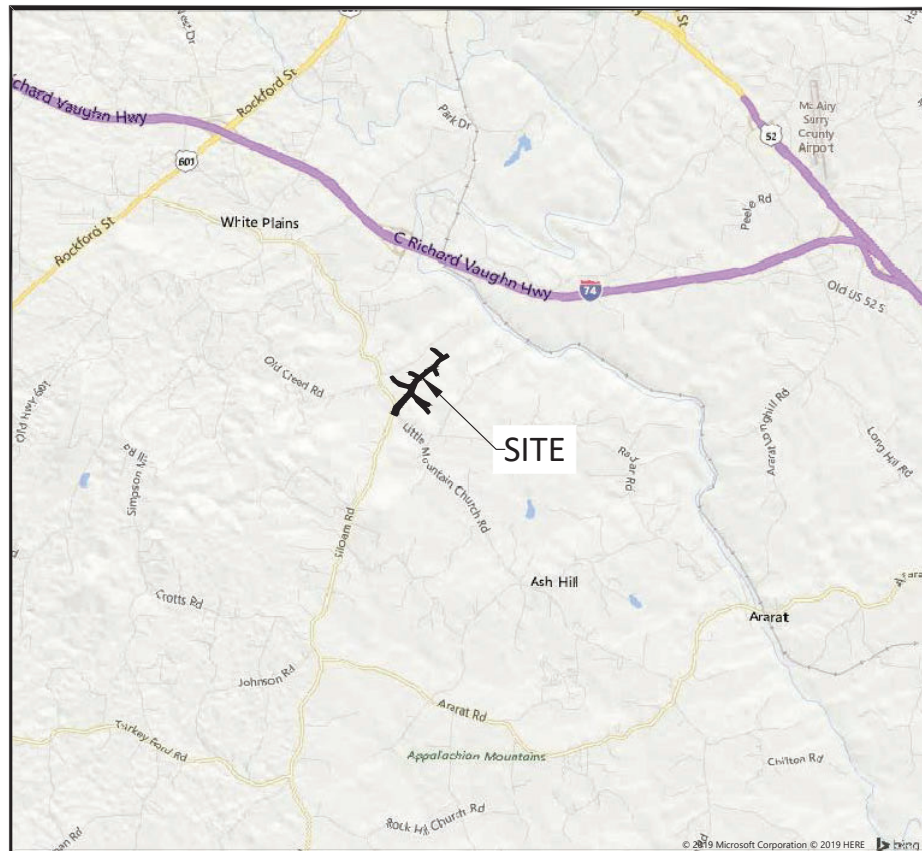


Honey Mill Mitigation Site Record Drawings

Surry County, NC

for NCDEQ

Division of Mitigation Services
Yadkin River Basin 03040101



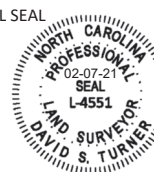
Vicinity Map
Not to Scale

CERTIFICATE OF SURVEY AND ACCURACY

I, DAVID S. TURNER, 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 TURNER LAND SURVEYING, PLLC AS SHOWN ON AN AS-BUILT SURVEY FOR "THE STATE OF NC, DIVISION OF MITIGATION SERVICES" DATED MAY 25, 2021 ; 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 OBTAIN BETWEEN THE DATES OF APRIL 21 - 30, 2021 ; 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 2nd DAY OF July, 2021.

OFFICIAL SEAL



David S. Turner
DAVID S. TURNER, PLS L-4551

RECORD DRAWINGS
ISSUED JULY 2, 2021

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Venable Creek	1.1-1.10
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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

Surveying:
Turner Land Surveying
P.O. Box 148
Swannanoa, NC 28778
David S. Turner, PLS
919-827-0745

Owner:
NC DEQ - Division of
Mitigation Services
1652 Mail Service Center
Raleigh, NC 27699
Kelly Phillips
919-707-8291

NCDEQ Contract No. 7619

DMS Project No. 100083

USACE ID No. SAW-2018-01789

NC DWR No. 20181271



Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

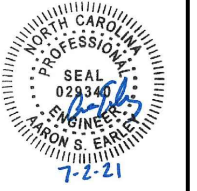
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Job Number: 005-02123
Project Engineer: ASE
Drawn By: HCC
Checked By: JCS



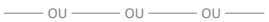







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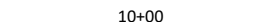




RECORD DRAWING NOTES:
 Deviations from the Design will be shown in red.




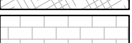


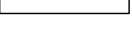






Pre-Construction Features

-  Parcel Line
-  Right-of-Way
-  Pre-Construction Overhead Utility Line
-  Pre-Construction Overhead Utility Easement
-  Pre-Construction Utility Pole
-  Pre-Construction Fence
-  Pre-Construction Wetland
-  Pre-Construction Rip Rap
-  Pre-Construction Bedrock
-  Pre-Construction Top of Bank



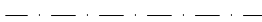










Design Features

-  Design Thalweg Alignment
-  Design Major Contour (5' Interval)
-  Design Minor Contour

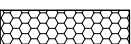



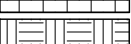


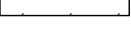






Design Structures

-  Design Various Constructed Riffles
-  Design Rock Cascade
-  Design Brush Toe
-  Design Vegetated Soil Lift
-  Design BMP - Bioretention Cell
-  Design BMP - SPSC
-  Design Log Sill
-  Design Lunker Log
-  Design Log J-hook
-  Design Rock Sill
-  Design Boulder Cross Vane
-  Design Ford Crossing
-  Design Culvert Crossing

As-Built Features

-  Recorded Conservation Easement
-  Recorded Internal Conservation Easement Break
-  As-Built Thalweg Alignment
-  As-Built Bankfull
-  As-Built Major Contour (5' Interval)
-  As-Built Minor Contour
-  As-Built Fence
-  As-Built Farm Road
-  Permanent Vegetation Monitoring Plots
-  Crest Gage
-  Barotroll Gage
-  Cross-Section
-  Photo Point

As-Built Structures

-  As-Built Various Constructed Riffles
-  As-Built Rock Cascade
-  As-Built Brush Toe
-  As-Built Vegetated Soil Lift
-  As-Built Debris Removal
-  As-Built BMP - Bioretention Cell
-  As-Built BMP - SPSC
-  As-Built Log Sill
-  As-Built Lunker Log
-  As-Built Log J-hook
-  As-Built Rock Sill
-  As-Built Boulder Cross Vane
-  As-Built Ford Crossing
-  As-Built Culvert Crossing

- PROJECT NOTES:**
- As-built survey was completed by Turner Land Surveying in May 2021.
 - Pre-construction topographic data outside of survey limits was supplemented with LiDAR data from 2016.
 - Parcel boundary survey was completed by Turner Land Surveying in December 2019.

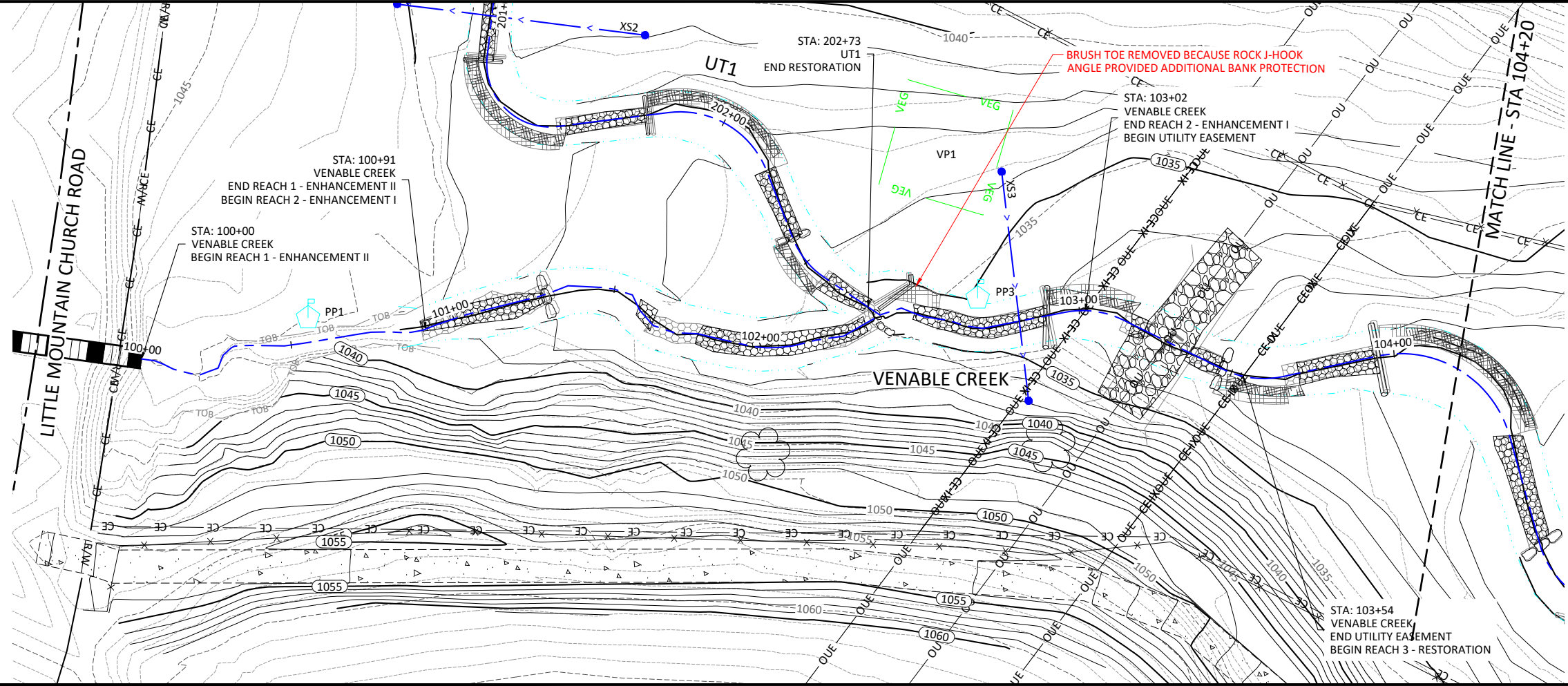
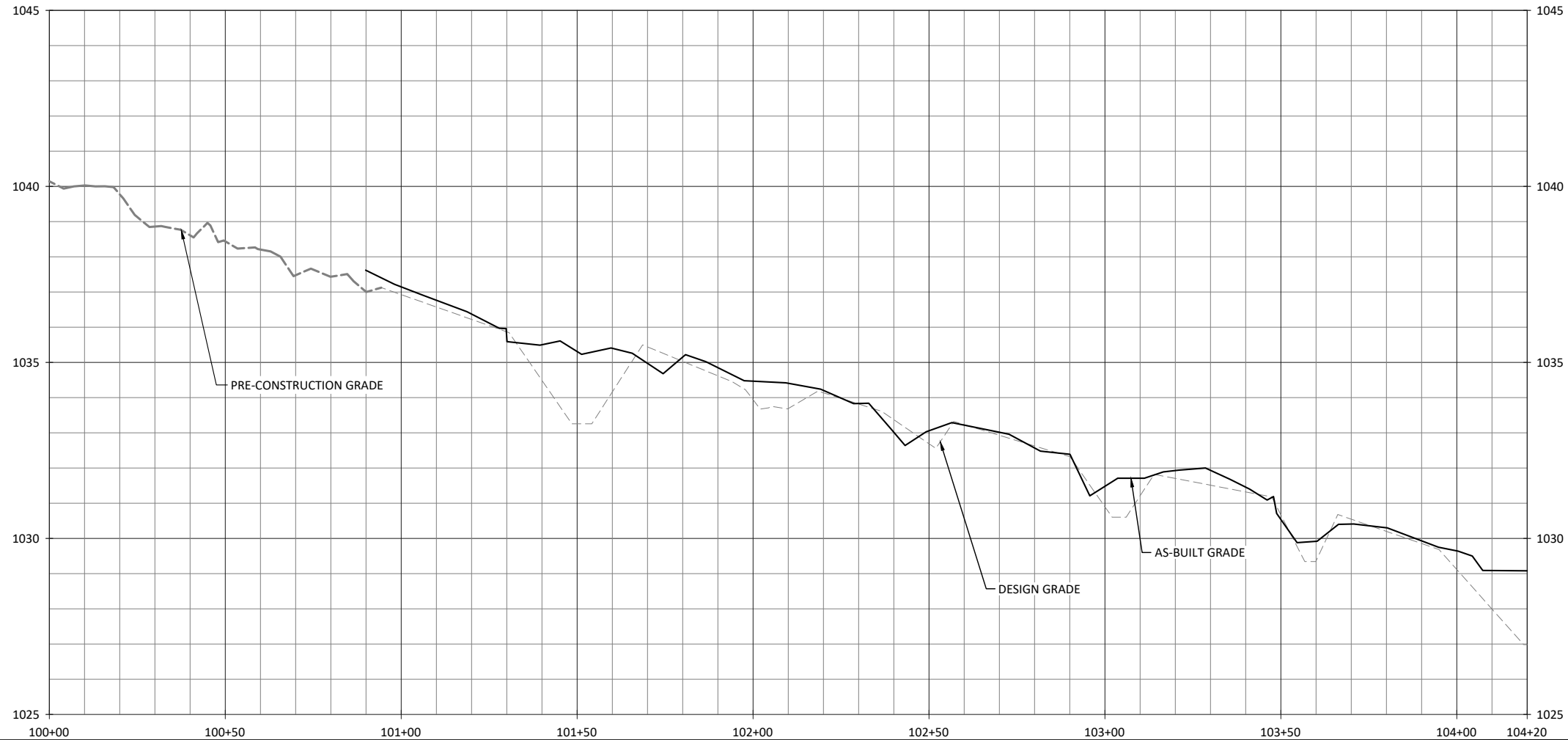
Honey Mill Mitigation Site Record Drawings Surry County, North Carolina

General Notes and Symbols

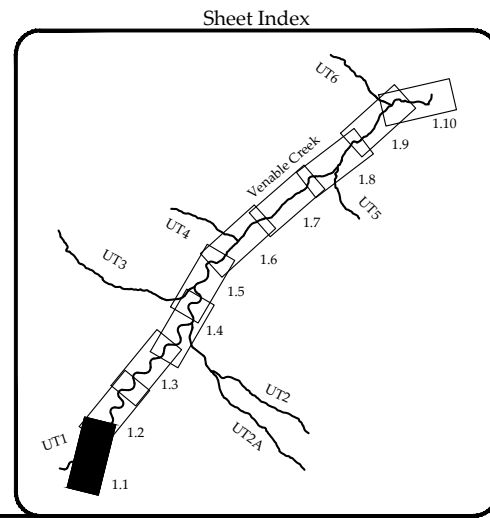
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 2. SUPPLEMENTAL PLANTING - SEE PLANTING PLANS.
 3. EXCLUDE CATTLE ACCESS.



Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

Venable Creek
 Stream Plan and Profile

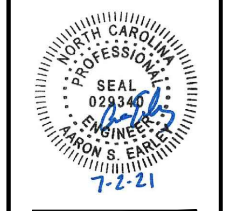
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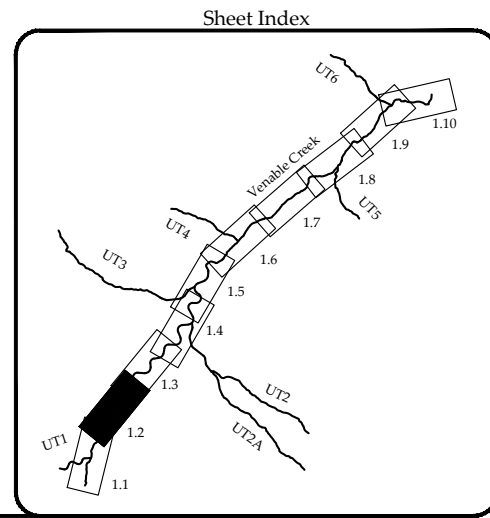
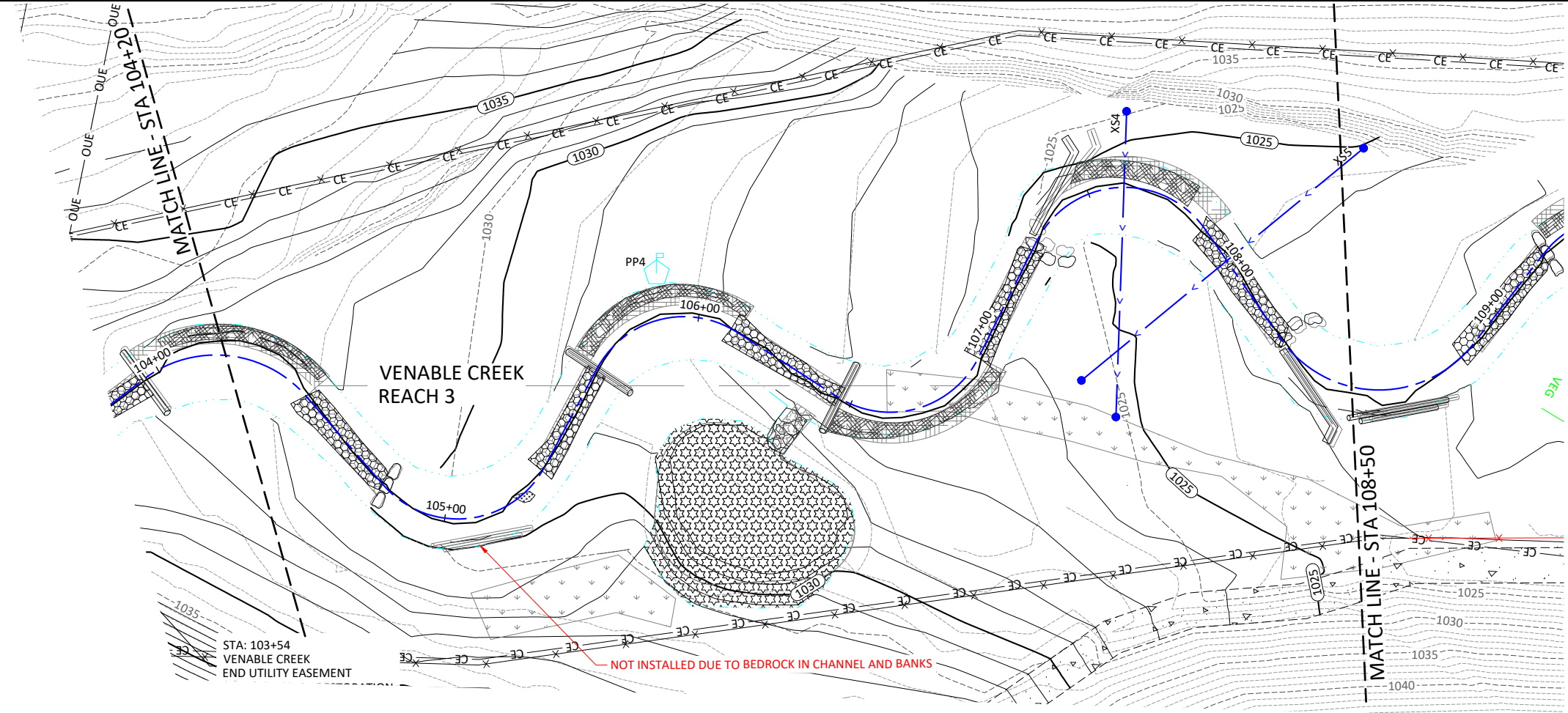
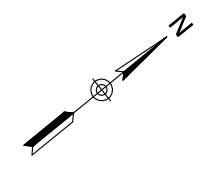
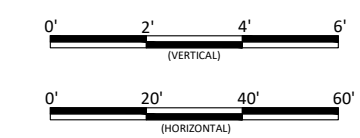
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June 30, 2021

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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

Venable Creek
 Stream Plan and Profile

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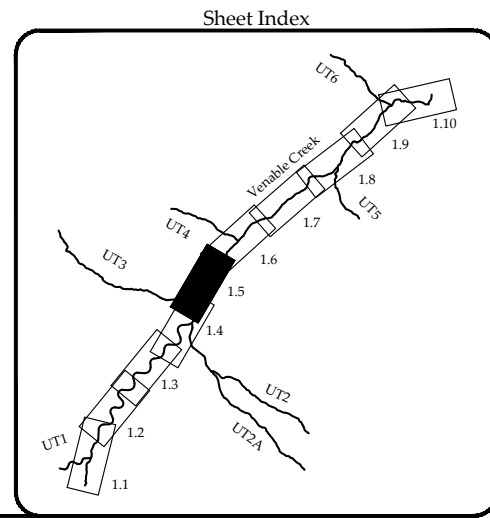
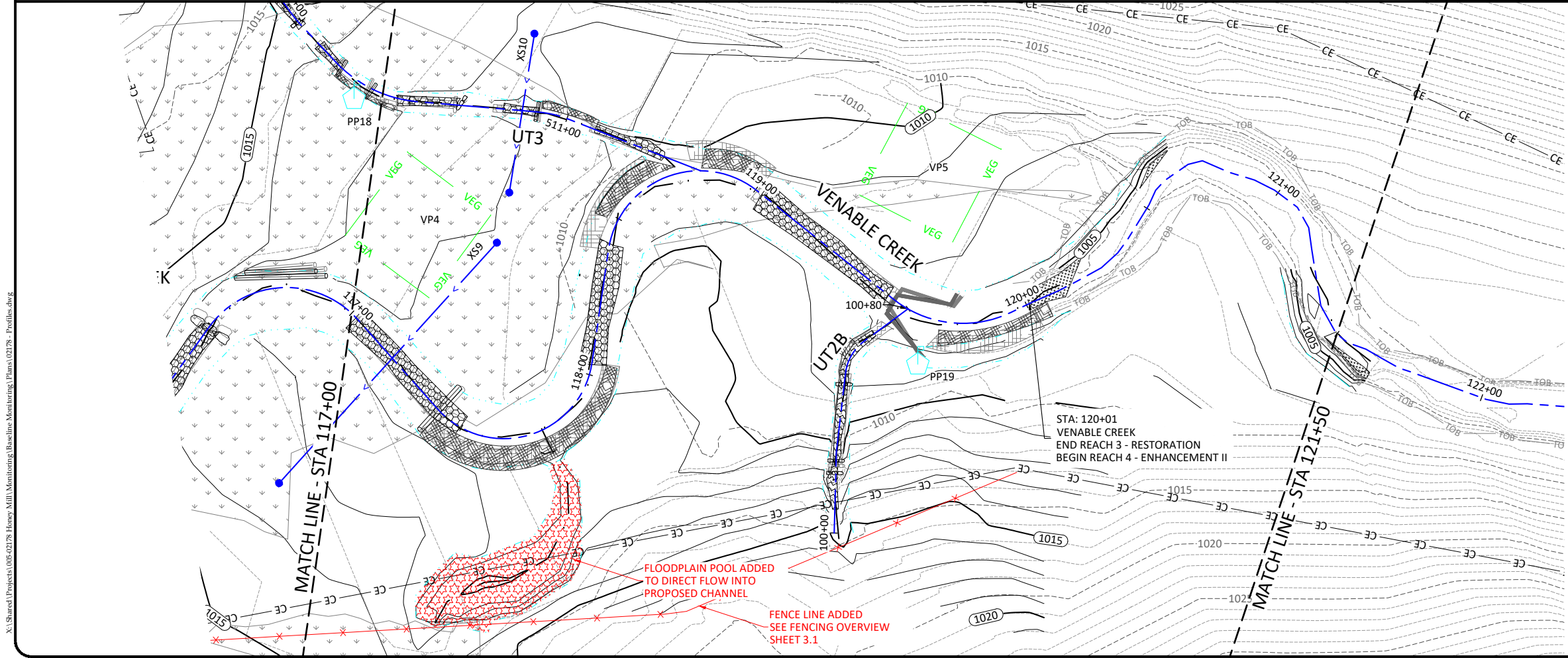
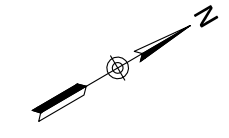
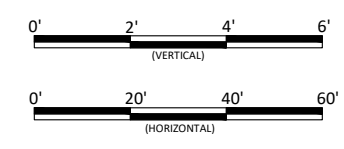
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

Venable Creek
 Stream Plan and Profile

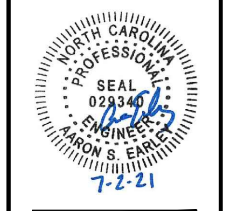
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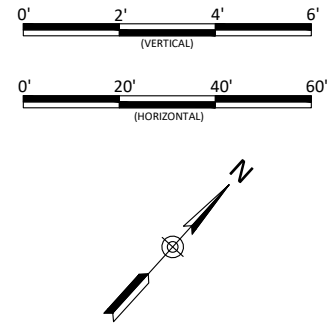
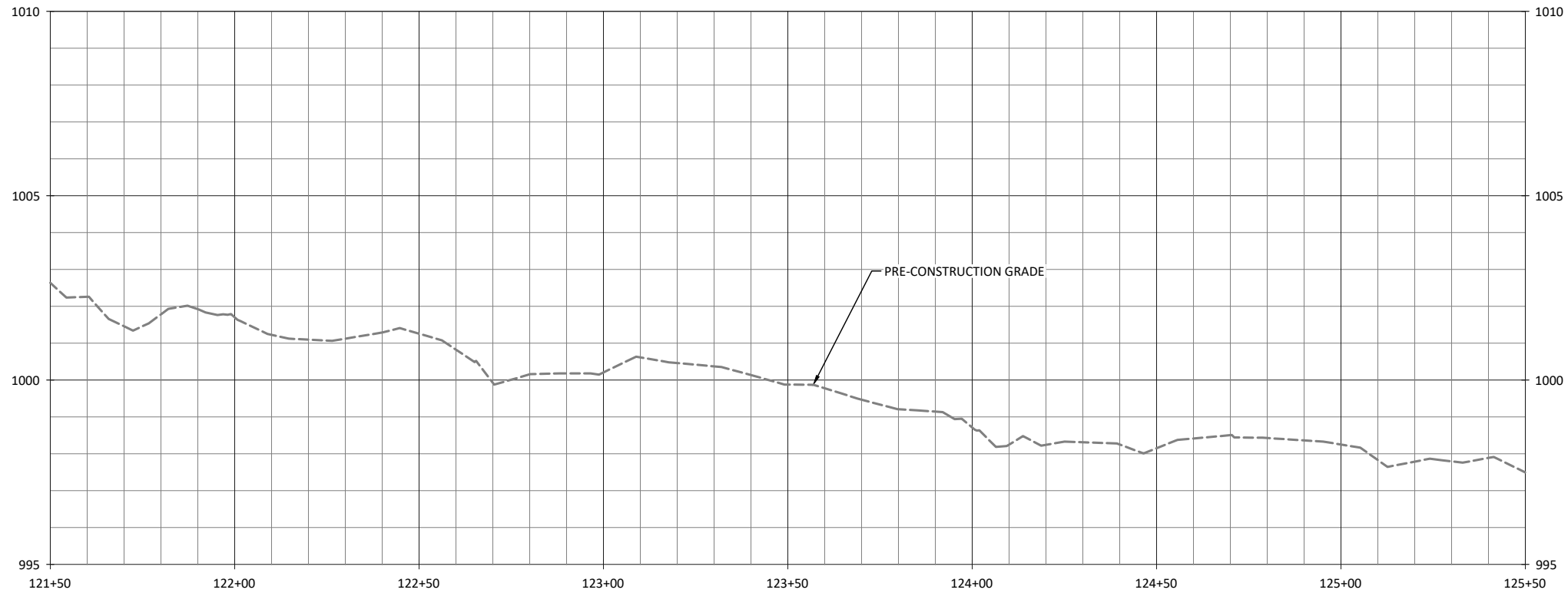
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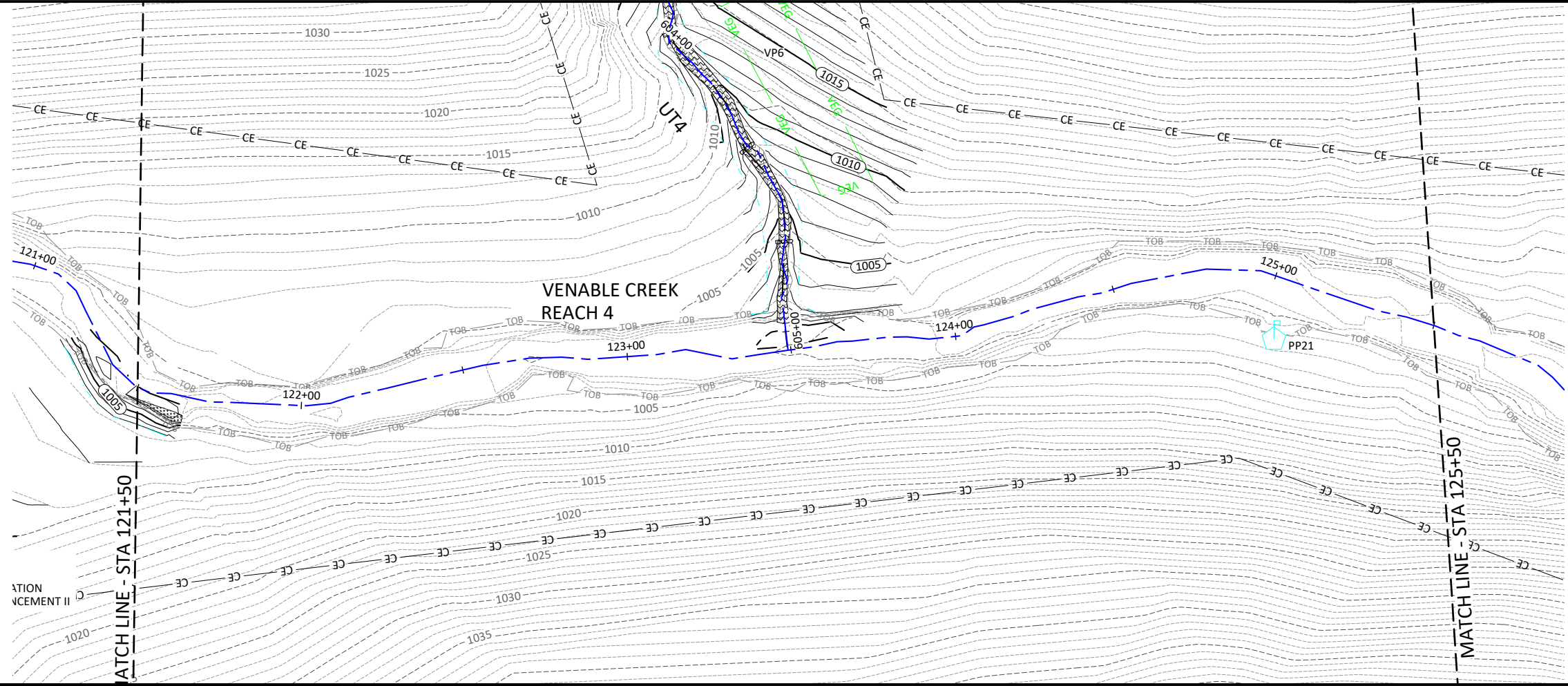


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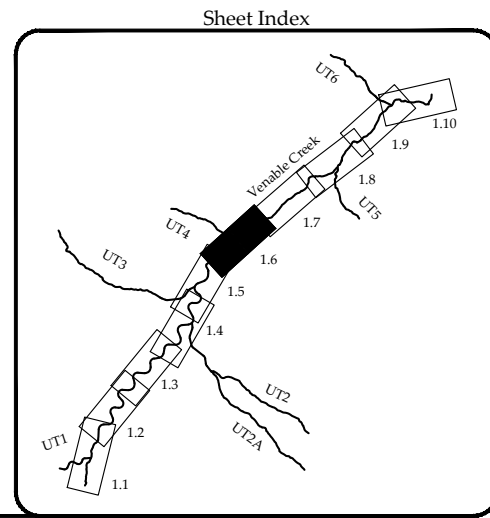


Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

Venable Creek
Stream Plan and Profile



- ENHANCEMENT II TREATMENT:
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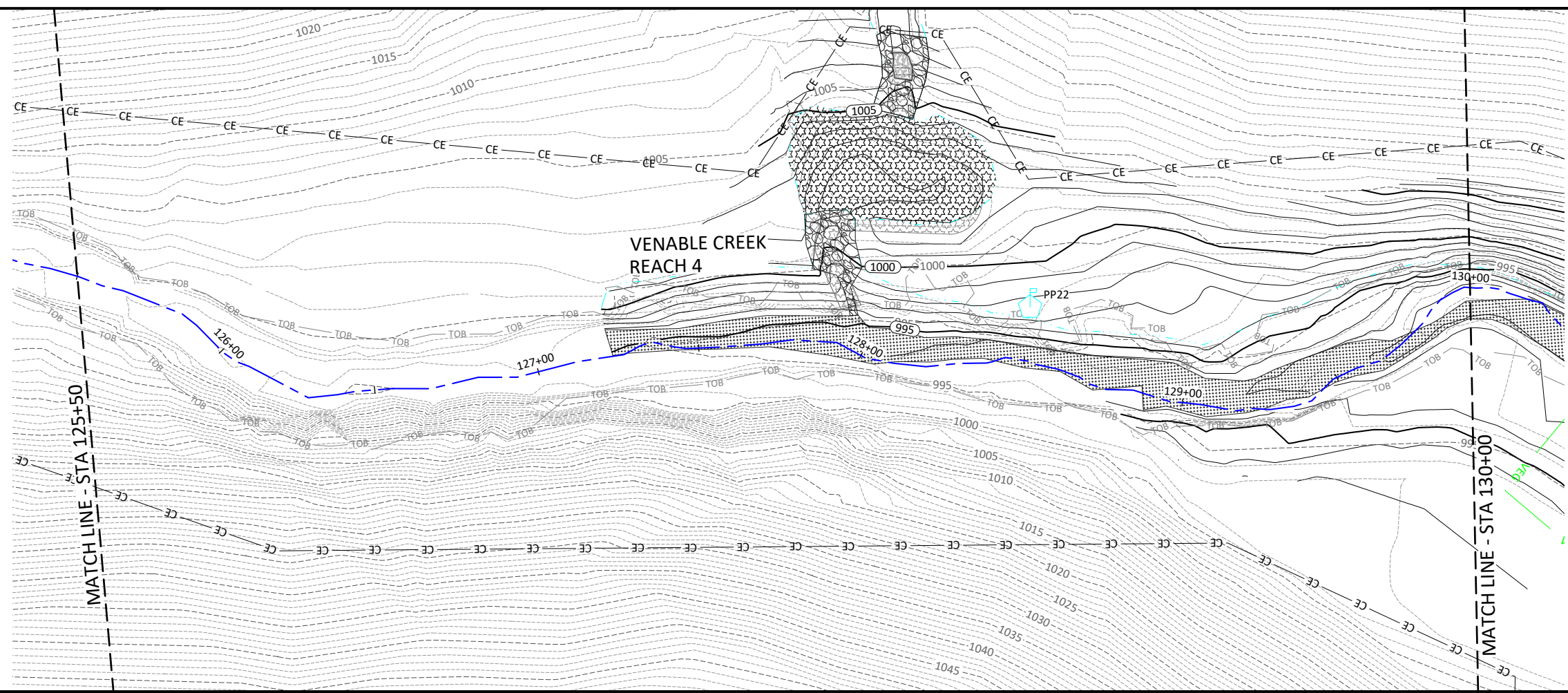
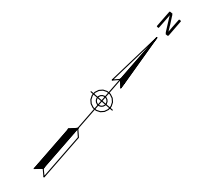
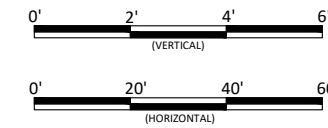
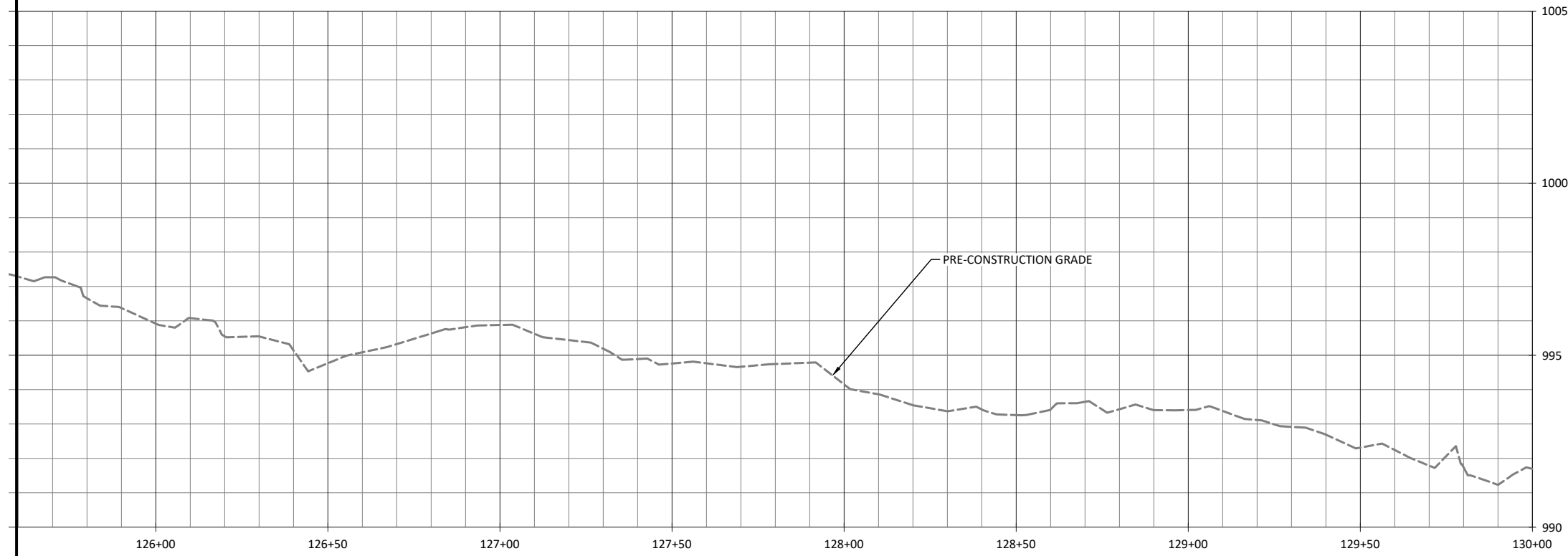


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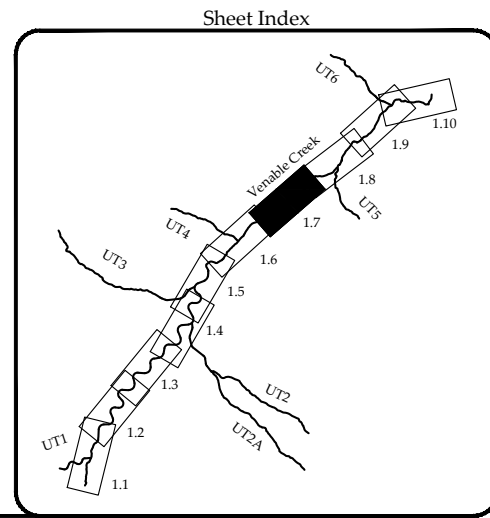
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Job Number: 005-02123
Project Engineer: ASE
Drawn By: HCC
Checked By: JCK

June 30, 2021

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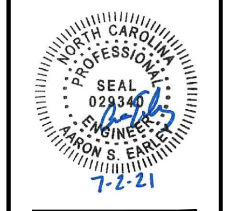
Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina
Venable Creek
Stream Plan and Profile

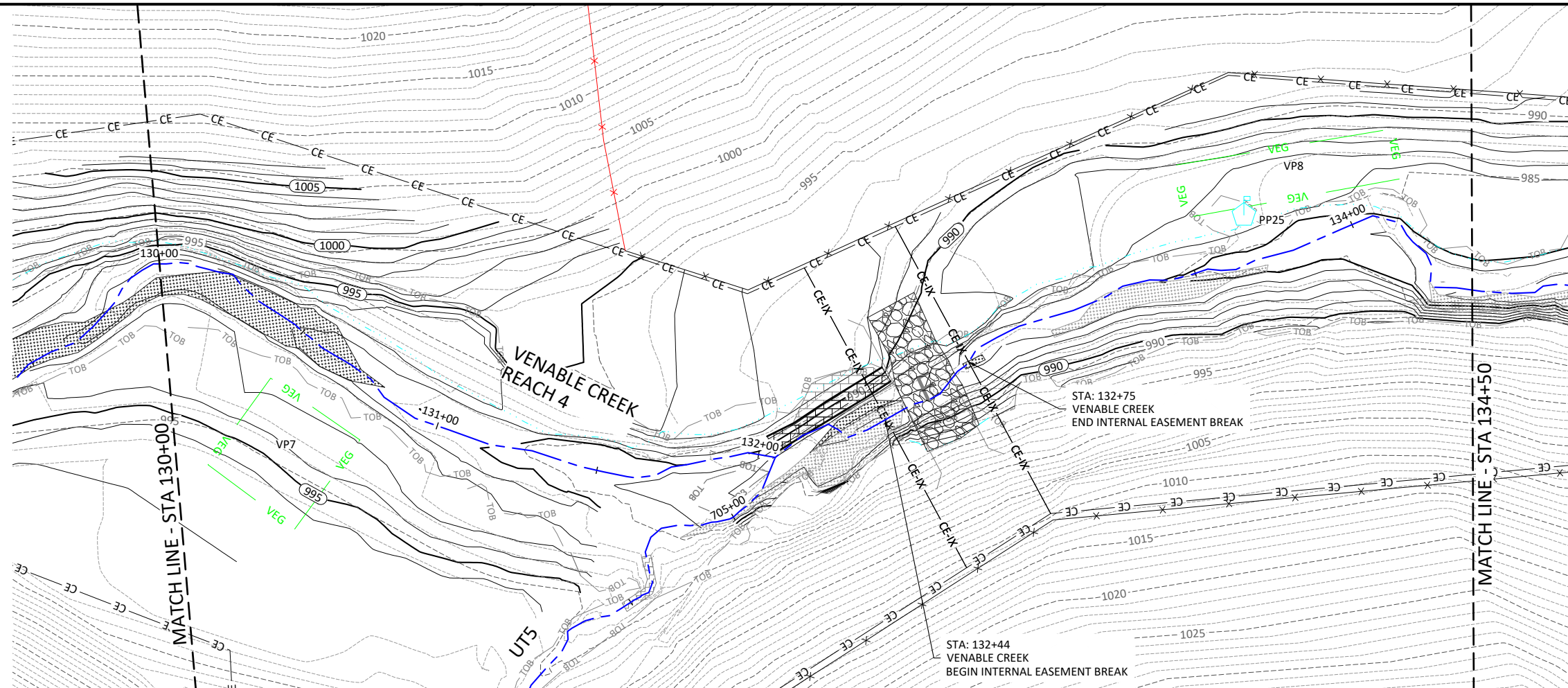
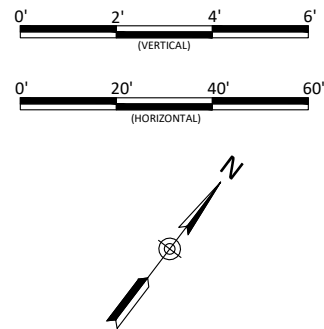
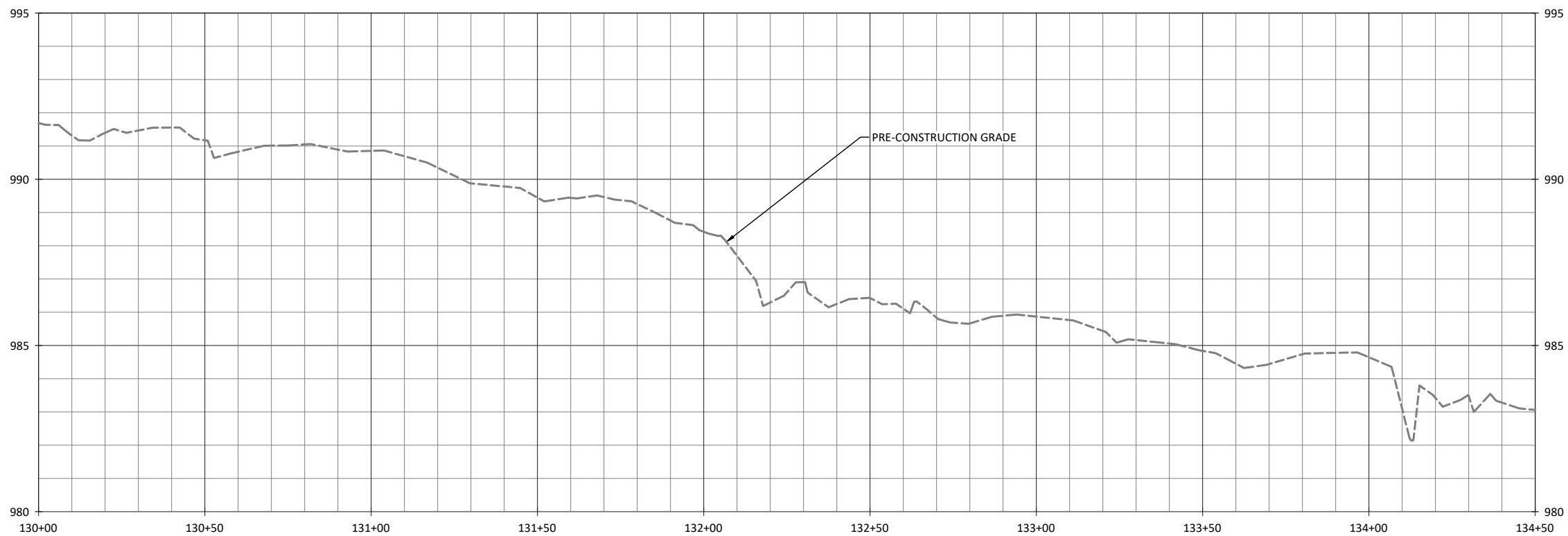
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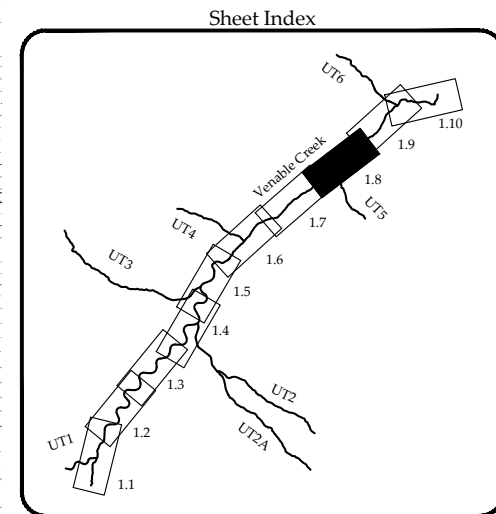
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

Venable Creek
 Stream Plan and Profile

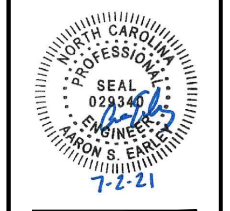
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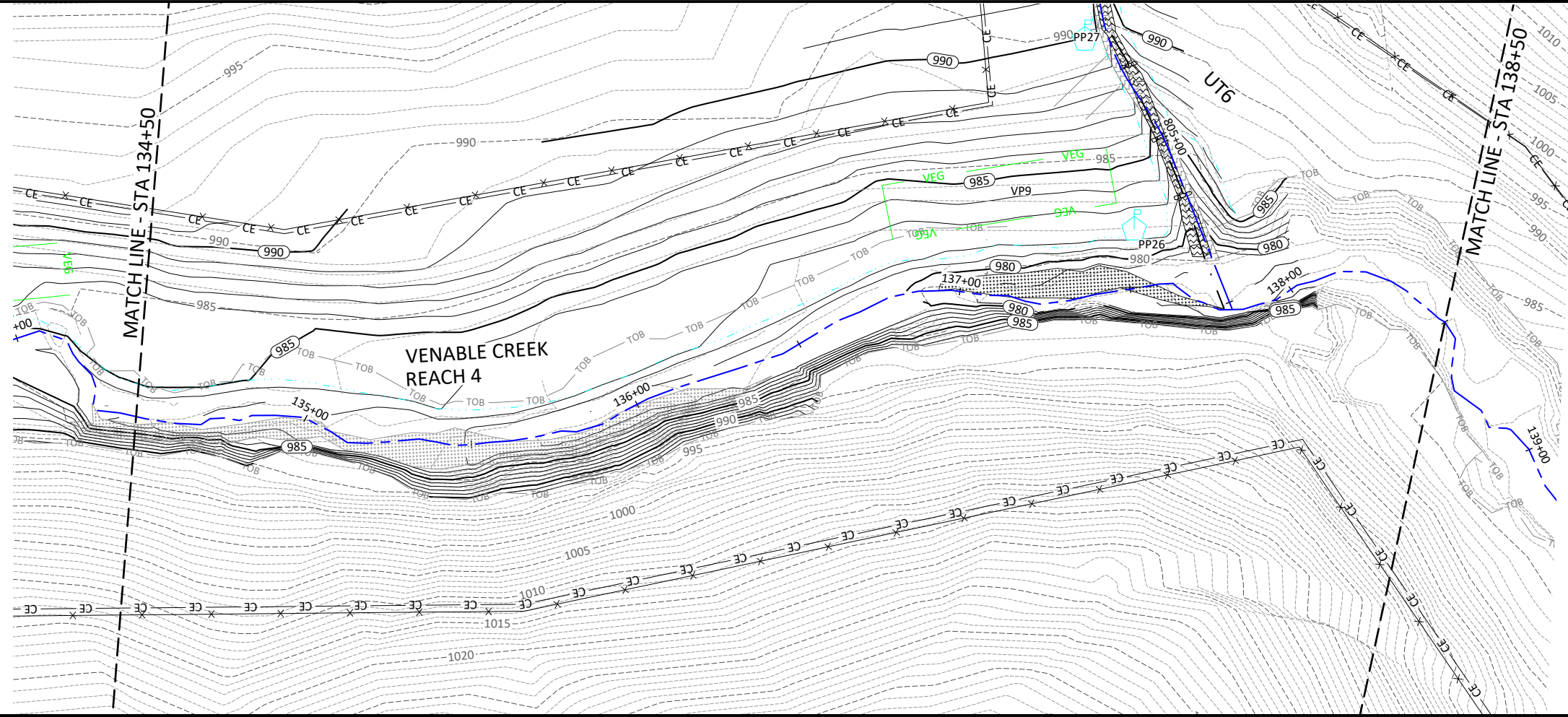
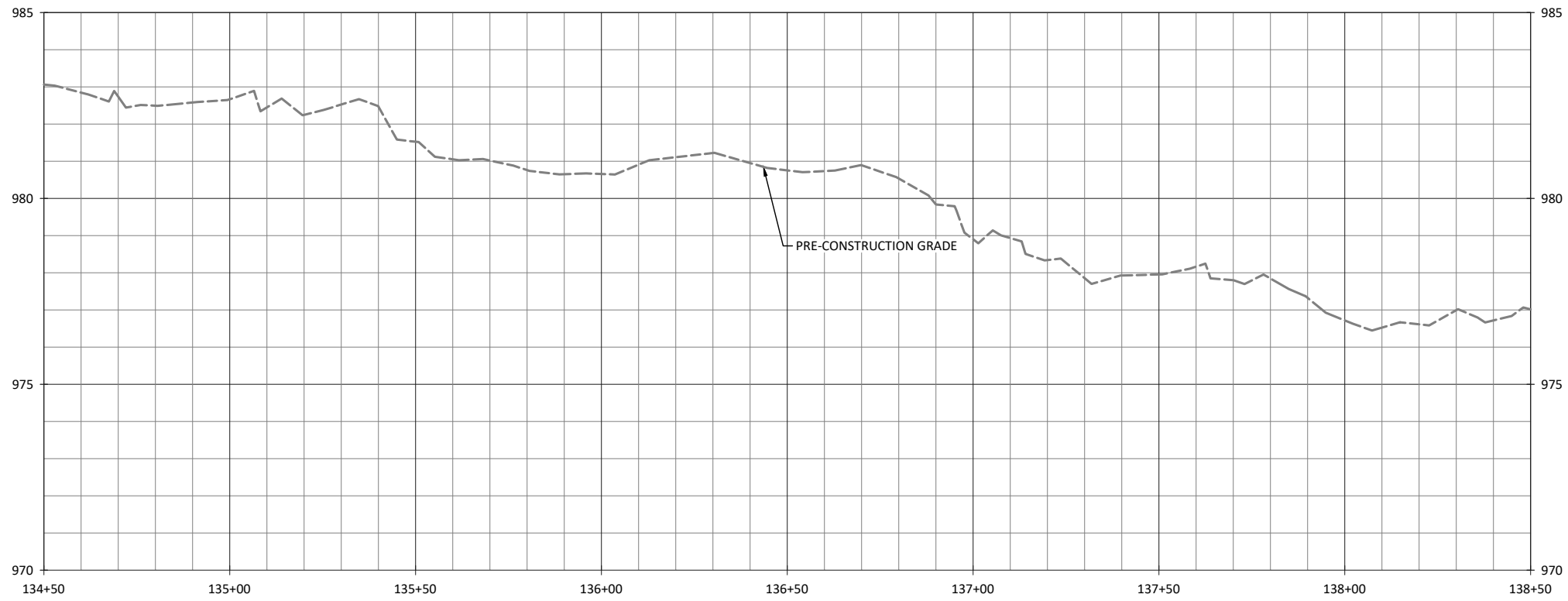
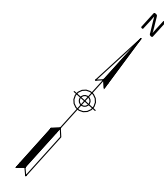
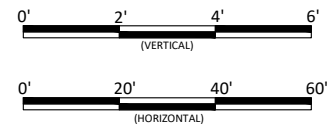
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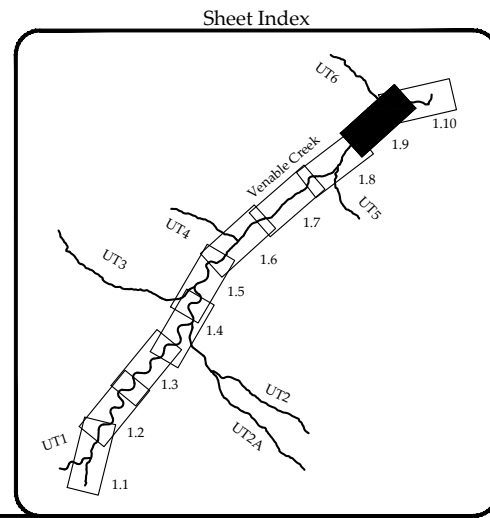
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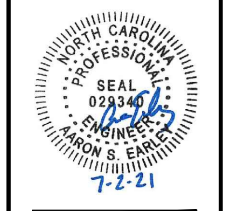


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Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

Venable Creek
Stream Plan and Profile

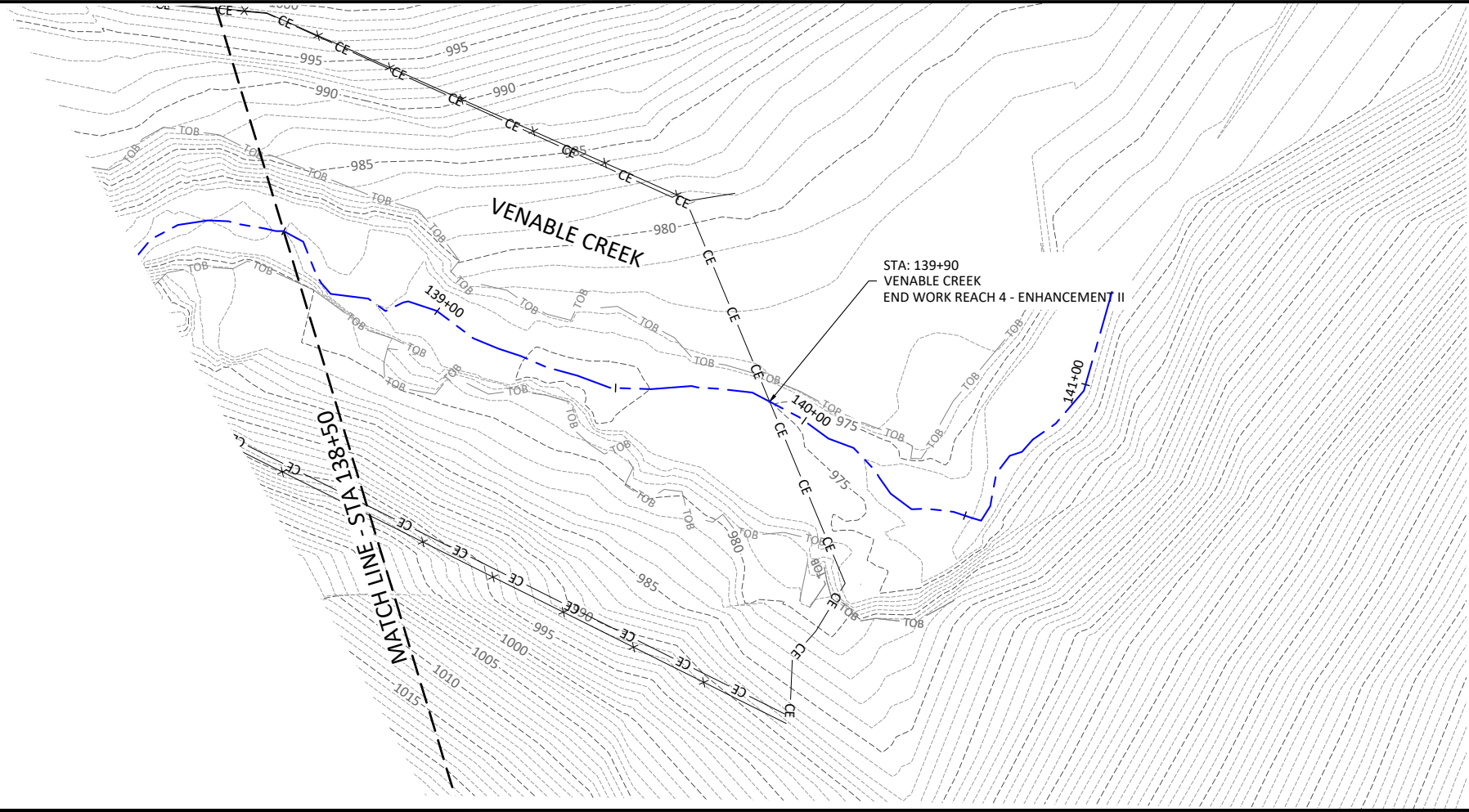
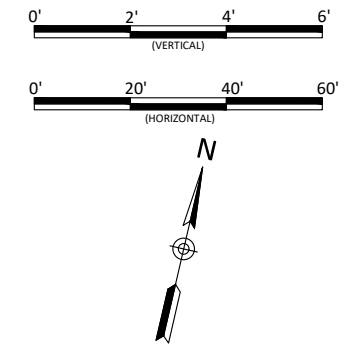
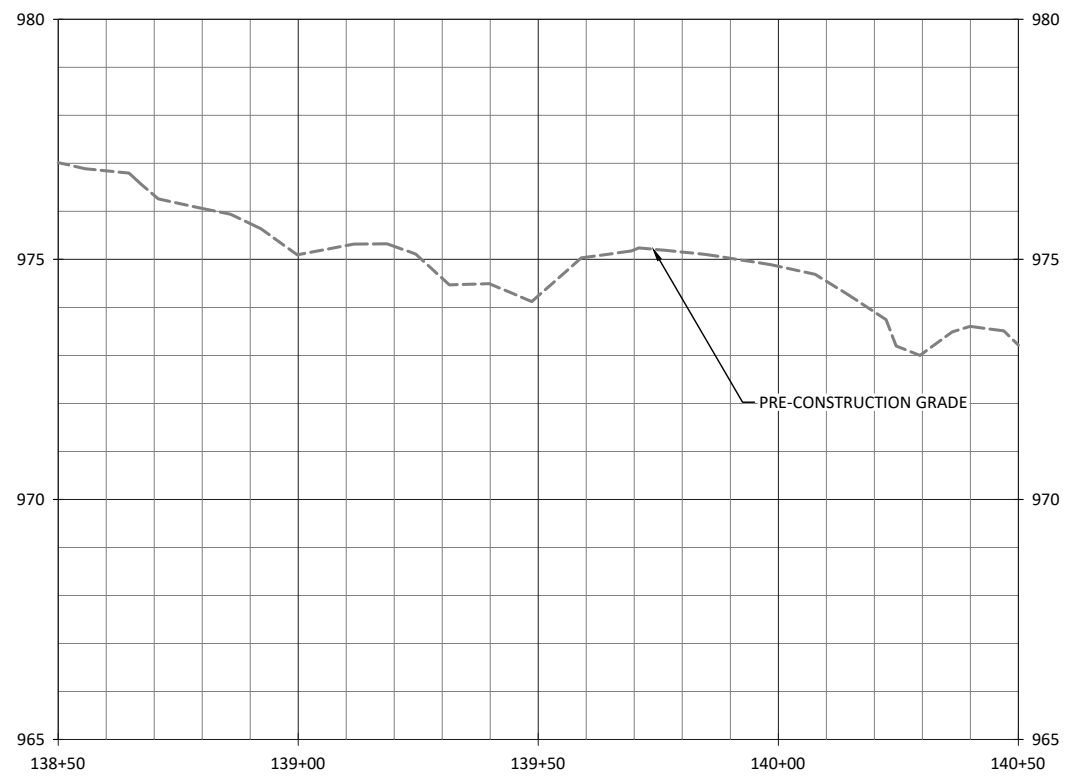


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Drawn By:	HCC
Checked By:	JCK

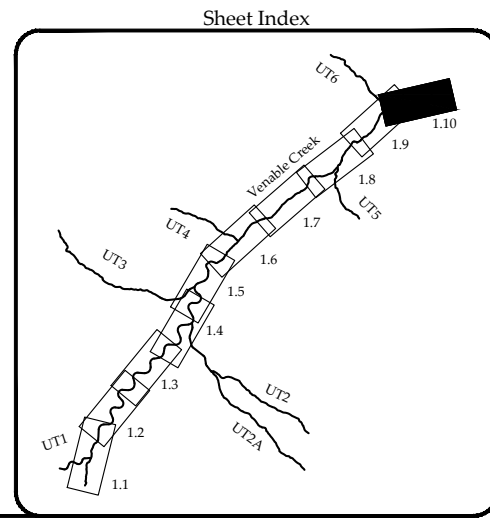
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Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

Venable Creek
Stream Plan and Profile

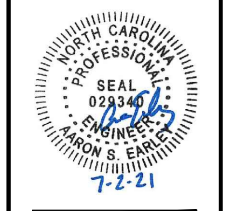
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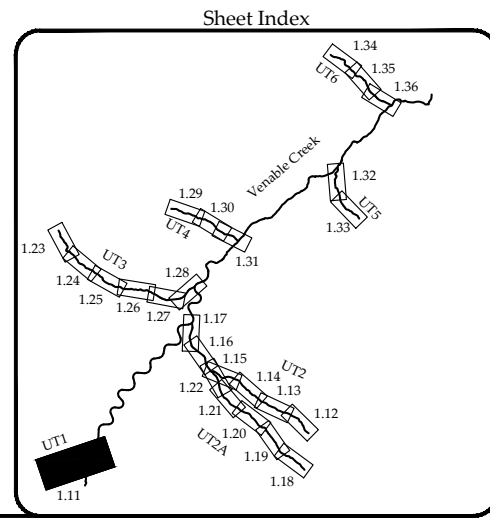
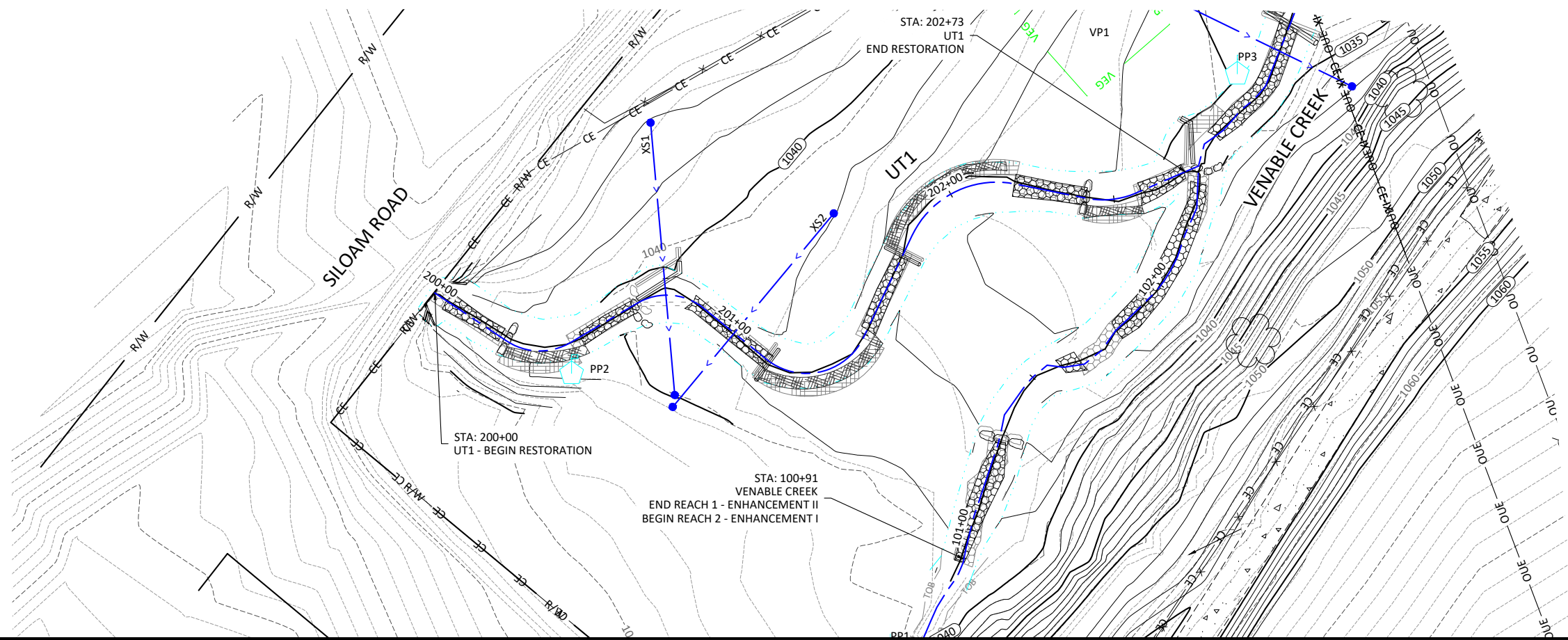
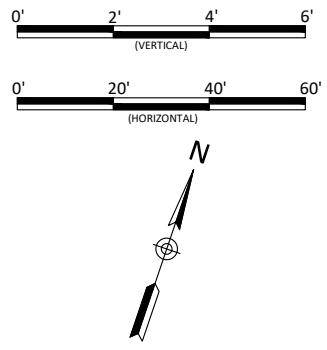
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

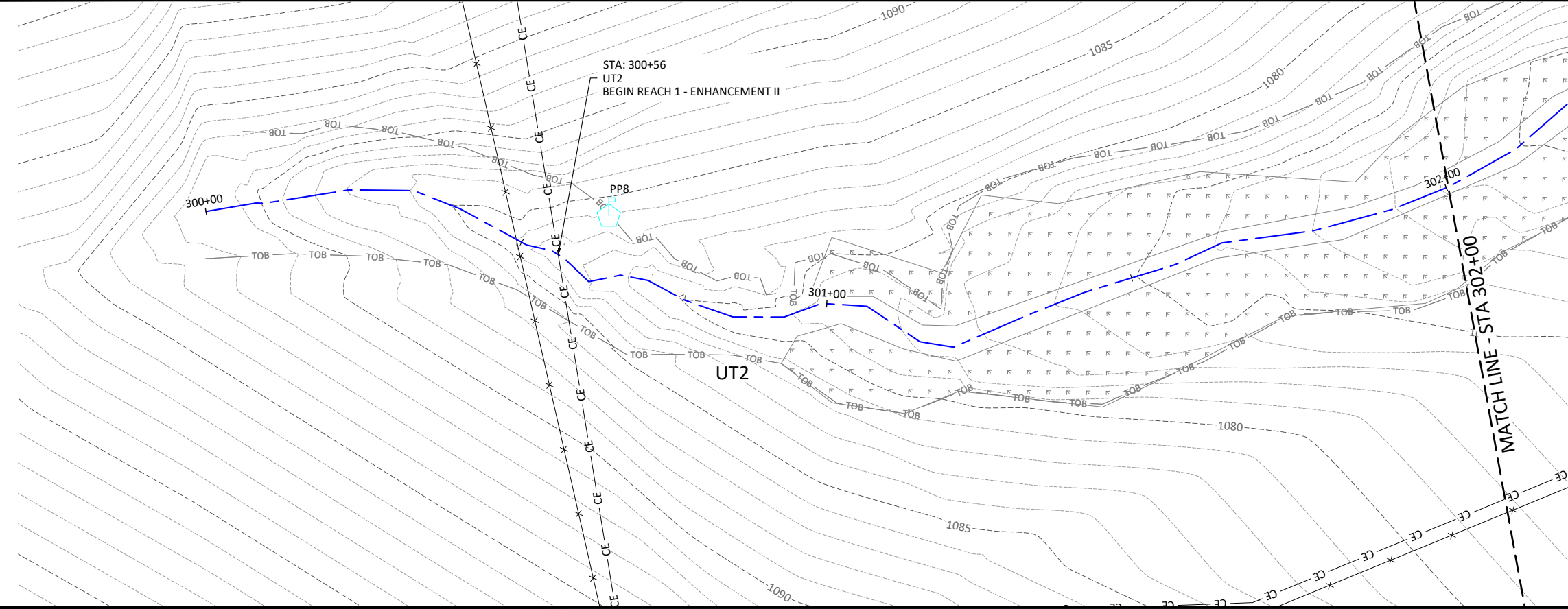
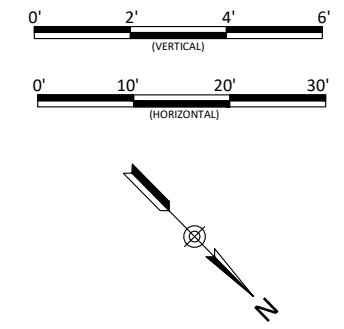
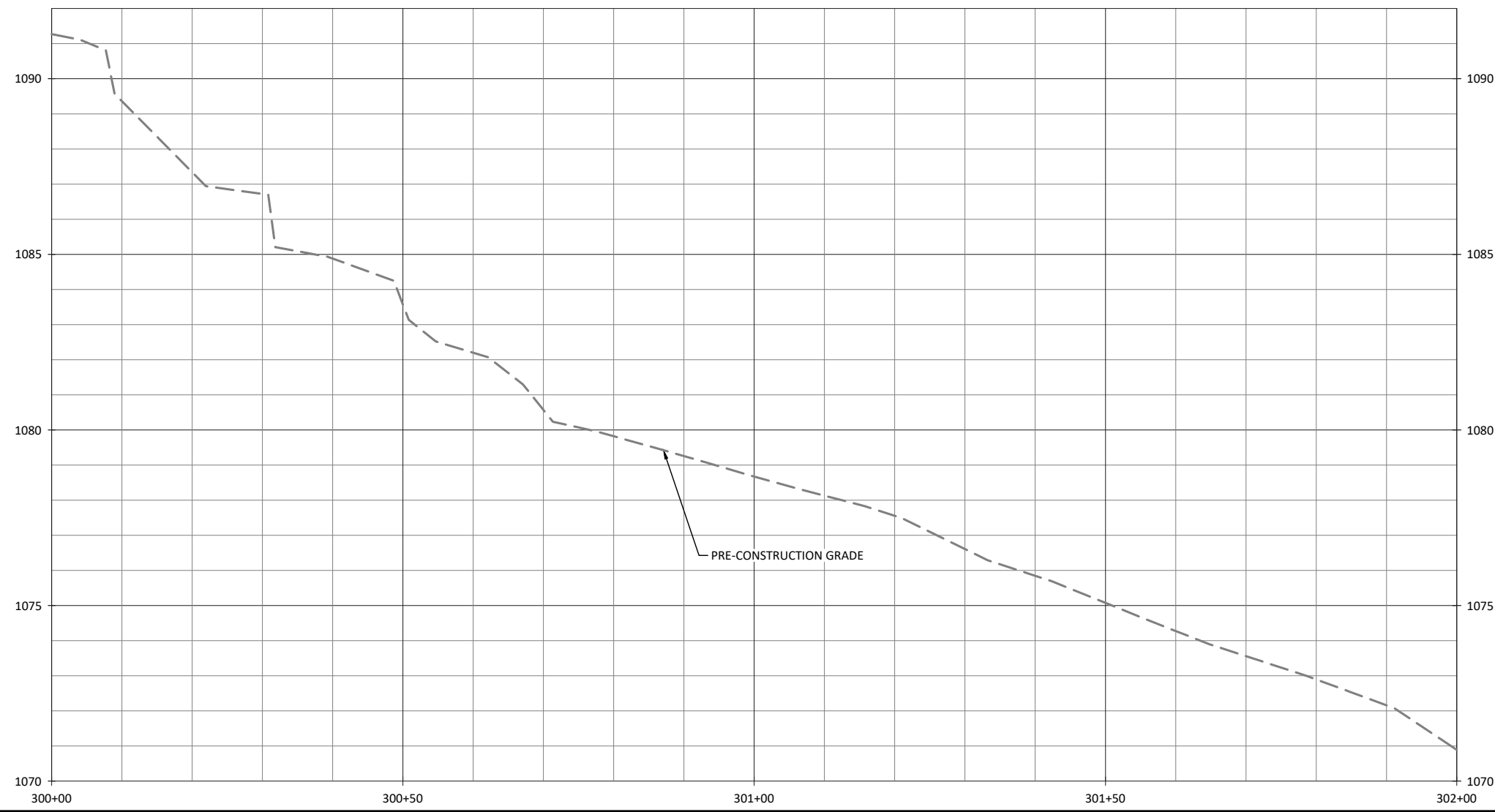
UT1
 Stream Plan and Profile

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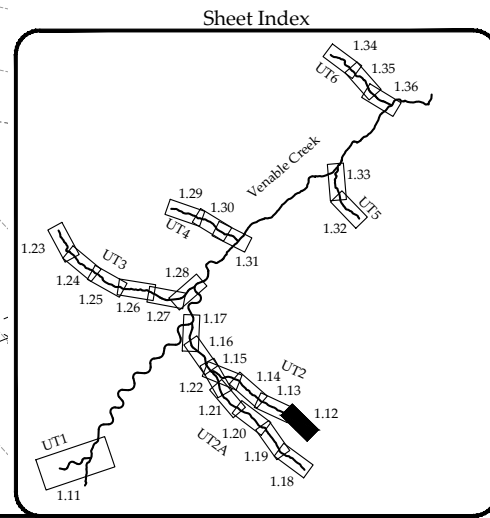
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 Job Number: 005-02123
 Project Engineer: ASE
 Drawn By: HCC
 Checked By: JCK

1.11





- ENHANCEMENT II TREATMENT:
1. TREAT INVASIVE VEGETATION.
 2. EXCLUDE CATTLE ACCESS.



Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT2
 Stream Plan and Profile

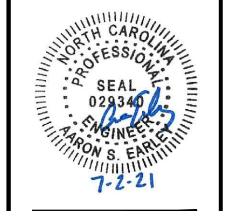
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Date:	JULY 2, 2021
Job Number:	005-02123
Project Engineer:	ASE
Drawn By:	HCC
Checked By:	JCK

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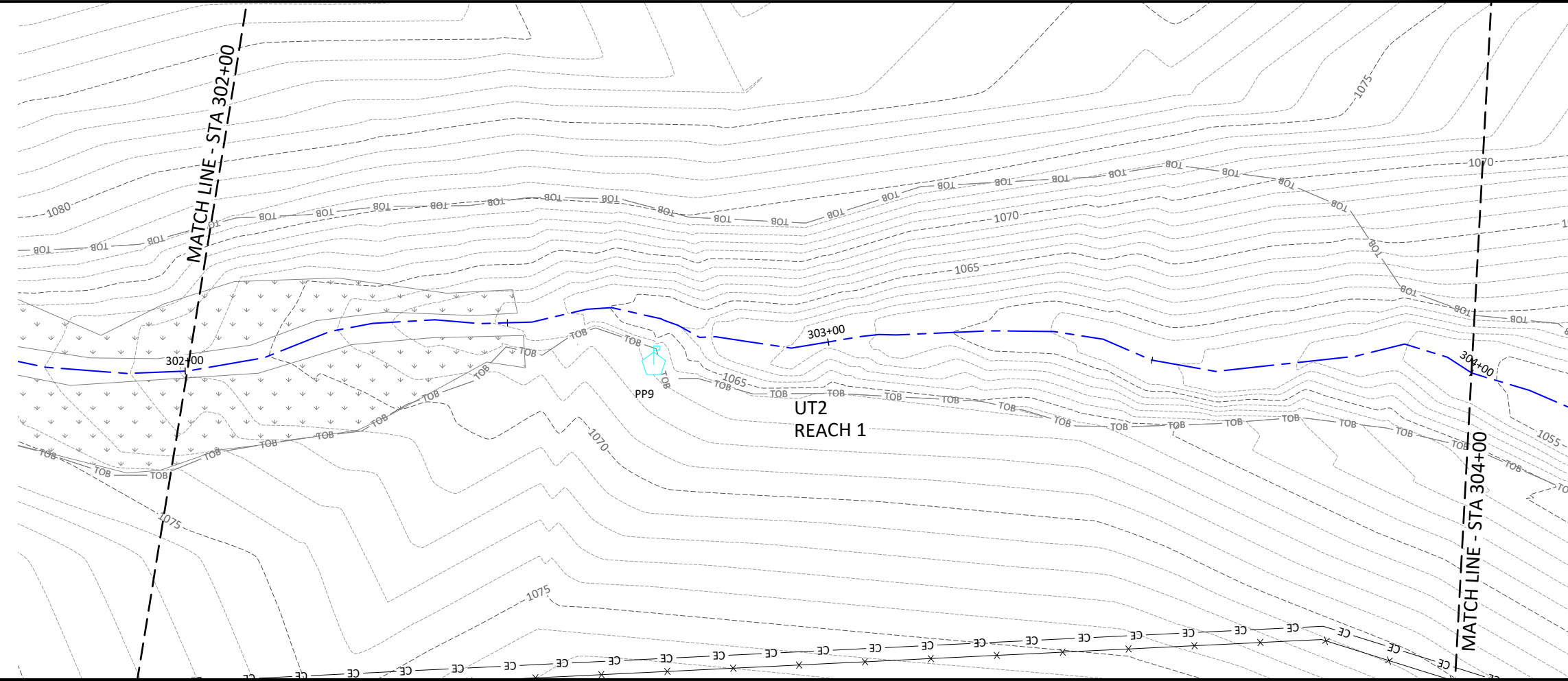
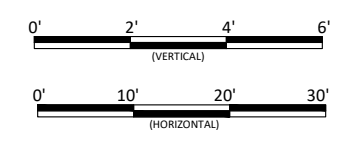
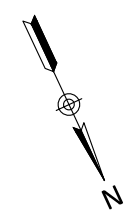
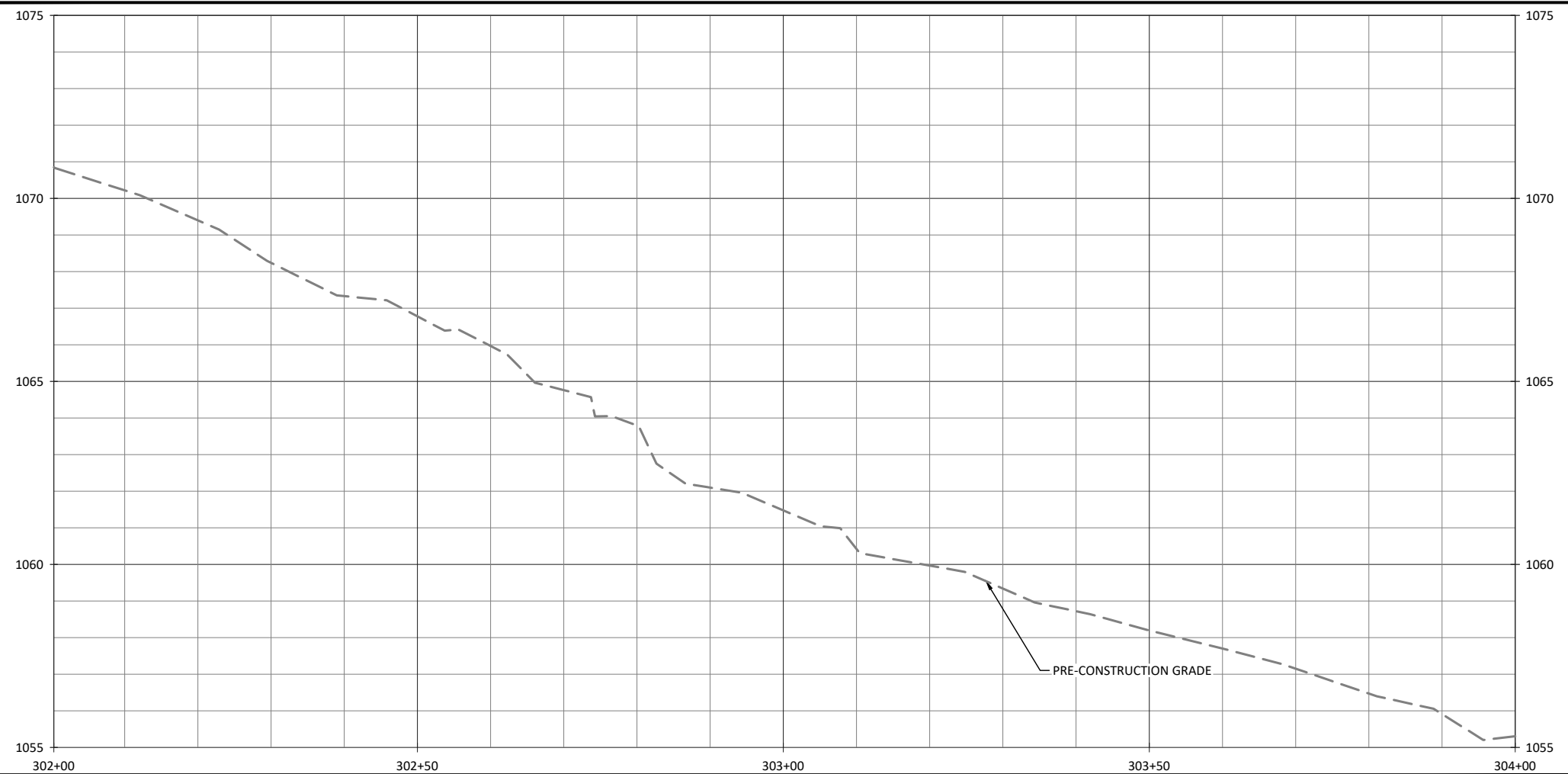
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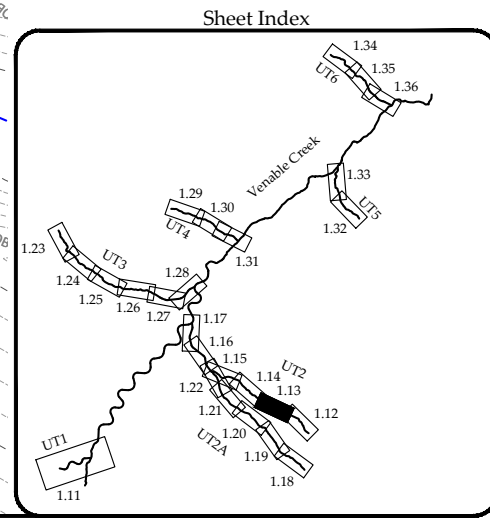


June 30, 2021

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- ENHANCEMENT II TREATMENT:
1. TREAT INVASIVE VEGETATION.
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Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT2
Stream Plan and Profile

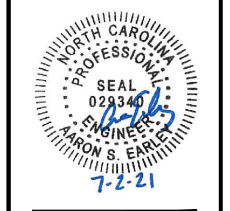
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Date: JULY 2, 2021
Job Number: 005-02123
Project Engineer: ASE
Drawn By: HCC
Checked By: JCK

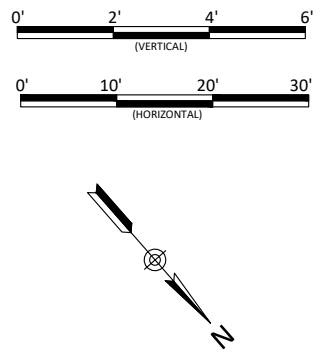
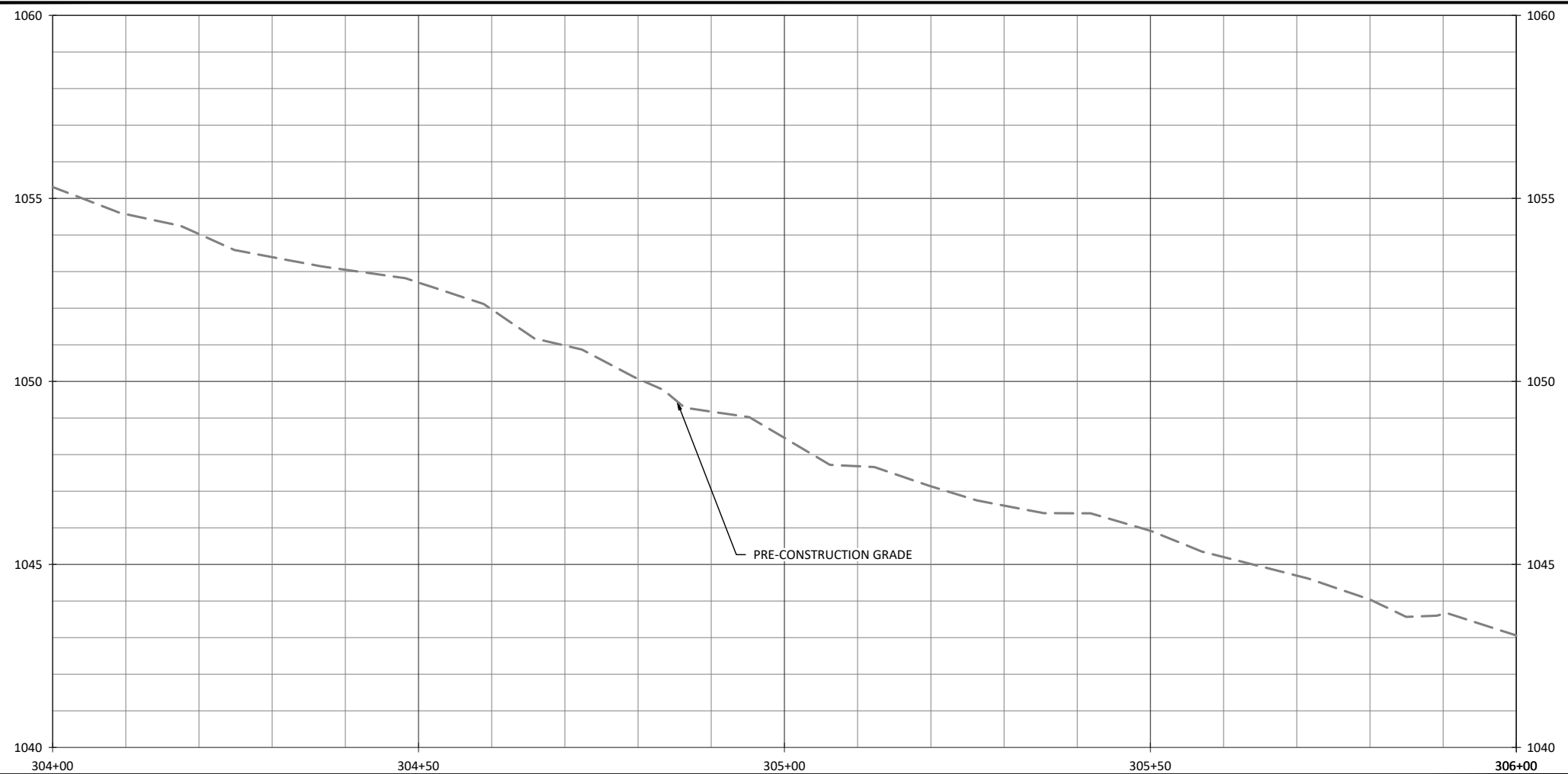
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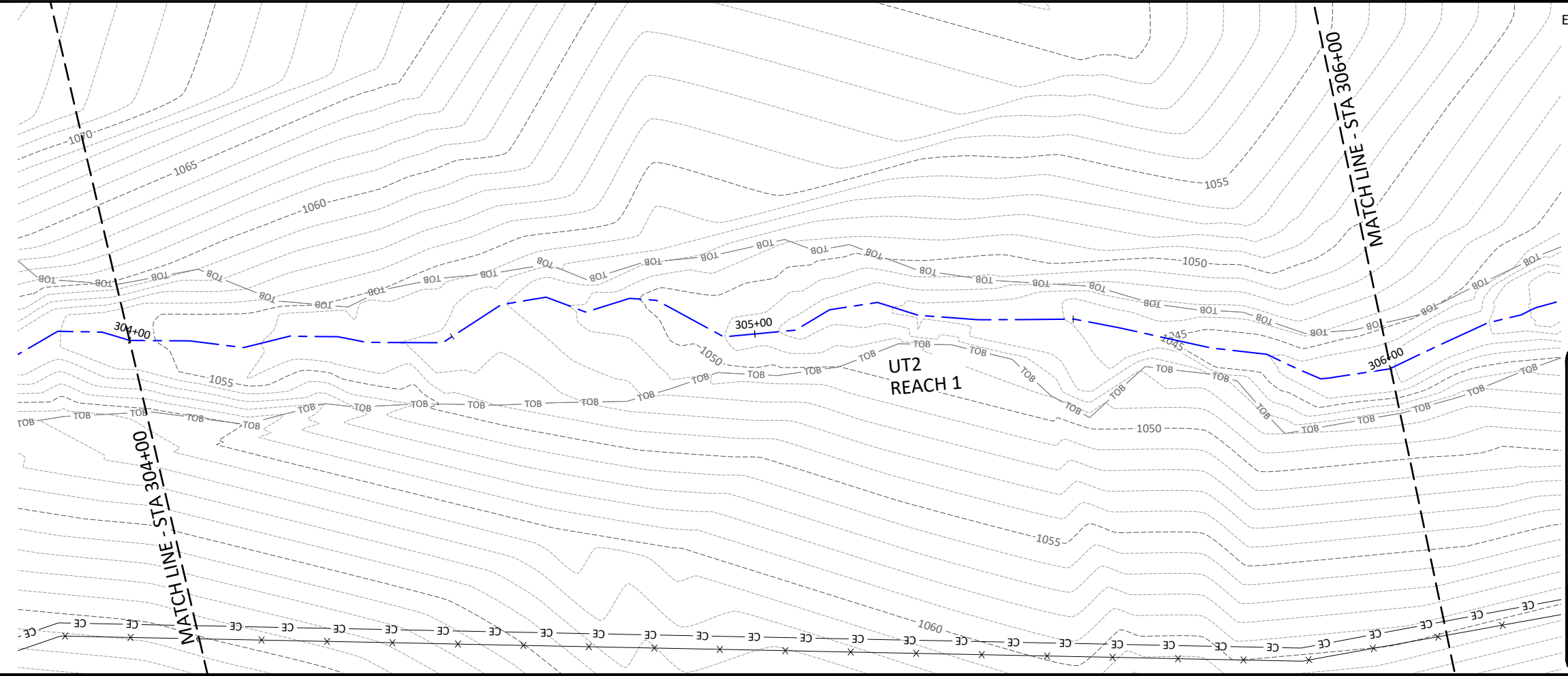
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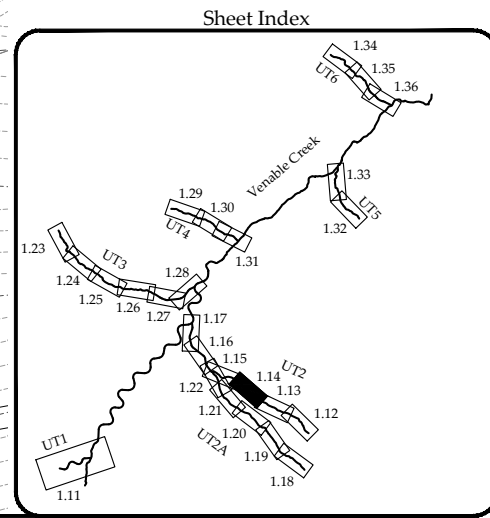
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- ENHANCEMENT II TREATMENT:
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Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT2
Stream Plan and Profile

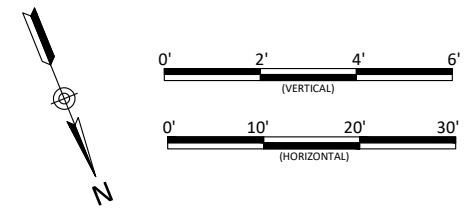
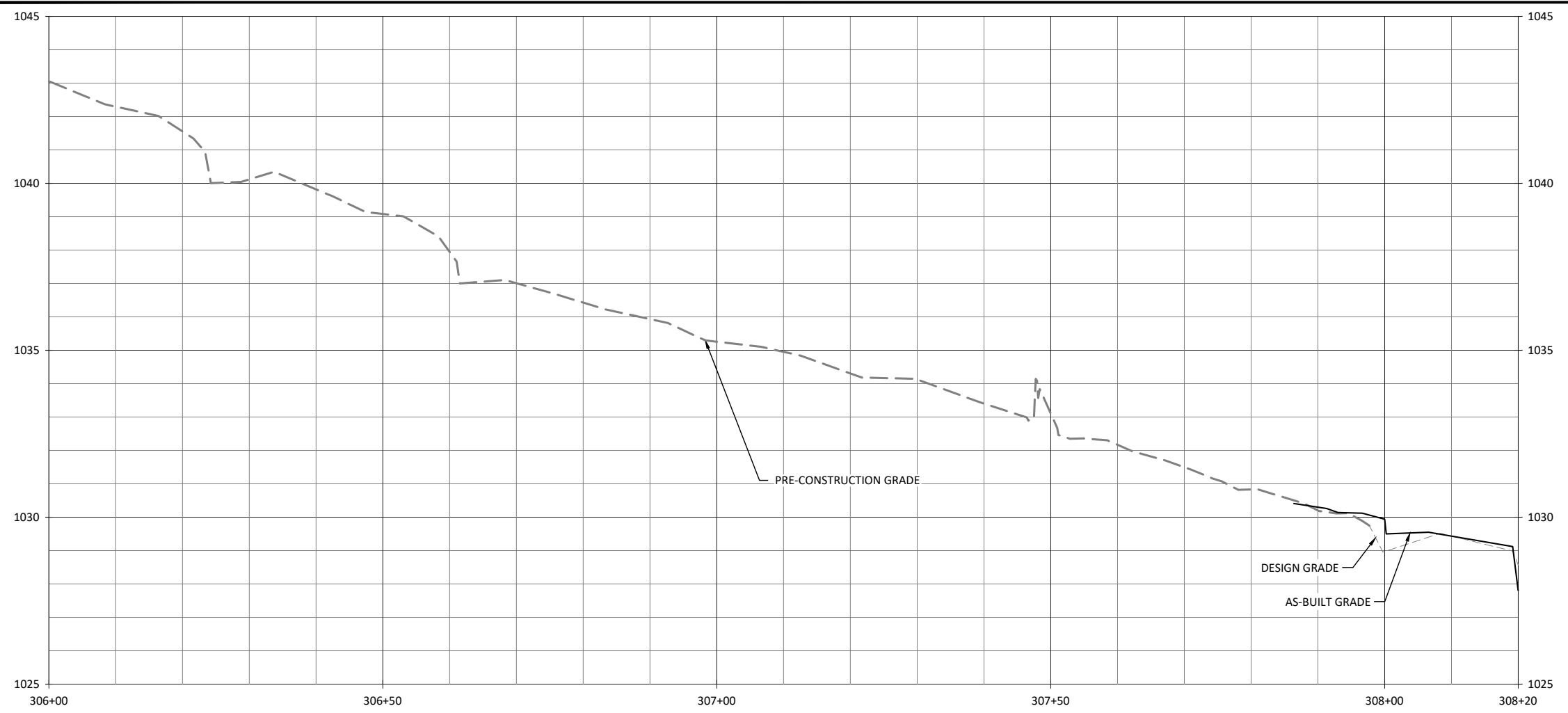
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Date: JULY 2, 2021
Job Number: 005-02123
Project Engineer: ASE
Drawn By: HCC
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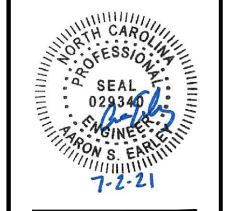
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June 30, 2021

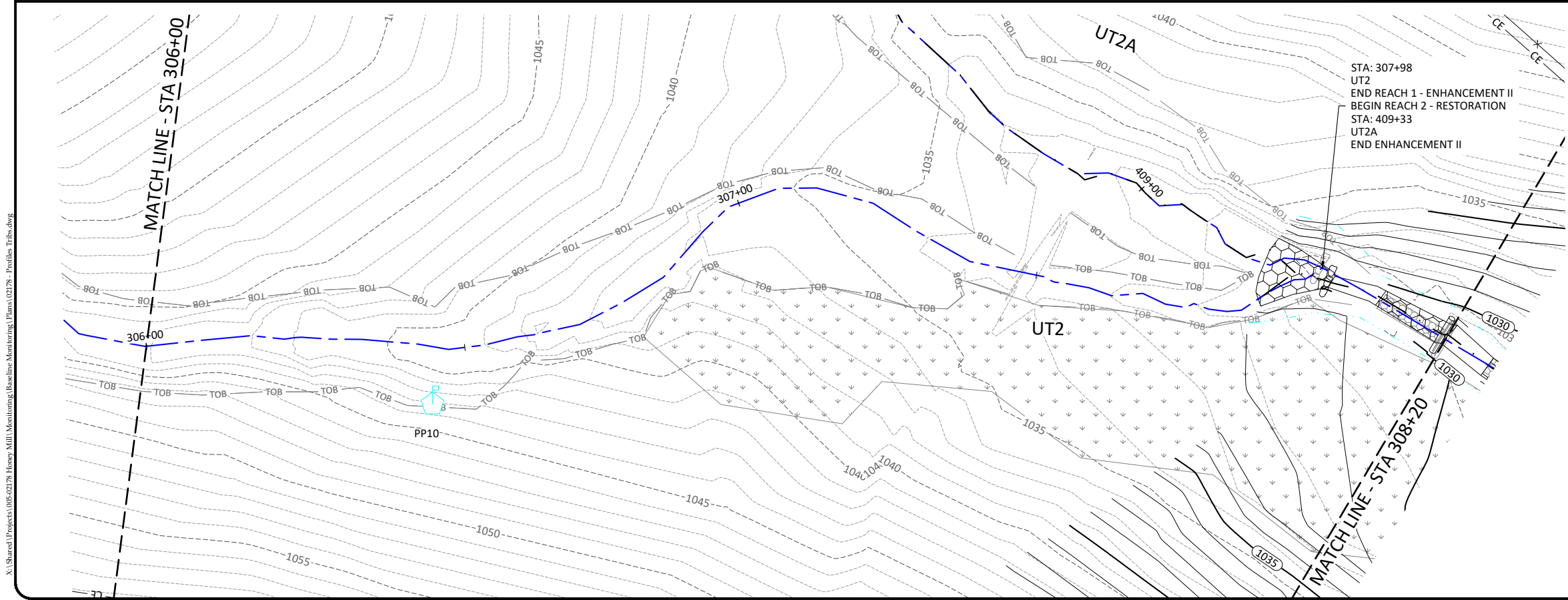


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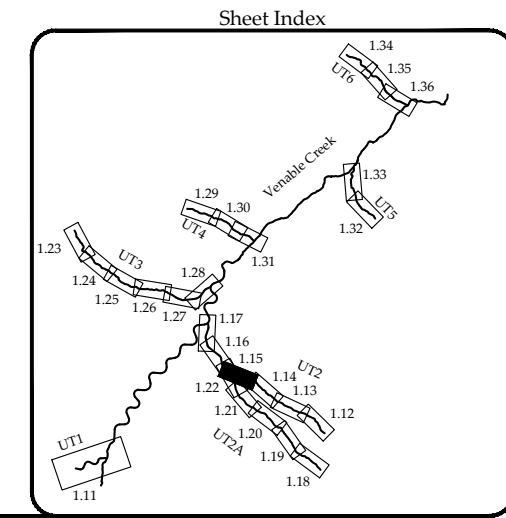


Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT2
Stream Plan and Profile



- ENHANCEMENT II TREATMENT:
1. TREAT INVASIVE VEGETATION.
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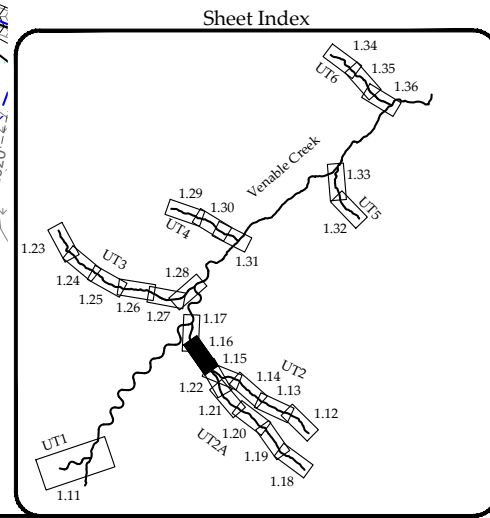
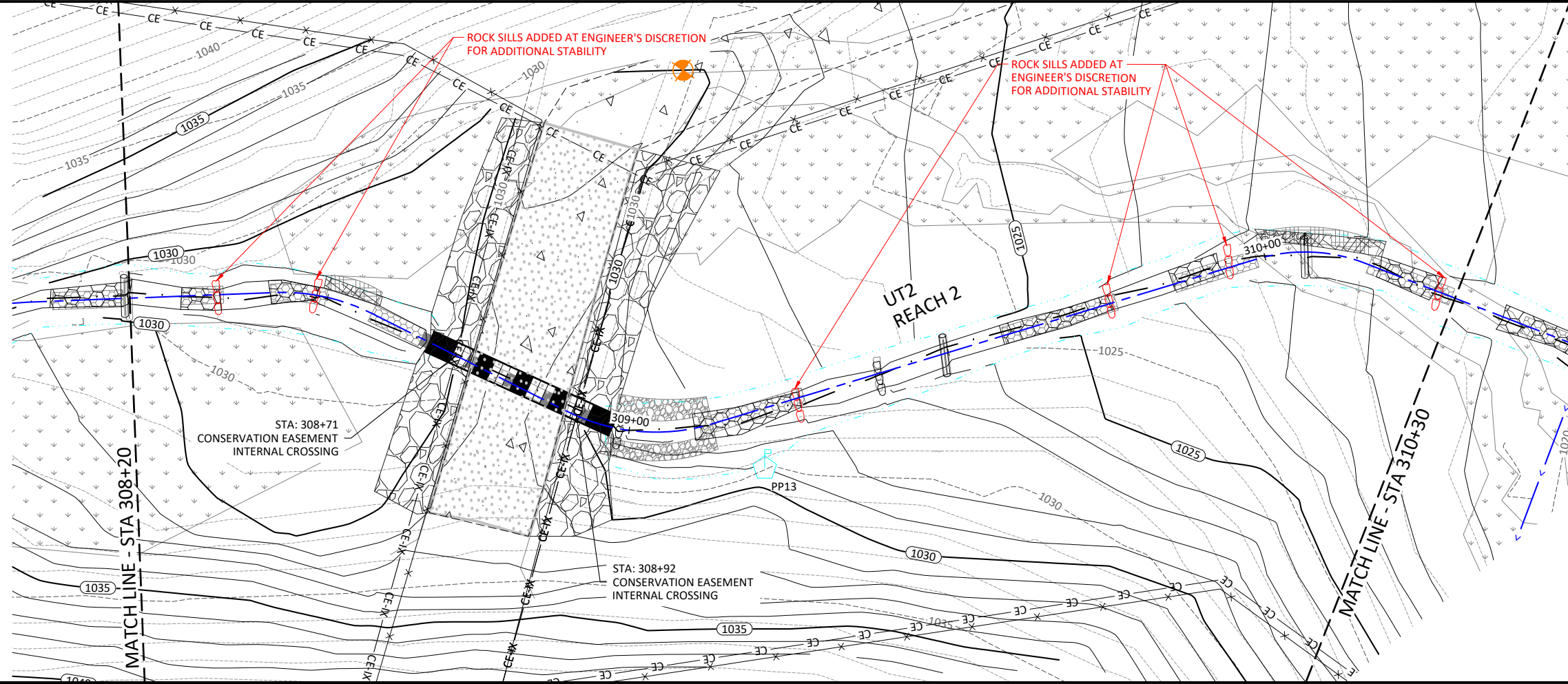
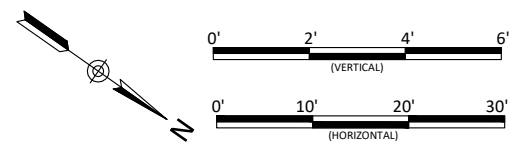
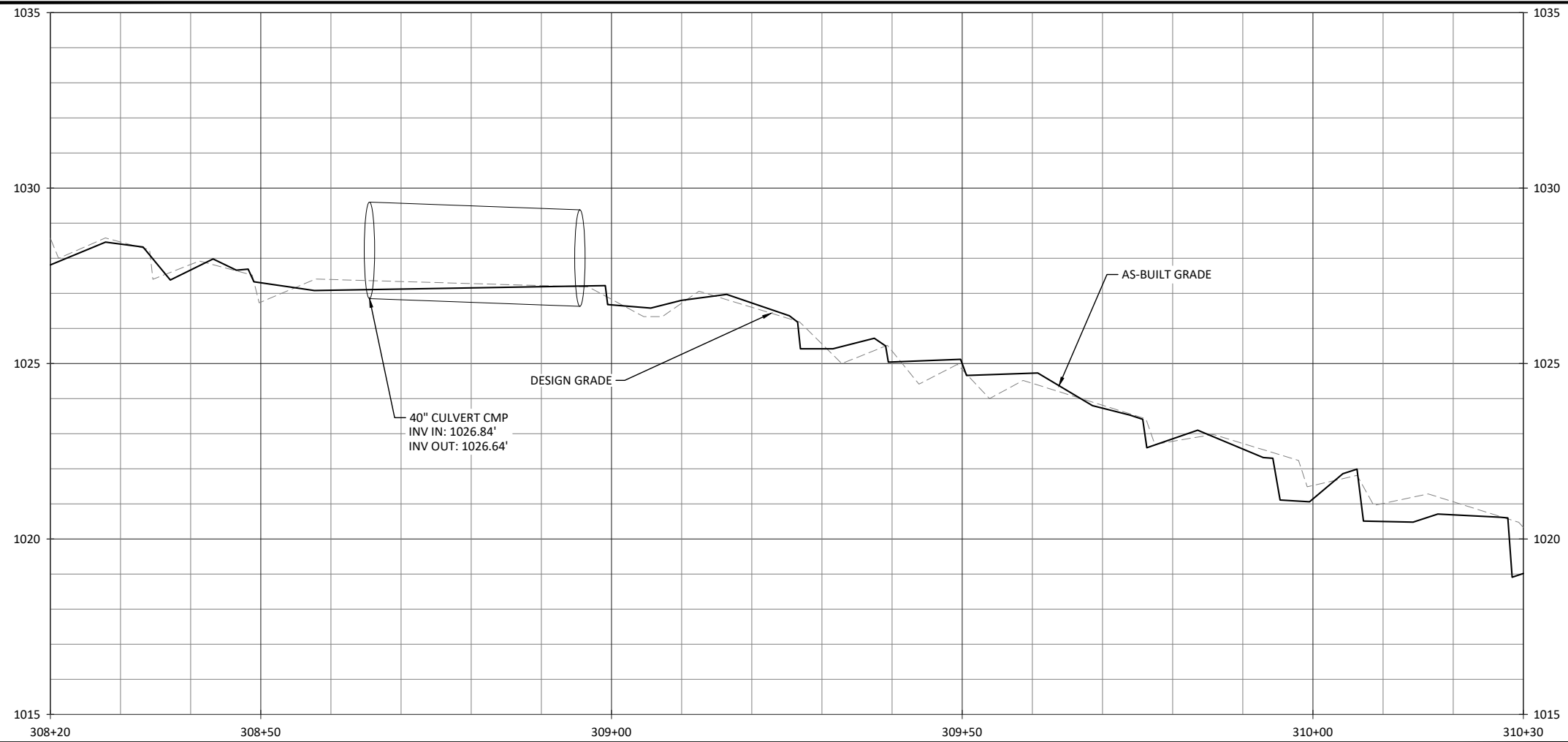
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Project Engineer: ASE
Drawn By: HCC
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT2
 Stream Plan and Profile

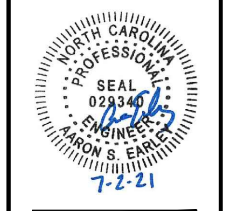
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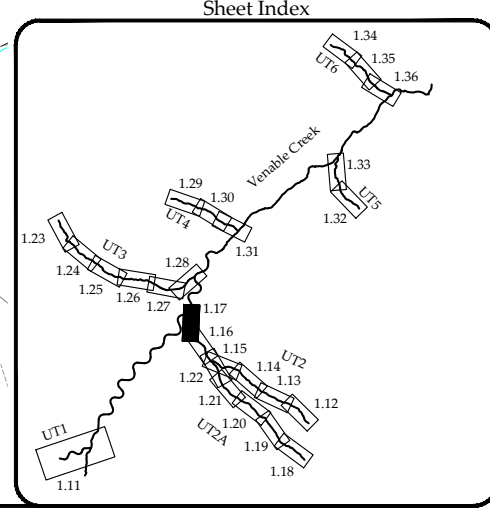
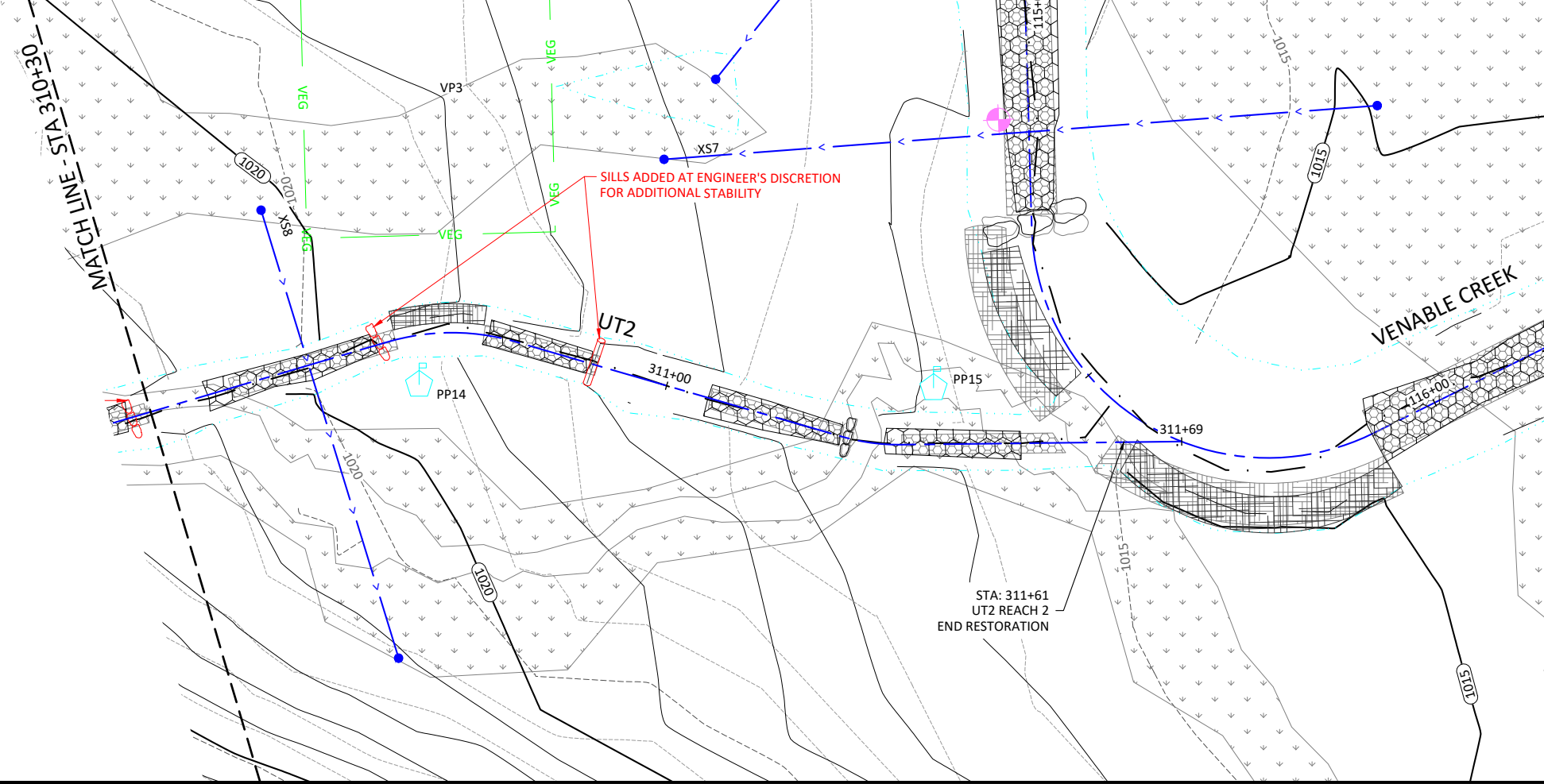
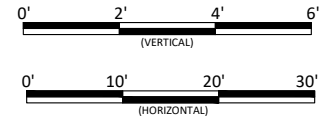
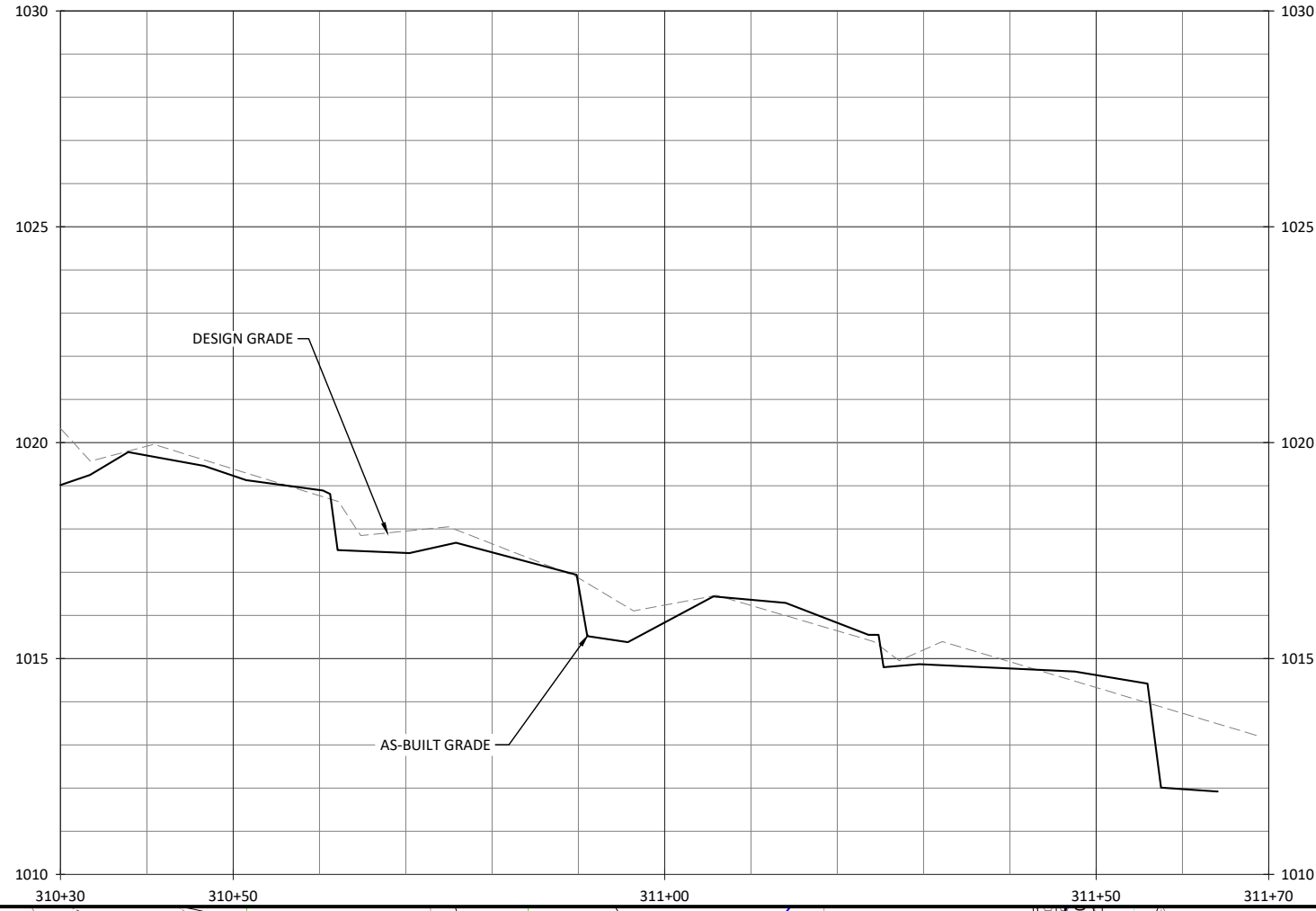
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 Project Engineer: ASE
 Drawn By: HCC
 Checked By: JCK

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 Surry County, North Carolina

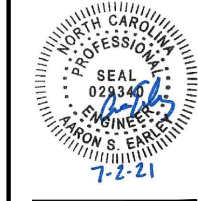
UT2
 Stream Plan and Profile

Revisions:

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Job Number:	005-02123
Project Engineer:	ASE
Drawn By:	HCC
Checked By:	JCK

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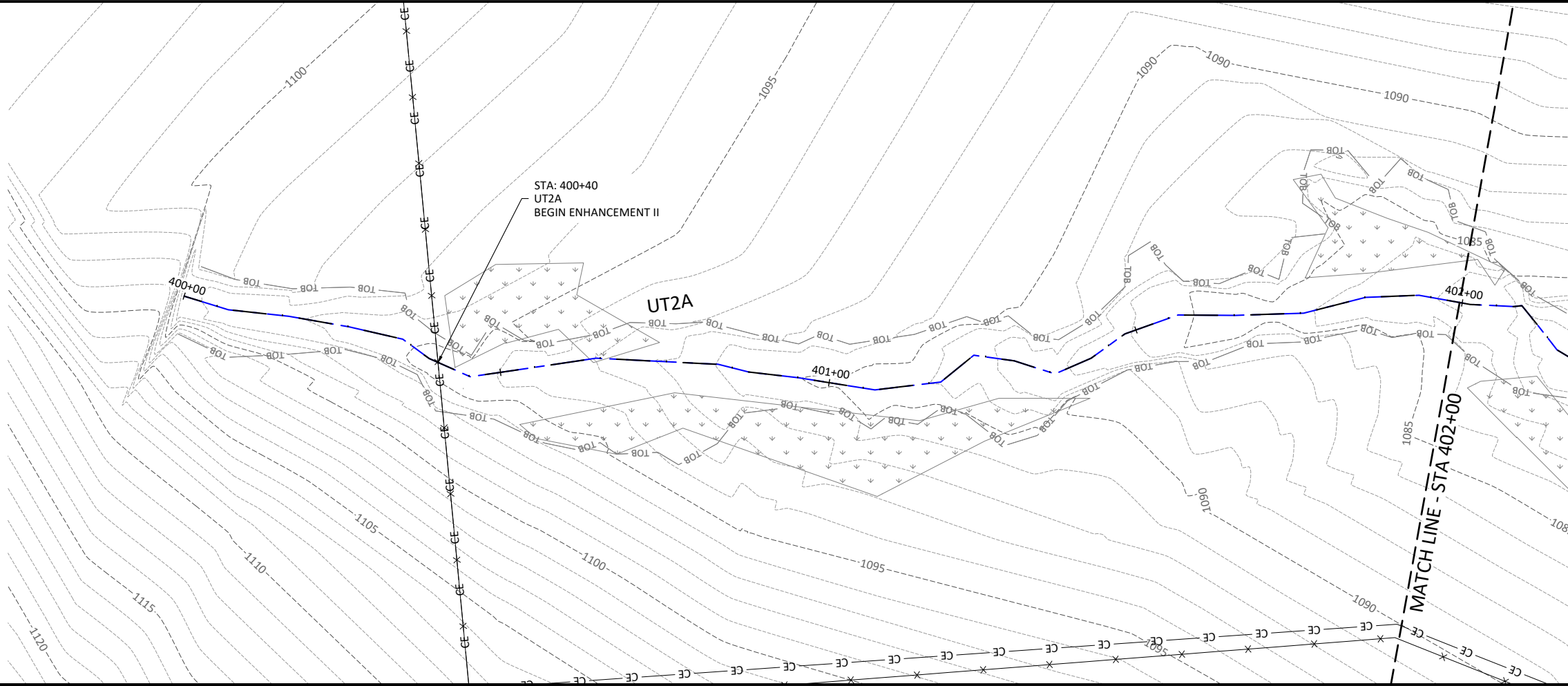
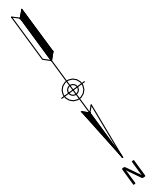
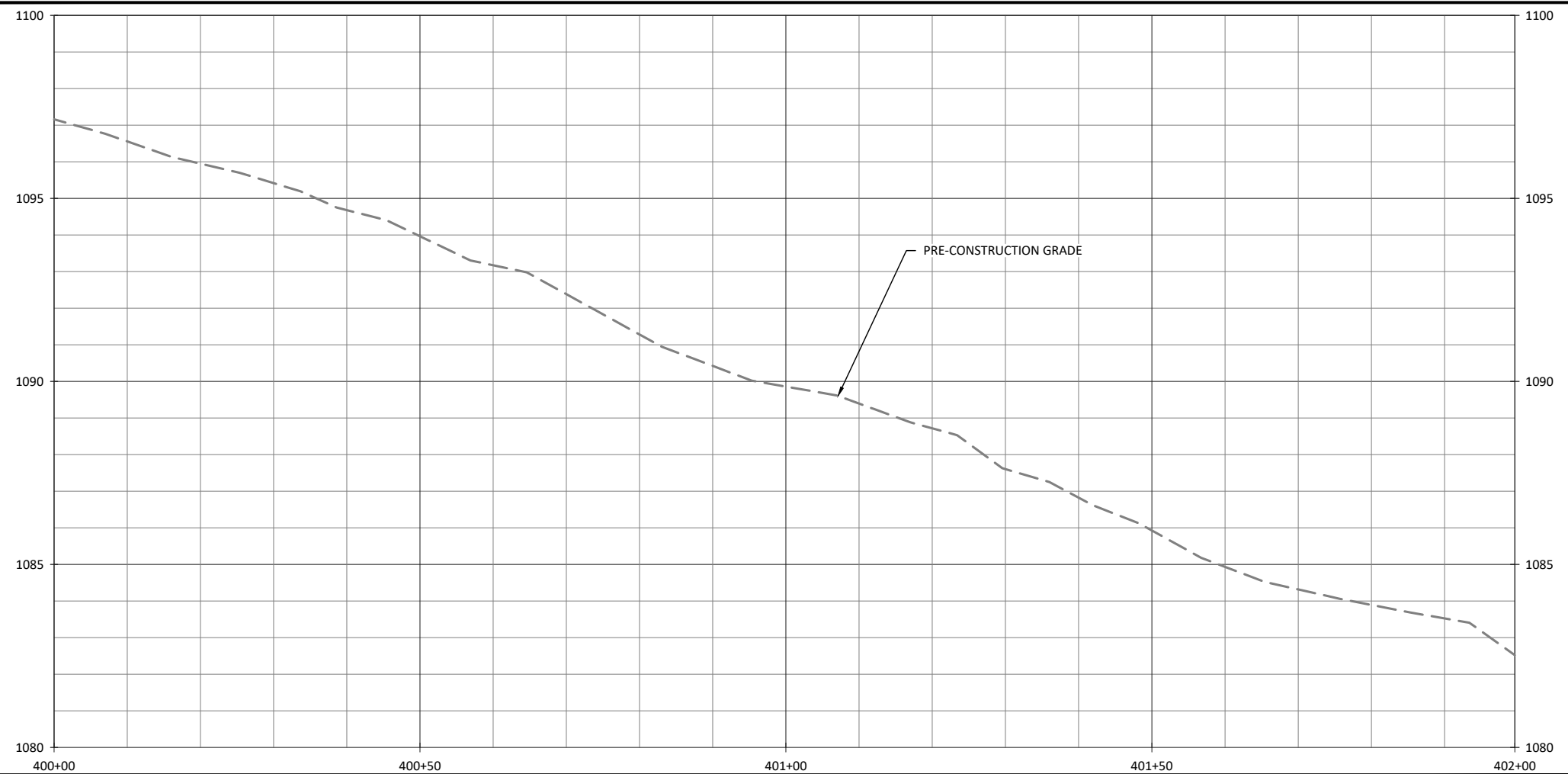
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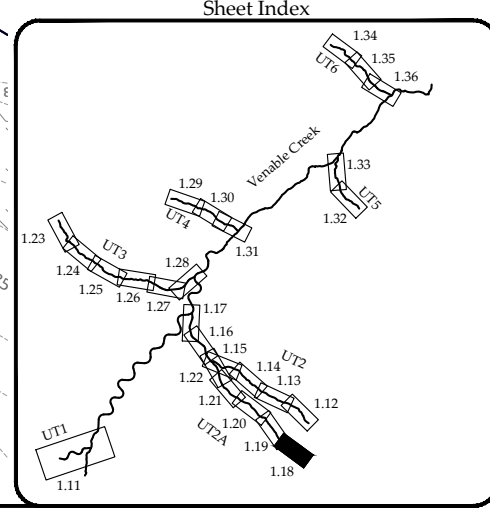
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June 30, 2021

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- ENHANCEMENT II TREATMENT:
1. TREAT INVASIVE VEGETATION.
 2. EXCLUDE CATTLE ACCESS.



Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT2A
 Stream Plan and Profile

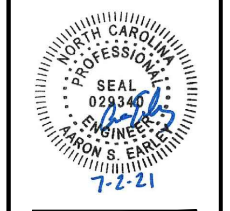
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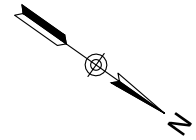
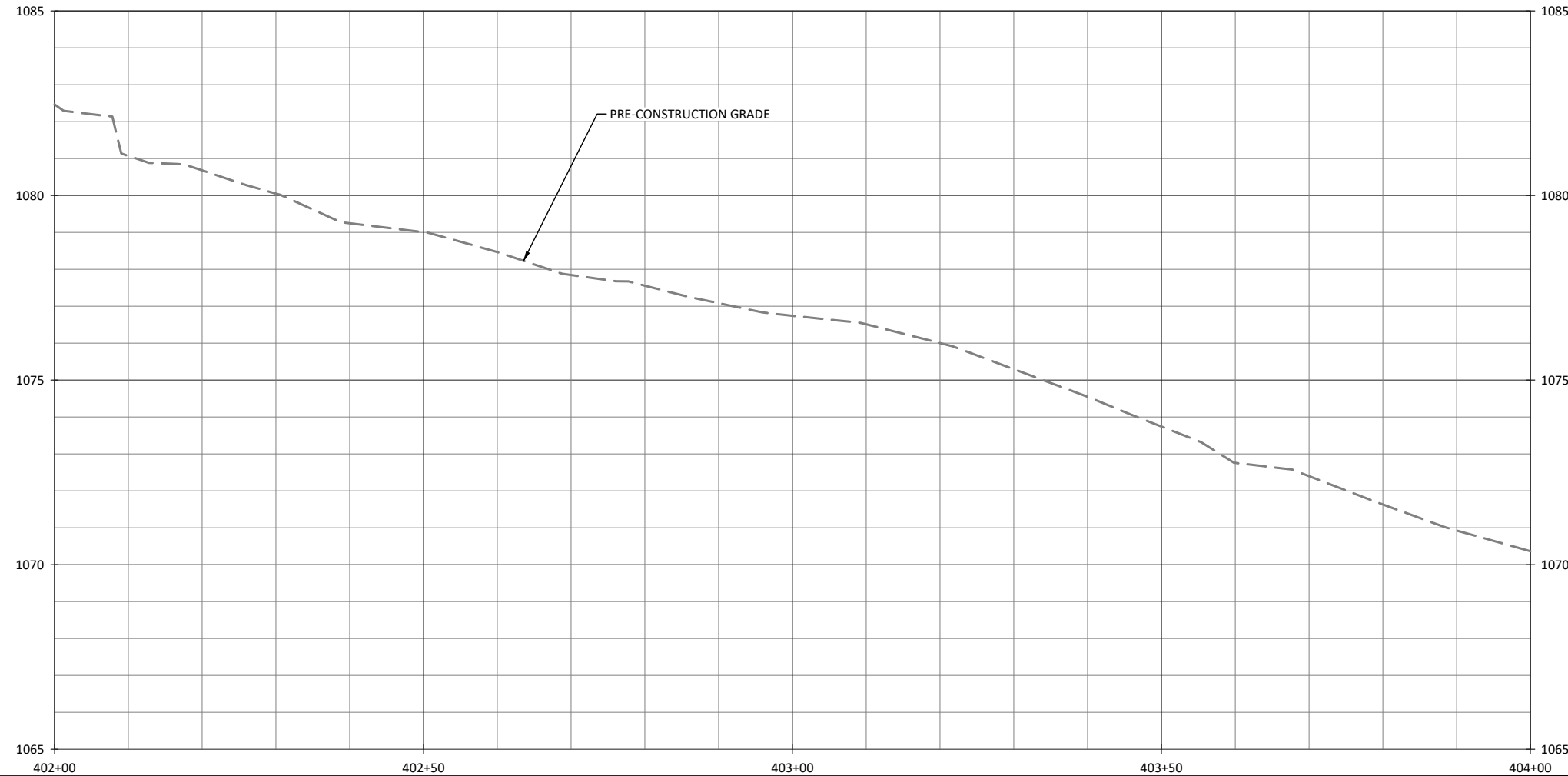
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 Project Engineer: ASE
 Drawn By: HCC
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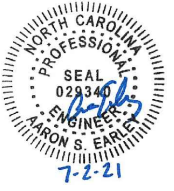
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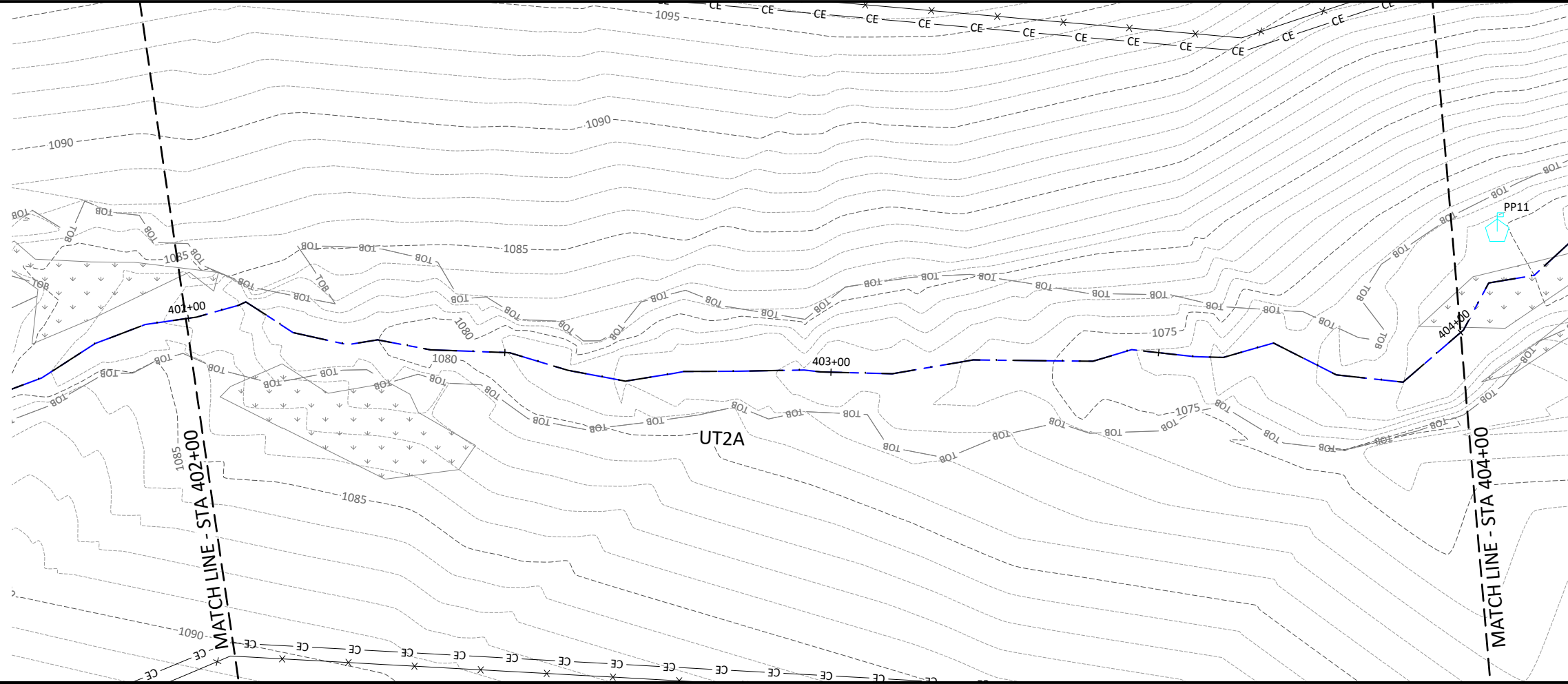


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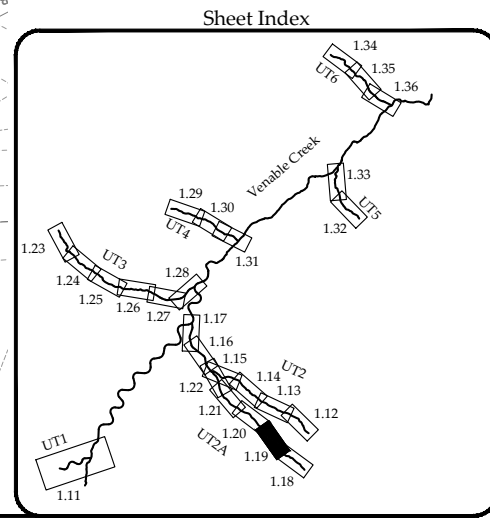


Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT2A
Stream Plan and Profile



- ENHANCEMENT II TREATMENT:
1. TREAT INVASIVE VEGETATION.
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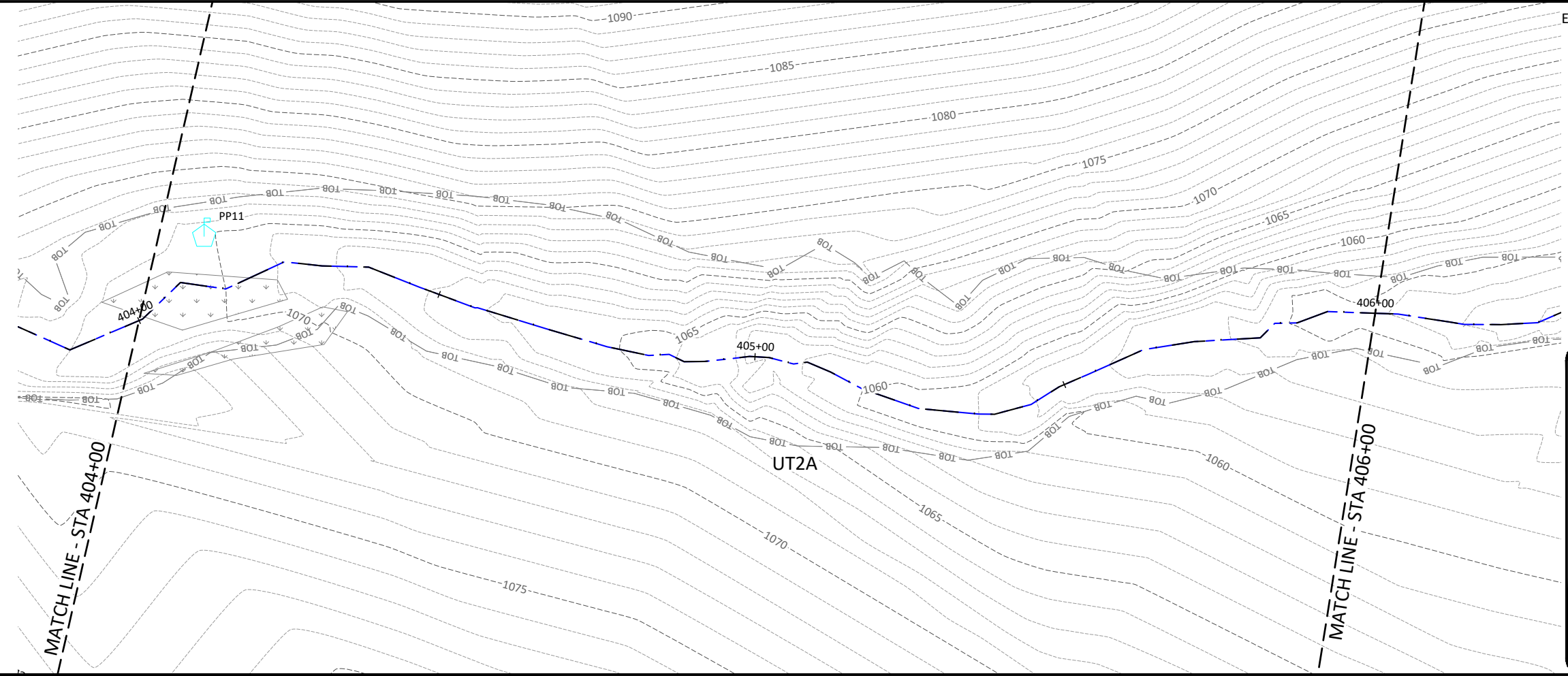
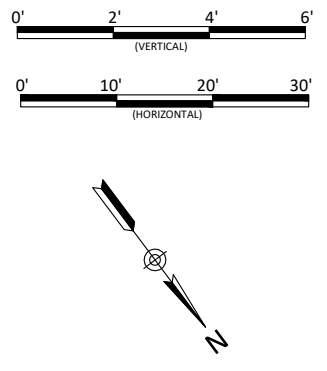
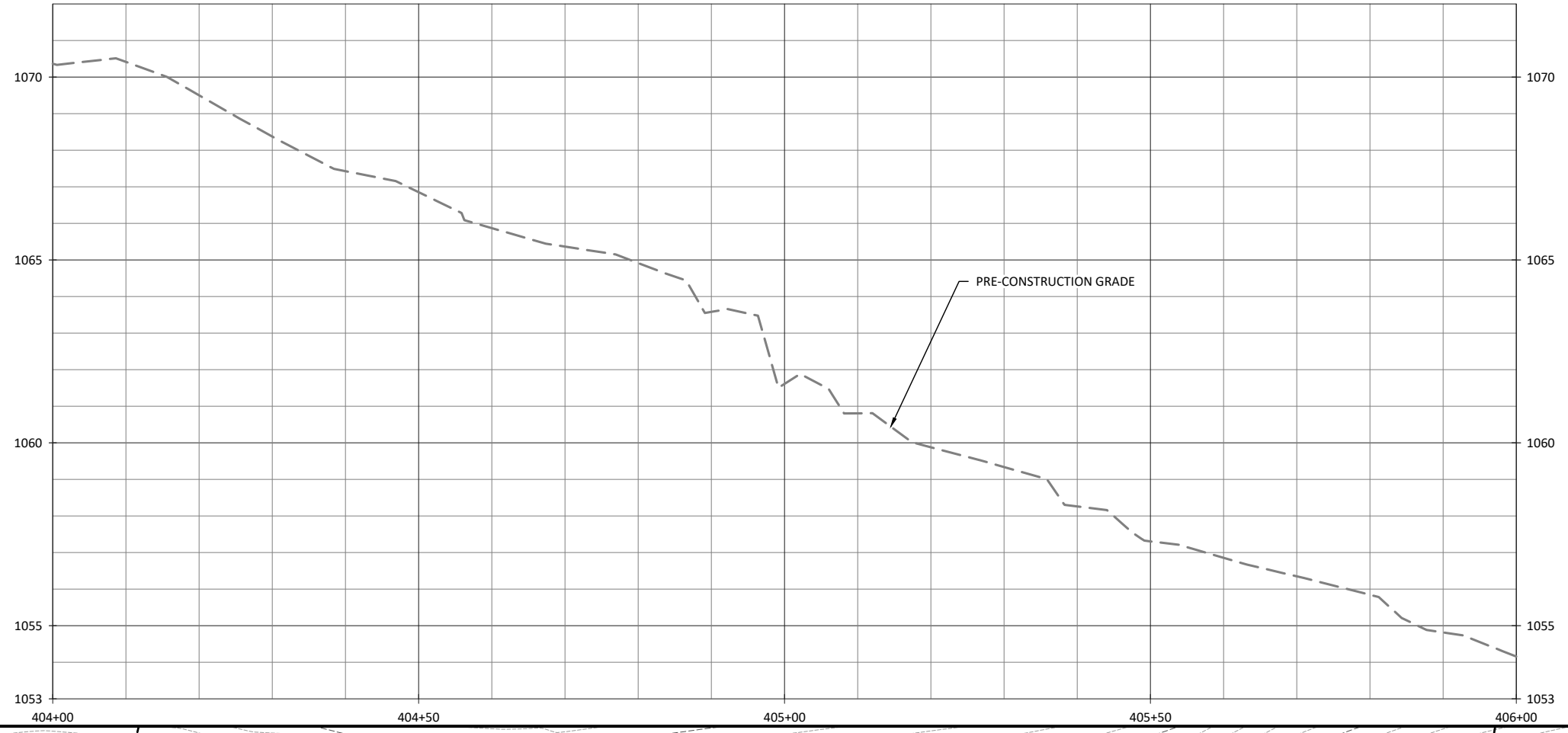
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Job Number:	005-02123
Project Engineer:	ASE
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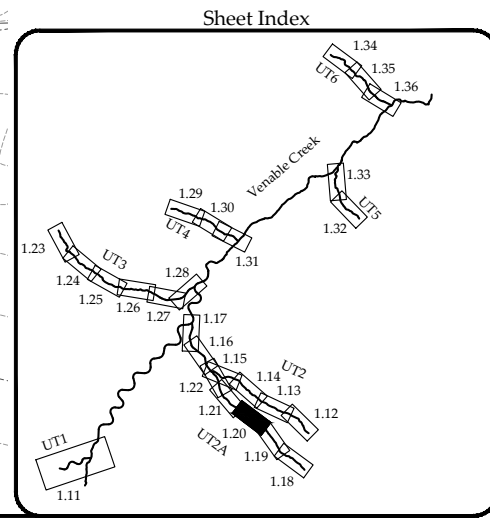
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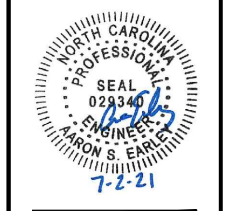
- ENHANCEMENT II TREATMENT:
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT2A
 Stream Plan and Profile

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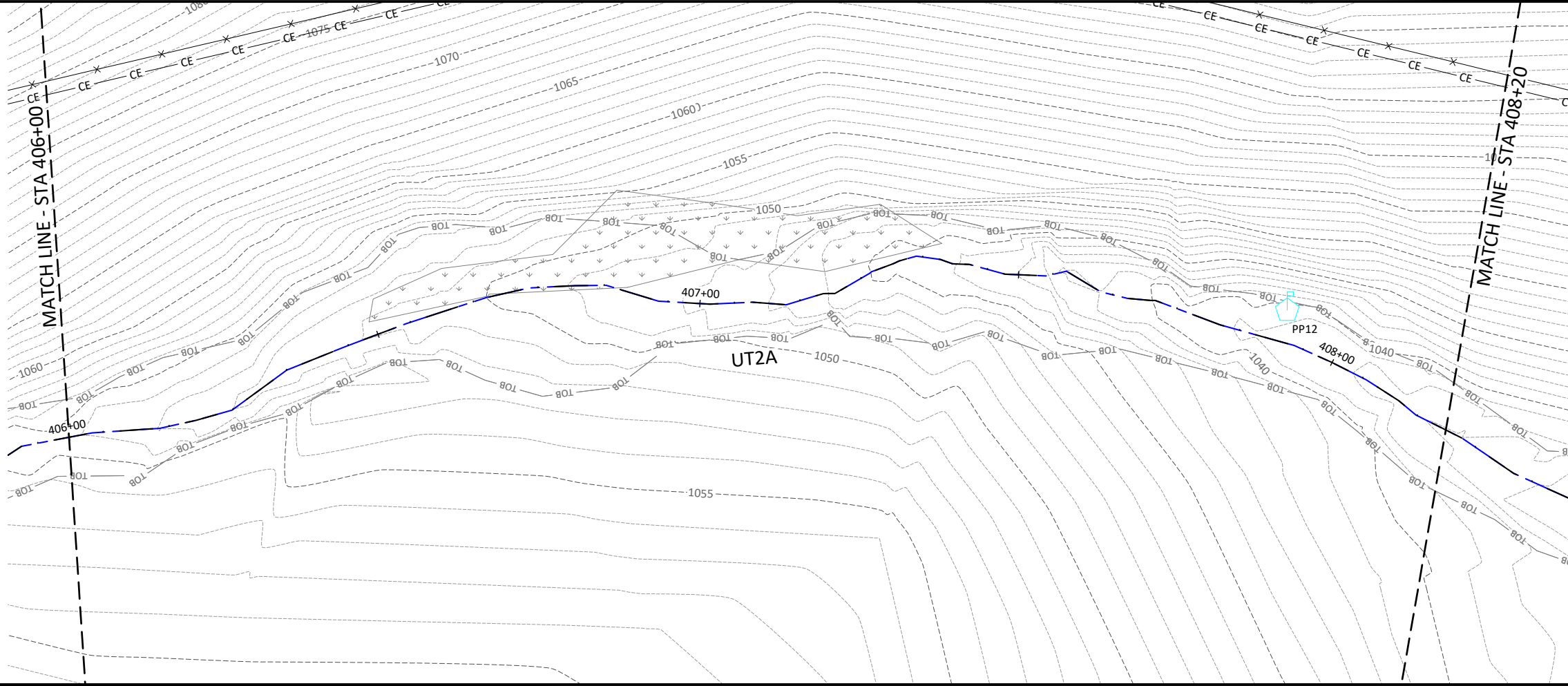
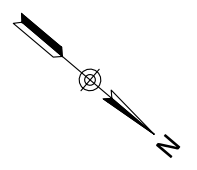
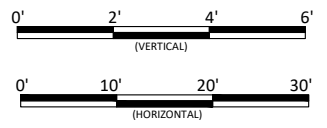
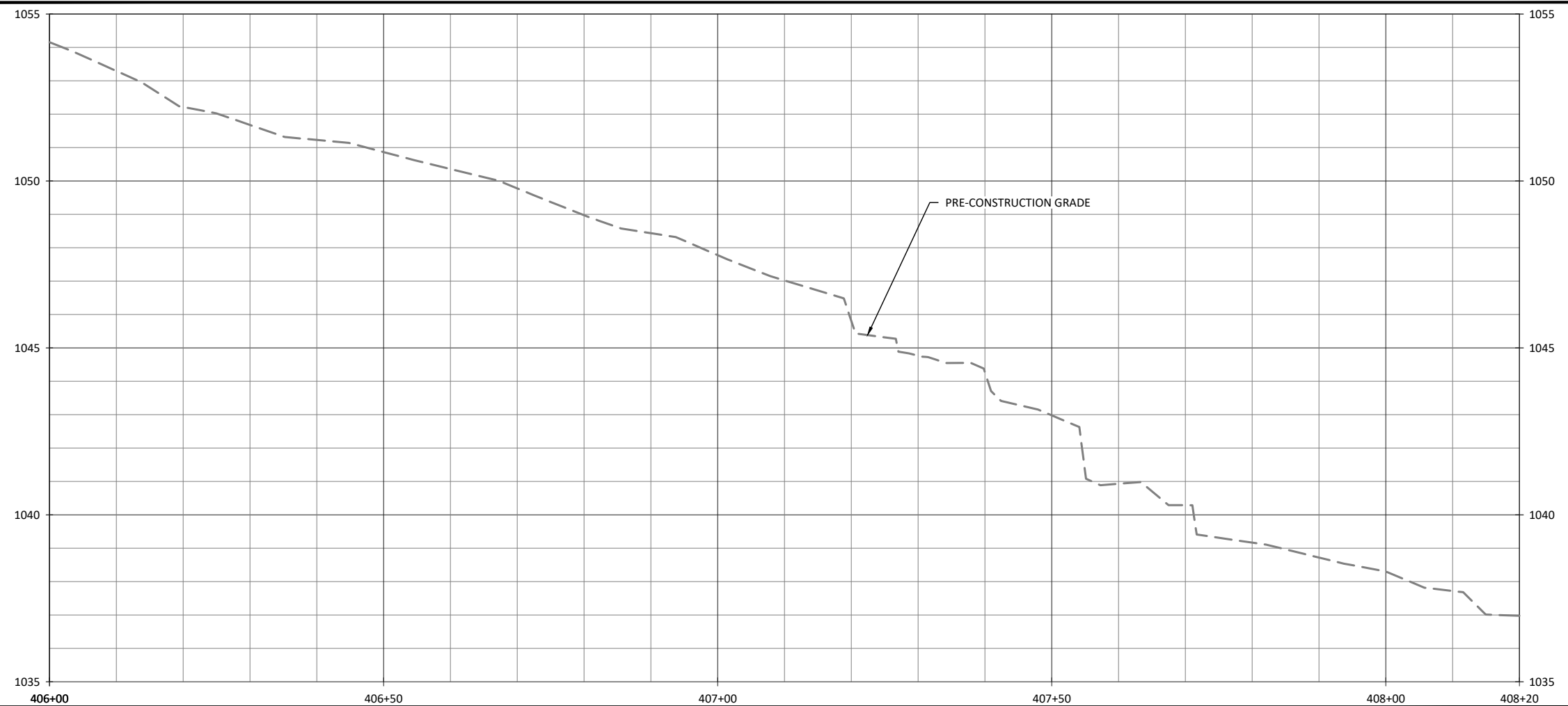
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 Project Engineer: ASE
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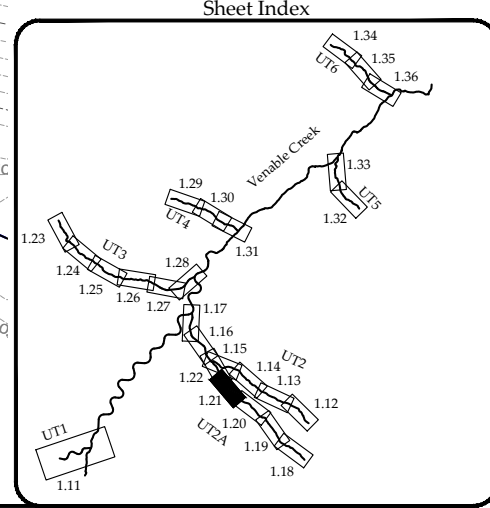
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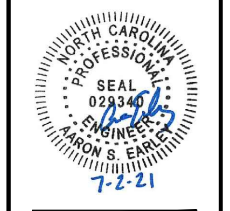


- ENHANCEMENT II TREATMENT:
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT2A
 Stream Plan and Profile



Revisions:

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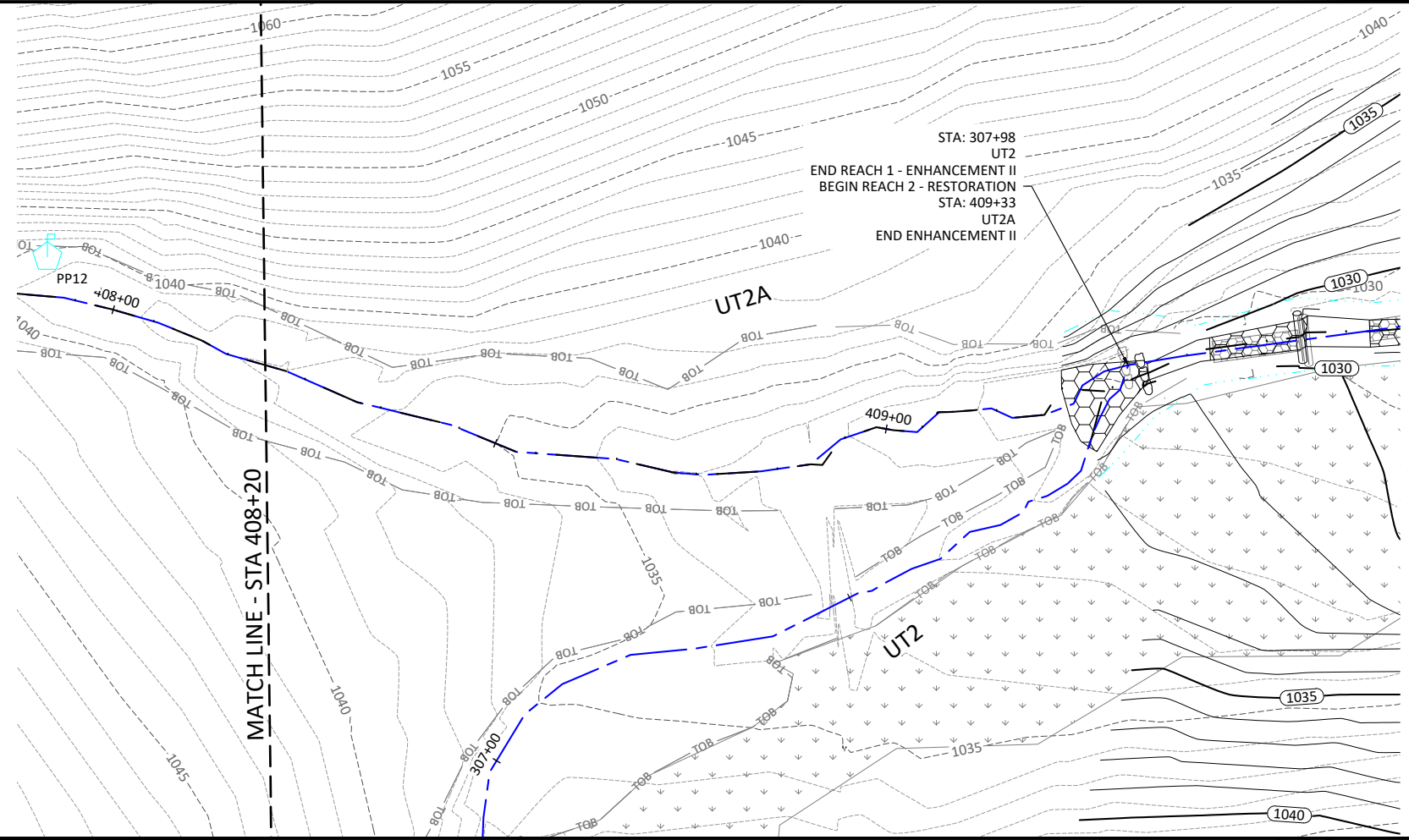
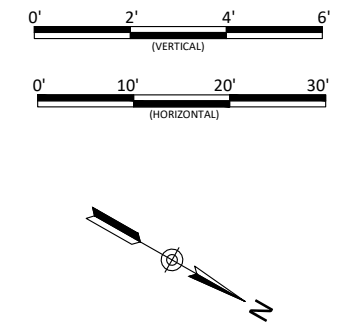
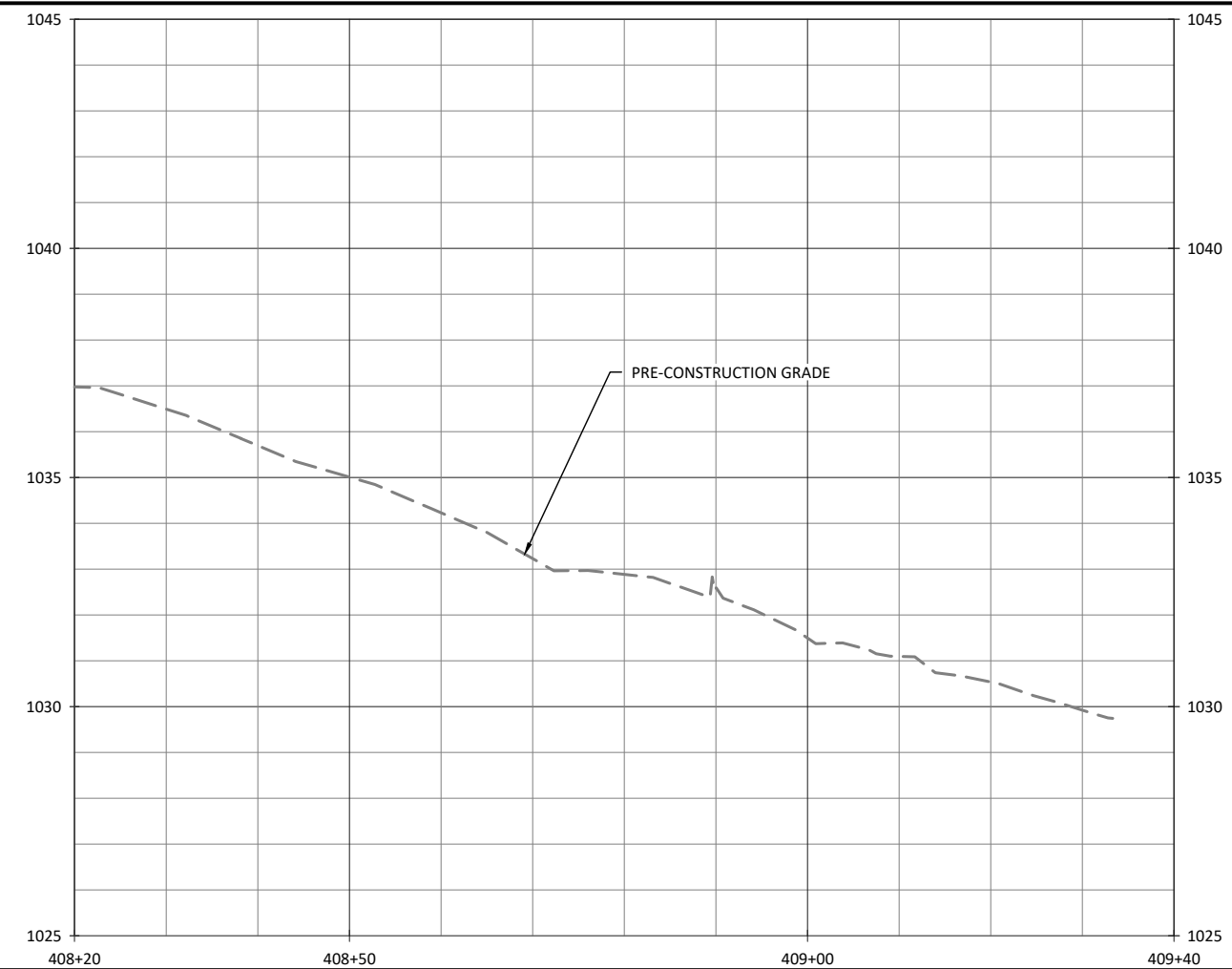
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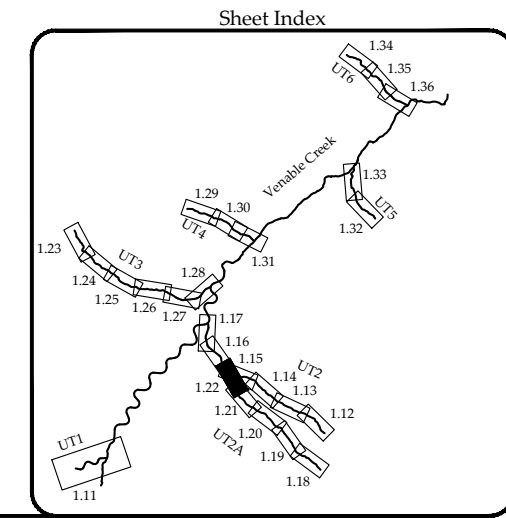
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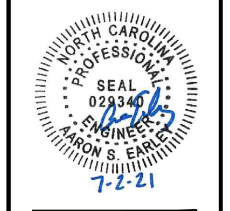
- ENHANCEMENT II TREATMENT:
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT2A
 Stream Plan and Profile

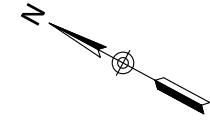
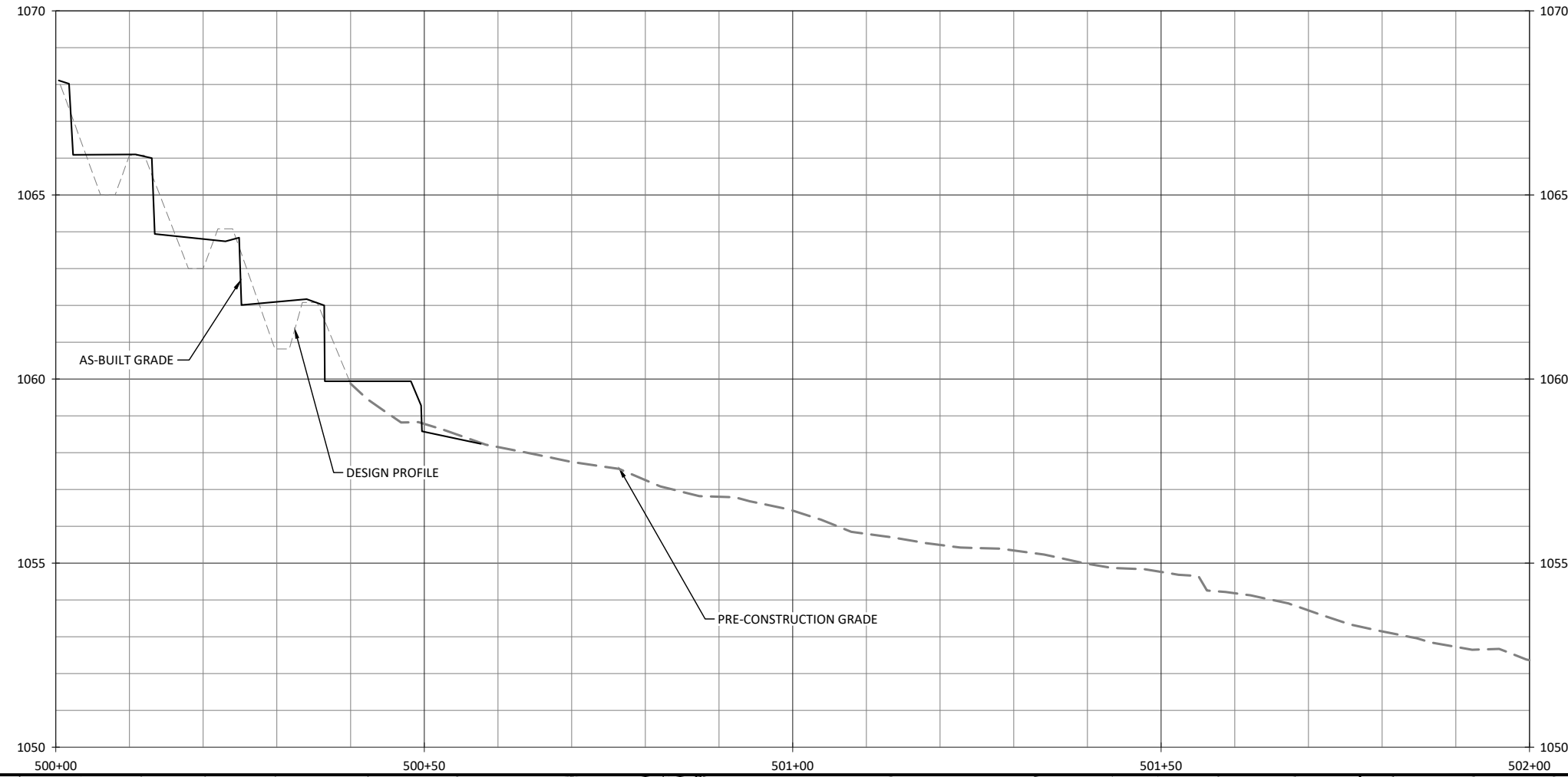
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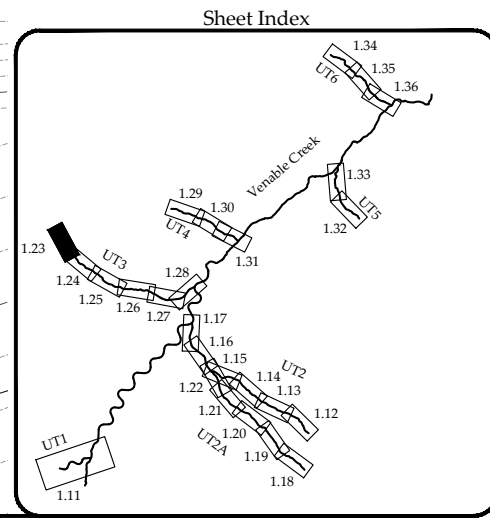
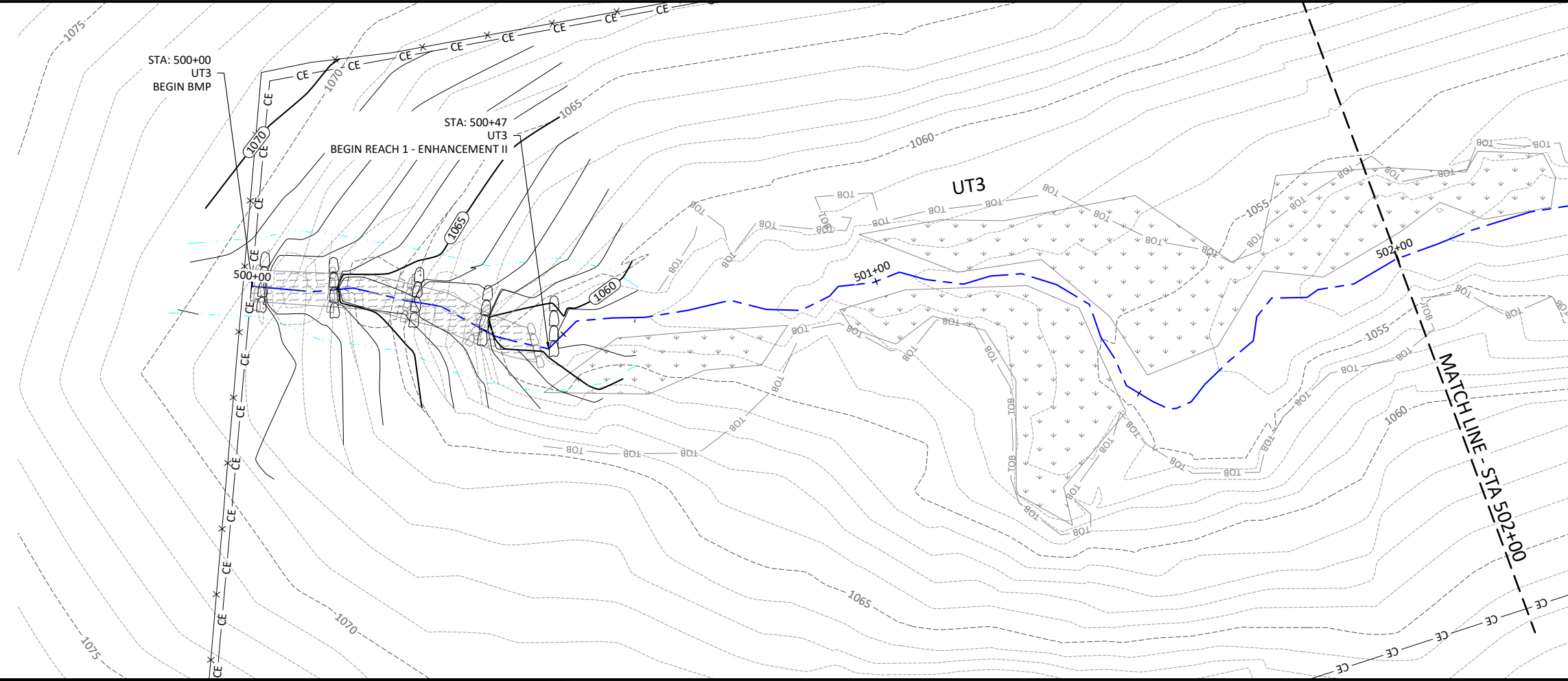
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Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT3
Stream Plan and Profile

- ENHANCEMENT II TREATMENT:
1. TREAT INVASIVE VEGETATION.
 2. SUPPLEMENTAL PLANTING - SEE PLANTING PLANS.
 3. EXCLUDE CATTLE ACCESS.

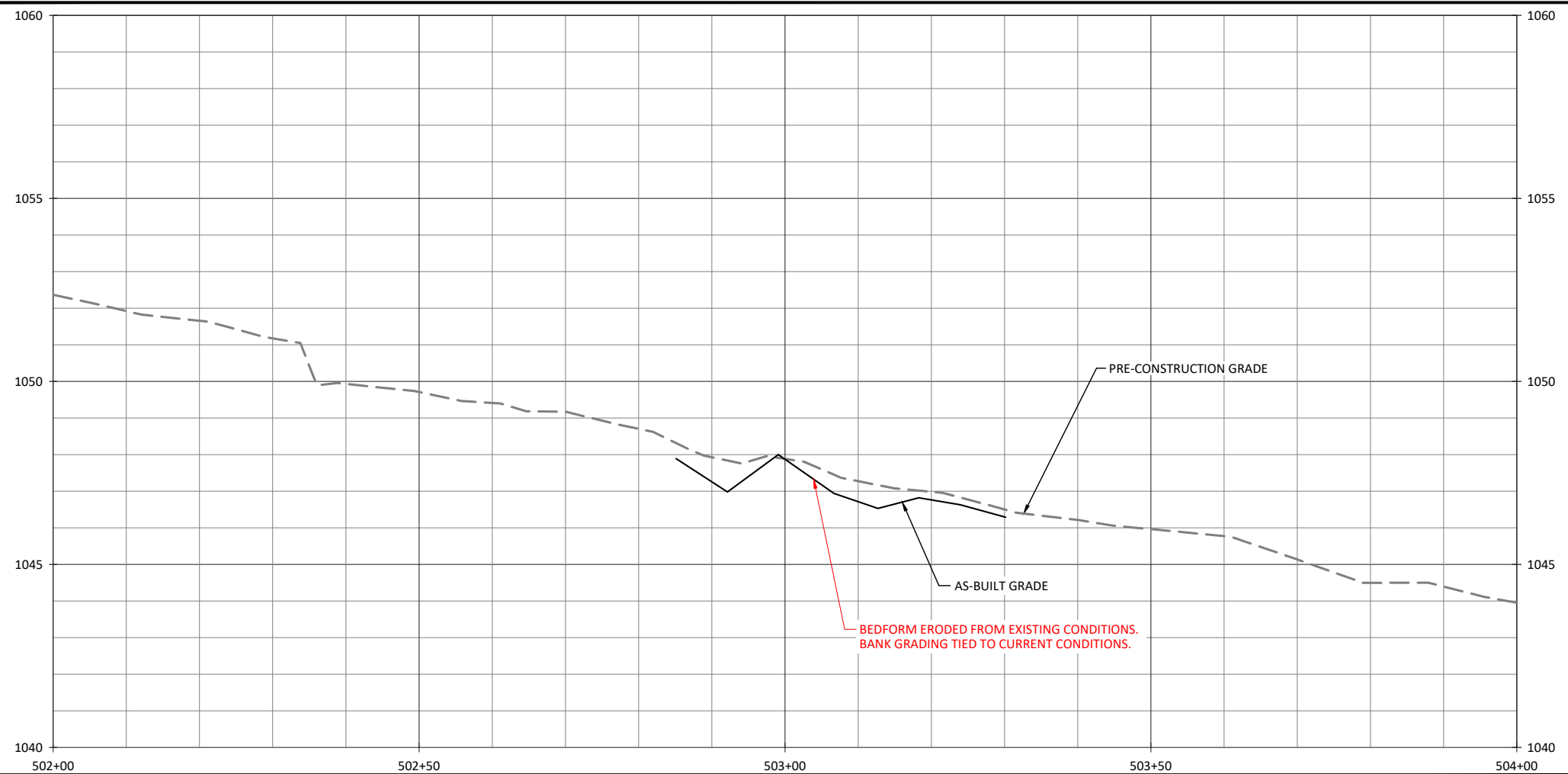


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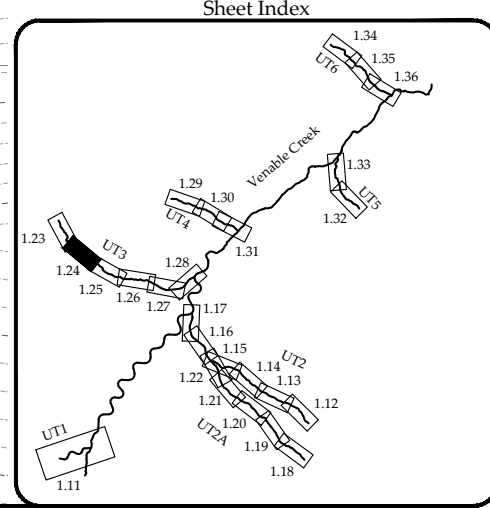
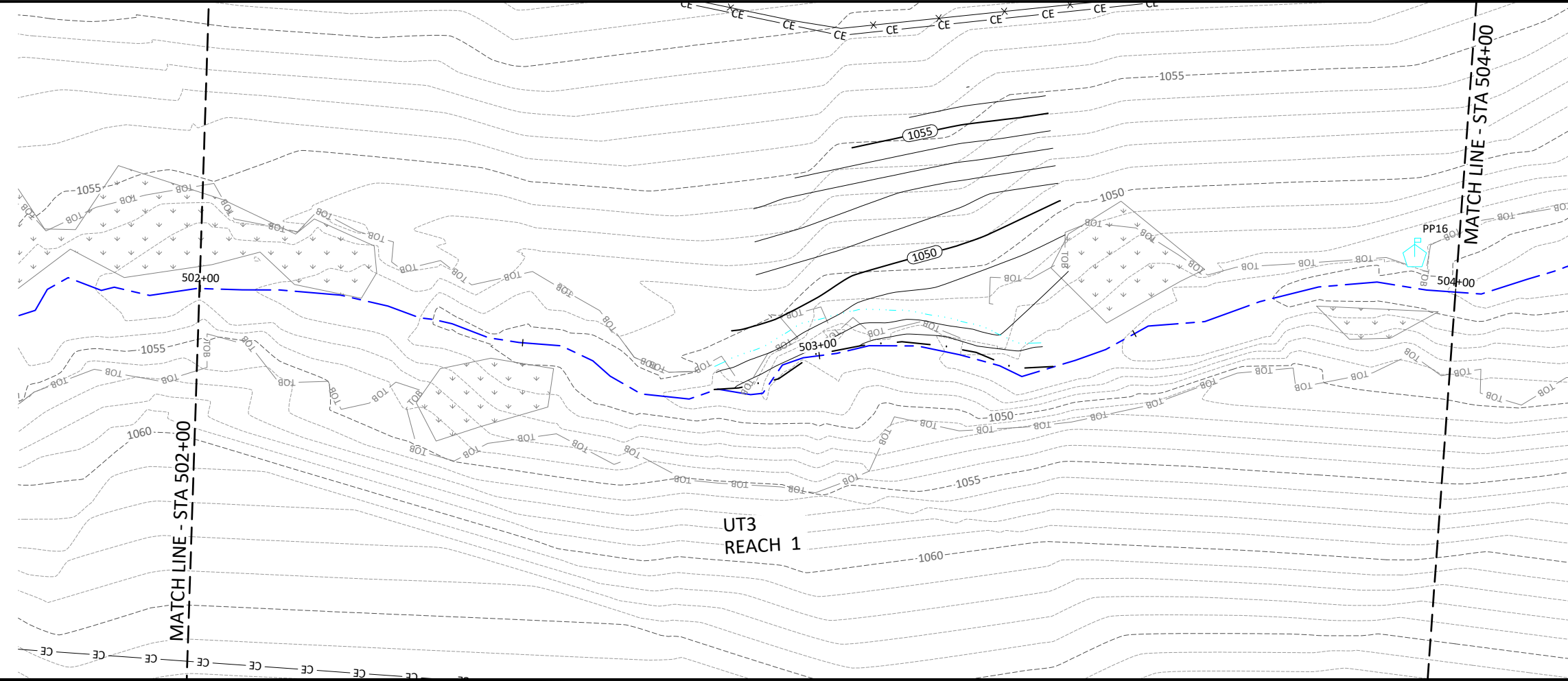
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June 30, 2021



- ENHANCEMENT II TREATMENT:
1. TREAT INVASIVE VEGETATION.
 2. SUPPLEMENTAL PLANTING - SEE PLANTING PLANS.
 3. EXCLUDE CATTLE ACCESS.

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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT3
 Stream Plan and Profile

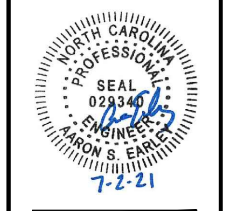
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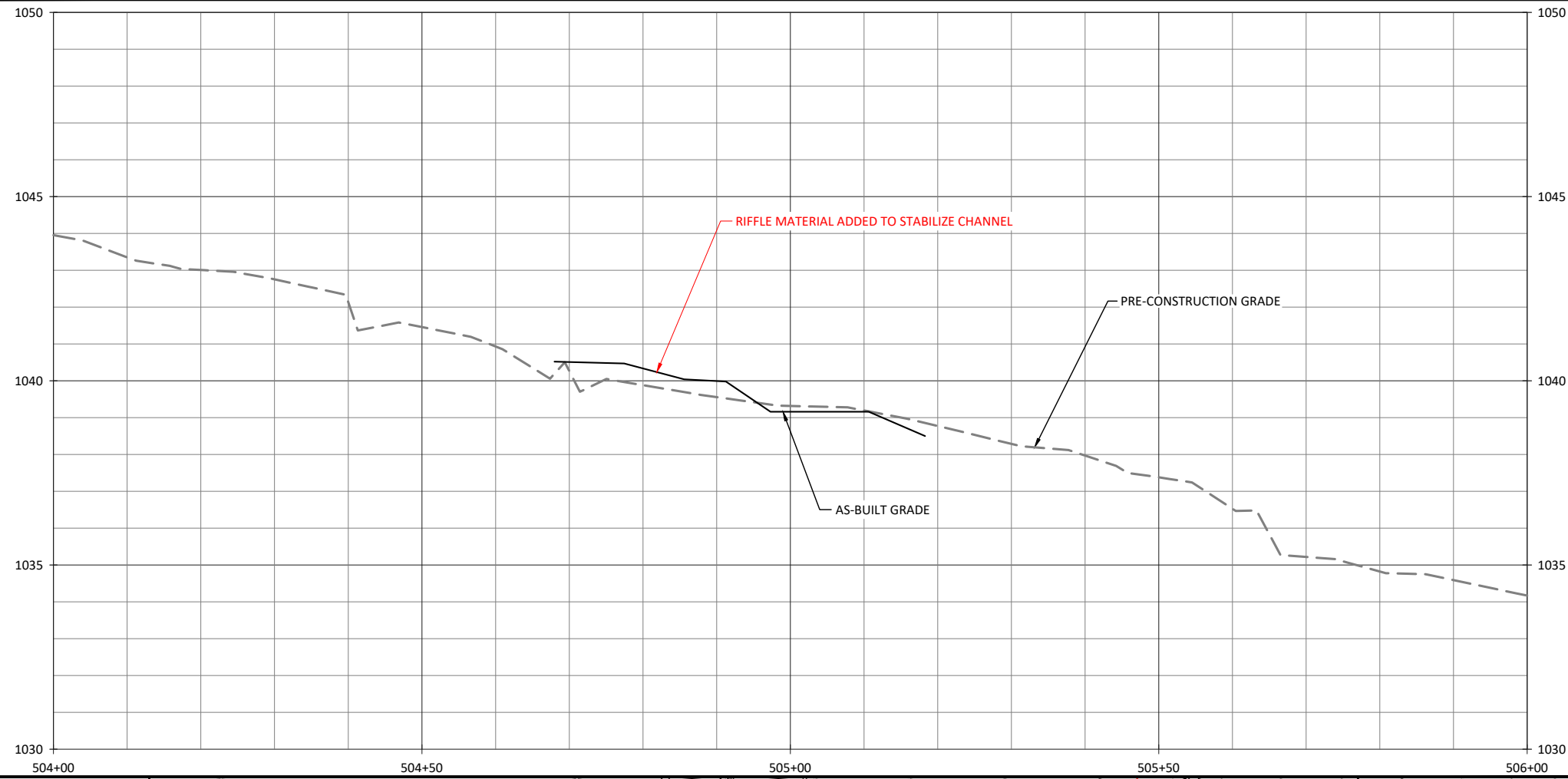
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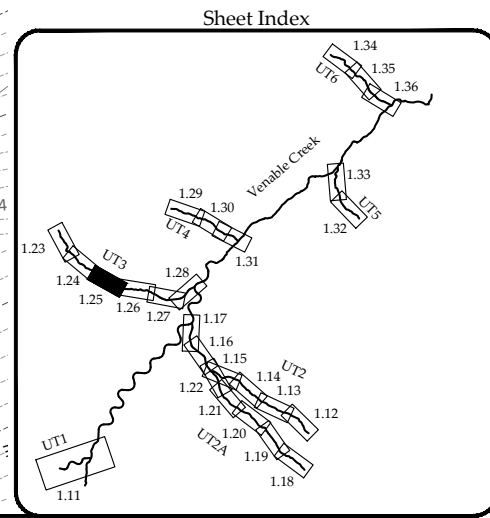
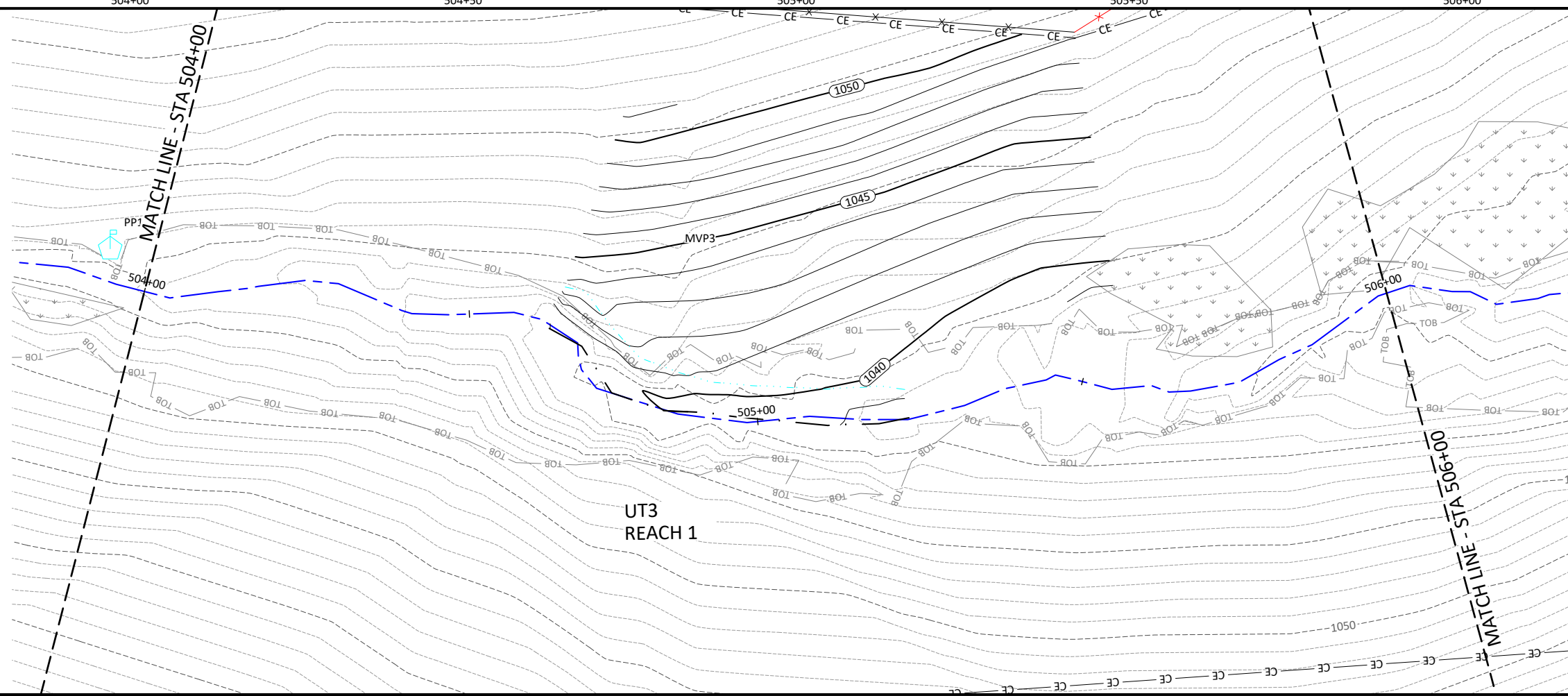
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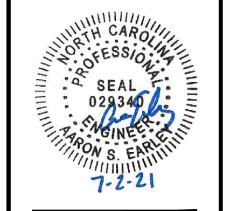


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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT3
 Stream Plan and Profile



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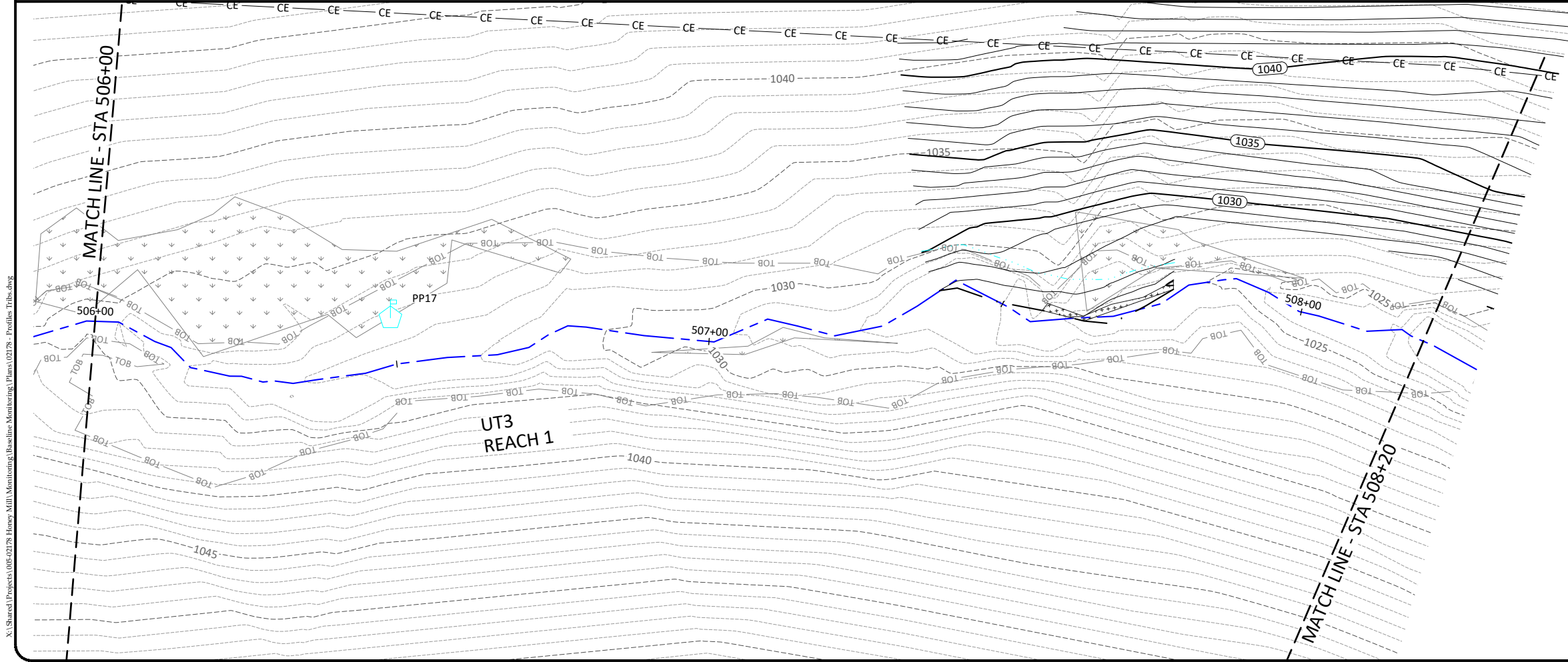
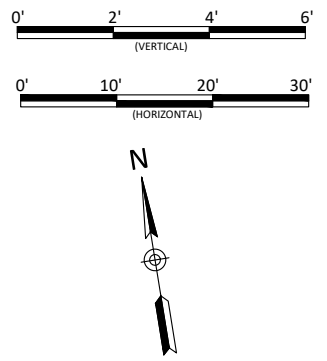
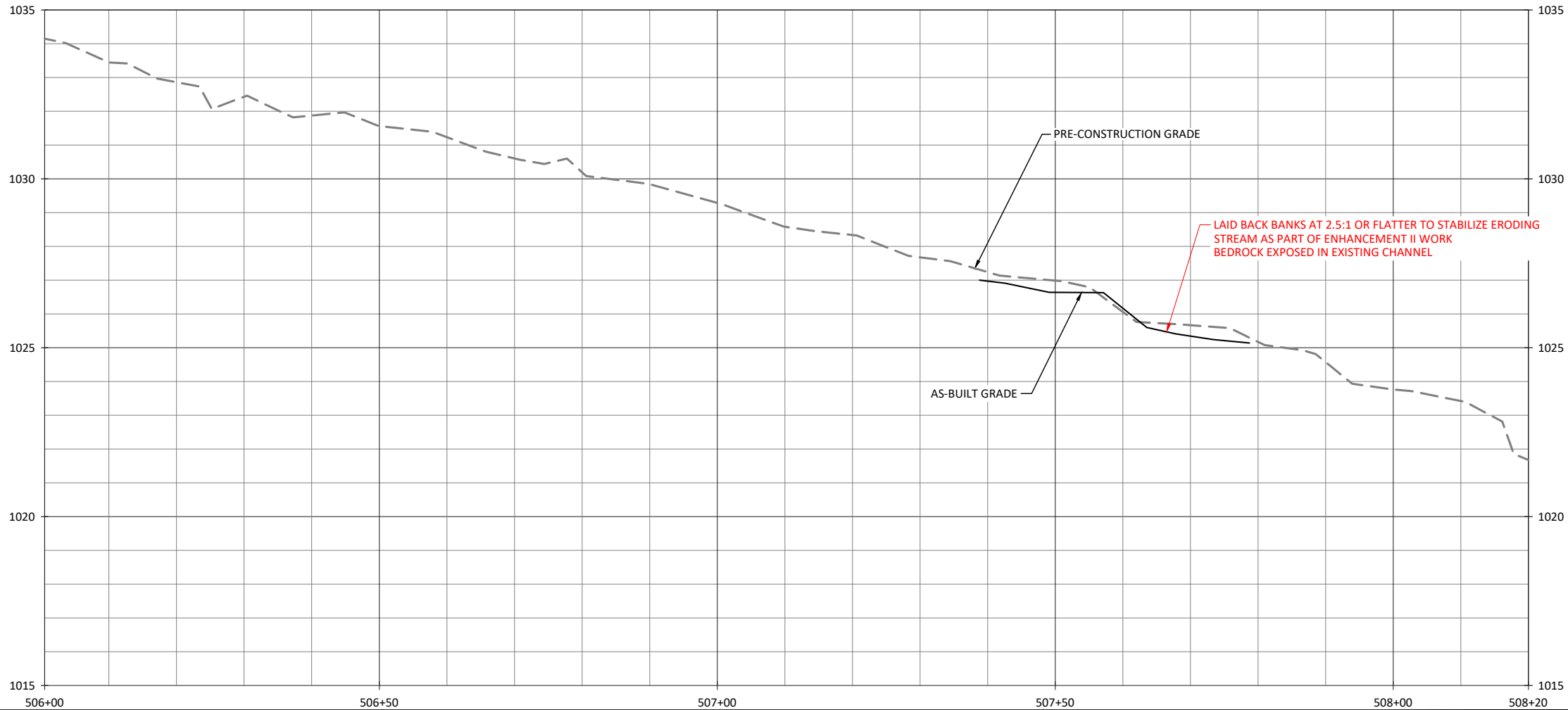
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 Job Number: 005-02123
 Project Engineer: ASE
 Drawn By: HCC
 Checked By: JCK

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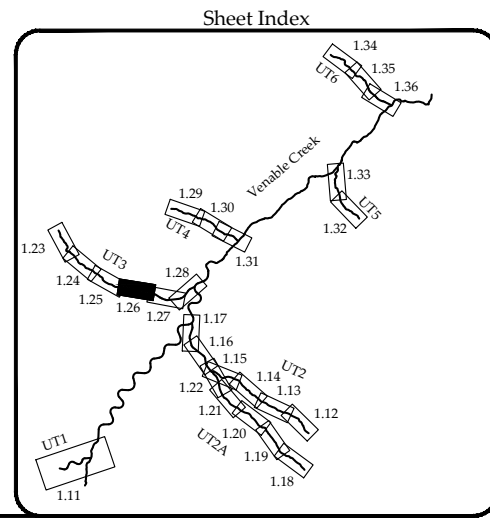
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June 30, 2021



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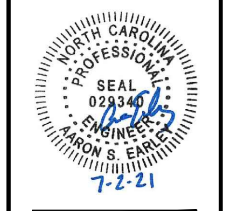


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 Surry County, North Carolina

UT3
 Stream Plan and Profile

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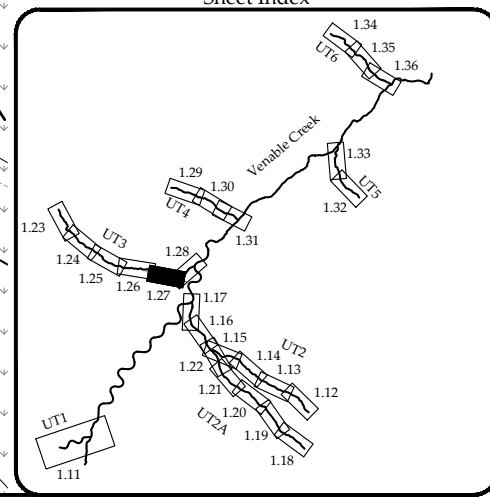
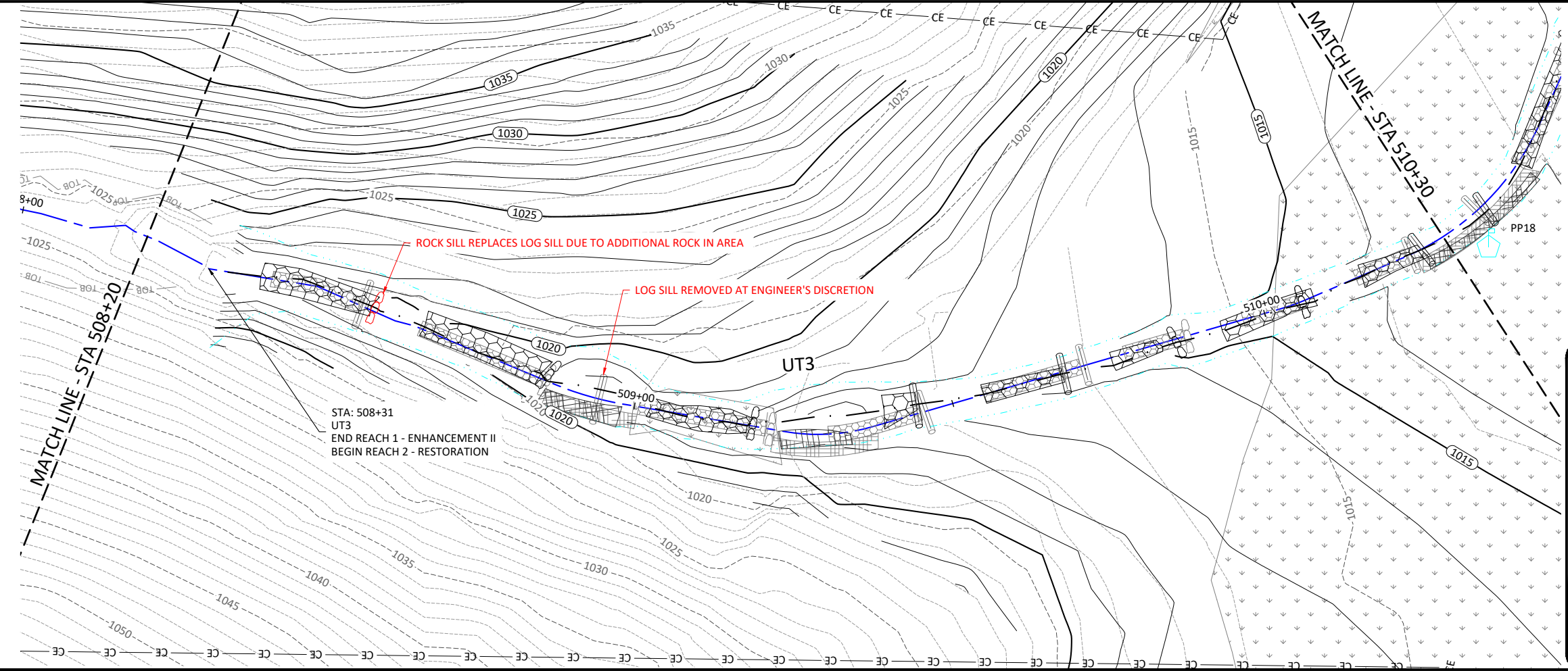
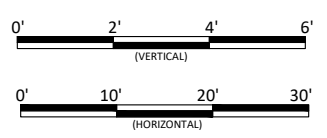
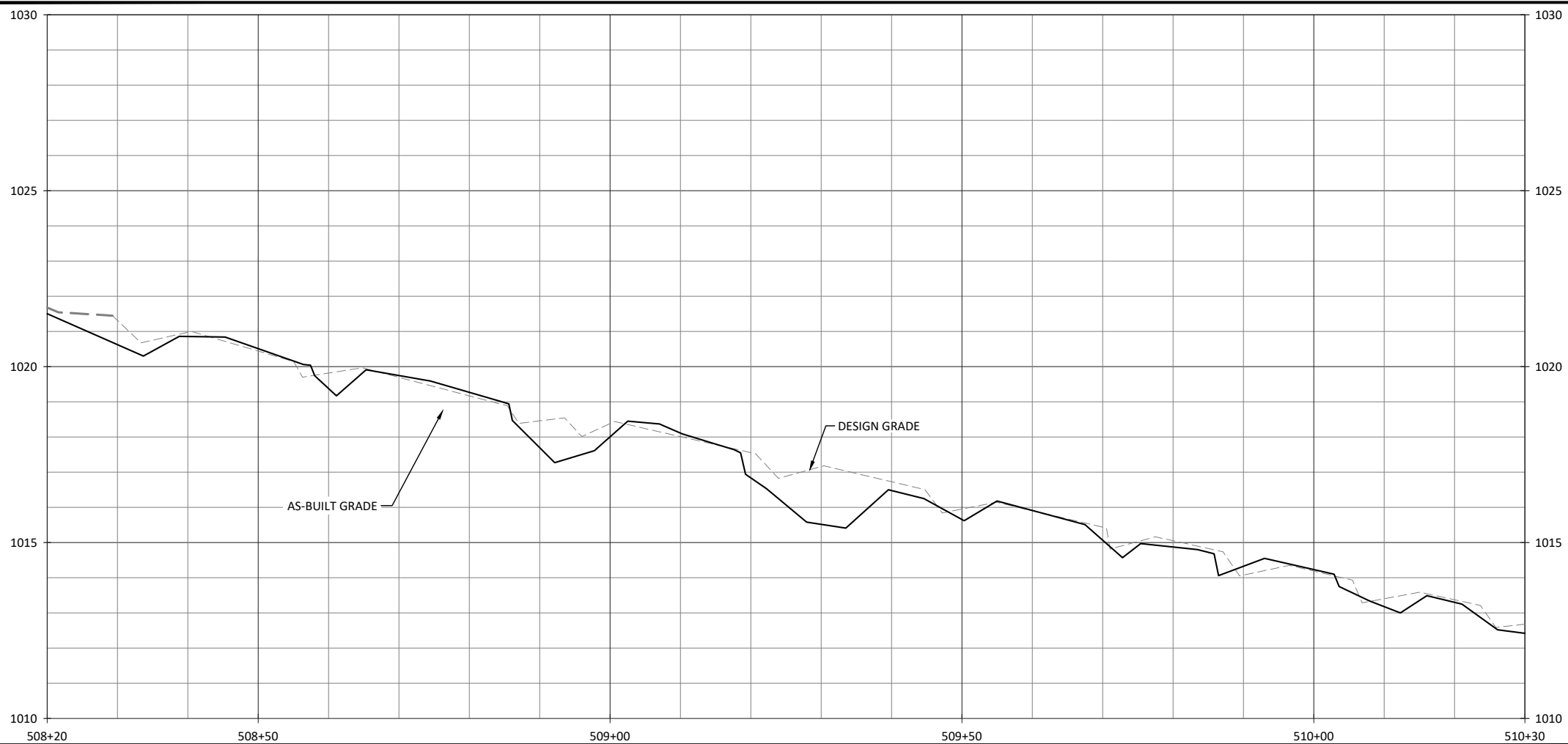


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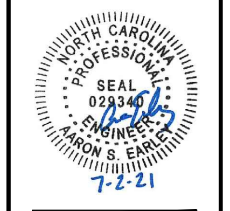
June 30, 2021



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UT3
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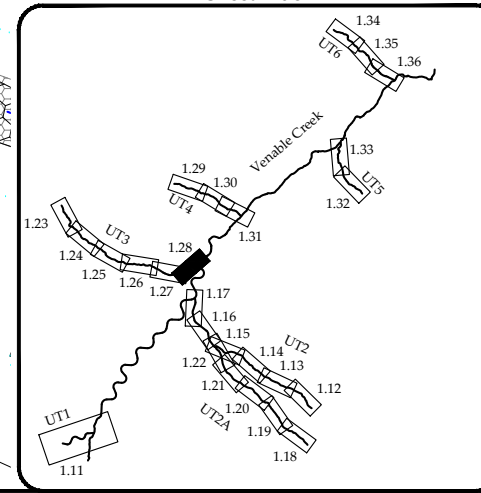
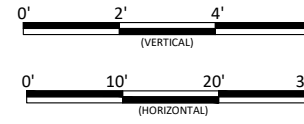
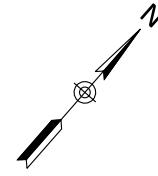
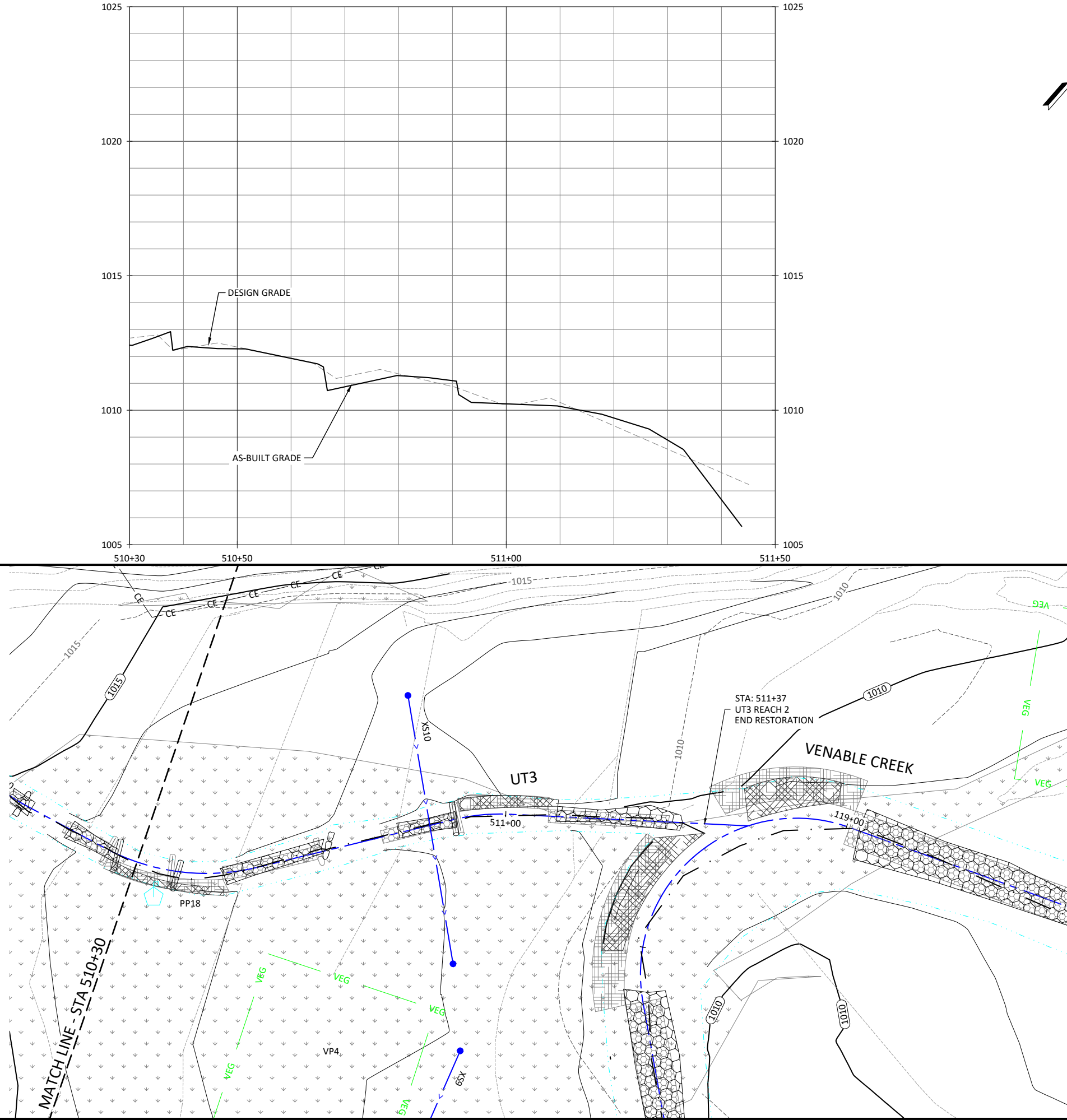
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

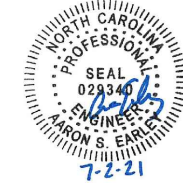
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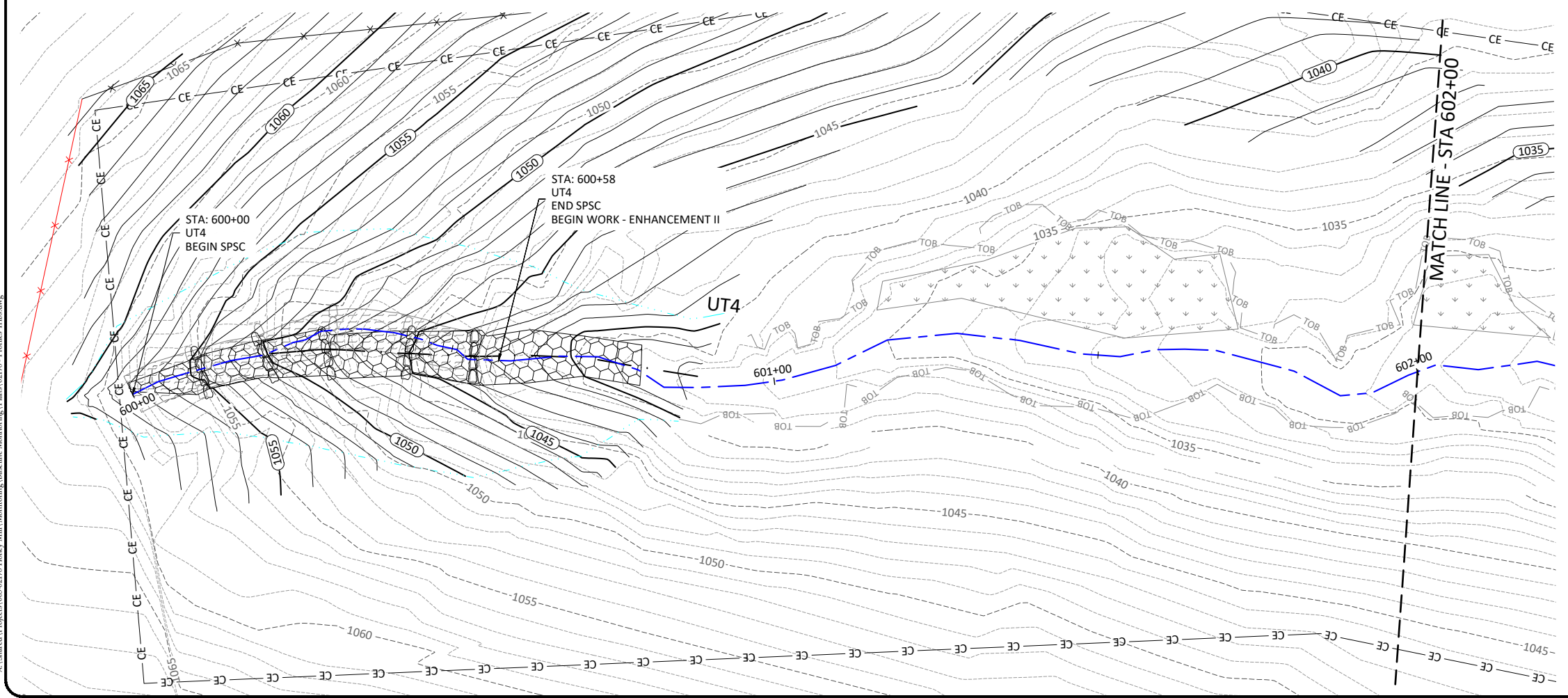
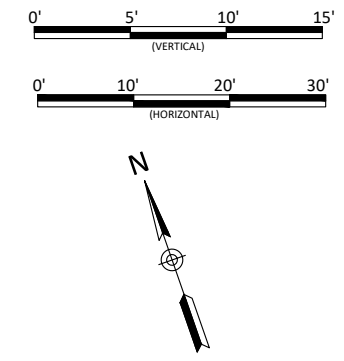
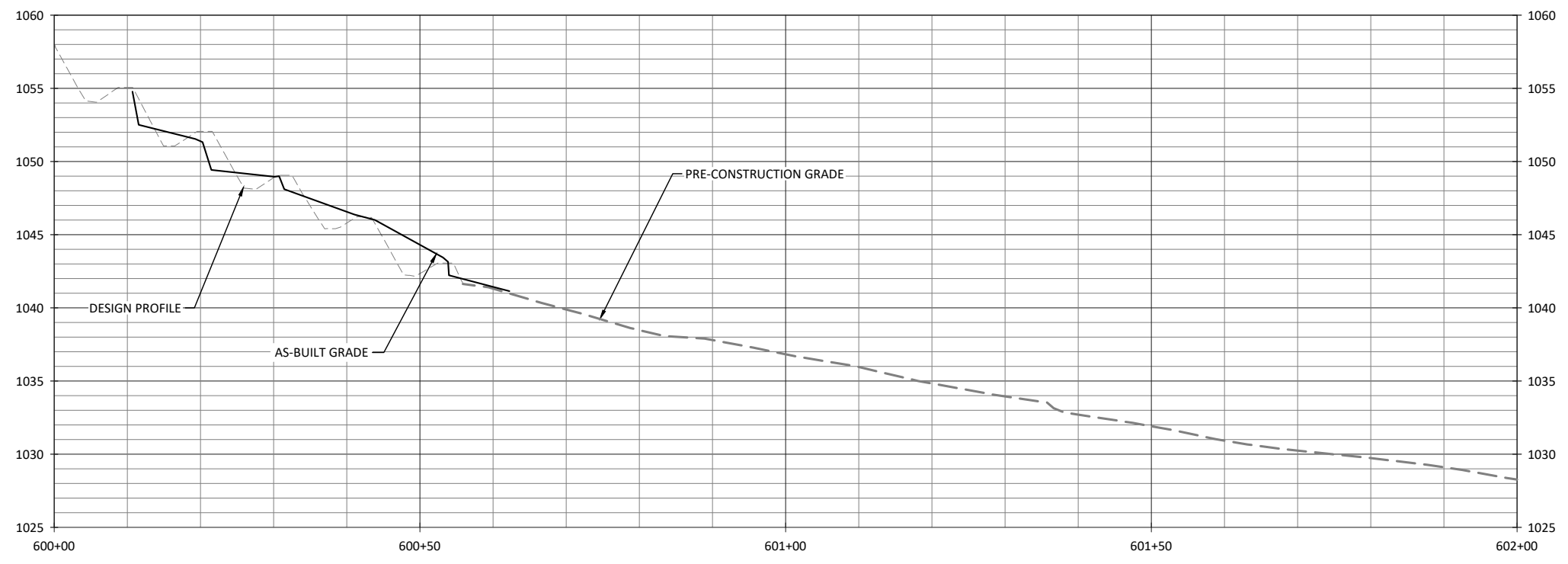
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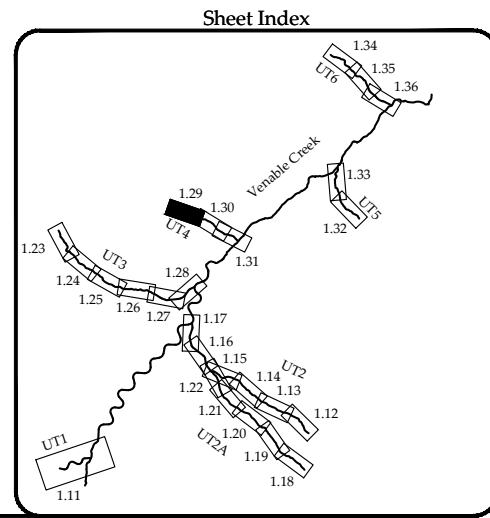
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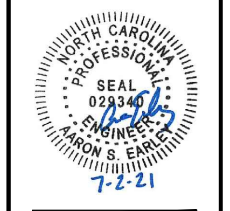
Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT4
 Stream Plan and Profile

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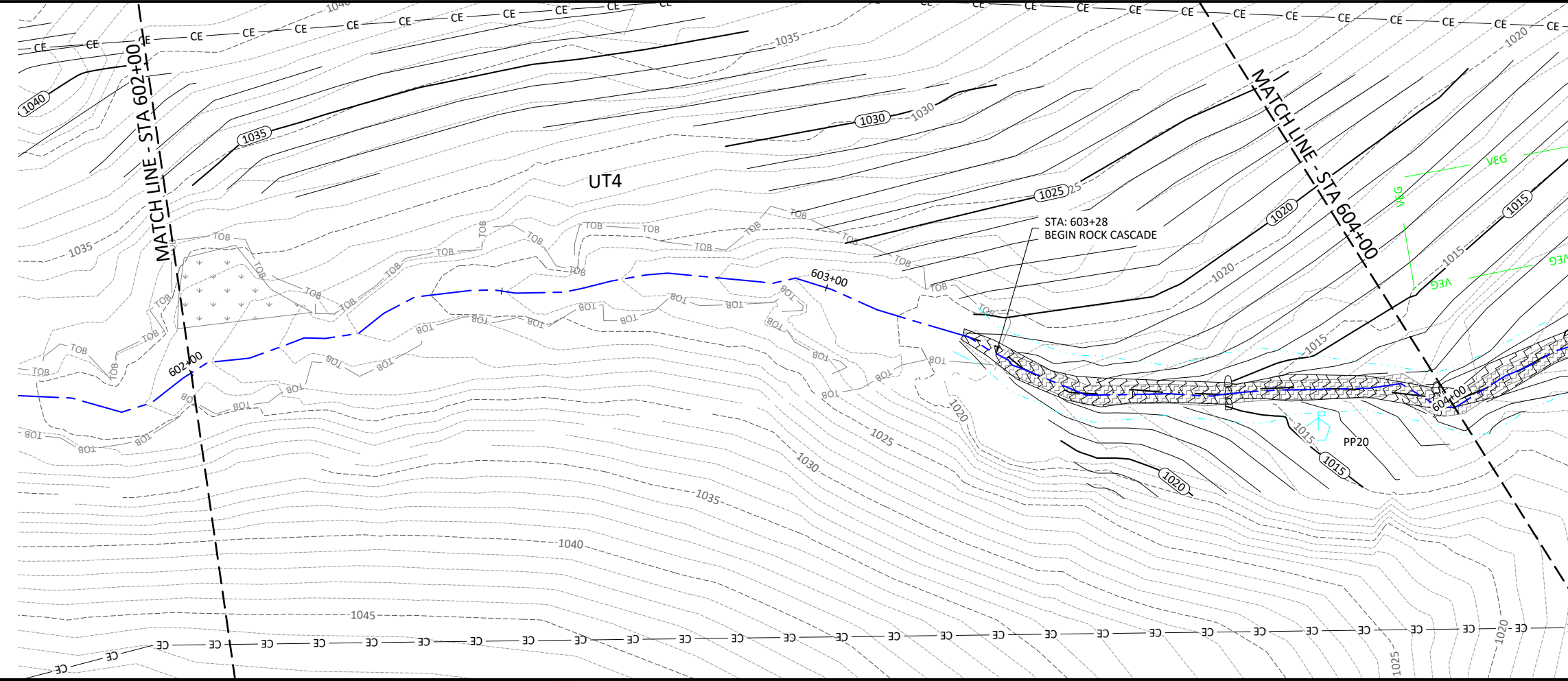
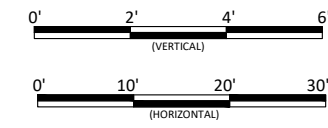
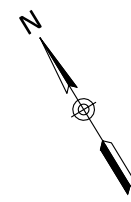
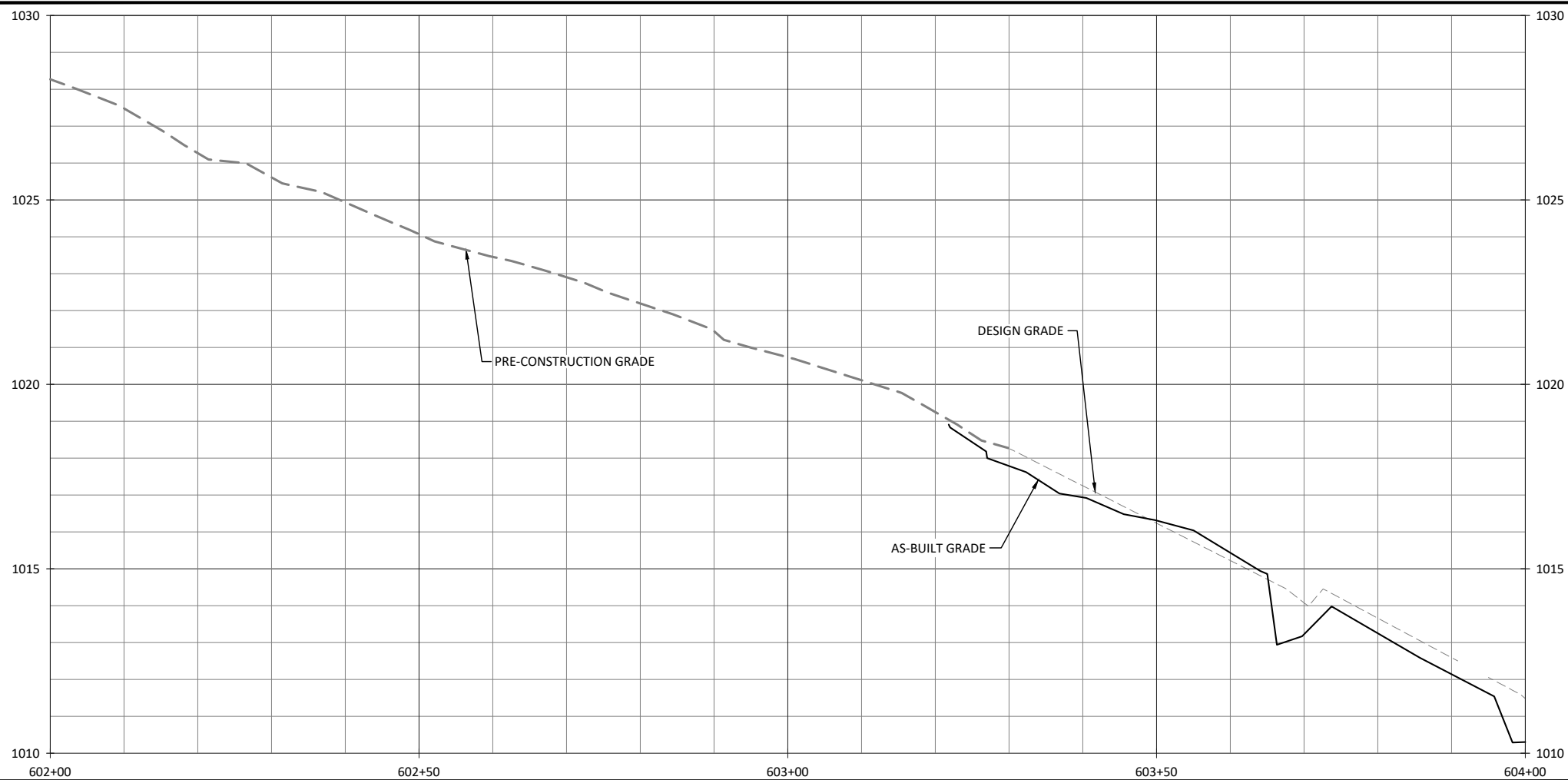
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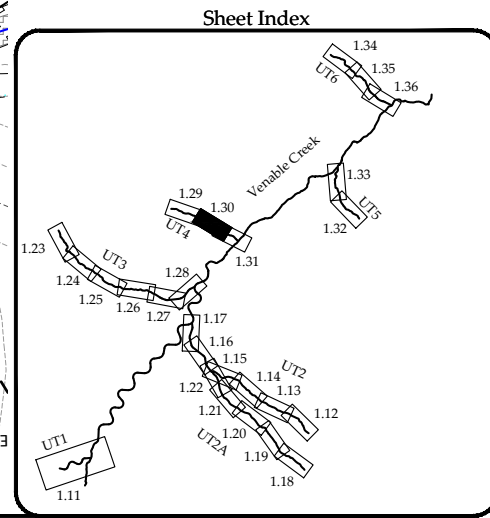


June 30, 2021

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Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT4
Stream Plan and Profile

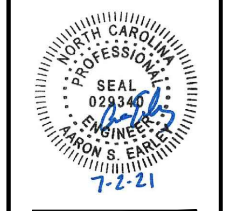
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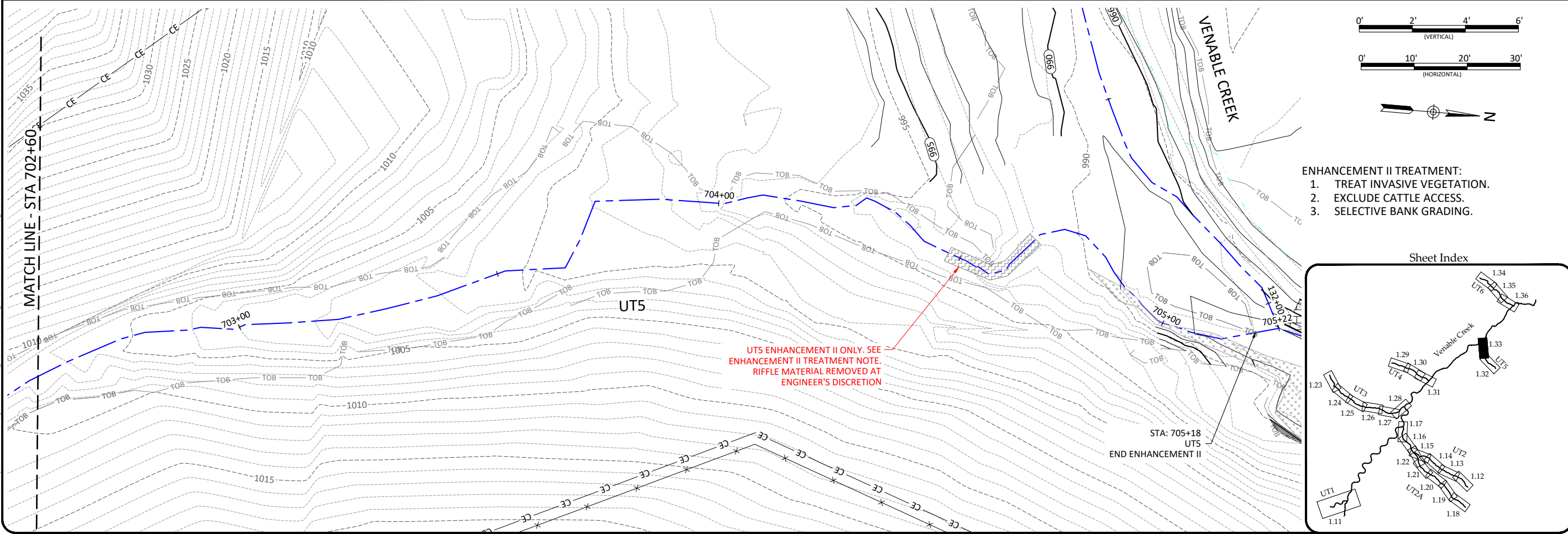
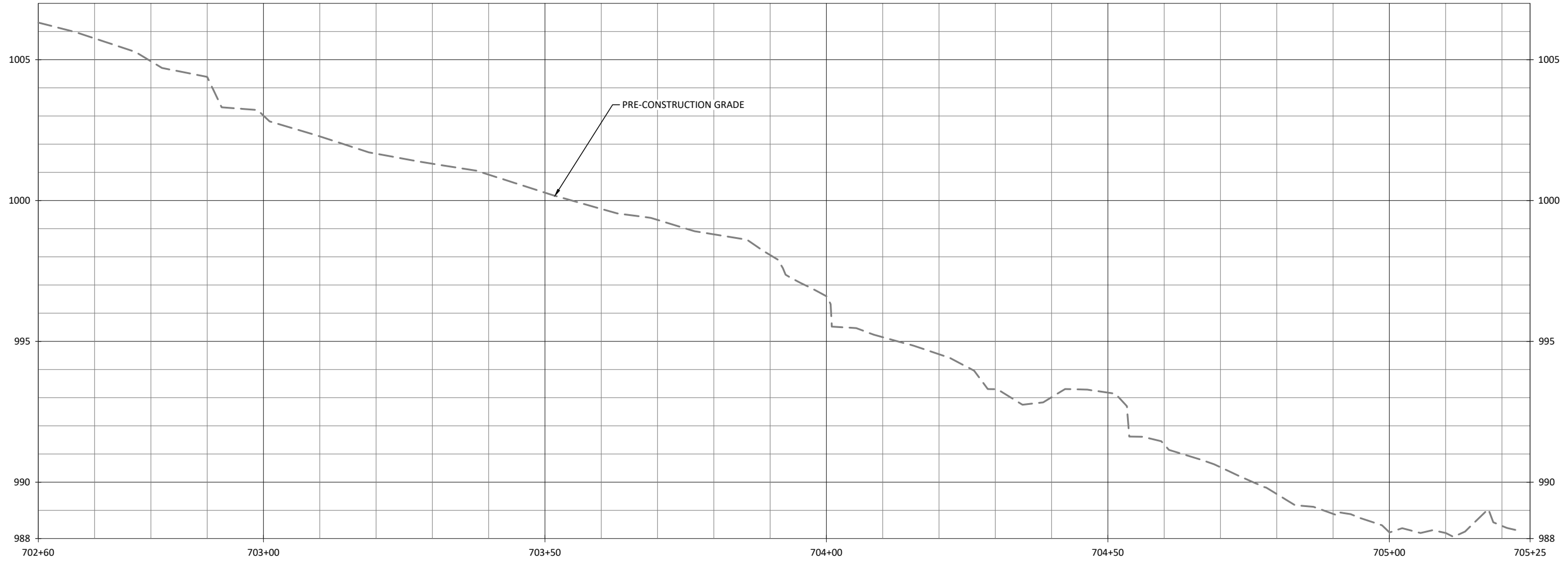
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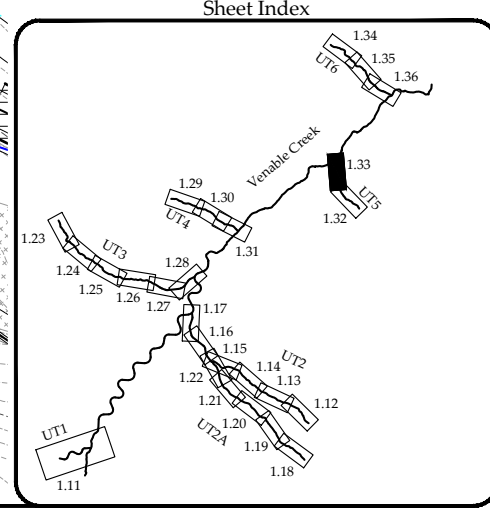
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina



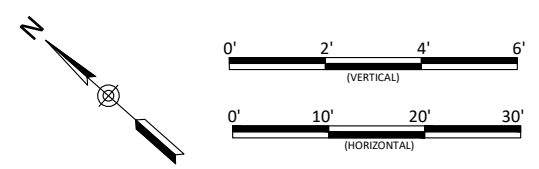
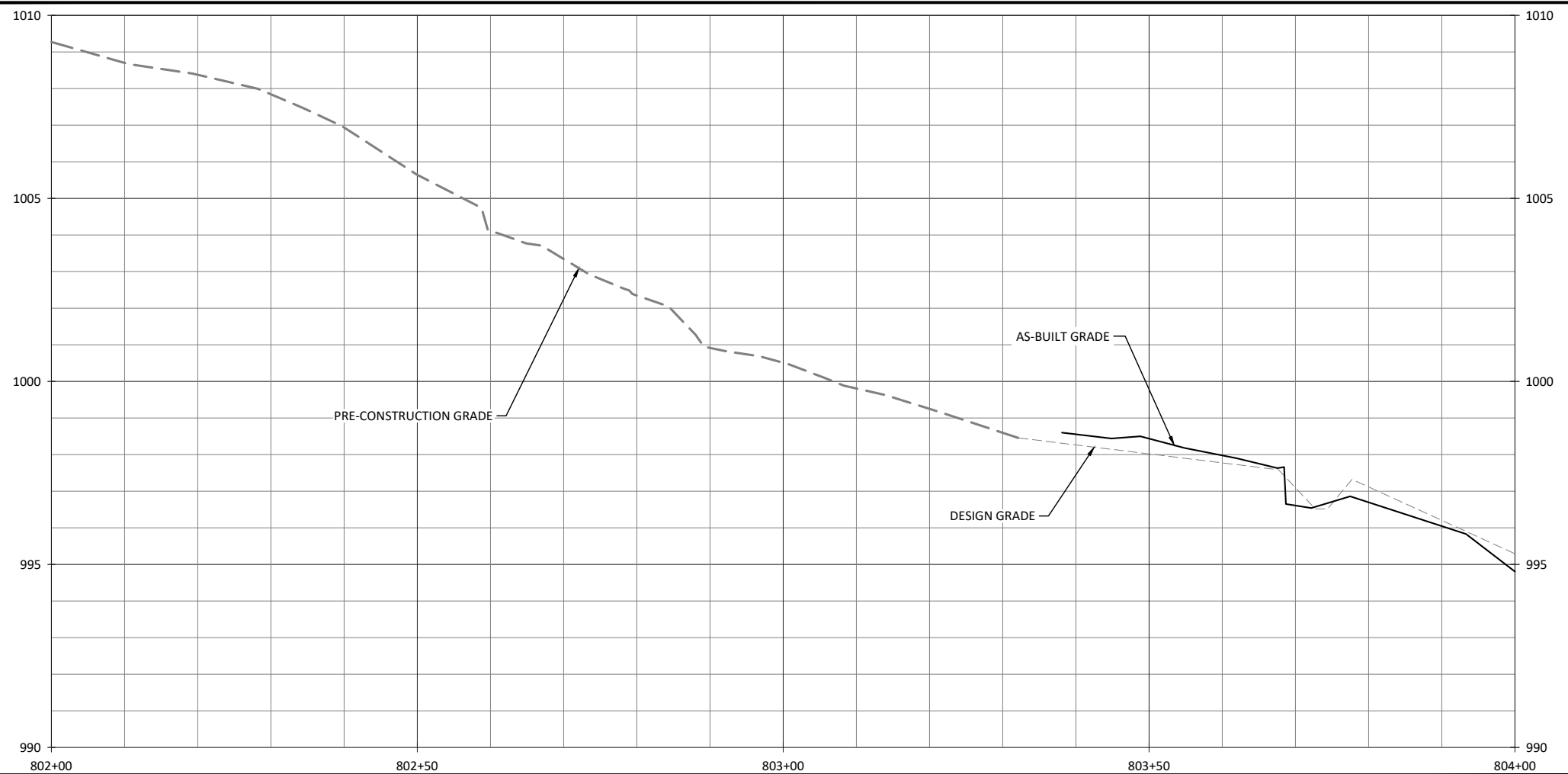
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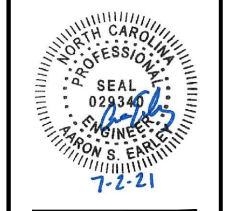
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UT5
 Stream Plan and Profile

June 30, 2021

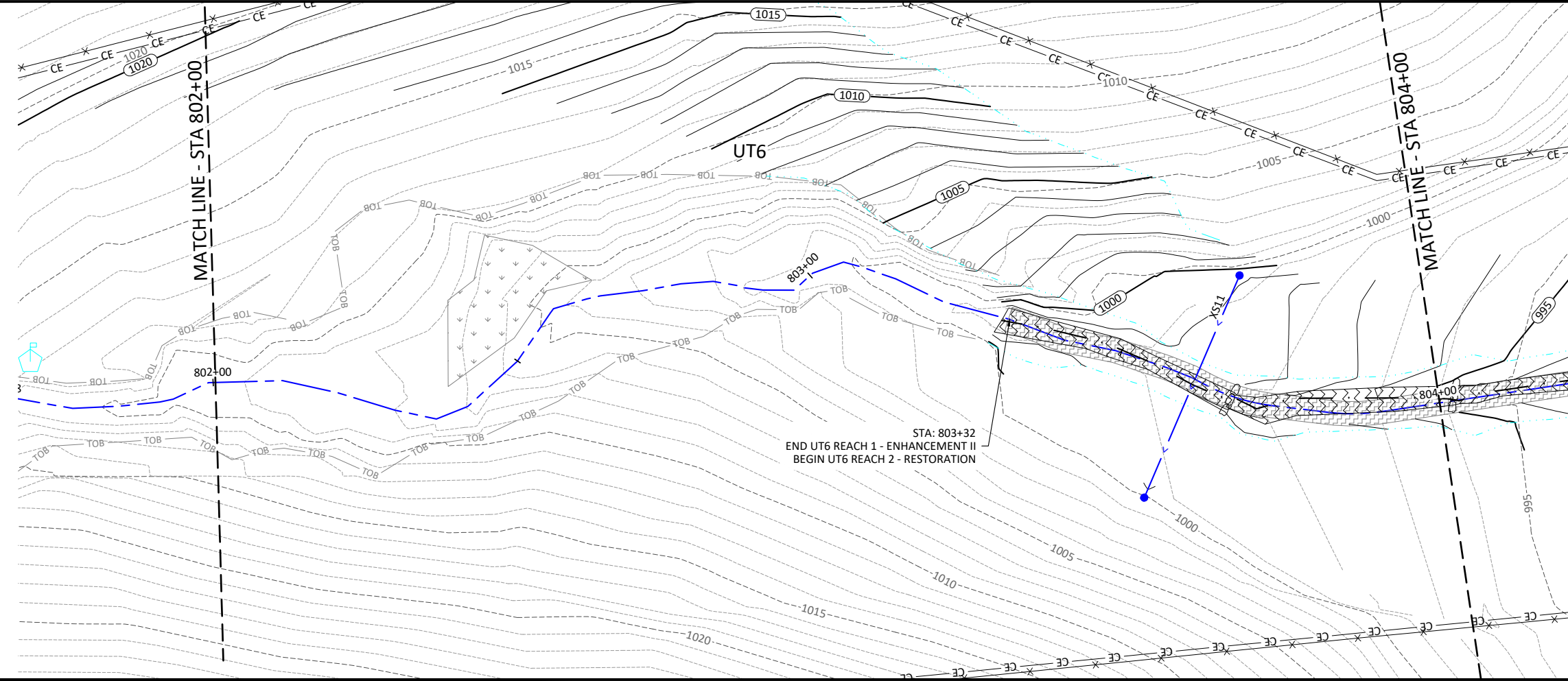


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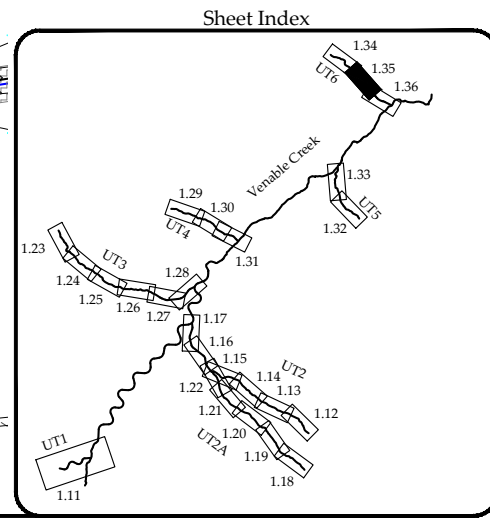


Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT6
Stream Plan and Profile



- ENHANCEMENT II TREATMENT:
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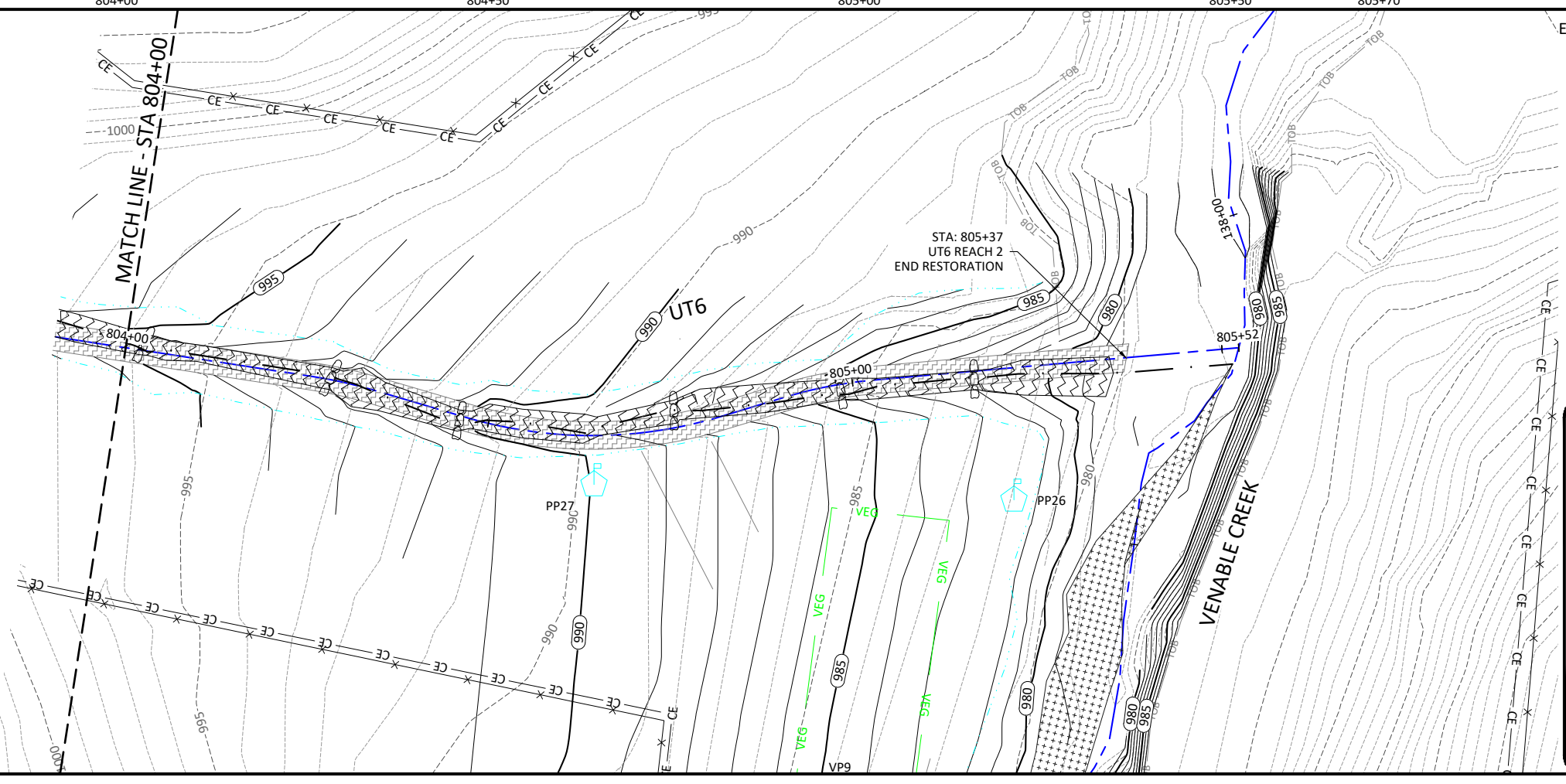
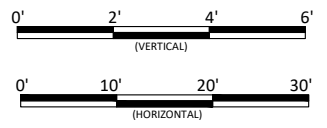
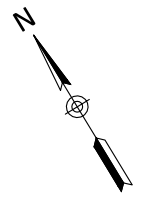
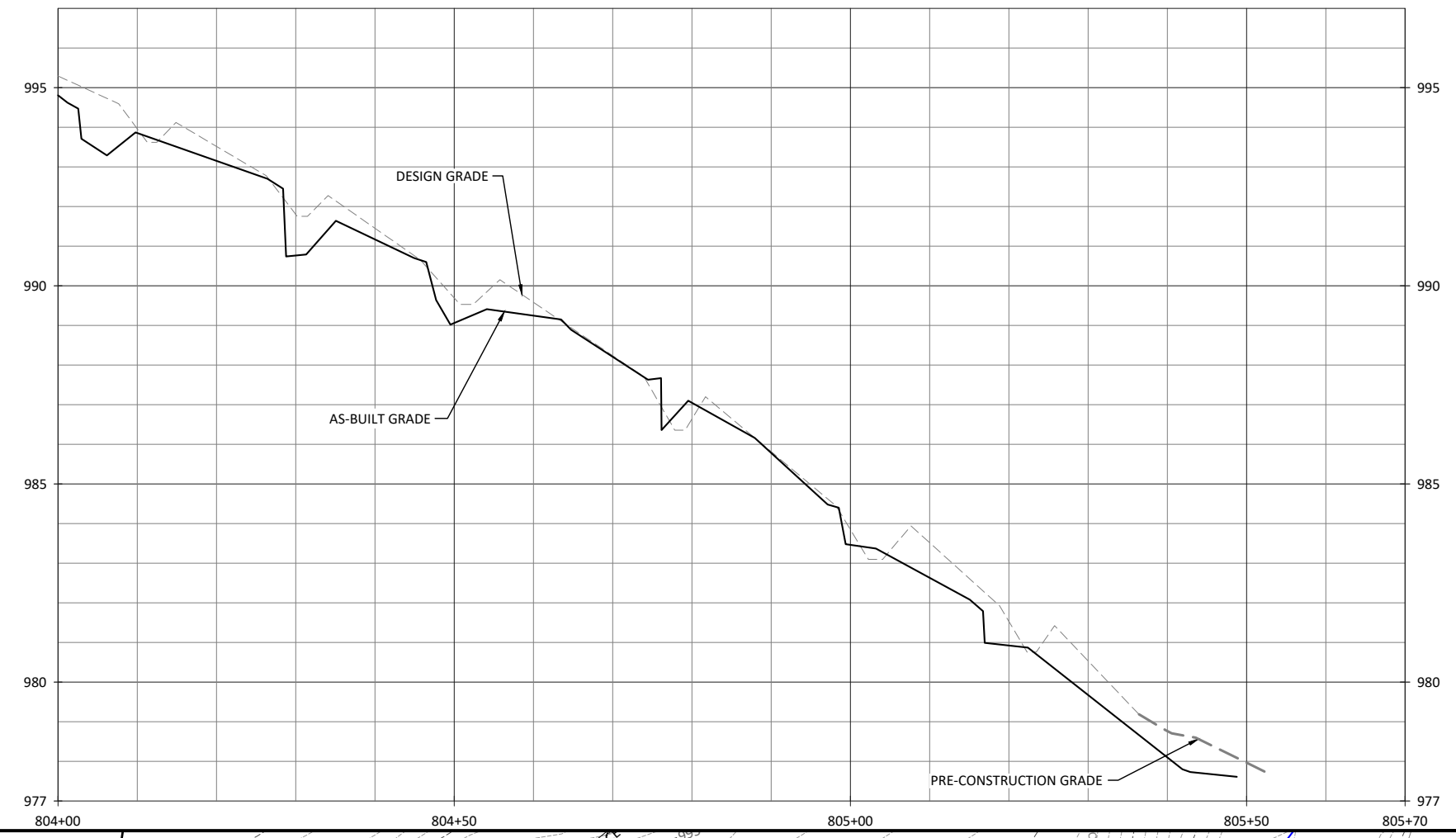


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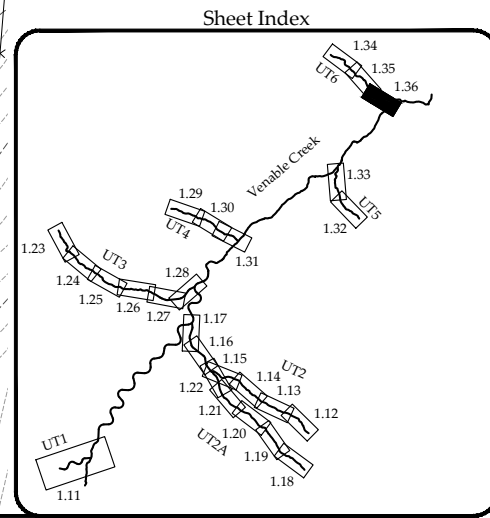
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- ENHANCEMENT II TREATMENT:
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Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

UT6
Stream Plan and Profile

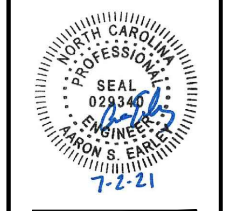
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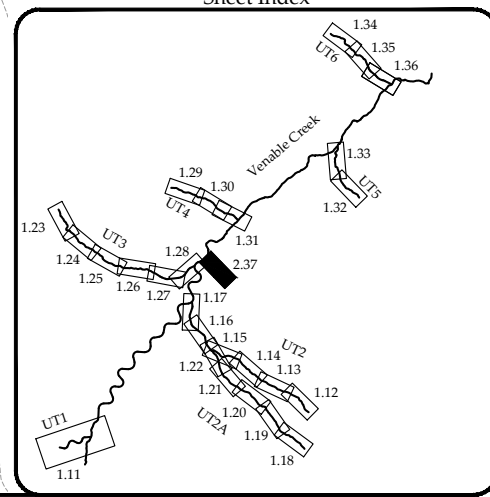
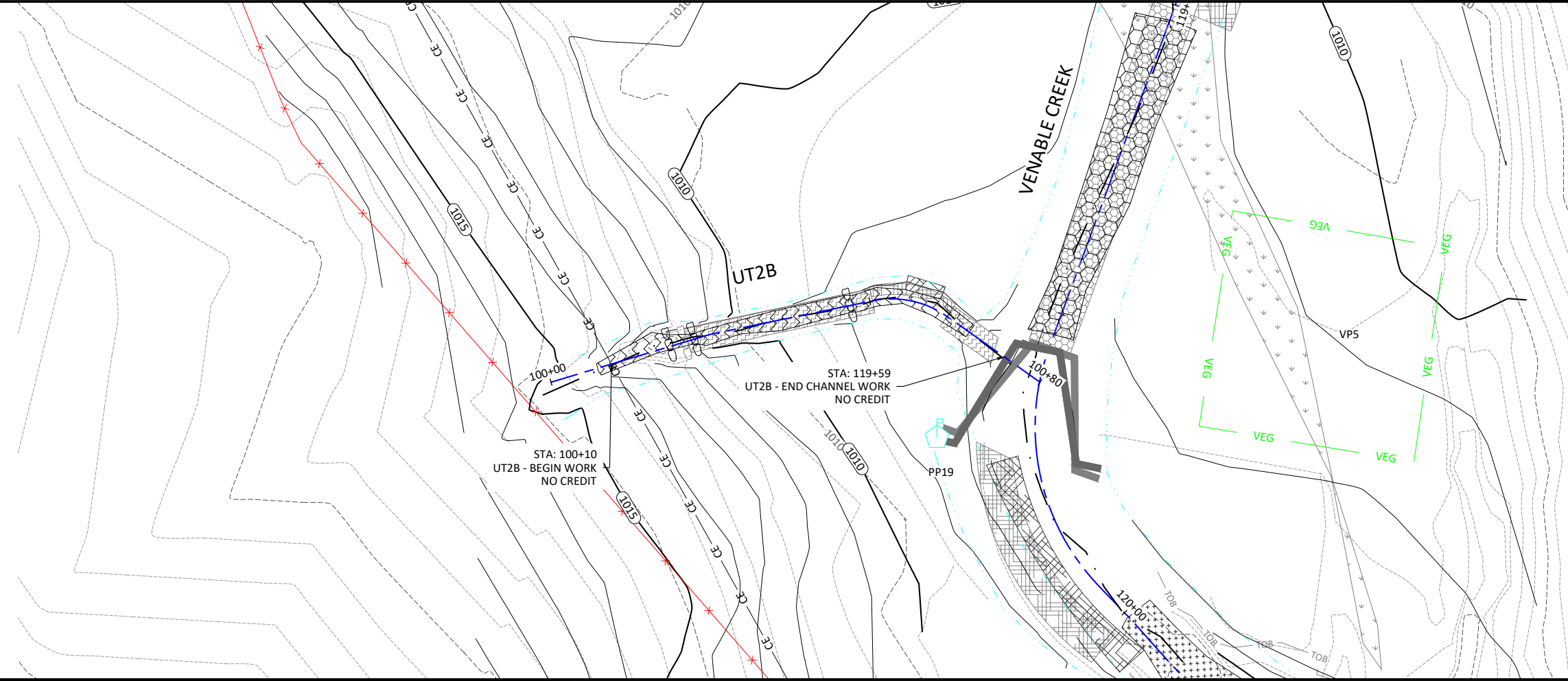
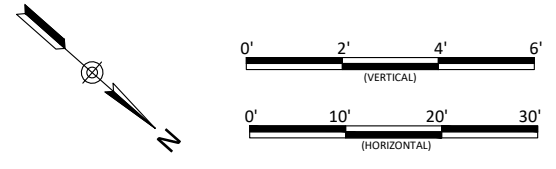
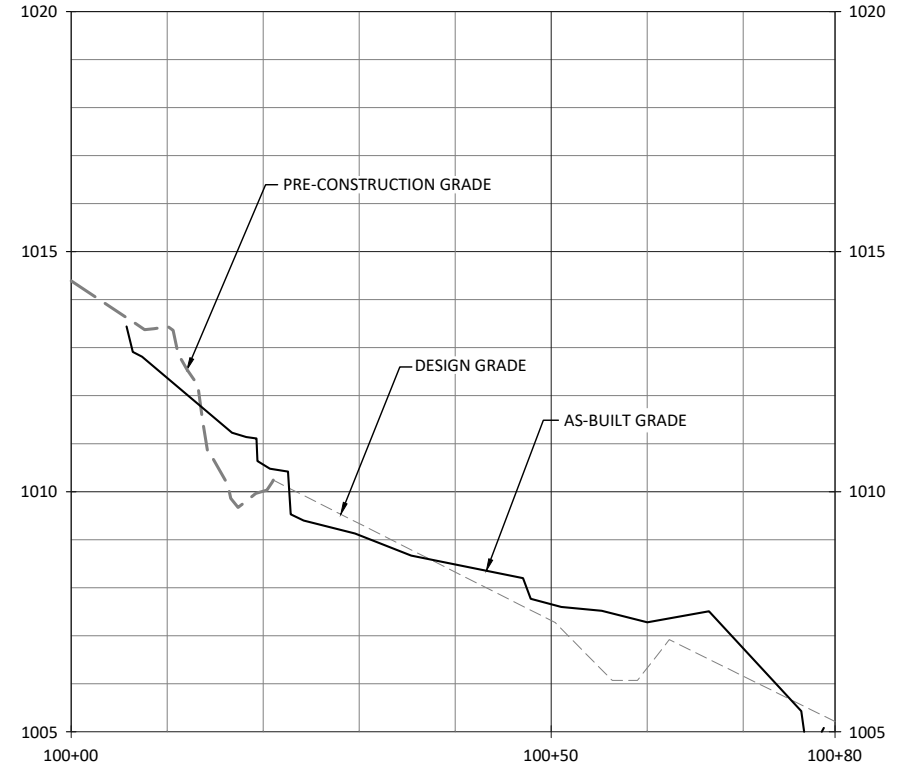
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Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina

UT2B
 Stream Plan and Profile

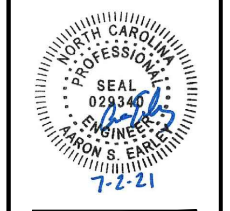
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 Project Engineer: ASE
 Drawn By: HCC
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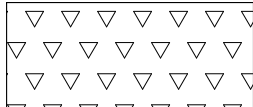


Designed and As-Built Planted Area

Riparian Planting Zone							
Species	Common Name	Max Spacing (ft)	Indiv. Spacing (ft)	Min. Caliper	Stratum	Percentage	Wetland Indicator Code
<i>Platanus occidentalis</i>	Sycamore	12	6-12	0.25"	Canopy	15% 14%	FACW
<i>Morus rubra*</i>	Red Mulberry	12	6-12	0.25"	Subcanopy	7%	FACU
<i>Diospyros virginiana</i>	Persimmon	12	6-12	0.25"	Canopy	10% 9%	FAC
<i>Prunus serotina</i>	Black Cherry	12	6-12	0.25"	Canopy	10% 11%	FACU
<i>Quercus rubra</i>	Northern Red Oak	12	6-12	0.25"	Canopy	10% 11%	FACU
<i>Oxydendrum arboreum*</i>	Sourwood	12	6-12	0.25"	Subcanopy	3%	UPL
<i>Quercus alba</i>	White Oak	12	6-12	0.25"	Canopy	10%	FACU
<i>Asimina triloba*</i>	Paw Paw	12	6-12	0.25"	Subcanopy	4% 5%	FAC
<i>Ulmus rubra</i>	Slippery Elm	12	6-12	0.25"	Canopy	5%	FAC
<i>Acer negundo</i>	Boxelder	12	6-12	0.25"	Canopy	10%	FAC
<i>Hamamelis virginiana*</i>	Witch Hazel	12	6-12	0.25"	Subcanopy	4% 5%	FACU
<i>Euonymus americanus*</i>	American Strawberry Bush	12	6-12	0.25"	Shrub	3%	FAC
<i>Liriodendron tulipifera</i>	Tulip Tree	12	6-12	0.25"	Canopy	4% 5%	FACU
<i>Carya cordiformis</i>	Bitternut Hickory	12	6-12	0.25"	Canopy	5%	FACU

* Subcanopy species - not held to monitoring height requirements

Shaded Supplemental Planting



Designed and As-Built Planted Area

Shaded Bare Roots							
Species	Common Name	Max Spacing (ft)	Indiv. Spacing (ft)	Min. Caliper Size	Stratum	Percentage	Wetland Indicator Code
<i>Platanus occidentalis</i>	Sycamore	25	12-25	0.25" - 1.0"	Canopy	10% 12%	FACW
<i>Carya cordiformis</i>	Bitternut Hickory	25	12-25	0.25" - 1.0"	Canopy	5% 7%	FACU
<i>Liriodendron tulipifera</i>	Tulip Poplar	25	12-25	0.25" - 1.0"	Canopy	5% 7%	FACU
<i>Carpinus caroliniana*</i>	Ironwood	25	12-25	0.25" - 1.0"	Subcanopy	4% 5%	FAC
<i>Diospyros virginiana</i>	Persimmon	25	12-25	0.25" - 1.0"	Canopy	10% 11%	FAC
<i>Morus rubra*</i>	Red Mulberry	25	12-25	0.25" - 1.0"	Subcanopy	5% 7%	FACU
<i>Nyssa sylvatica</i>	Black Gum	25	12-25	0.25" - 1.0"	Canopy	5% 7%	FAC
<i>Euonymus americanus*</i>	American Strawberry Bush	25	12-25	0.25" - 1.0"	Shrub	4%	FAC
<i>Calycanthus floridus*</i>	Sweetshrub	25	12-25	0.25" - 1.0"	Shrub	4%	FACU
<i>Hamamelis virginiana*</i>	Witch Hazel	25	12-25	0.25" - 1.0"	Subcanopy	7% 9%	FACU
<i>Quercus rubra</i>	Northern Red Oak	25	12-25	0.25" - 1.0"	Canopy	10% 11%	FACU
<i>Fagus grandifolia</i>	American Beech	25	12-25	0.25" - 1.0"	Canopy	5% 7%	FACU
<i>Quercus alba</i>	White Oak	25	12-25	0.25" - 1.0"	Canopy	10% 7%	FACU
<i>Lindera benzoin*</i>	Spicebush	25	12-25	0.25" - 1.0"	Subcanopy	4% 6%	FAC
<i>Cornus florida*</i>	Flowering Dogwood	25	12-25	0.25" - 1.0"	Subcanopy	5% 4%	FACU
<i>Oxydendron arboreum*</i>	Sourwood	25	12-25	0.25" - 1.0"	Subcanopy	4%	UPL
<i>Ilex opaca*</i>	American Holly	25	12-25	0.25" - 1.0"	Subcanopy	3%	FACU

* Subcanopy species - not held to monitoring height requirements



Designed Planted Area Not Planted

Pasture Seeding

Pasture Seeding		
Pure Live Seeding (42 lbs/acre)		
Species Name	Common Name	Density (lbs/acre)
<i>Dactylis glomerata</i>	Orchard Grass	20
<i>Trifolium pratense</i>	Red Clover	5
<i>Trifolium repens</i>	Ladino Clover	5

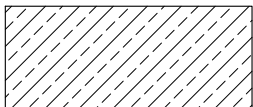
Soil Amendments

Soil Amendments		
Zone	Amendment	Rate (lbs/acre)
All planting areas	Humic Plus	200
Areas with >0.5 feet of cut or fill	Tennessee Brown Phosphate*	50

* to be applied in addition to Humic Plus

Temporary Seeding

Temporary Seeding and Mulch		
Approved Date	Type	Planting Rate (lbs/acre)
Jan 1 - May 1	Rye Grain (<i>Secale cereale</i>)	120
	Ladino Clover	5
	Crimson Clover	5
	Straw Mulch	4000
May 1 - Aug 15	German Millet (<i>Setaria italica</i>)	50
	Ladino Clover	5
	Crimson Clover	5
	4000	4000
Aug 15 - Dec 31	Rye Grain (<i>Secale cereale</i>)	120
	Crimson Clover	5
	4000	4000



Designed and As-Built Planted Area

Riparian Seeding

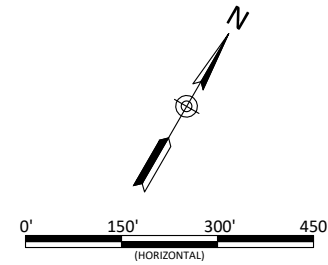
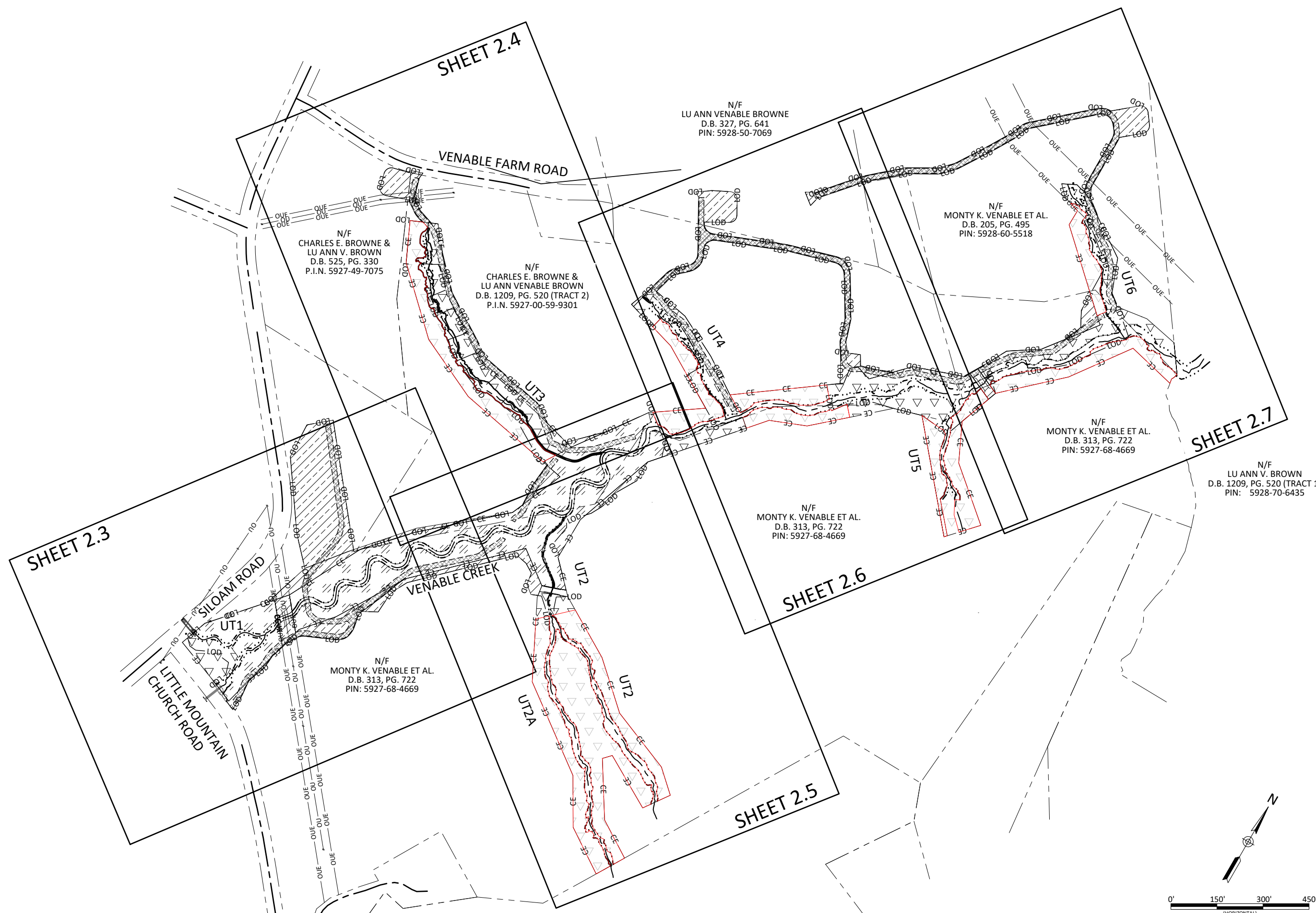
Permanent Riparian Seeding					
Pure Live Seed					
Approved Date	Species Name	Common Name	Stratum	Density (lbs/acre)	Wetland Indicator Code
All Year	<i>Schizachyrium scoparium</i>	Little Bluestem	Herb	1.5	FACU
All Year	<i>Panicum virgatum</i>	Switchgrass	Herb	1.0	FAC
All Year	<i>Sorghastrum nutans</i>	Indiangrass	Herb	1.5	FACU
All Year	<i>Panicum dichotomiflorum</i>	Smooth Pannicgrass	Herb	1.0	FACW
All Year	<i>Panicum anceps</i>	Beaked Panicgrass	Herb	1.0	FAC
All Year	<i>Panicum clandestinum</i>	Deertongue	Herb	2.0	FAC
All Year	<i>Elymus virginicus</i>	Virginia Wild Rye	Herb	2.0	FACW
All Year	<i>Tripsacum dactyloides</i>	Eastern Gammagrass	Herb	1.0	FACW
All Year	<i>Juncus tenuis</i>	Path Rush	Herb	0.6	FAC
All Year	<i>Juncus effusus</i>	Soft Rush	Herb	0.4	FACW
All Year	<i>Carex vulpinoidea</i>	Fox Sedge	Herb	1.0	OBL
All Year	<i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	Herb	1.0	FACU
All Year	<i>Bidens aristosa</i>	Bur-Marigold	Herb	1.0	FACW
All Year	<i>Rudbeckia hirta</i>	Blackeyed Susan	Herb	1.0	FACU
All Year	<i>Chamaecrista fasciculata</i> var. <i>fasciculata</i>	Partridge Pea	Herb	1.0	FACU
All Year	<i>Achillea millefolium</i>	Common Yarrow	Herb	1.0	FACU

Streambank Planting

Streambank Planting Zone							
Live Stakes: Streams with > 8' TOB width							
Species	Common Name	Max Spacing (ft)	Indiv. Spacing (ft)	Min. Size	Stratum	Percentage	Wetland Indicator Code
<i>Salix nigra</i>	Black Willow	6	3' - 6'	0.5" cal.	Canopy	35% 37%	OBL
<i>Salix sericea</i>	Silky Willow	6	3' - 6'	0.5" cal.	Shrub	25% 25%	OBL
<i>Cornus amomum</i>	Silky dogwood	6	3' - 6'	0.5" cal.	Shrub	20%	FACW
<i>Sambucus canadensis</i>	Elderberry	6	3' - 6'	0.5" cal.	Shrub	10% 9%	FAC
<i>Physocarpus opulifolius</i>	Ninebark	6	3' - 6'	0.5" cal.	Shrub	10% 9%	FACW
Total						100%	
Live Stakes: Streams with < 8' TOB width							
<i>Salix sericea</i>	Silky Willow	8	6-8	0.5" cal.	Shrub	40% 34%	OBL
<i>Cornus amomum</i>	Silky Dogwood	8	6-8	0.5" cal.	Shrub	20% 22%	FACW
<i>Sambucus canadensis</i>	Elderberry	8	6-8	0.5" cal.	Shrub	20% 22%	FAC
<i>Physocarpus opulifolius</i>	Ninebark	8	6-8	0.5" cal.	Shrub	20% 22%	FACW
Total						100%	
Herbaceous Plugs							
<i>Juncus effusus</i>	Common Rush	4	4	1.0" - 2.0" plug	Herb	50%	FACW
<i>Carex lurida</i>	Shallow Sedge	4	4	1.0" - 2.0" plug	Herb	20%	OBL
<i>Carex crinita</i>	Fringed Sedge	4	4	1.0" - 2.0" plug	Herb	15%	OBL
<i>Cyperus strigosus</i>	Straw-colored Flatsedge	4	4	1.0" - 2.0" plug	Herb	15%	FACW
Total						100%	

Herbaceous Zone

Herbaceous Zone				
Species	Common Name	Indiv. Spacing	Percentage	Wetland Indicator Code
<i>Juncus effusus</i>	Common Rush	4 ft.	40%	FACW
<i>Carex lurida</i>	Lurid Sedge	4 ft.	15%	OBL
<i>Carex crinita</i>	Fringed Sedge	4 ft.	15%	OBL
<i>Scirpus cyperinus</i>	Woolgrass	4 ft.	15%	FACW
<i>Sagittaria latifolia</i>	Broadleaf Arrowhead	4 ft.	15%	OBL

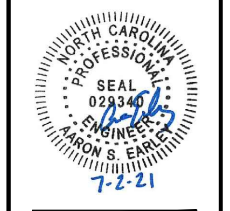


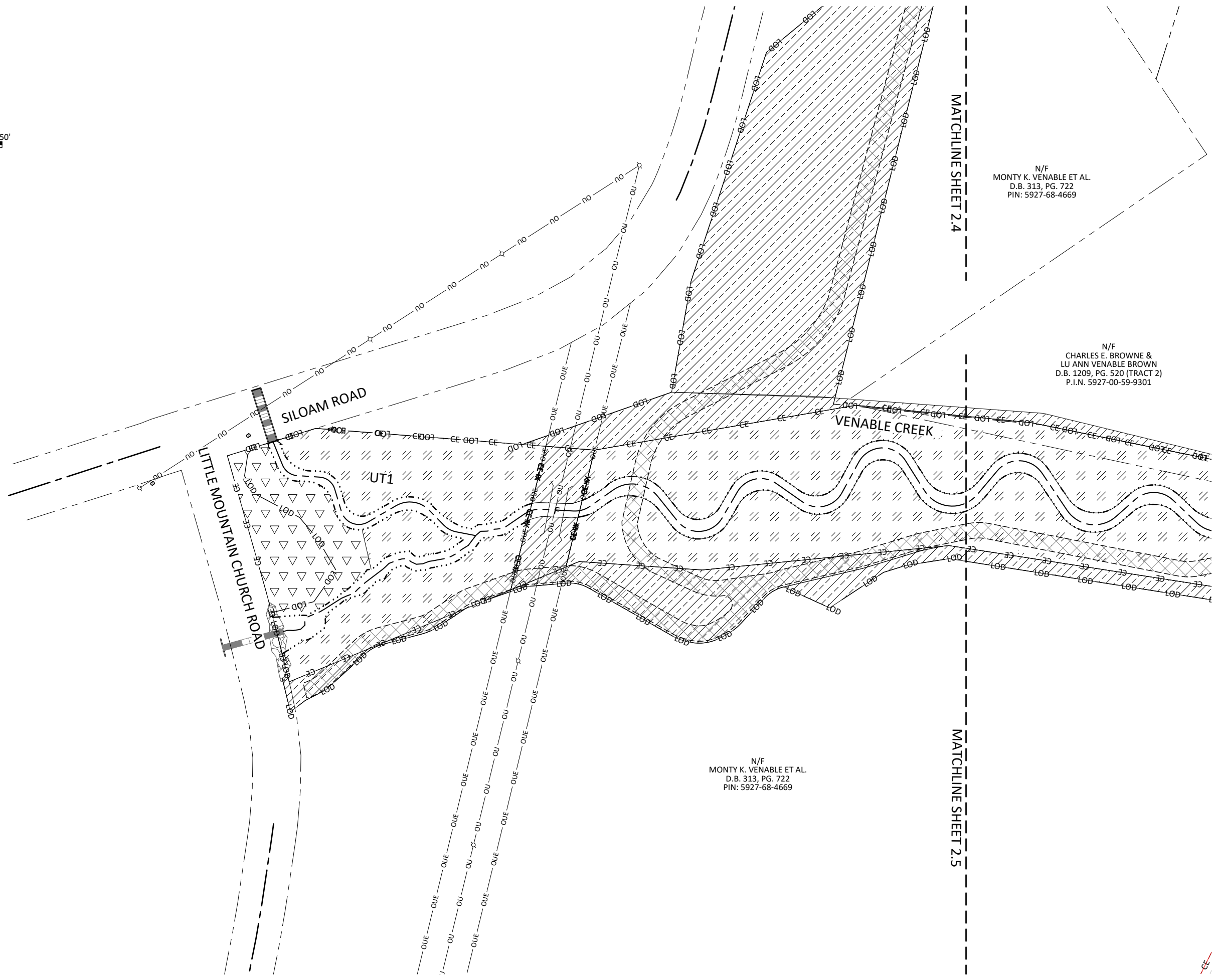
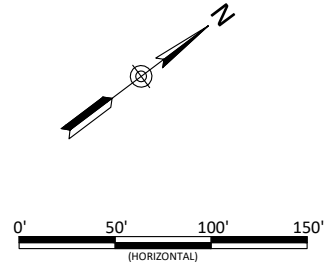
Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina
 Planting Overview
 Planting

Date:	June 18, 2021
Job Number:	005-02123
Project Engineer:	ASE
Drawn By:	HCC
Checked By:	JCK

2.2

Revisions:





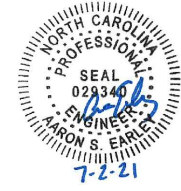
MATCHLINE SHEET 2.4

MATCHLINE SHEET 2.5

N/F
MONTY K. VENABLE ET AL.
D.B. 313, PG. 722
PIN: 5927-68-4669

N/F
CHARLES E. BROWNE &
LU ANN VENABLE BROWN
D.B. 1209, PG. 520 (TRACT 2)
P.I.N. 5927-00-59-9301

N/F
MONTY K. VENABLE ET AL.
D.B. 313, PG. 722
PIN: 5927-68-4669



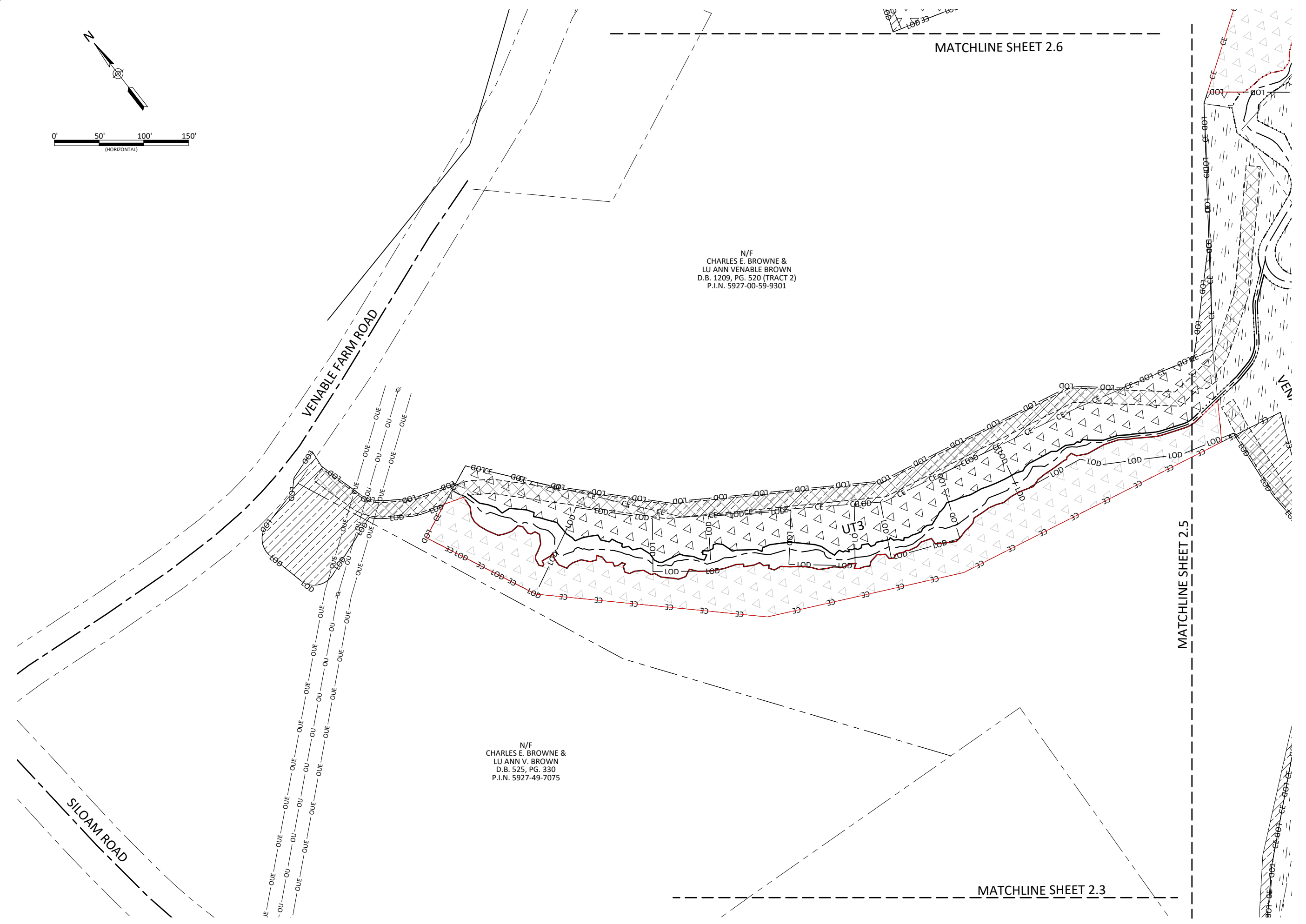
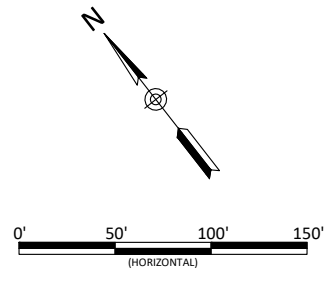
Honey Mill Mitigation Site Record Drawings Surry County, North Carolina

Planting Plan

Revisions:	

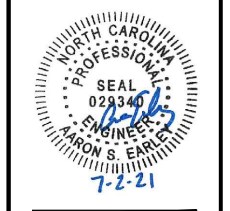
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Project Engineer:	ASE
Drawn By:	HCC
Checked By:	JCK

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N/F
CHARLES E. BROWNE &
LU ANN VENABLE BROWN
D.B. 1209, PG. 520 (TRACT 2)
P.I.N. 5927-00-59-9301

N/F
CHARLES E. BROWNE &
LU ANN V. BROWN
D.B. 525, PG. 330
P.I.N. 5927-49-7075

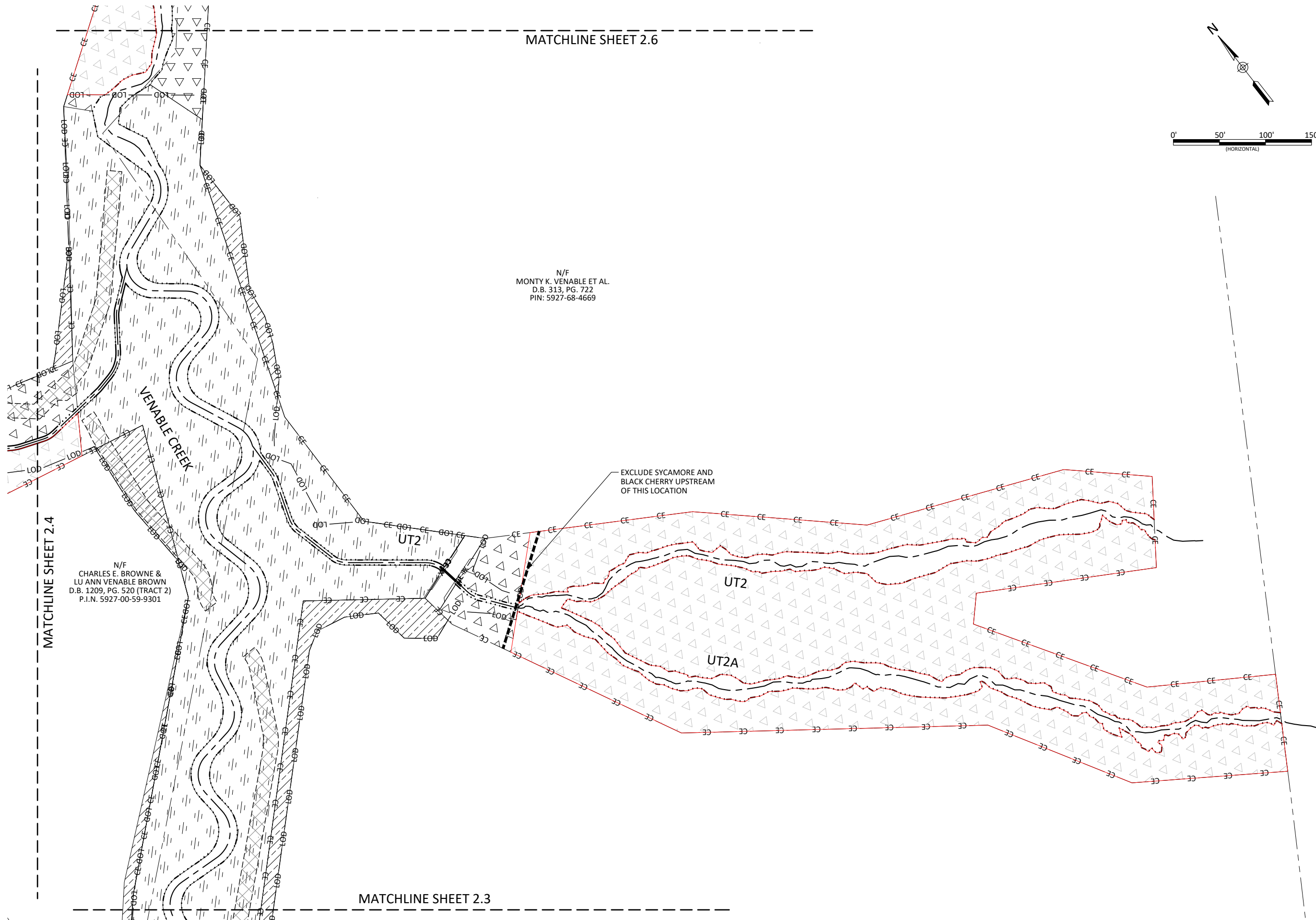


Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

Planting Plan

Date:	June 18, 2021
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Project Engineer:	ASE
Drawn By:	HCC
Checked By:	JCK

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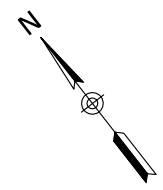
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D.B. 313, PG. 722
PIN: 5927-68-4669

N/F
CHARLES E. BROWNE &
LU ANN VENABLE BROWN
D.B. 1209, PG. 520 (TRACT 2)
P.I.N. 5927-00-59-9301

MATCHLINE SHEET 2.4

MATCHLINE SHEET 2.3



Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

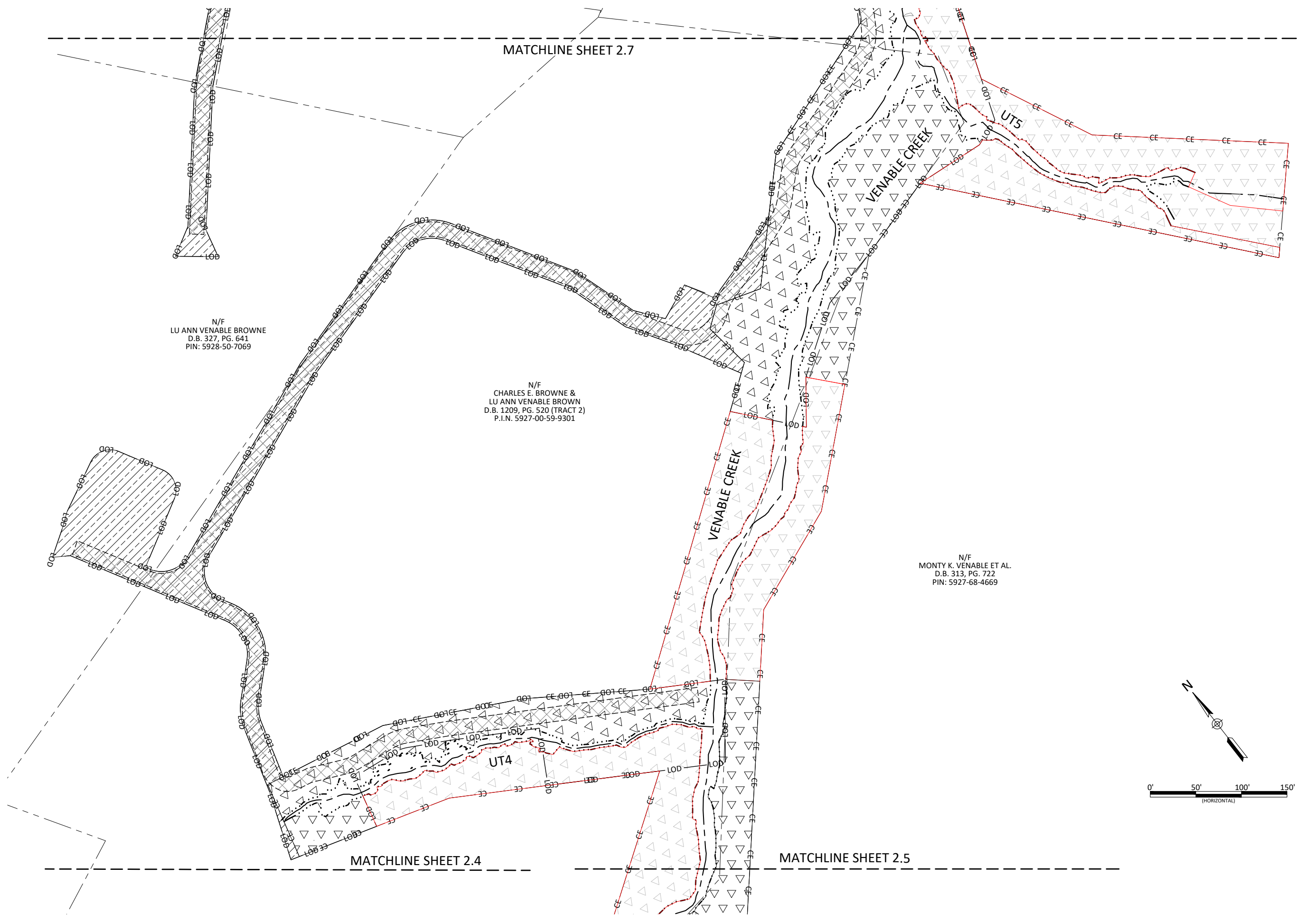
Planting Plan

Revisions:

Date: June 18, 2021
 Job Number: 005-02123
 Project Engineer: ASE
 Drawn By: HCC
 Checked By: JCK

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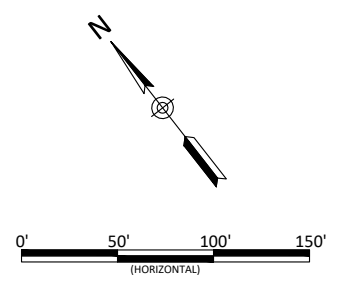
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June 30, 2021



N/F
LU ANN VENABLE BROWNE
D.B. 327, PG. 641
PIN: 5928-50-7069

N/F
CHARLES E. BROWNE &
LU ANN VENABLE BROWN
D.B. 1209, PG. 520 (TRACT 2)
P.I.N. 5927-00-59-9301

N/F
MONTY K. VENABLE ET AL.
D.B. 313, PG. 722
PIN: 5927-68-4669



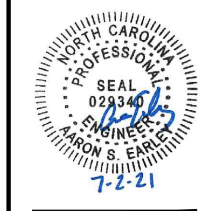
Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

Planting Plan

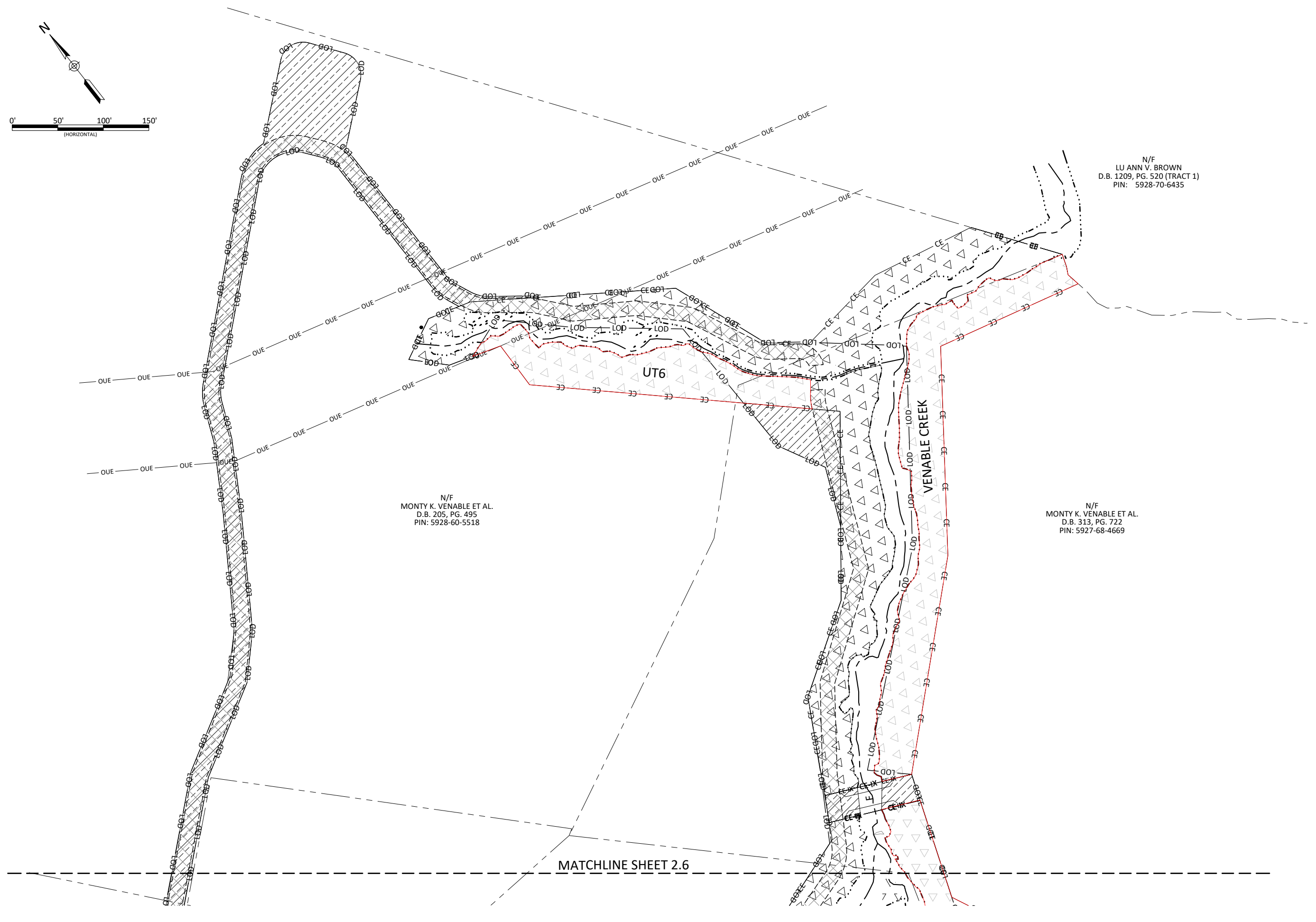
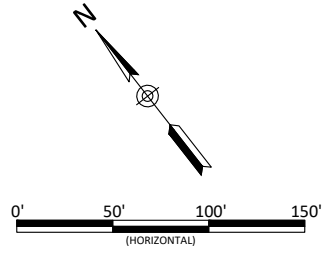
Date:	June 18, 2021
Job Number:	005-02123
Project Engineer:	ASE
Drawn By:	HCC
Checked By:	JCK

2.6

Sheet



WILDLANDS
ENGINEERING
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Charlotte, NC 28203
Tel: 704.332.7754
License No. F-0831



N/F
MONTY K. VENABLE ET AL.
D.B. 205, PG. 495
PIN: 5928-60-5518

N/F
MONTY K. VENABLE ET AL.
D.B. 313, PG. 722
PIN: 5927-68-4669

N/F
LU ANN V. BROWN
D.B. 1209, PG. 520 (TRACT 1)
PIN: 5928-70-6435

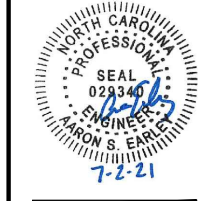
Honey Mill Mitigation Site Record Drawings
Surry County, North Carolina

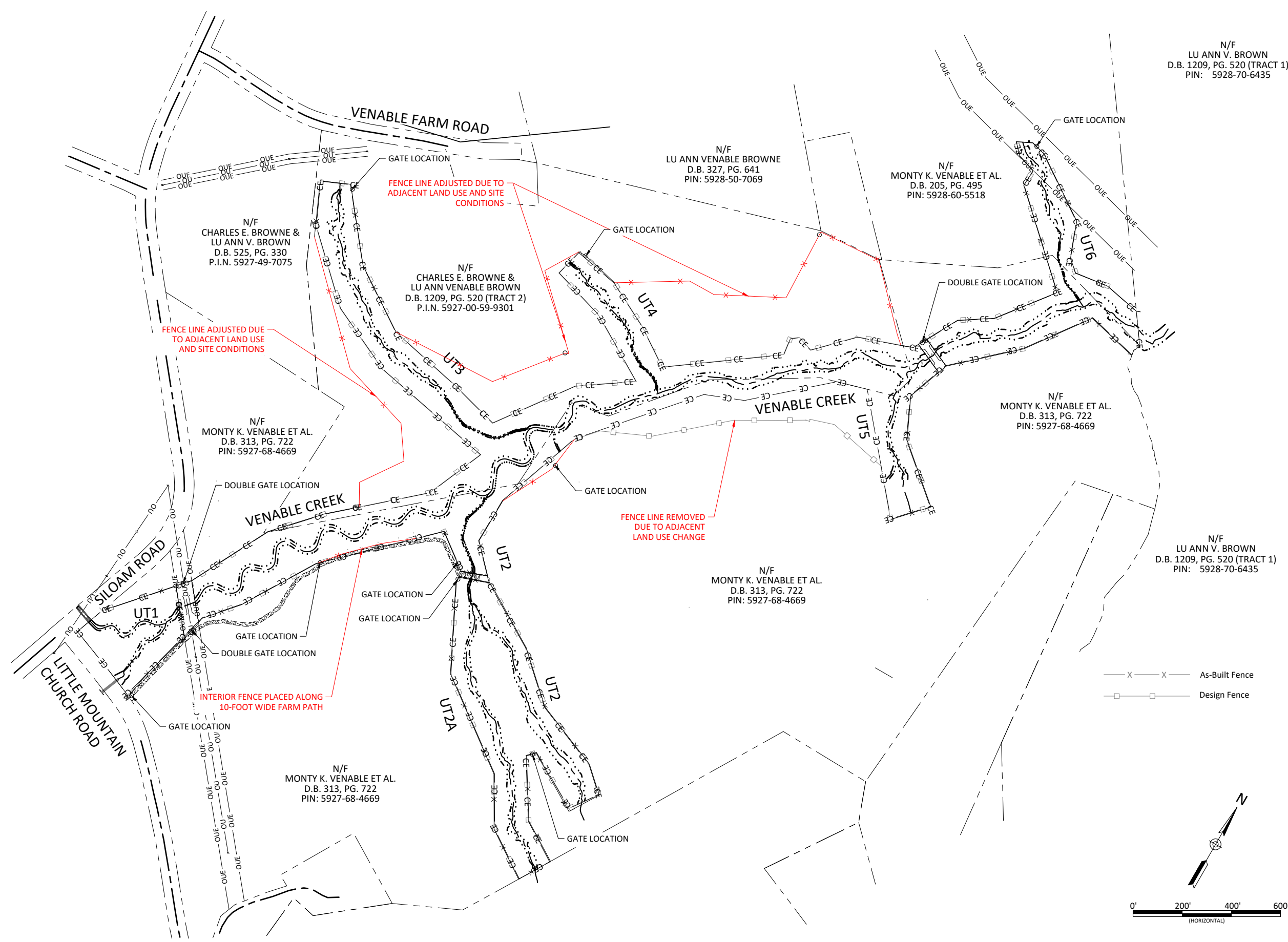
Planting Plan

Revisions:

Date: June 18, 2021
Job Number: 005-02123
Project Engineer: ASE
Drawn By: HCC
Checked By: JCK

2.7





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 LU ANN V. BROWN
 D.B. 1209, PG. 520 (TRACT 1)
 PIN: 5928-70-6435

N/F
 LU ANN VENABLE BROWNE
 D.B. 327, PG. 641
 PIN: 5928-50-7069

N/F
 MONTY K. VENABLE ET AL.
 D.B. 205, PG. 495
 PIN: 5928-60-5518

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 CHARLES E. BROWNE &
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N/F
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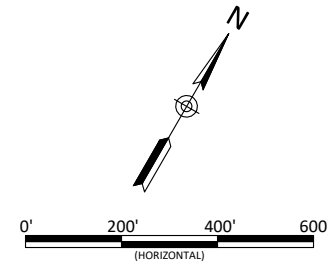
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 D.B. 1209, PG. 520 (TRACT 1)
 PIN: 5928-70-6435

N/F
 MONTY K. VENABLE ET AL.
 D.B. 313, PG. 722
 PIN: 5927-68-4669

— x — x — As-Built Fence
 — □ — Design Fence



Honey Mill Mitigation Site Record Drawings
 Surry County, North Carolina
 Fencing Overview
 Fencing

Revisions:

Date: June 25, 2021
 Job Number: 005-02123
 Project Engineer: ASE
 Drawn By: HCC
 Checked By: JCK

3.1

