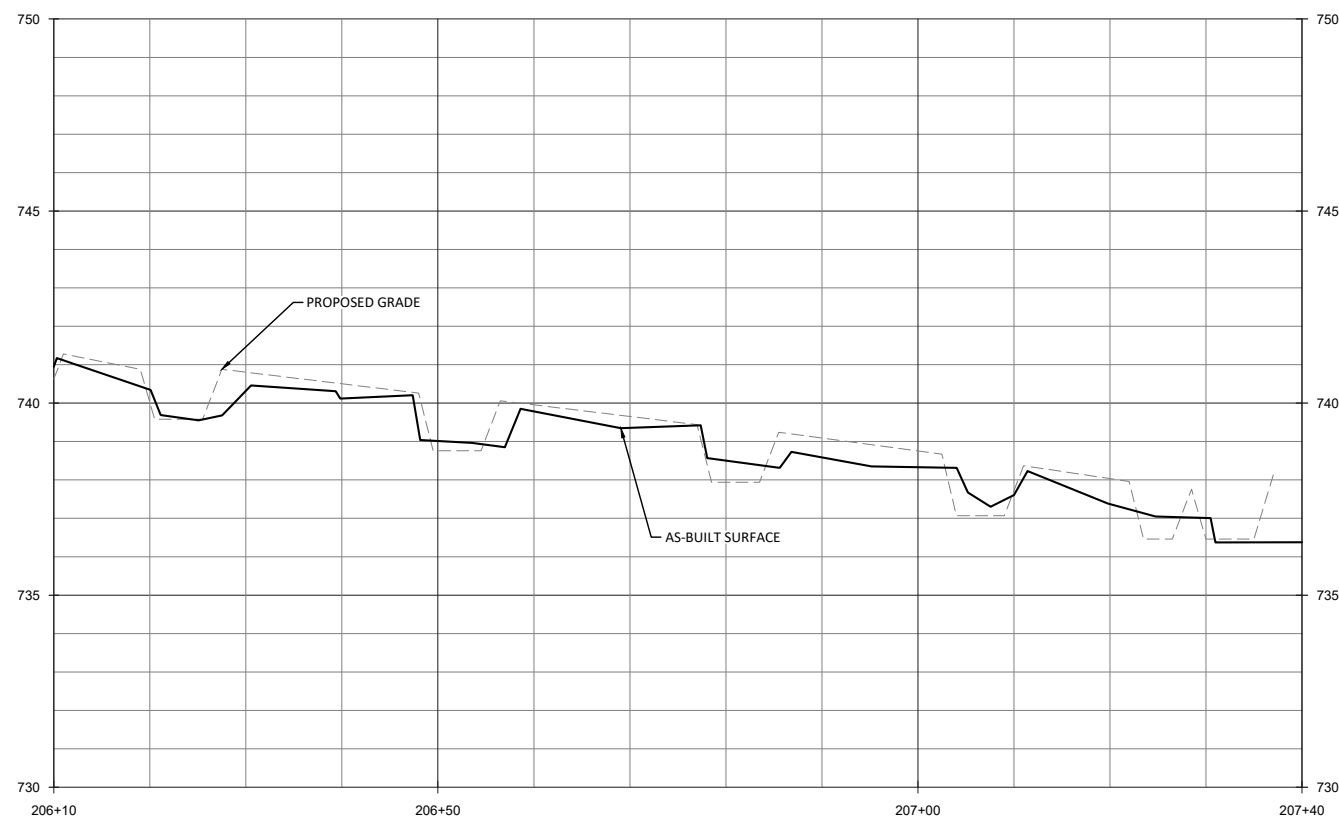
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**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**

UTIC  
 Stream Plan and Profile

**WILDLANDS**  
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 CHARLOTTE, NC 28203  
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 Fax: 704.332.3306  
 Firm License No. F-0831

May 3, 2017  
 O:\ActiveProjects\005-02145 Candy Creek Monitoring\Baseline-Monitoring-Plans\02145-AP-Profiles-Trib-Ar



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 1450 WILSON DRIVE  
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 FIRM LICENSE NO. F-0831

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT1C  
 Stream Plan and Profile

Revisions:

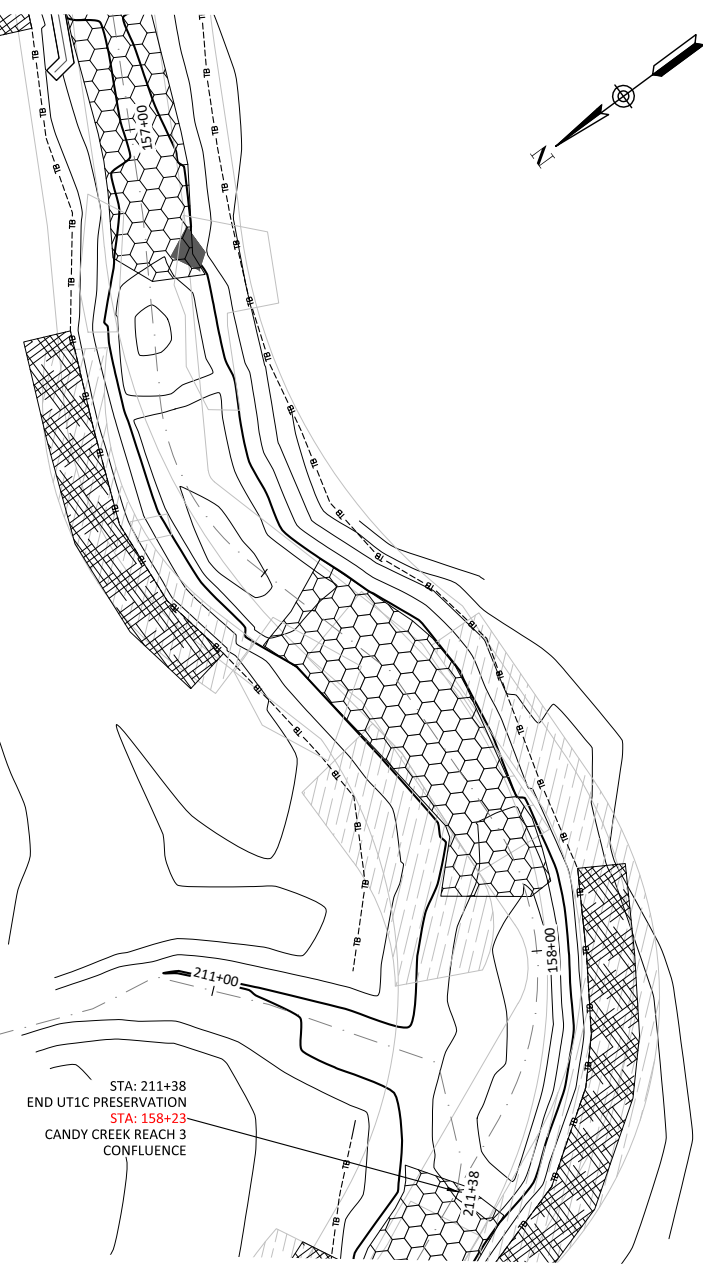

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.2.4**

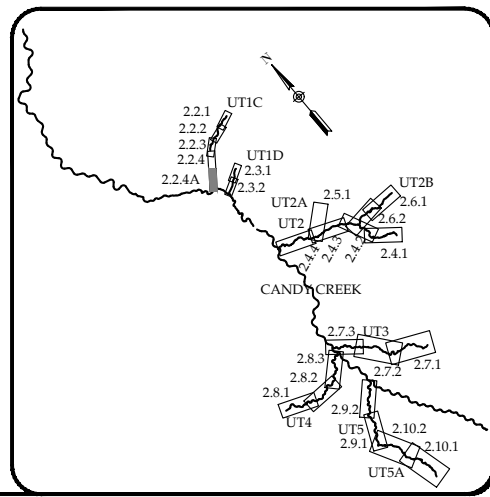
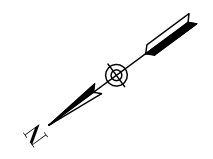
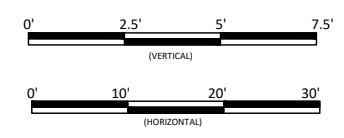
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May 3, 2017



STA: 211+38  
 END UT1C PRESERVATION  
 STA: 158+23  
 CANDY CREEK REACH 3  
 CONFLUENCE



Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

Revisions:


**2.2.4A**

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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

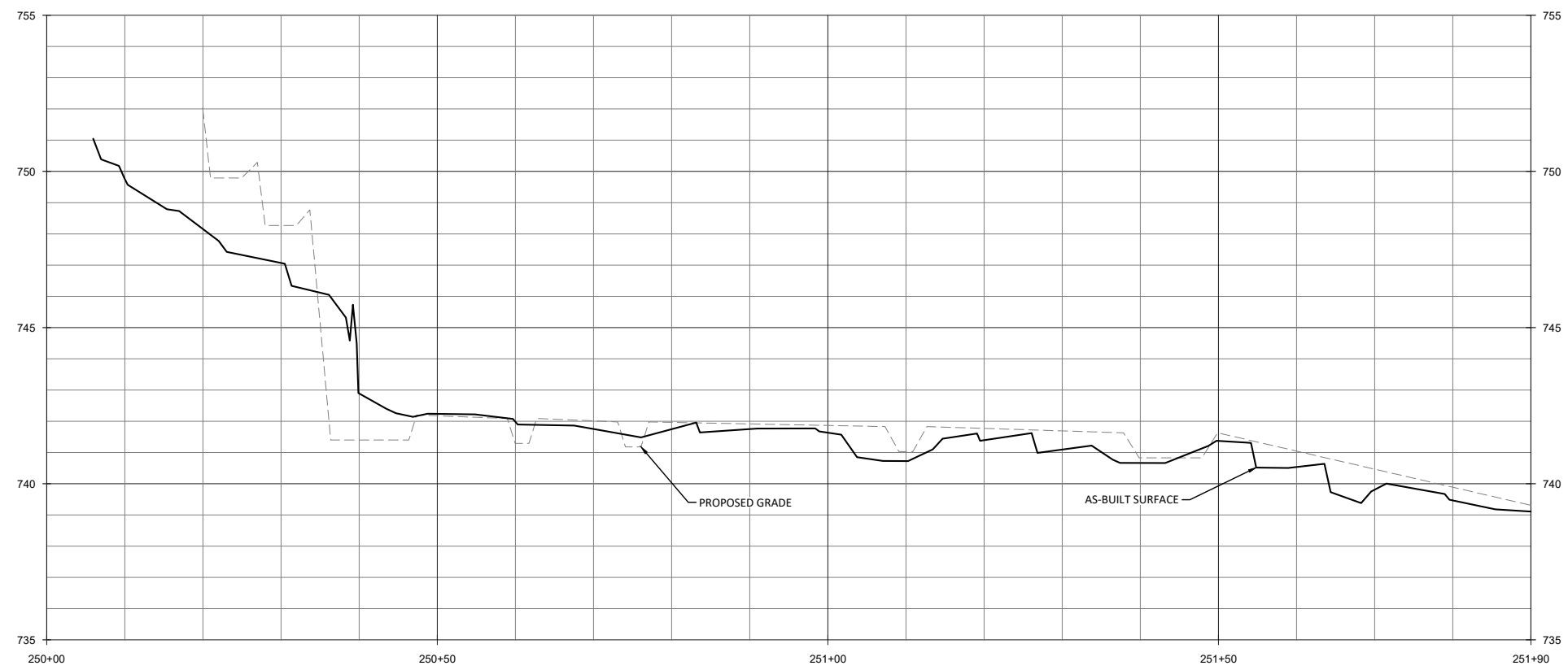
UT1C  
 Stream Plan and Profile

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 1450 N. WILSON ST.  
 CHARLOTTE, NC 28203  
 Tel: 704.332.7754  
 Fax: 704.332.3306  
 Firm License No. F-0831

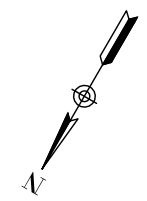
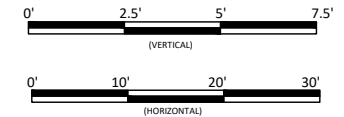


May 3, 2017

D:\ActiveProjects\005-02145 Candy Creek Monitoring\Reading\Monitoring Plans\02145-AP-Profiles-Tribes.dwg



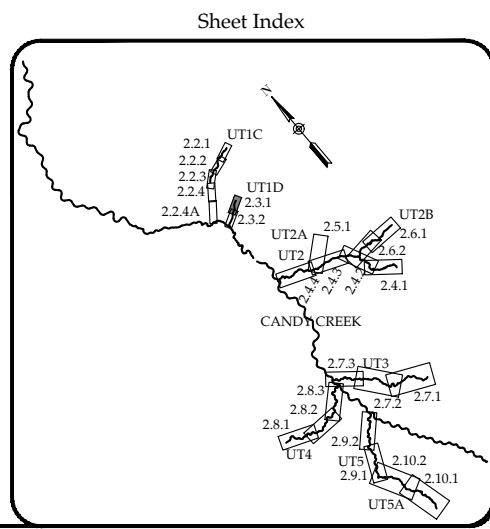
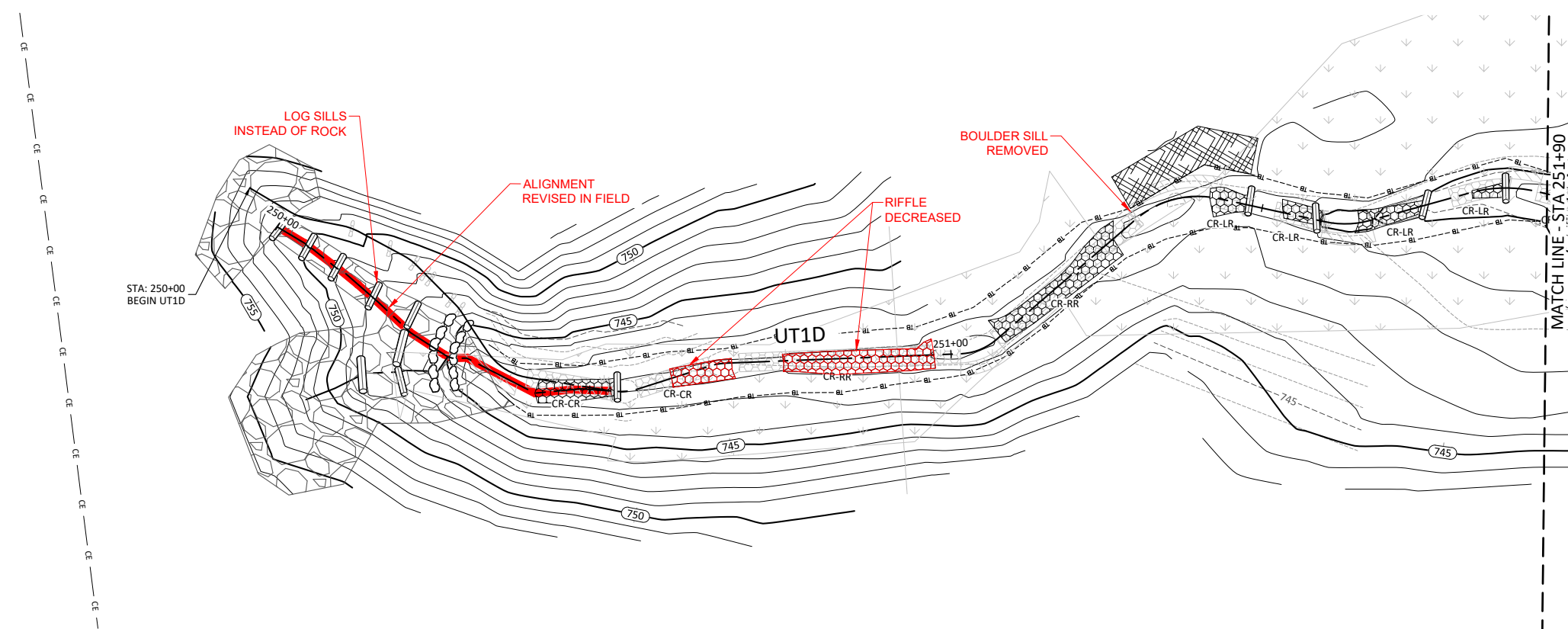
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 Firm License No. F-0831

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT1D  
 Stream Plan and Profile



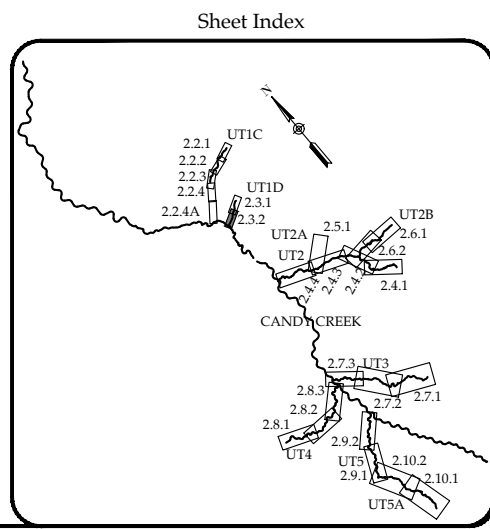
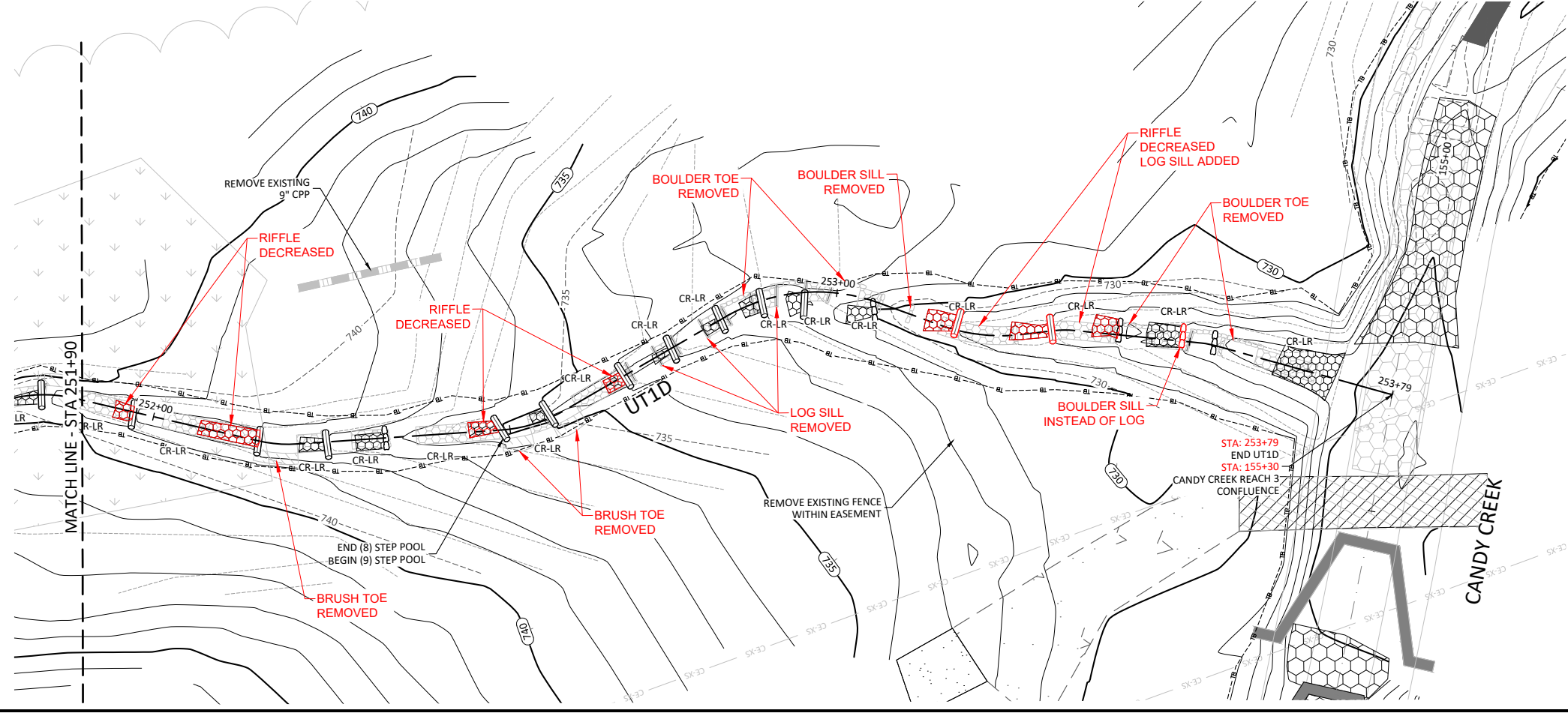
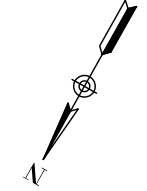
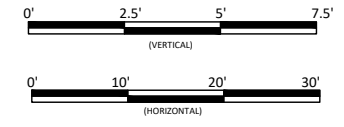
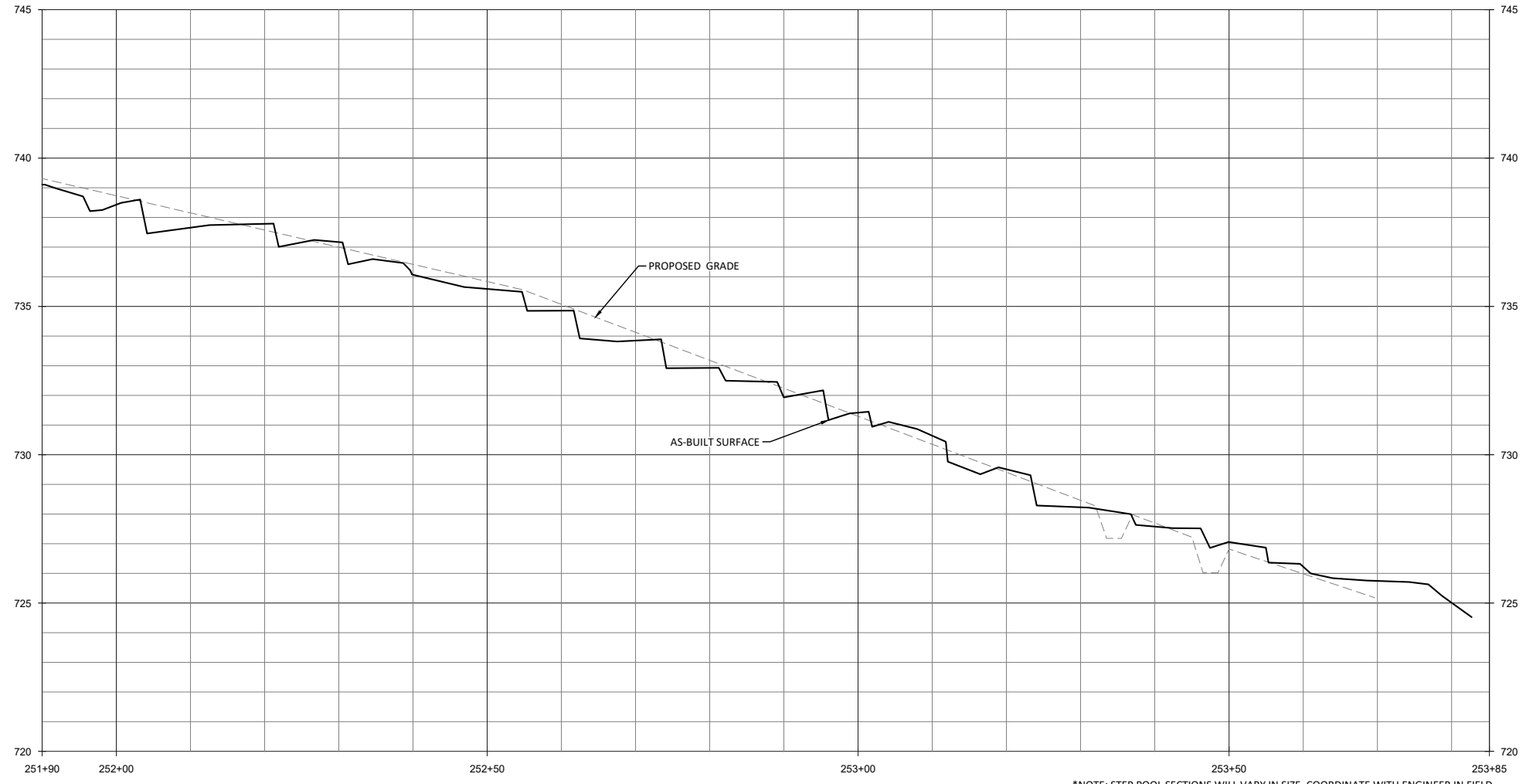
Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.3.1**

Sheet

May 3, 2017  
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Revisions:

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 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

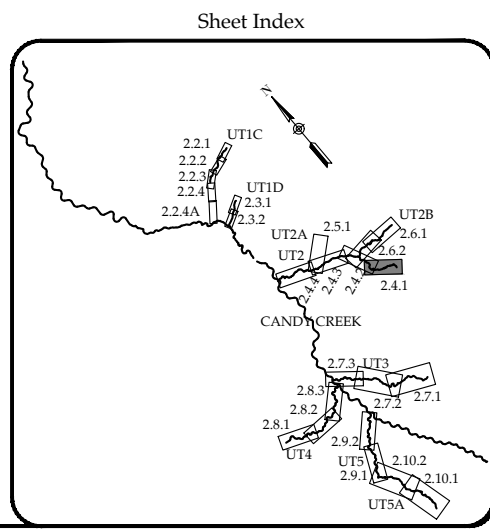
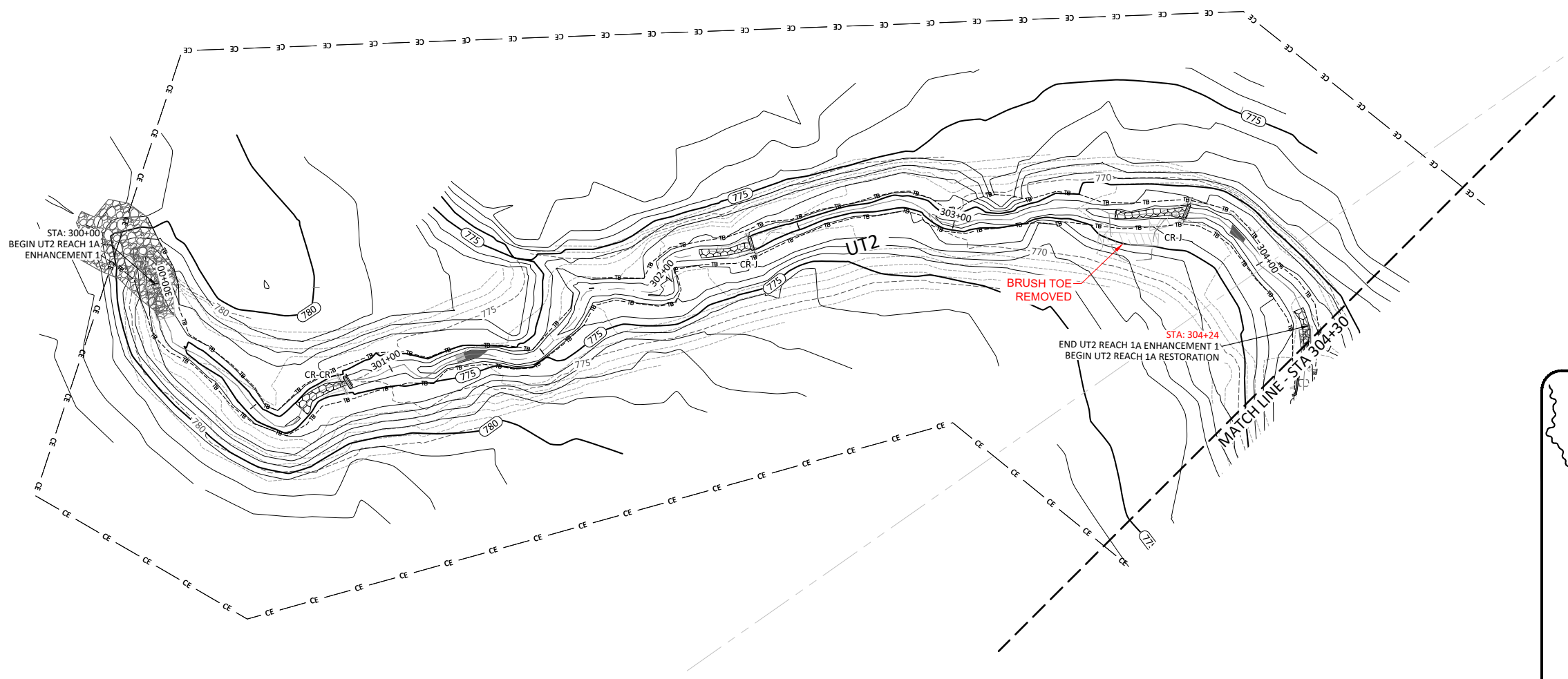
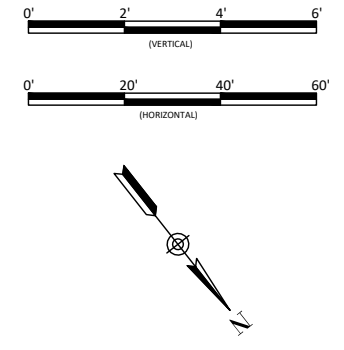
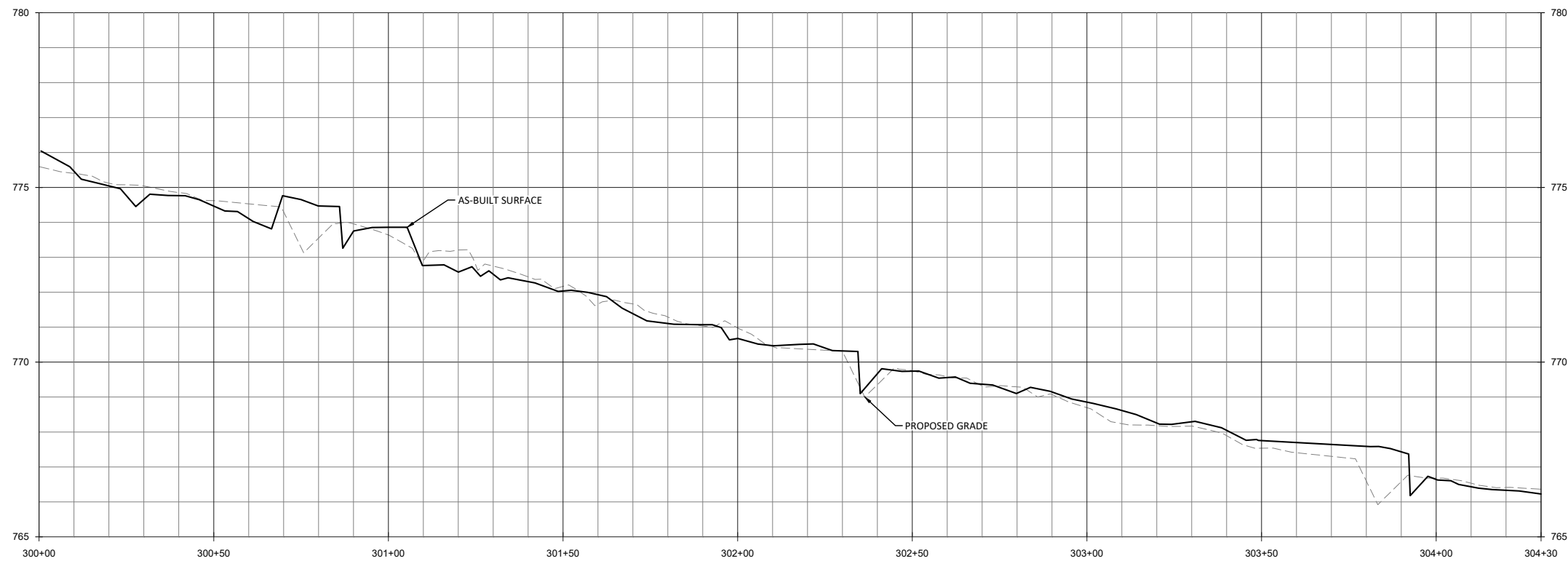
Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT1D  
 Stream Plan and Profile



2.3.2  
 Sheet

May 3, 2017  
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Revisions:


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 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

2.4.1

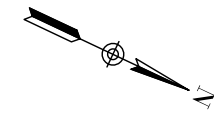
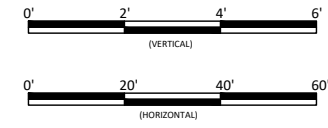
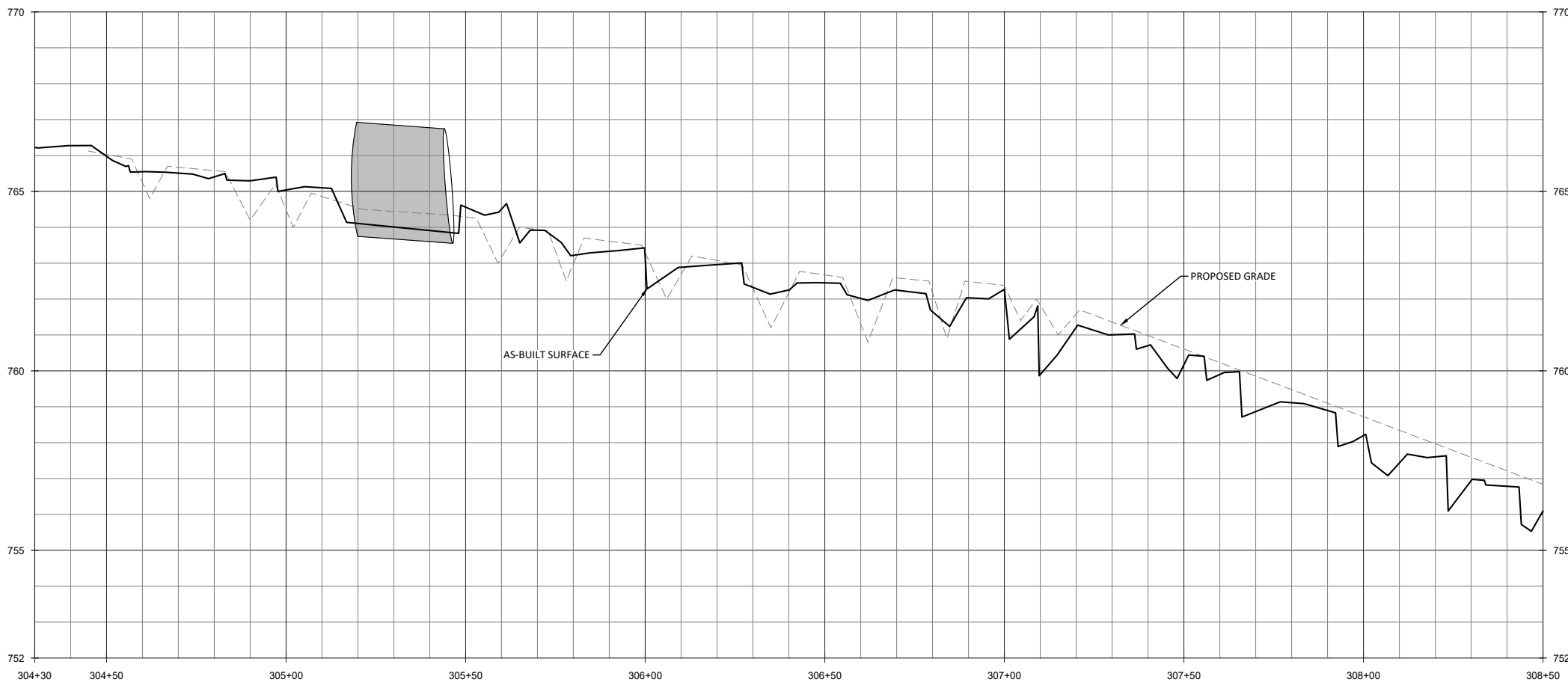
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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT2 Reach 1A  
 Stream Plan and Profile

**WILDLANDS**  
 LANDSCAPE ARCHITECTURE  
 1450 N. WILSON ST.  
 CHARLOTTE, NC 28203  
 Tel: 704.332.7754  
 Fax: 704.332.3306  
 Firm License No. F-0831

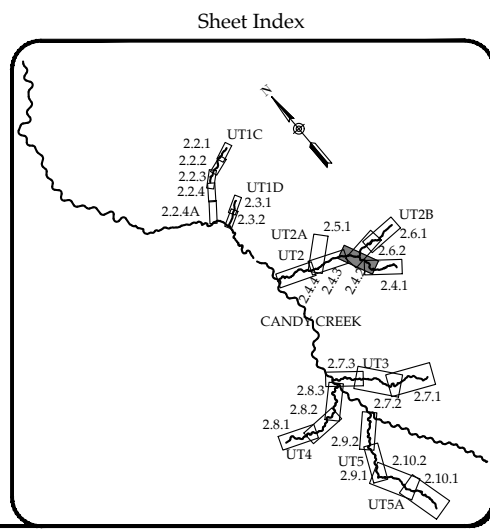
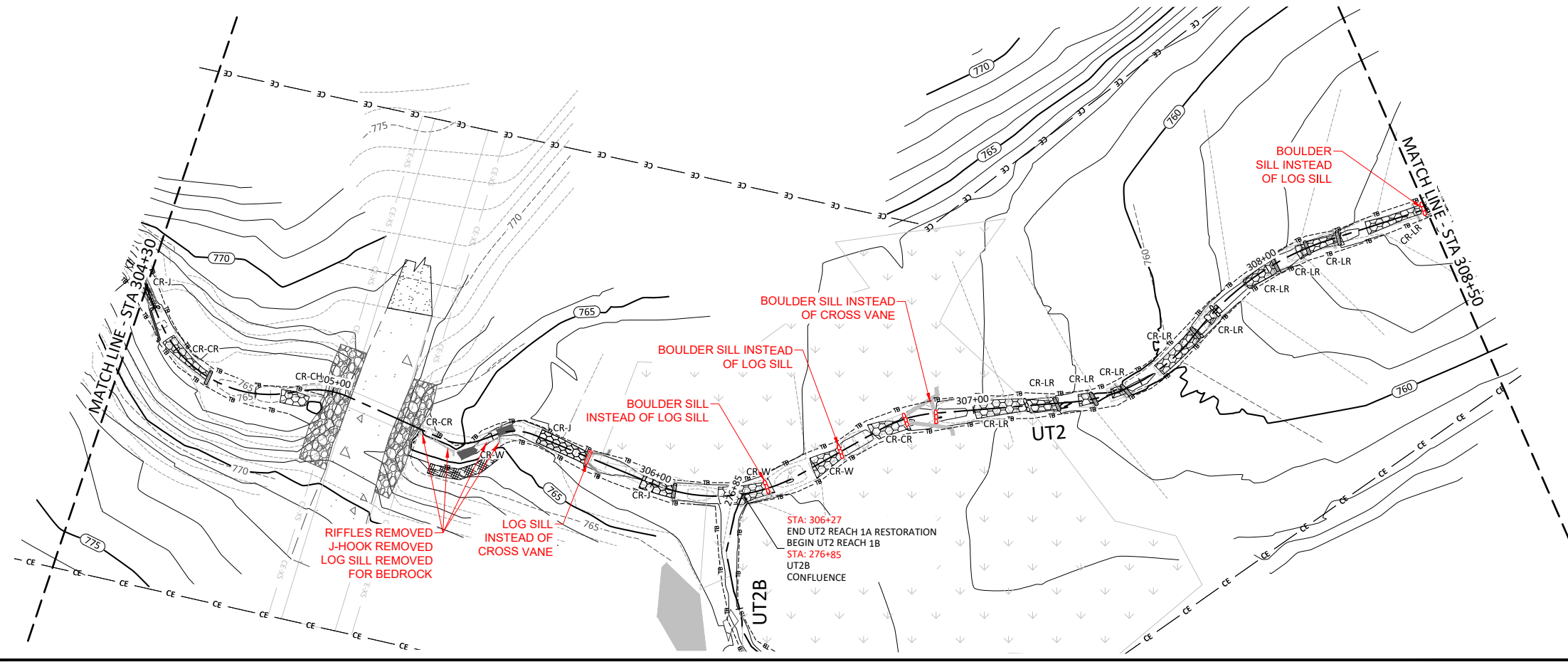
May 3, 2017



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 1455 WILSON DRIVE  
 CHARLOTTE, NC 28203  
 Tel: 704.332.7754  
 Fax: 704.332.3306  
 Firm License No. F-0831

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT2 Reach 1A & 1B  
 Stream Plan and Profile



Revisions:

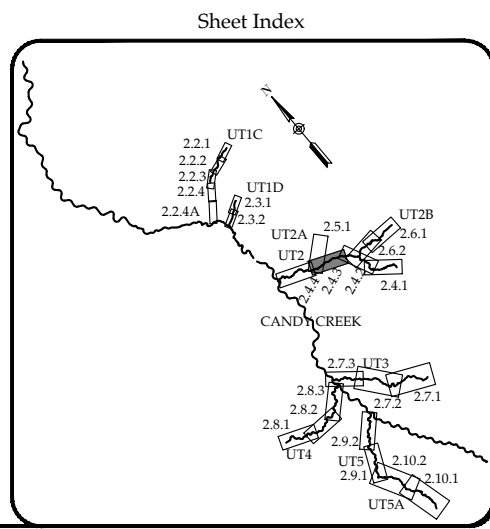
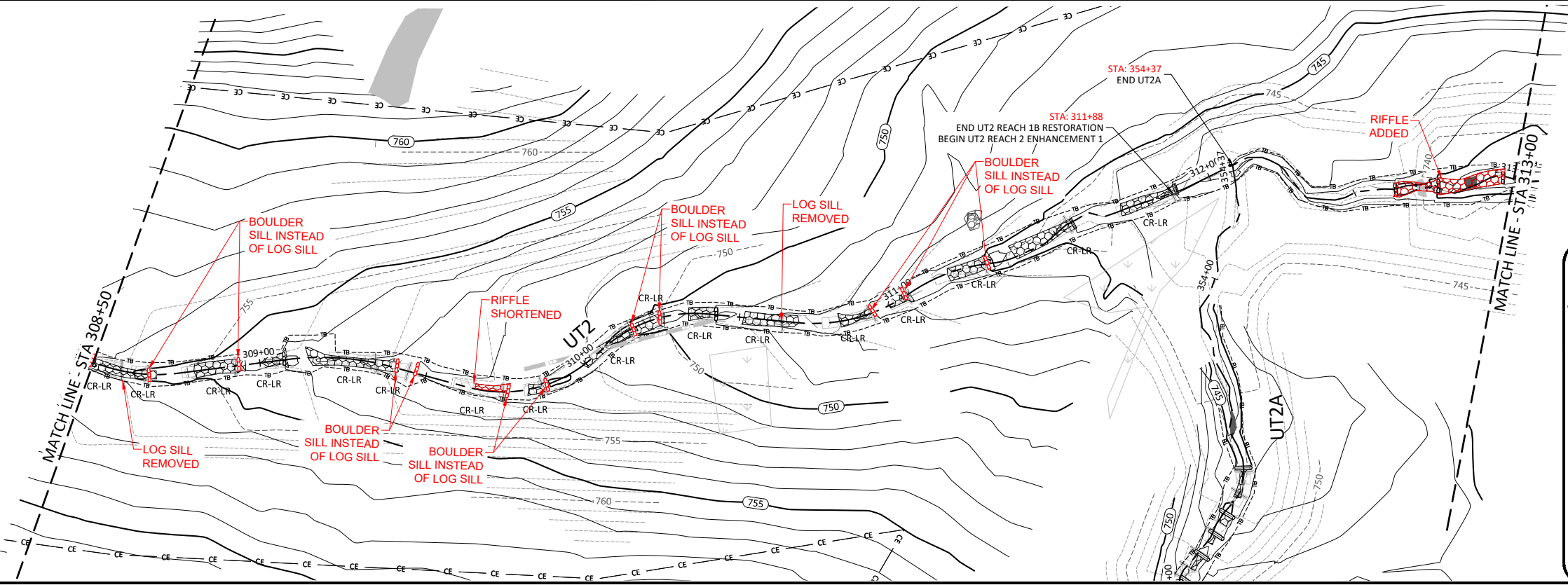
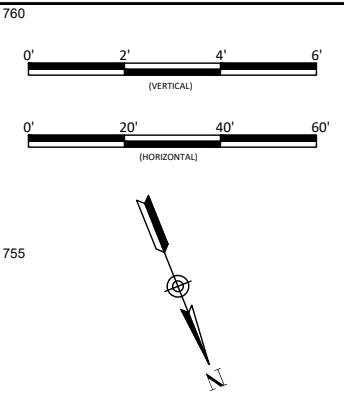
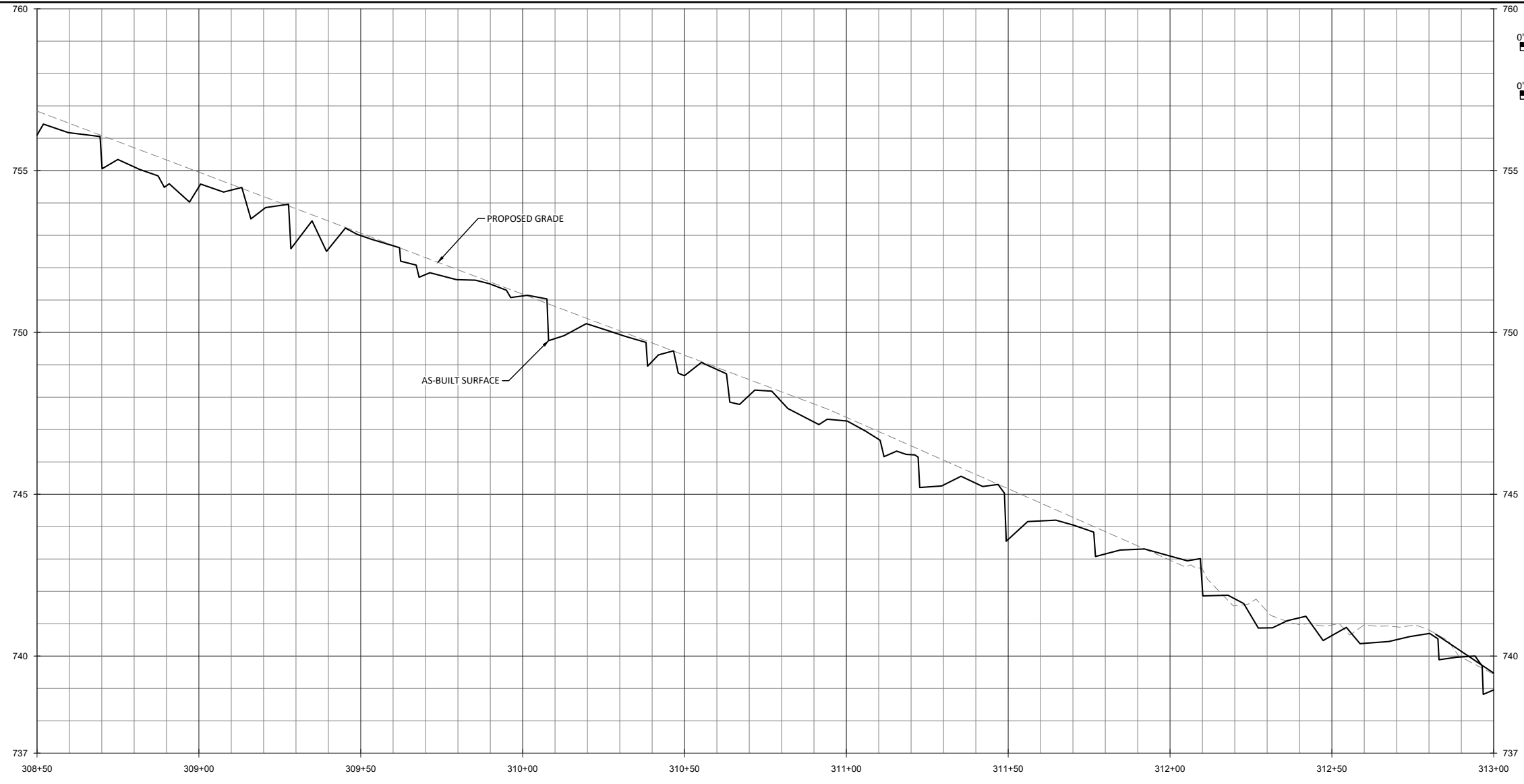

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: IL

**2.4.2**

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May 3, 2017  
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**WILDLANDS**  
LANDSCAPE ARCHITECTURE  
1455 CHARLOTTE AVENUE, SUITE 104  
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Tel: 704.332.7754 Fax: 704.332.3306  
Firm License No. F-0831

Candy Creek Mitigation Site-Record Drawings  
Guilford County, North Carolina

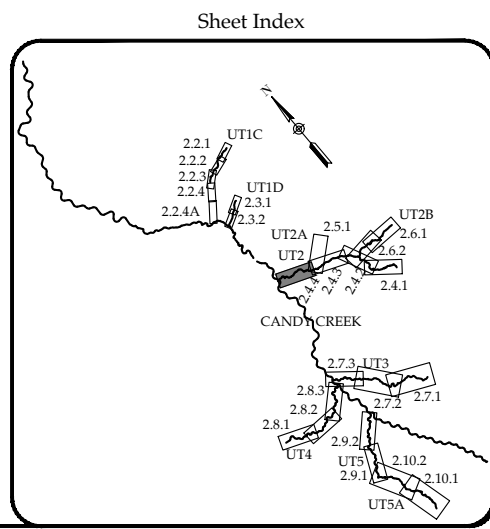
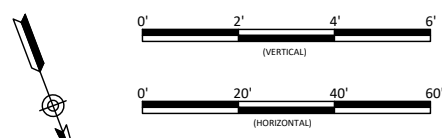
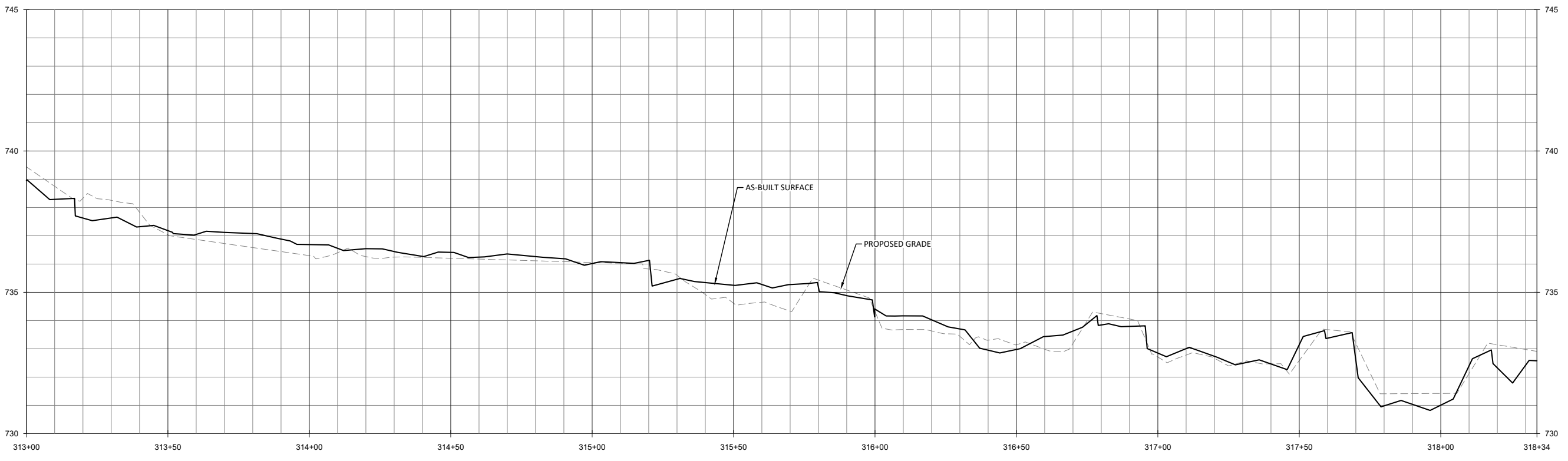
UT2 Reach 1B & 2  
Stream Plan and Profile

Revisions:

Date: May 3, 2017  
Job Number: 005-02145  
Project Engineer: ASE  
Drawn By: SID  
Checked By: IL

**2.4.3**  
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May 3, 2017  
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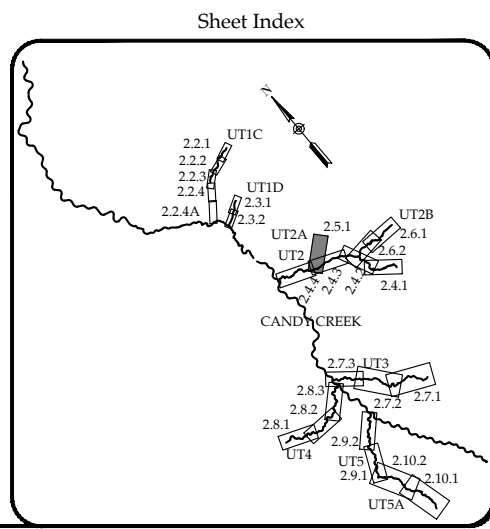
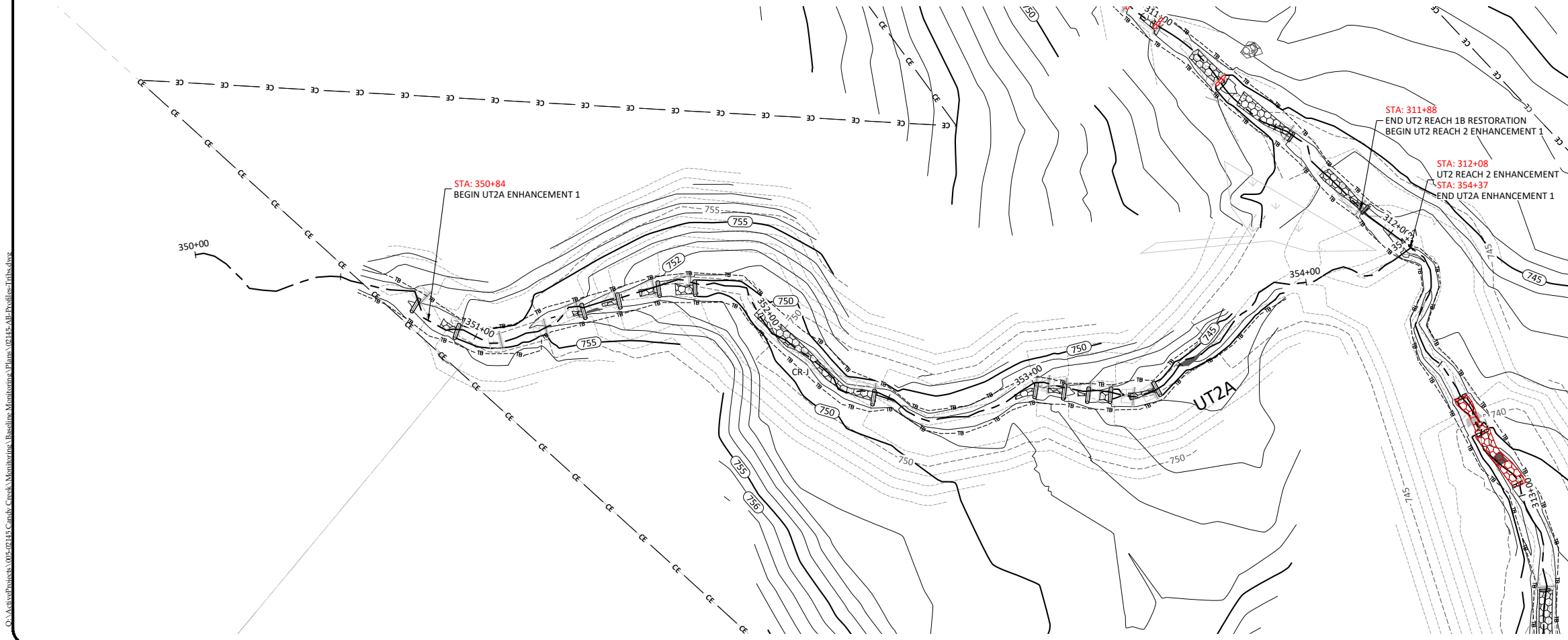
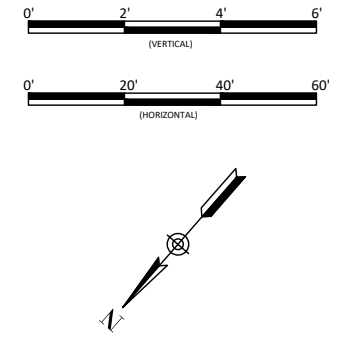
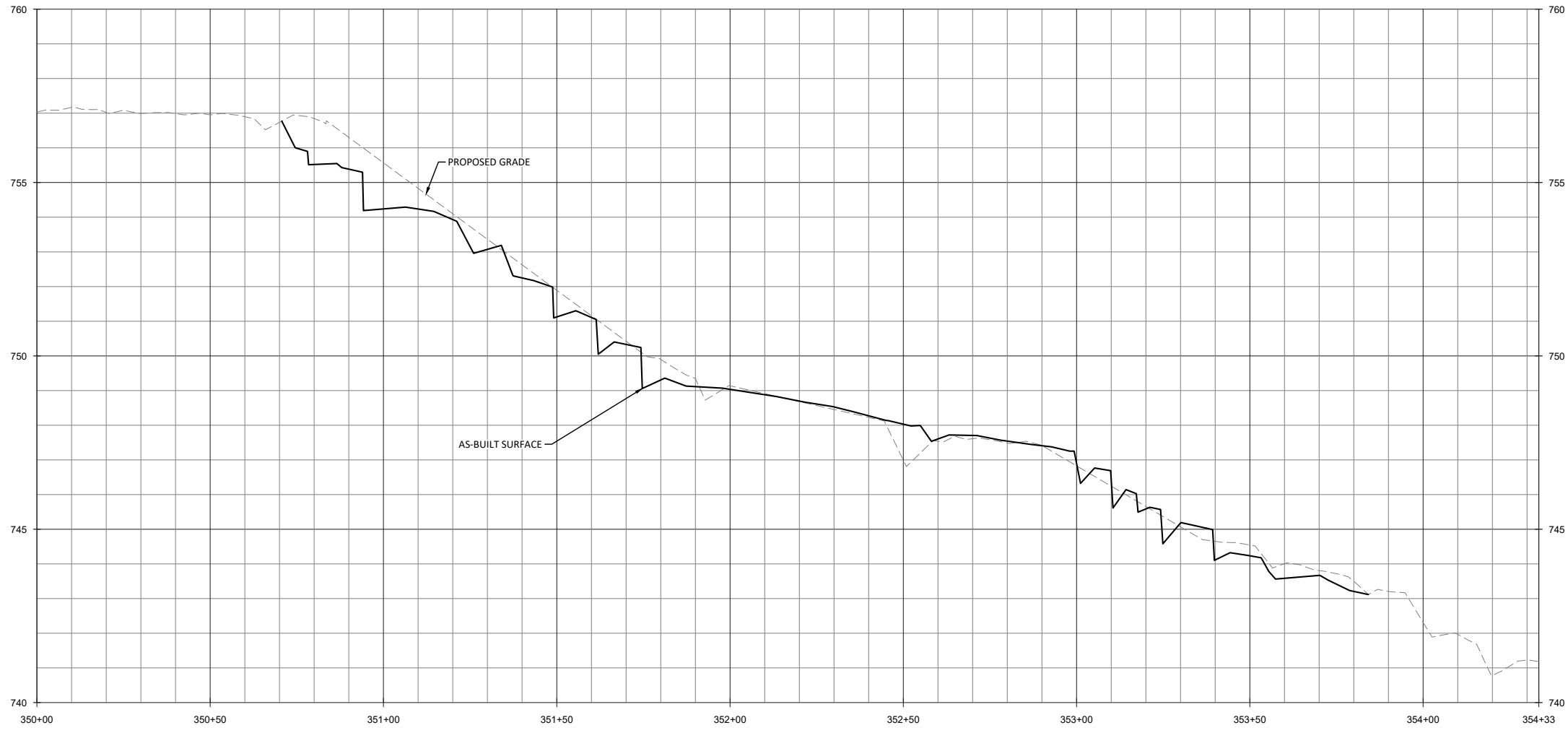
No.	Date	Description

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT2 Reach 2  
 Stream Plan and Profile

May 3, 2017



Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT2A  
 Stream Plan and Profile

Revisions:

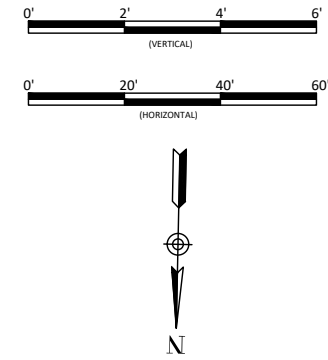
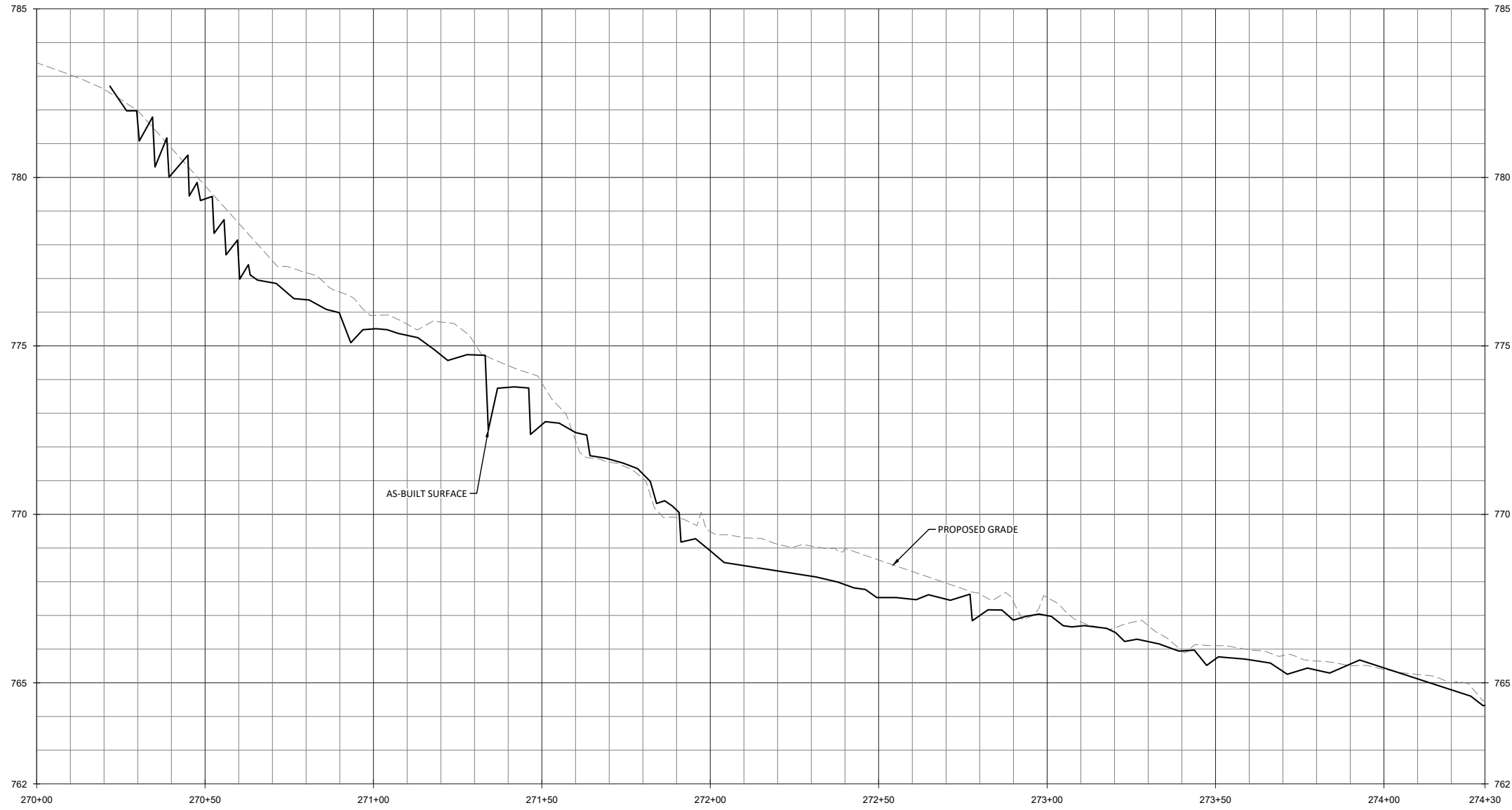

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

2.5.1

Sheet

**WILDLANDS**  
 ENVIRONMENTAL ENGINEERING  
 1455 N. WILSON ROAD  
 CHARLOTTE, NC 28203  
 Tel: 704.332.7754  
 Fax: 704.332.3306  
 Firm License No. F-0831

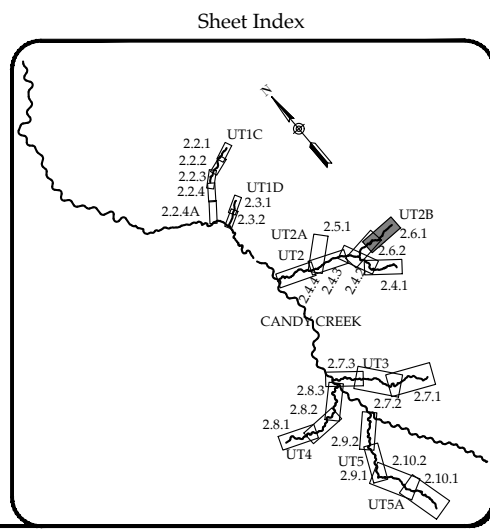
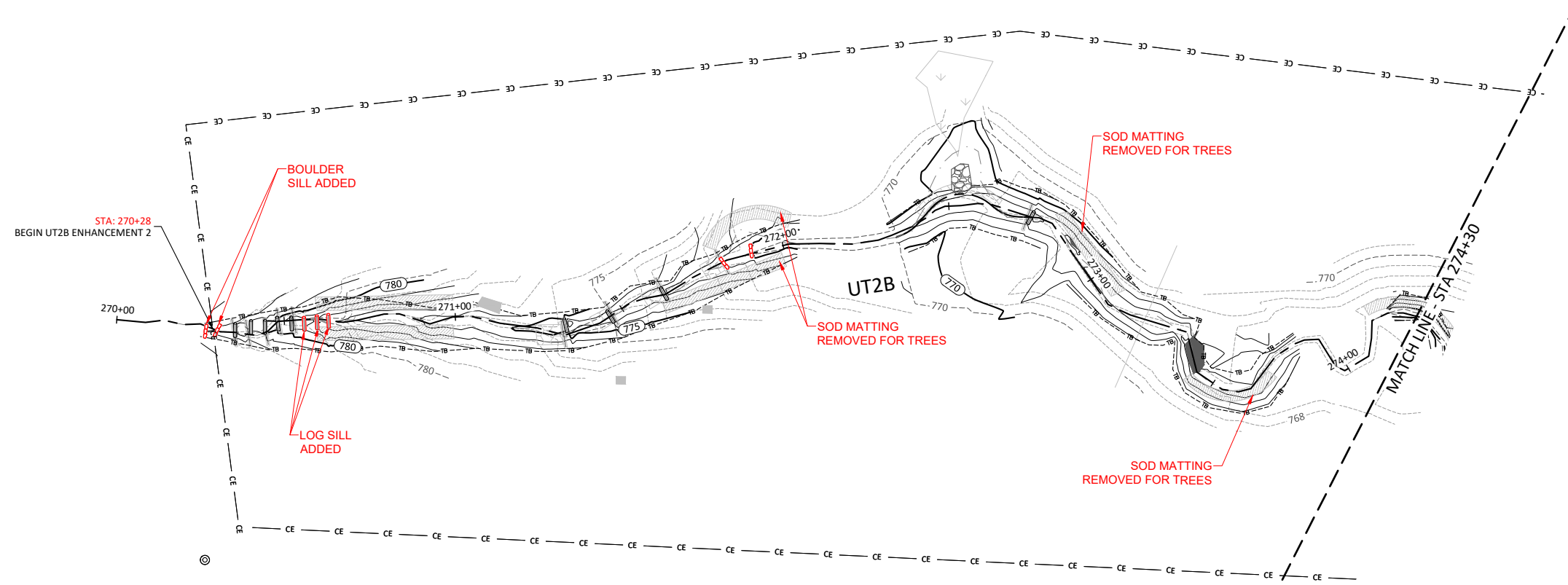
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 CHARLOTTE, NC 28203  
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 Firm License No. F-0831

Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT2B  
 Stream Plan and Profile



Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

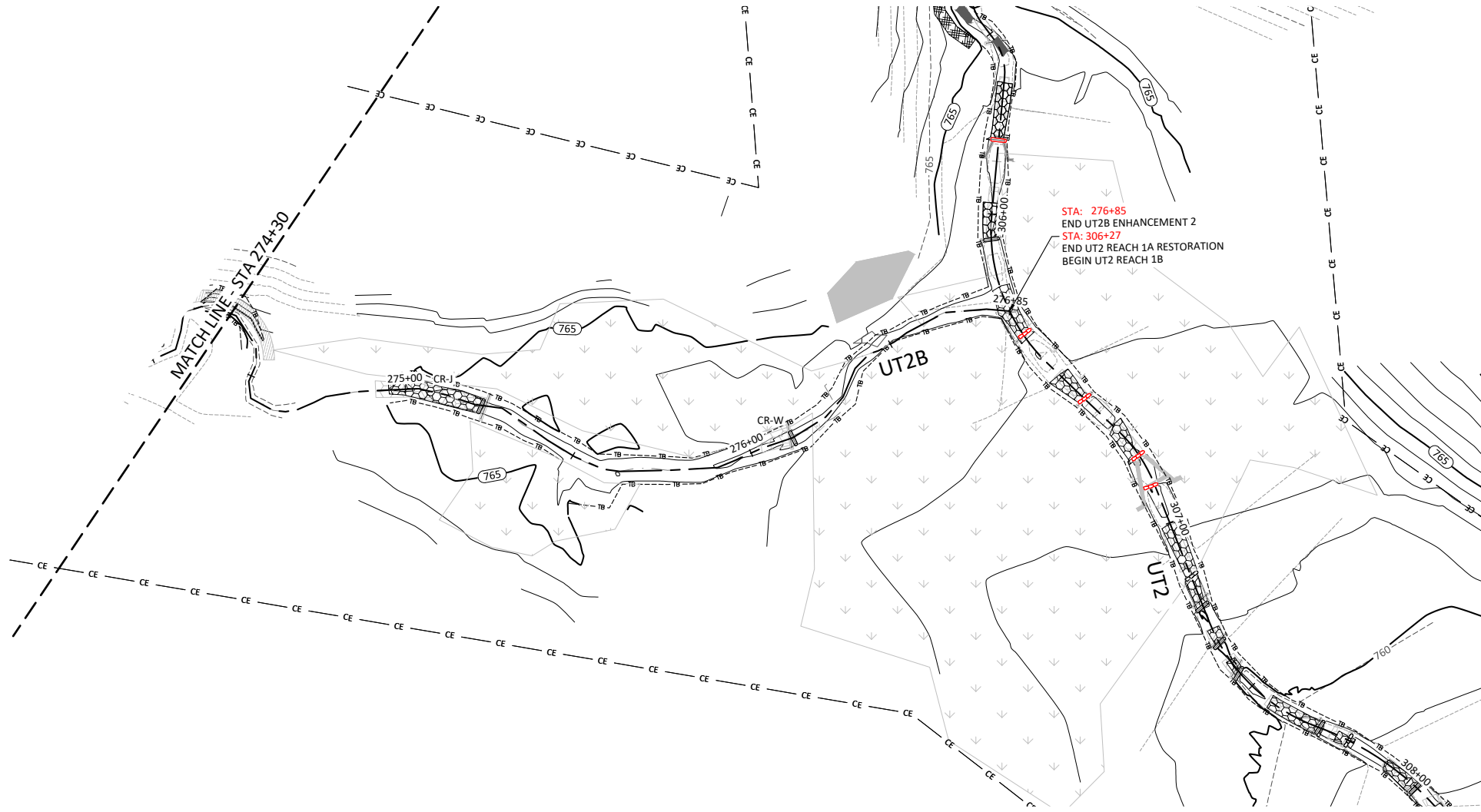
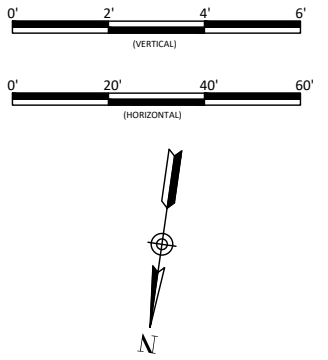
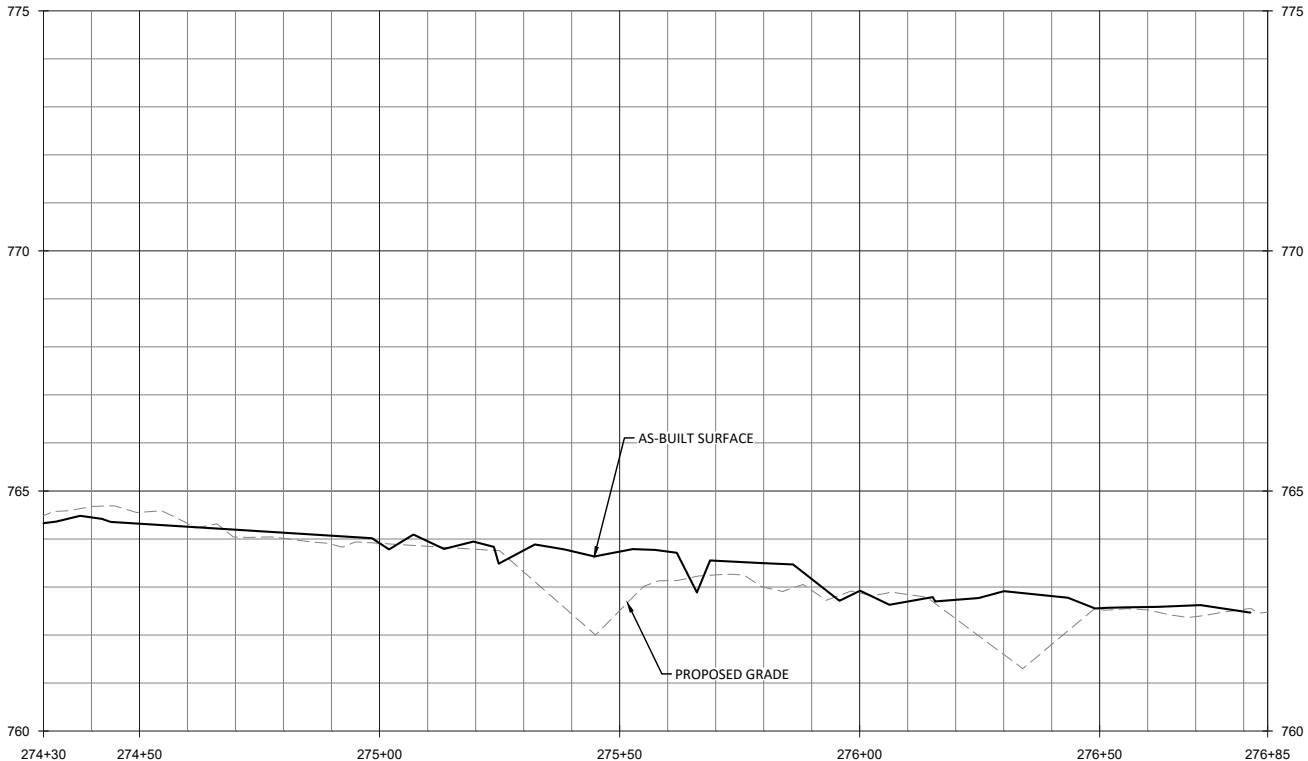
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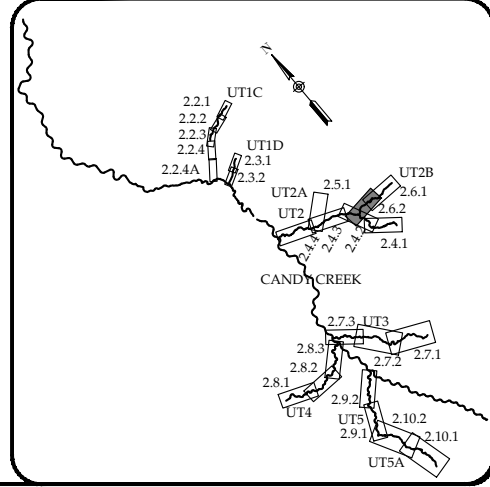


May 3, 2017

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STA: 276+85  
 END UT2B ENHANCEMENT 2  
 STA: 306+27  
 END UT2 REACH 1A RESTORATION  
 BEGIN UT2 REACH 1B



Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

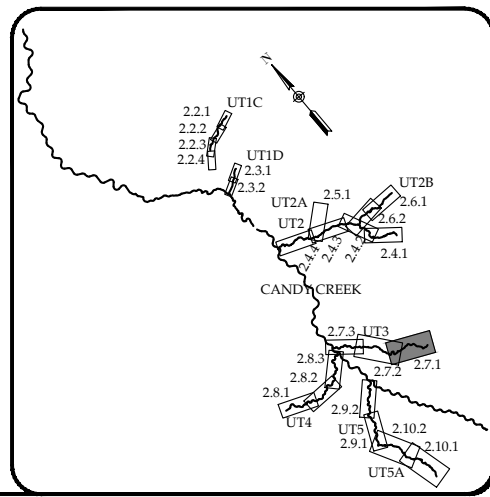
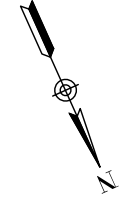
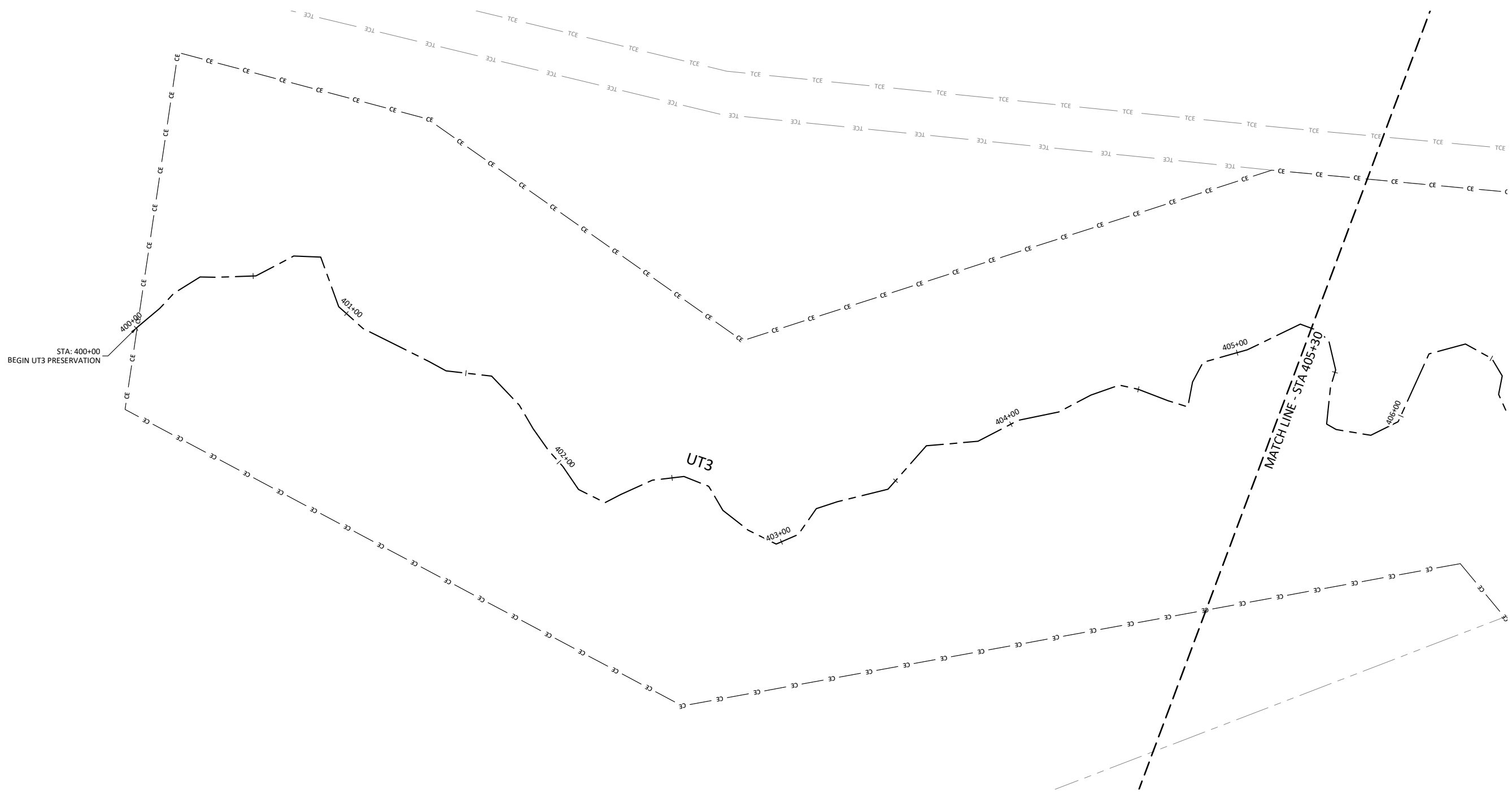
Revisions:


Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT2B  
 Stream Plan and Profile

2.6.2  
 Sheet

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 145 N. WILSON ST.  
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 Firm License No. F-0831



Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT3  
 Stream Plan and Profile

Revisions:

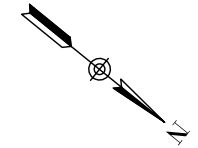
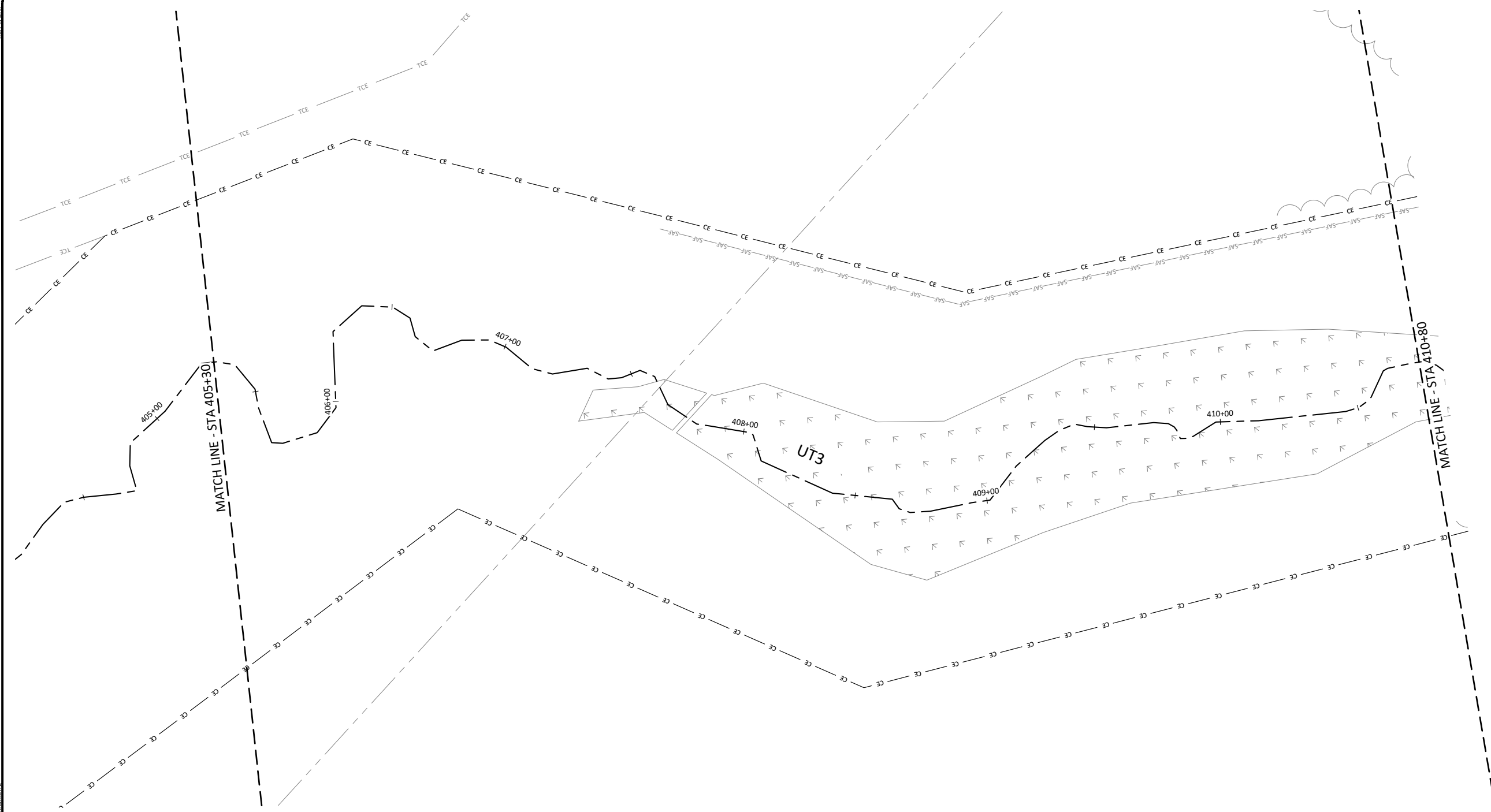

Date:	May 3, 2017
Job Number:	005-02145
Project Engineer:	ASE
Drawn By:	SJD
Checked By:	JL

2.7.1

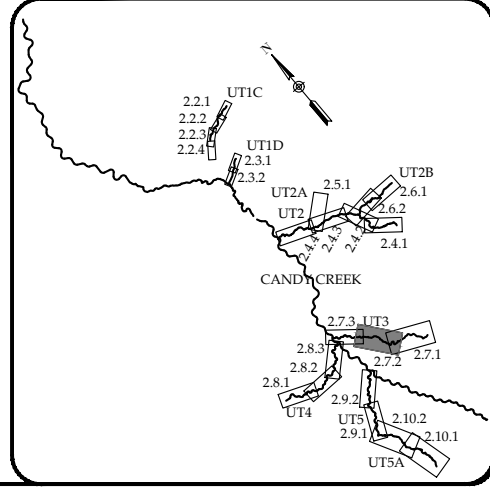
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May 3, 2017

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Sheet Index



Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT3  
 Stream Plan and Profile

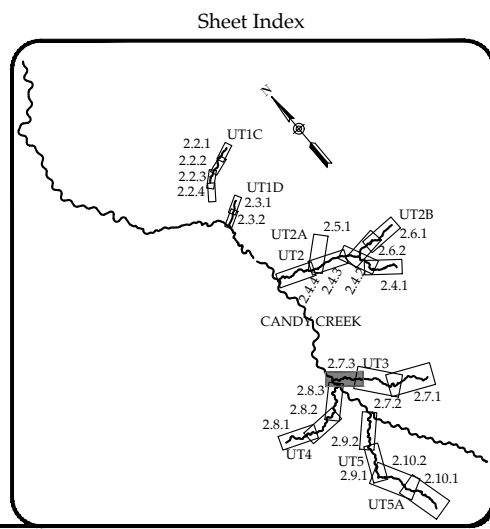
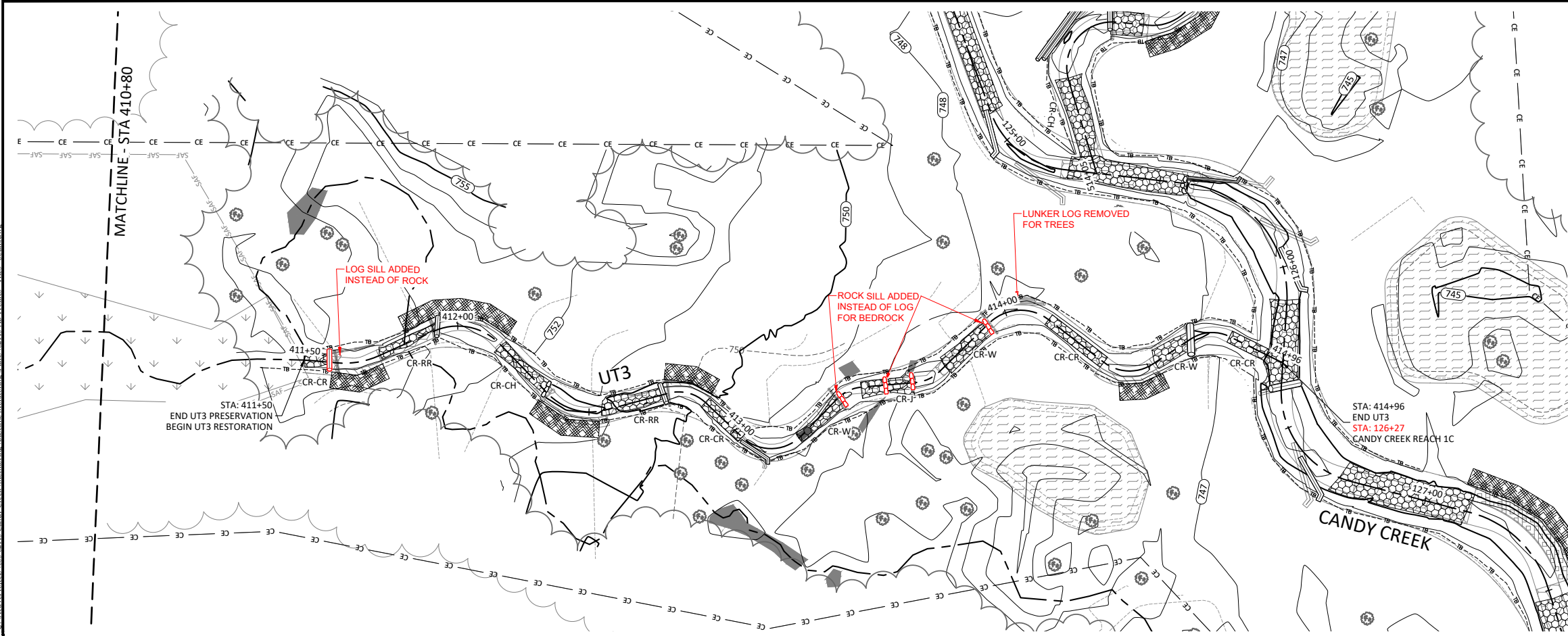
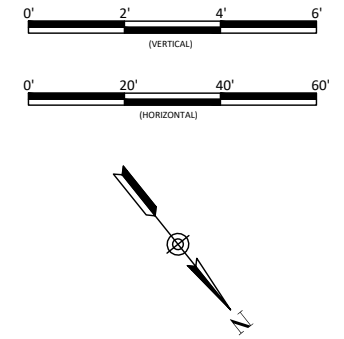
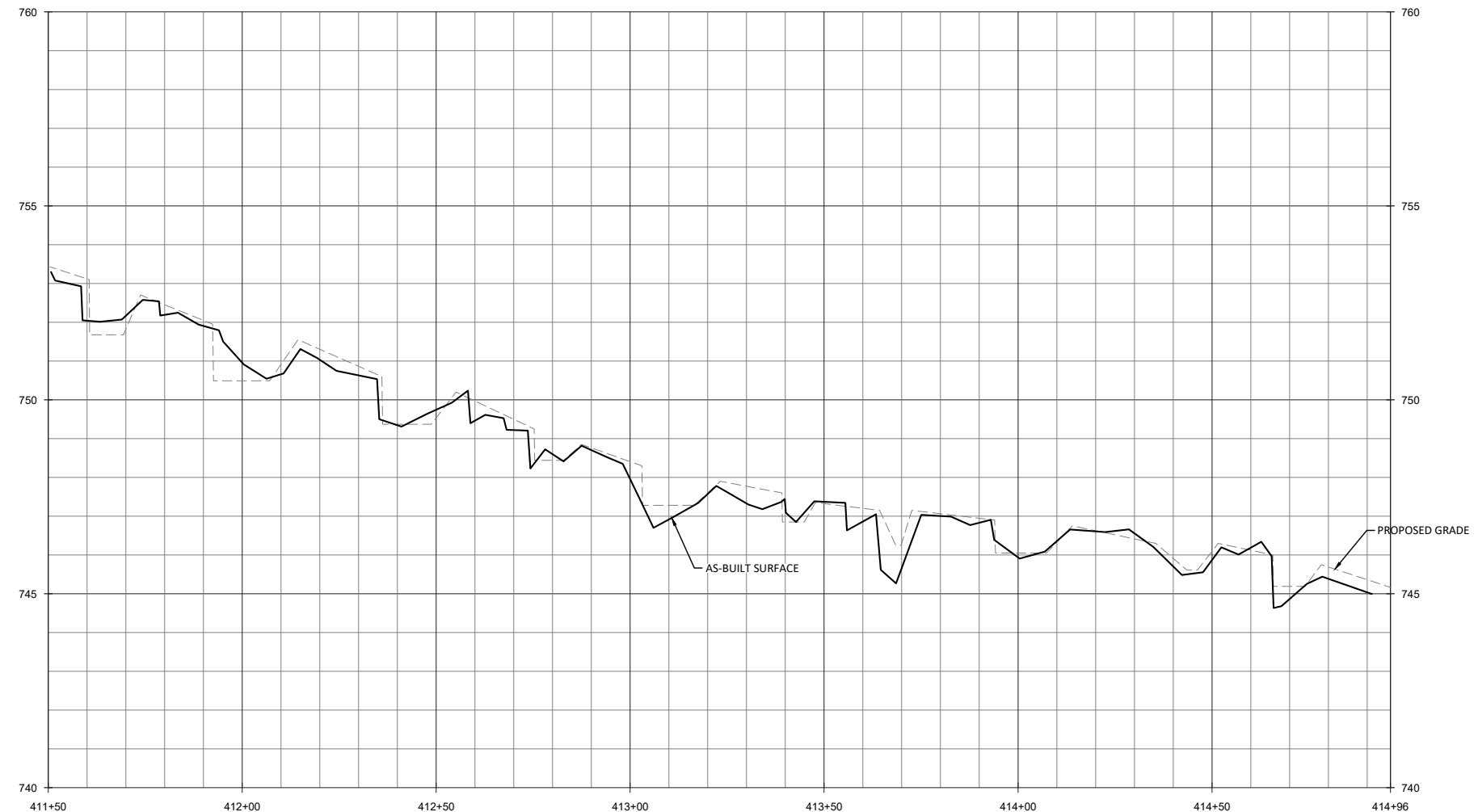
Revisions:


Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.7.2**

Sheet

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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT3  
 Stream Plan and Profile

Revisions:

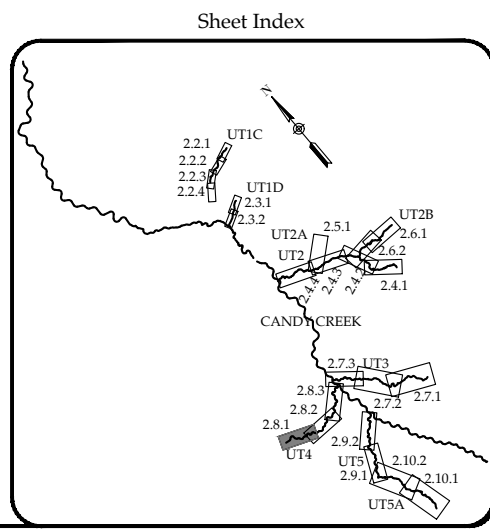
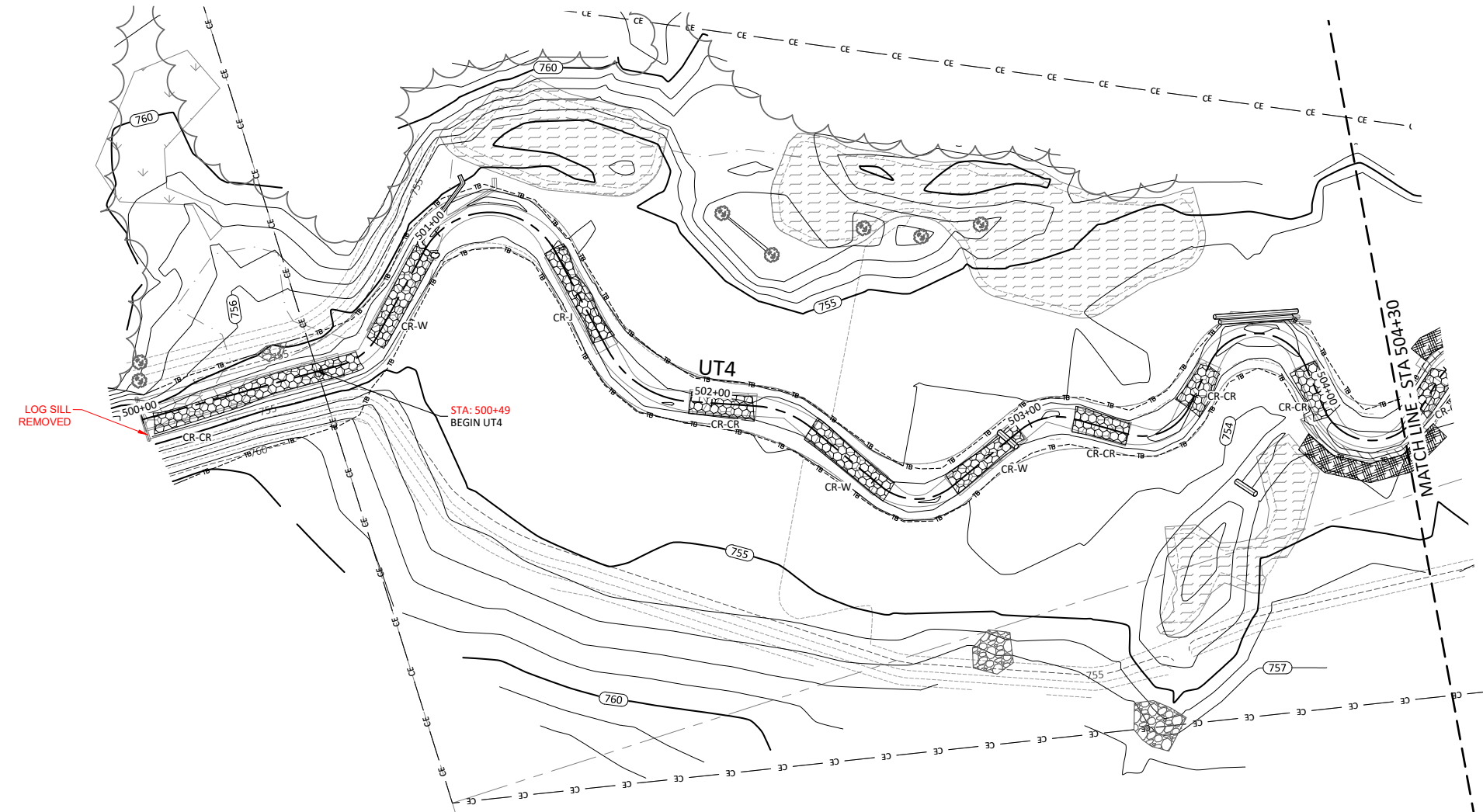
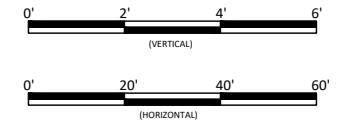
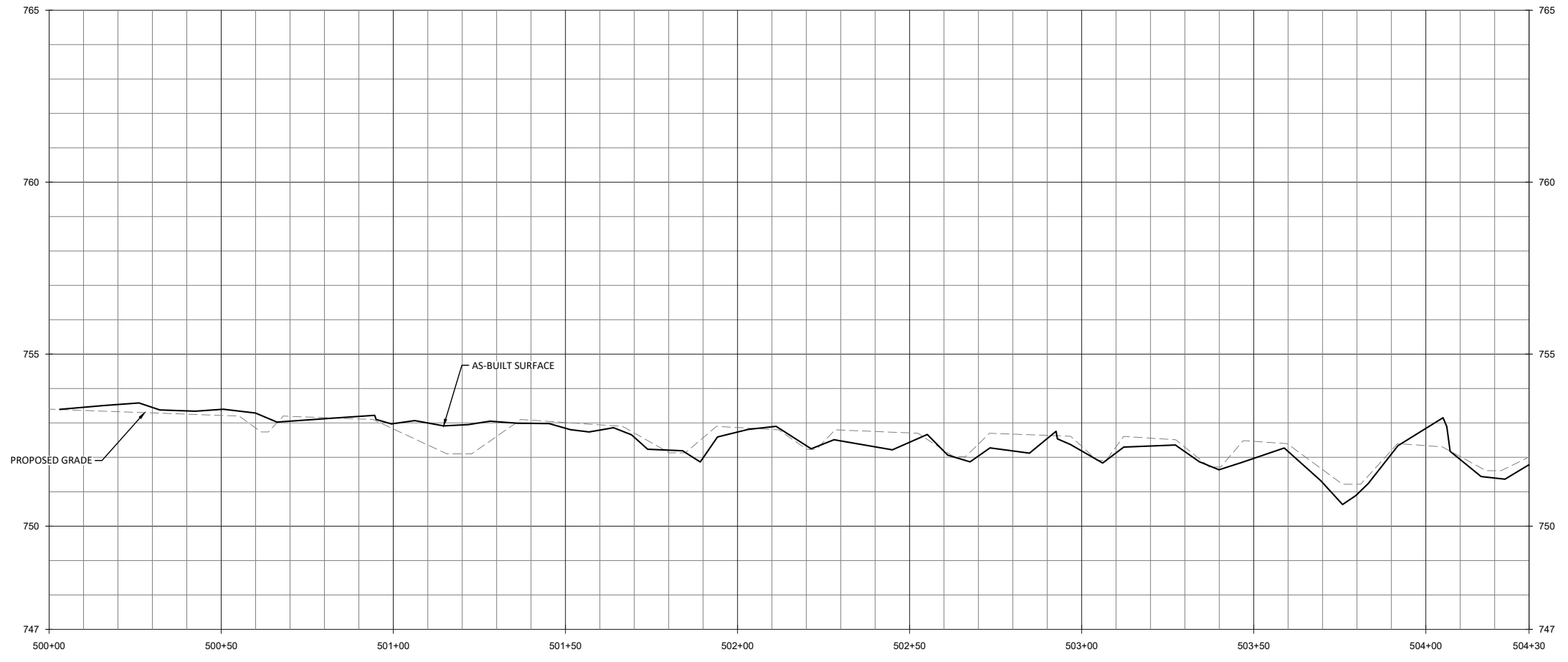

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
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 Checked By: JL

**2.7.3**

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**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**

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**UT4**  
 Stream Plan and Profile

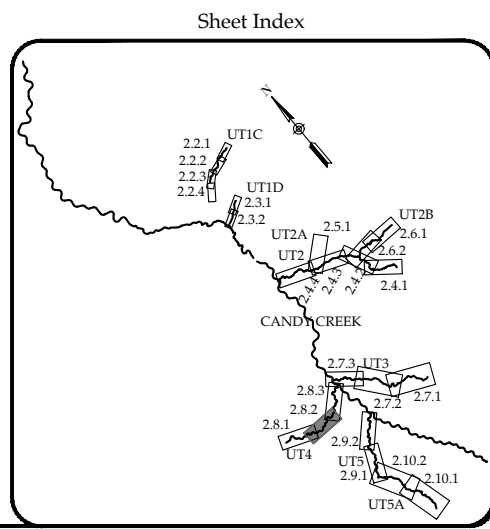
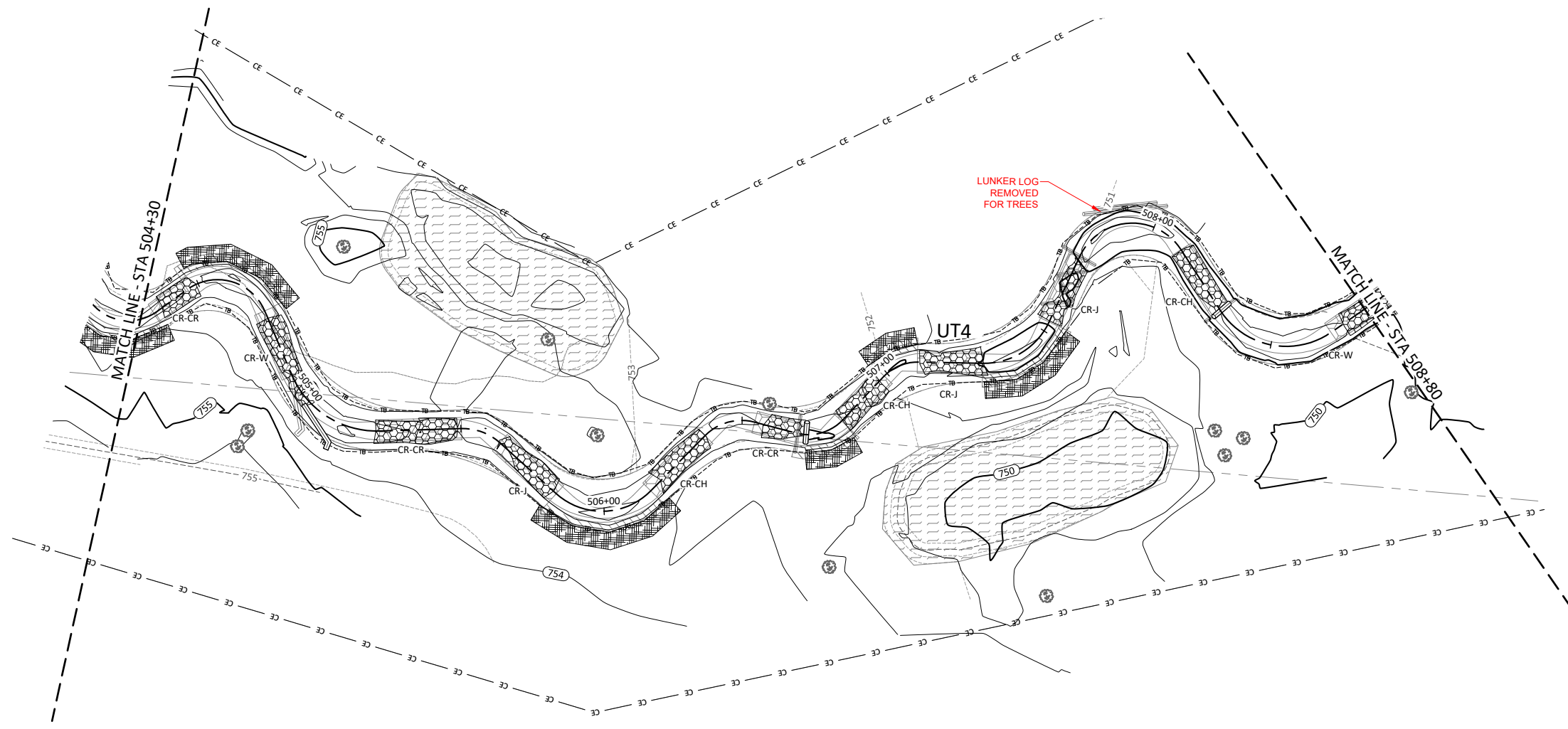
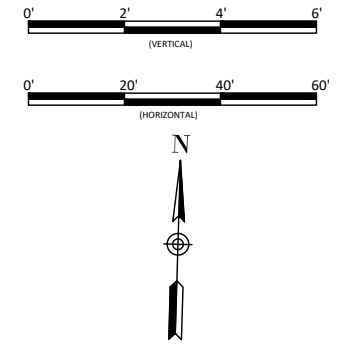
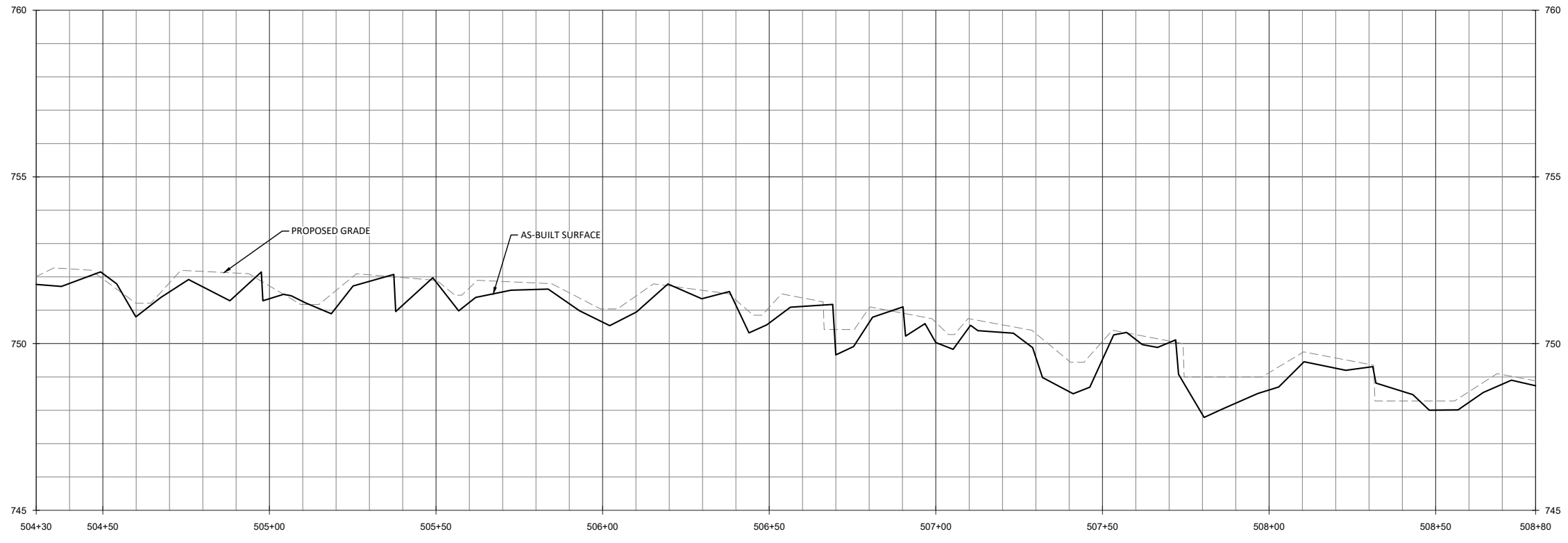
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Date	Job Number	Project Engineer	Drawn By	Checked By	Revisions
May 3, 2017	005-02145	ASE	SID	IL	

2.8.1

Sheet

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**Candy Creek Mitigation Site-Record Drawings**  
**Guilford County, North Carolina**

UT4  
 Stream Plan and Profile

Revisions:

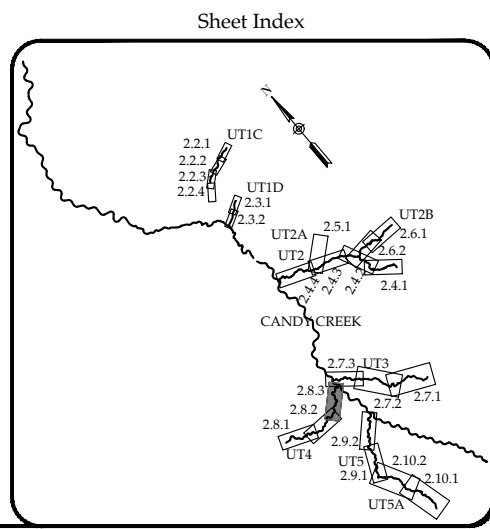
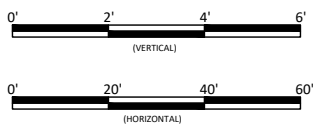
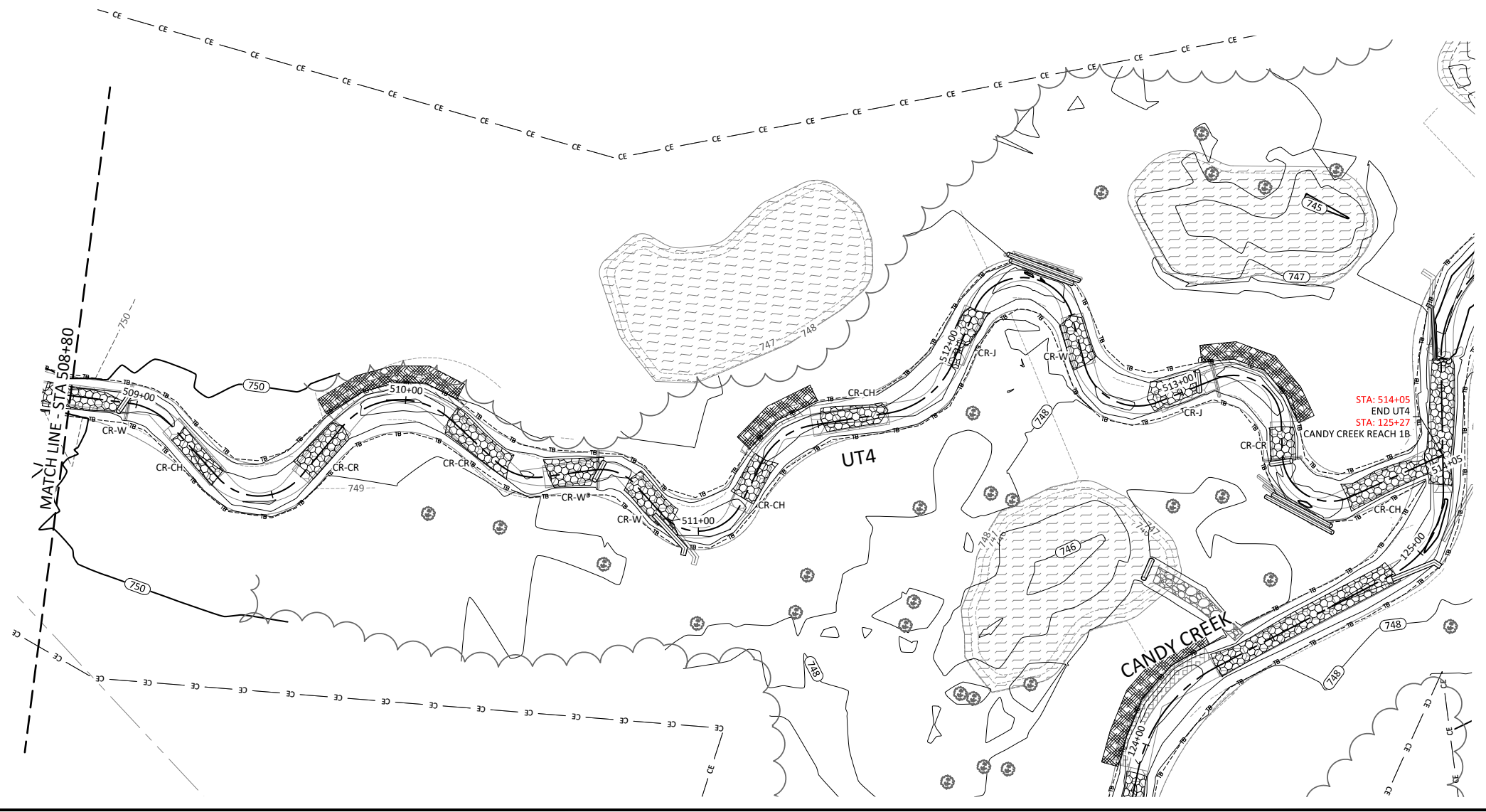
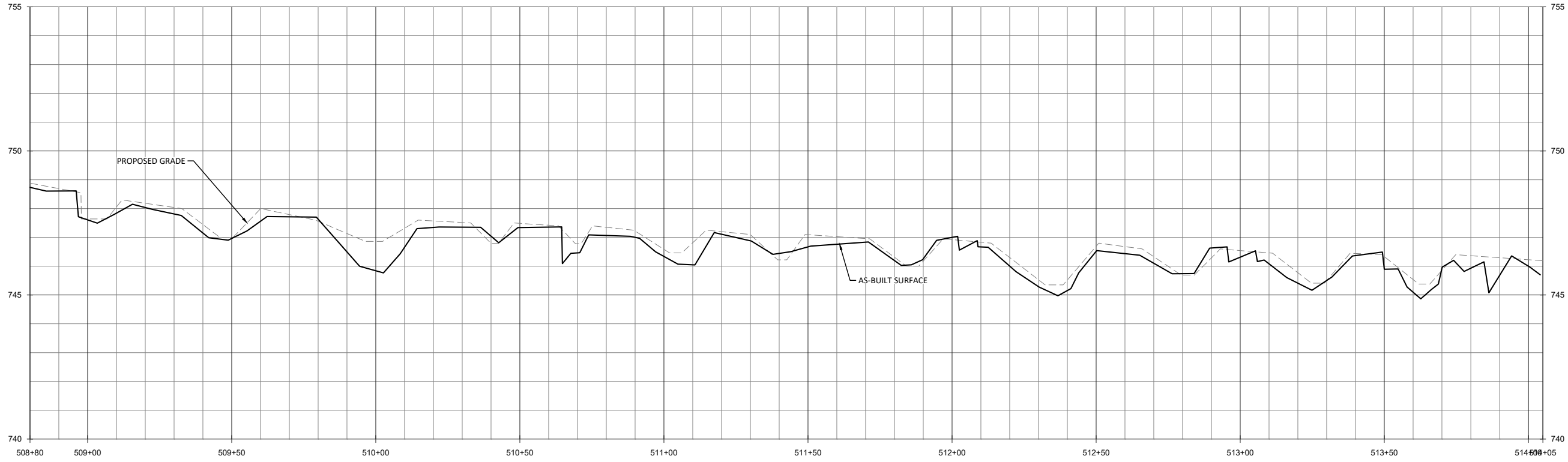

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.8.2**

Sheet

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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT4  
 Stream Plan and Profile

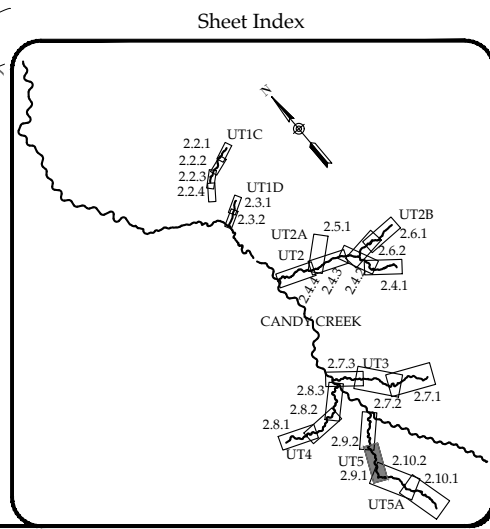
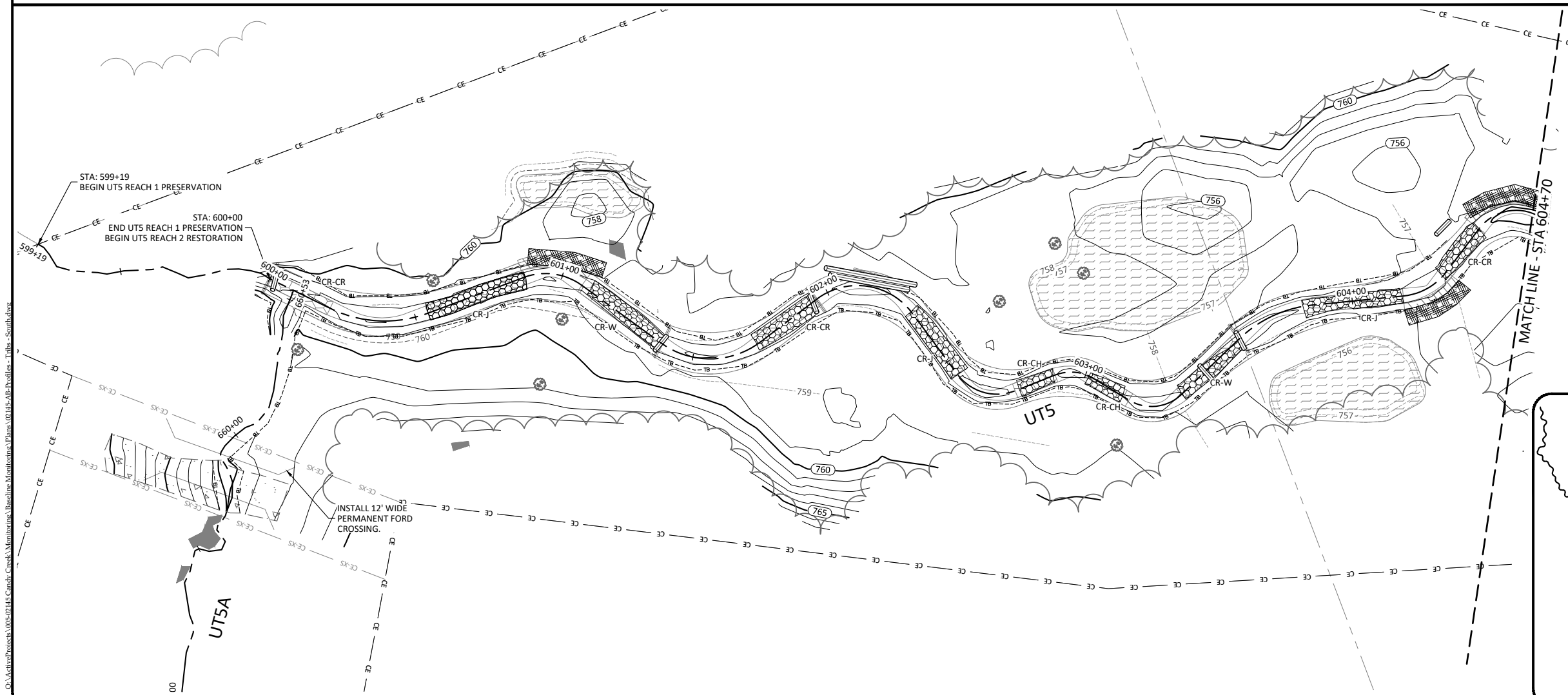
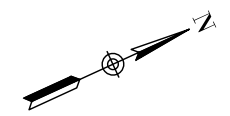
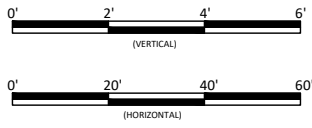
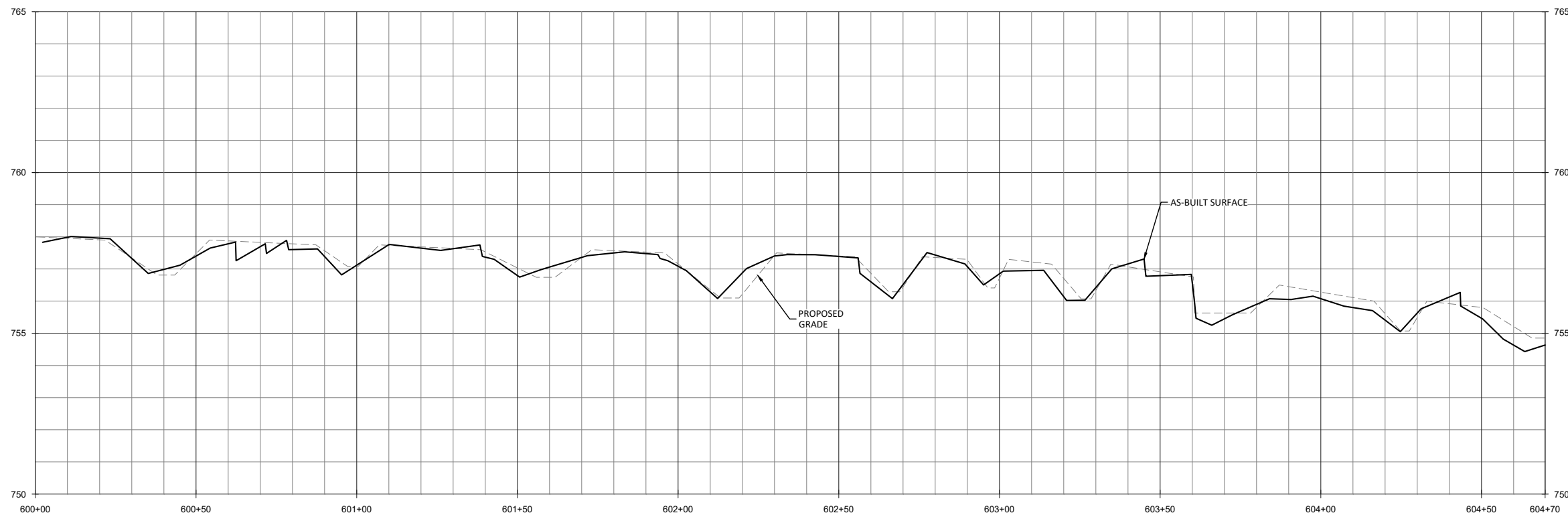
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No.	Description	Date

Date: May 3, 2017  
 Job Number: 005-02145  
 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

**2.8.3**  
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May 3, 2017



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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT5  
 Stream Plan and Profile

Revisions:

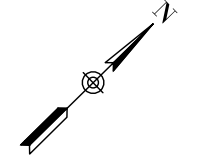
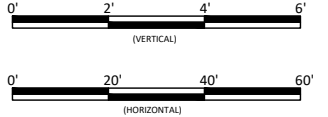
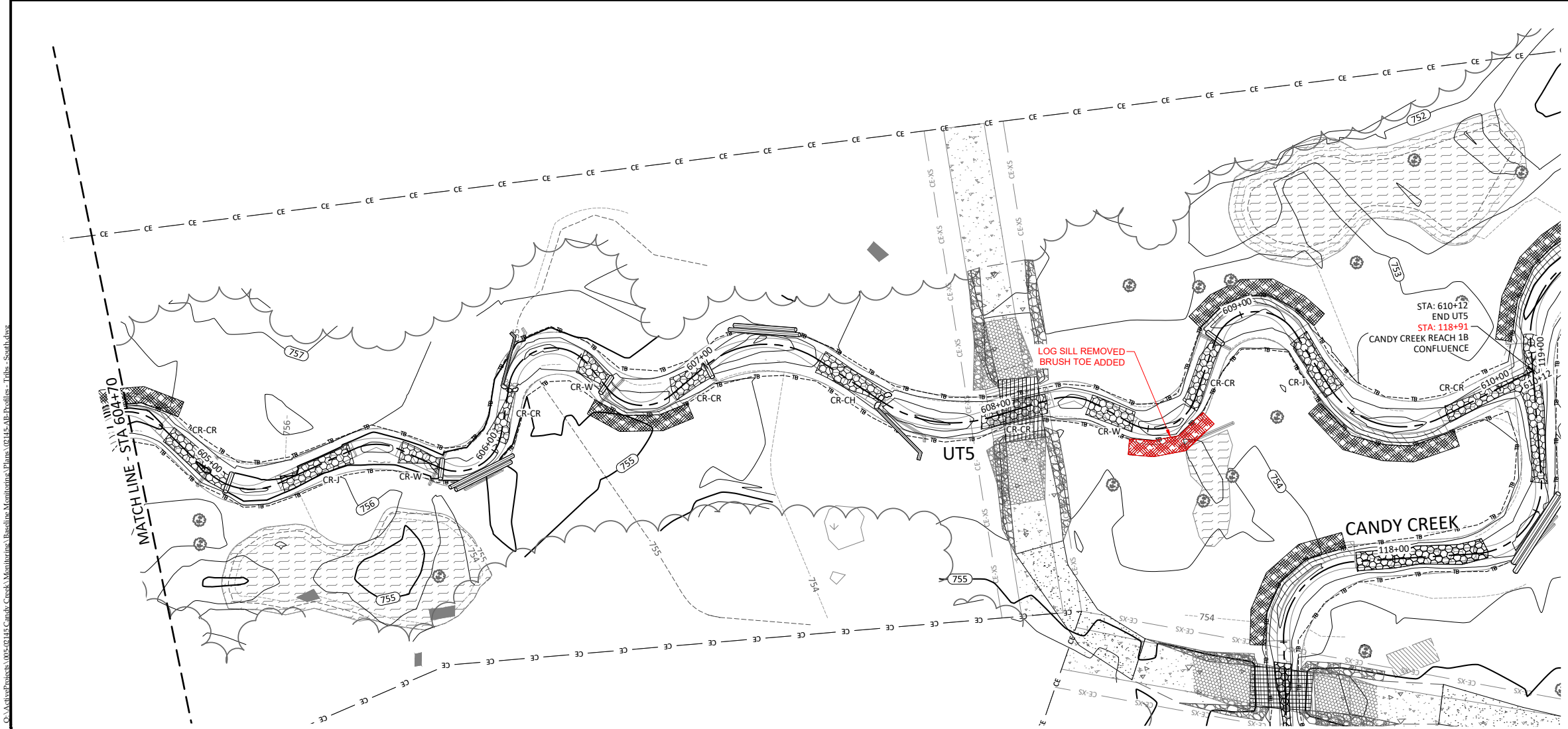
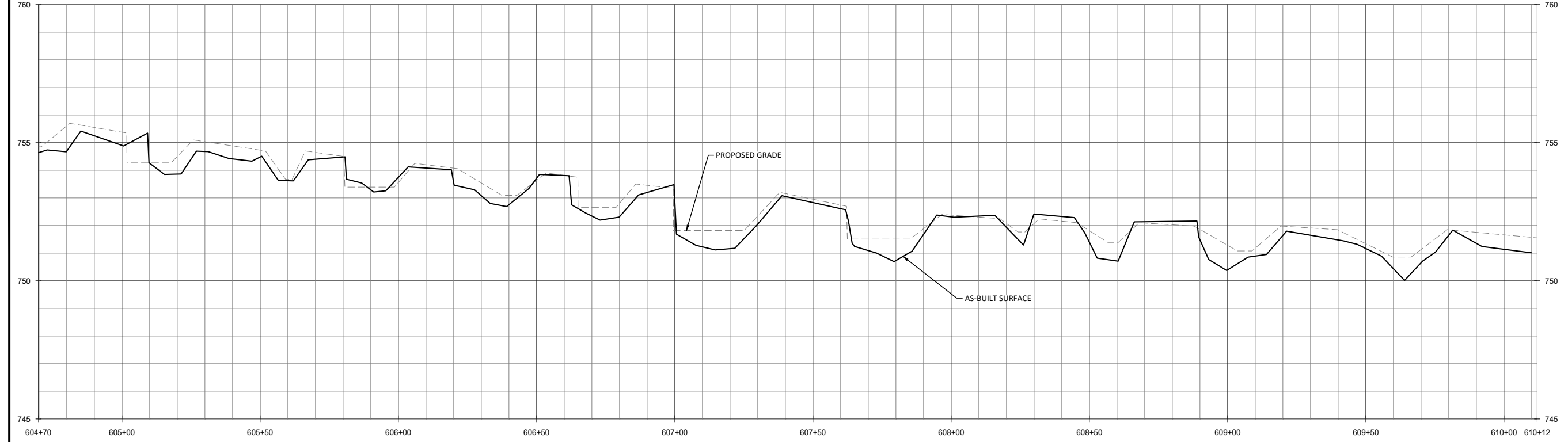

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 Project Engineer: ASE  
 Drawn By: SID  
 Checked By: JL

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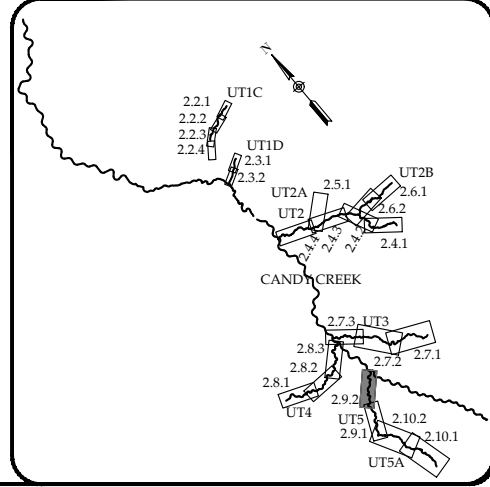
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Revisions:

Rev	Description

Date:	May 3, 2017
Job Number:	005-02145
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Drawn By:	SID
Checked By:	IL

**2.9.2**

Sheet

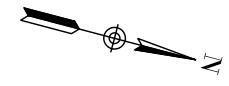
Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT5  
 Stream Plan and Profile

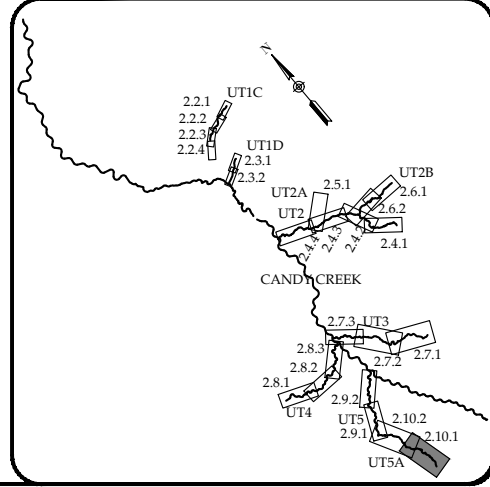


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Candy Creek Mitigation Site-Record Drawings  
 Guilford County, North Carolina

UT5A  
 Stream Plan and Profile

Revisions:

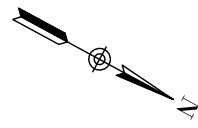
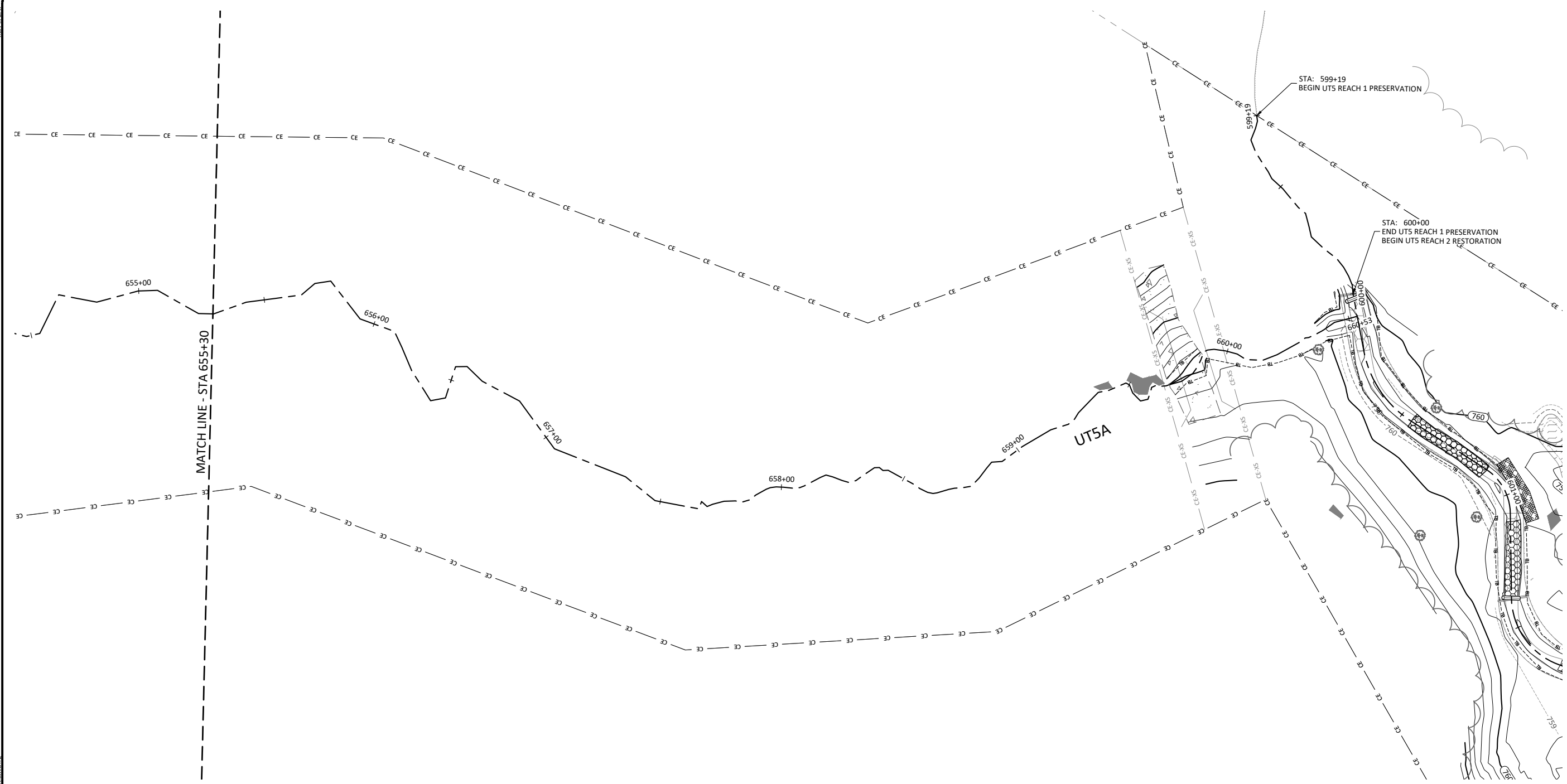

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 Job Number: 005-02145  
 Project Engineer: ASE  
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 Checked By: JL

**2.10.1**

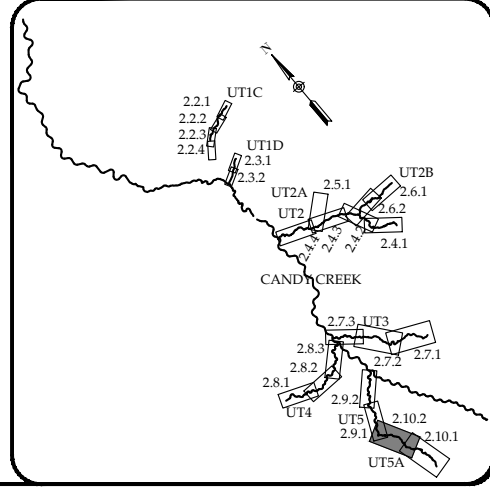
Sheet

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 Guilford County, North Carolina

UT5A  
 Stream Plan and Profile

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 Drawn By: SID  
 Checked By: JL

**2.10.2**

Sheet

Streambank Planting Zone						
Live Stakes and Herbaceous Plugs						
Species	Common Name	Max Spacing	Indiv. Spacing	Min. Size	Stratum	# of Stems
<i>Physocarpus opulifolius</i>	Ninebark	8 ft.	2-8 ft.	0.5"-1.5" cal.	Shrub	20%
<i>Cornus amomum</i>	Silky Dogwood	8 ft.	2-8 ft.	0.5"-1.5" cal.	Shrub	40%
<i>Salix sericea</i>	Silky Willow	8 ft.	2-8 ft.	0.5"-1.5" cal.	Shrub	40%
<i>Juncus effusus</i>	Common Rush	5 ft.	4-6 ft.	1.0"-2.0" plug	Herb	N/A
<i>Carex alata</i>	Broadwing Sedge	5 ft.	4-6 ft.	1.0"-2.0" plug	Herb	N/A
						<b>100%</b>

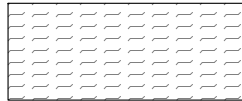
Hatching represents that Streambank planting occurs along the stream. See Detail 4, Sheet 5.8 for planting specifics.



Buffer Planting Zone						
Bare Root						
Species	Common Name	Max Spacing	Indiv. Spacing	Min. Caliper Size	Stratum	# of Stems
<i>Quercus phellos</i>	Willow Oak	12 ft.	6-12 ft.	0.25"-1.0"	Canopy	20%
<i>Platanus occidentalis</i>	Sycamore	12 ft.	6-12 ft.	0.25"-1.0"	Canopy	15%
<i>Betula nigra</i>	River Birch	12 ft.	6-12 ft.	0.25"-1.0"	Canopy	15%
<i>Quercus pagoda</i>	Cherrybark Oak	12 ft.	6-12 ft.	0.25"-1.0"	Canopy	20%
<i>Quercus michauxii</i>	Swamp Chestnut Oak	12 ft.	6-12 ft.	0.25"-1.0"	Canopy	15%
<i>Fraxinus pennsylvanica</i>	Green Ash	12 ft.	6-12 ft.	0.25"-1.0"	Canopy	15%
<i>Carpinus caroliniana</i>	Ironwood	18 ft.	6-18 ft.	0.25"-1.0"	Shrub	*
<i>Viburnum dentatum</i>	Arrowwood Viburnum	18 ft.	6-18 ft.	0.25"-1.0"	Shrub	*
*Within the existing wooded canopy, Ironwood and Arrowwood Viburnum are to be planted in lieu of Sycamore and River Birch.						<b>100%</b>



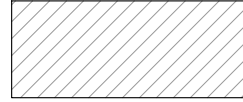
Vernal Pool Planting Zone						
Herbaceous Plugs						
Species	Common Name	Max Spacing	Indiv. Spacing	Min. Size	Stratum	# of Stems
<i>Calamagrostis canadensis</i>	Bluejoint Grass	5 ft.	3-5 ft.	1.0"-2.0" plug	Herb	30%
<i>Carex alata</i>	Broadwing Sedge	5 ft.	3-5 ft.	1.0"-2.0" plug	Herb	35%
<i>Juncus effusus</i>	Common Rush	5 ft.	3-5 ft.	1.0"-2.0" plug	Herb	35%
						<b>100%</b>



Permanent Riparian Seeding				
Pure Live Seed (20 lbs/ acre)				
Approved Date	Species Name	Common Name	Stratum	Density (lbs/acre)
All Year	<i>Panicum rigidulum</i>	Redtop Panicgrass	Herb	1.5
All Year	<i>Agrostis hyemalis</i>	Winter Bentgrass	Herb	1.5
All Year	<i>Chasmanthium latifolium</i>	Indian Woodoats	Herb	1.5
All Year	<i>Rudbeckia hirta</i>	Blackeyed Susan	Herb	1.0
All Year	<i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	Herb	0.2
All Year	<i>Carex vulpinoidea</i>	Fox Sedge	Herb	1.5
All Year	<i>Panicum clandestinum</i>	Deertongue	Herb	3.0
All Year	<i>Elymus virginicus</i>	Virginia Wild Rye	Herb	2.5
All Year	<i>Panicum virgatum</i>	Switchgrass	Herb	3.5
All Year	<i>Schizachyrium scoparium</i>	Little Bluestem	Herb	2.5
All Year	<i>Asclepias syriaca</i>	Common Milkweed	Herb	0.5
All Year	<i>Lobelia cardinalis L.</i>	Cardinal Flower	Herb	0.4
All Year	<i>Eupatorium perfoliatum</i>	Boneset	Herb	0.2
All Year	<i>Liatris spicata</i>	Dense Blazing Star	Herb	0.2

All disturbed areas within conservation easement and all internal crossings.

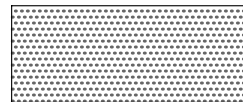
Riparian seeding only within internal crossings.



Temporary Seeding				
Pure Live Seed				
Approved Date	Species Name	Common Name	Stratum	Density (lbs/acre)
Aug 15 - May 1	<i>Secale cereale</i>	Rye Grain	Herb	140
May 1 - Aug 15	<i>Setaria italica</i>	German Millet	Herb	50

All disturbed areas.

Non-Pasture disturbed areas.



Stabilization Seeding Outside Easement				
Approved Date	Species Name	Stratum	Common Name	Density (lbs/acre)
All Year	<i>Festuca arundinacea</i>	Herb	Tall Fescue	80

Pasture areas outside easement.



Pasture Seeding				
Approved Date	Species Name	Stratum	Common Name	Density (lbs/acre)
All Year	<i>Festuca arundinacea</i>	Herb	Tall Fescue	80
All Year	<i>Trifolium repens</i>	Herb	White Clover	8

Revisions:


Date: May 3, 2017  
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