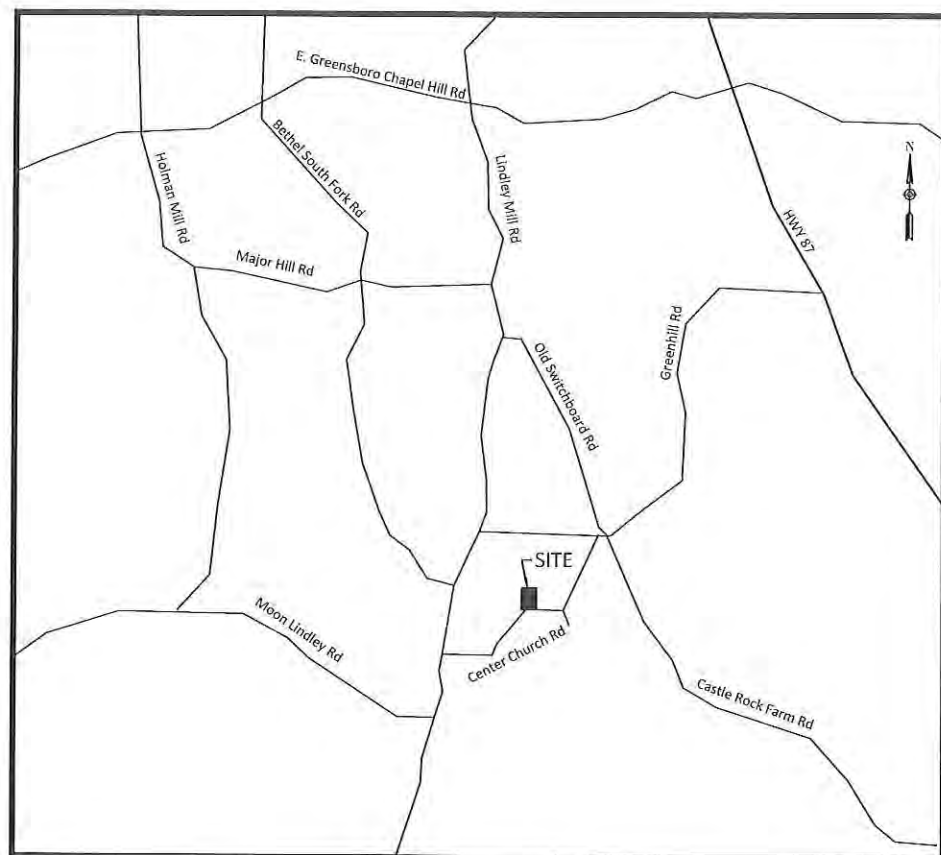


Maney Farm Mitigation Project Record Drawings

Cape Fear River Basin HUC 03030002

Chatham County, North Carolina

for
NCDEQ -
Division of Mitigation Services



Vicinity Map
Not to Scale

RECORD DRAWINGS
ISSUED May 13, 2016

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 FEBRUARY 22, 2016; 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 02/06/16 - 02/13/16; 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 .1605; 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 13 DAY OF May, 2016.

OFFICIAL SEAL



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

Sheet Index

| | |
|---------------------------|----------|
| Title Sheet | 0.1 |
| Project Overview | 0.2 |
| General Notes and Symbols | 0.3 |
| Stream Plan and Profile | 1.1-1.16 |
| Planting | 2.1-2.5 |

Project Directory

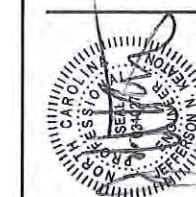
Surveying:
Turner Land Surveying, PLLC
P.O. Box 148
Swannanoa, NC 28778
David S. Turner, PLS
919-623-5095

Engineering:
Wildlands Engineering, Inc
License No. F-0831
312 West Millbrook Road, Ste 225
Raleigh, NC 27609
Jeff Keaton, P.E.
919-851-9986

Owner:
NCDEQ
Division of Mitigation Services
1652 Mail Service Center
Raleigh, NC 27699-1652
Jeff Jurek
919-707-8976

DMS Project ID 96314
NCDEQ Contract No. 005793

WILDLANDS
ENGINEERING
312 West Millbrook Road, Ste 225
Raleigh, NC 27609
Tel: 919-851-9986
Fax: 919-851-9986
Firm License No. F-0831



Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

Title Sheet

Revisions:

Date: May 13, 2016
Job Number: 005-02144
Project Engineer: JK
Drawn By: RCP
Checked By: JK

0.1

Sheet

T:\ACTIVE PROJECTS\INCOMPLETED\Maney Farm Mitigation\Baseline Monitors\Plan\0214\A-Cover\Notes.dwg

- Property Line
- Conservation Easement
- Design Thalweg Alignment
- Design Bankfull
- Design Major Contour
- Design Minor Contour



- As-Built Thalweg Alignment
- As-Built Major Contour
- As-Built Minor Contour
- Tree Saved During Construction
- Rip Rap

- Design Log Sill
- Design Root Wad
- Design Cover Log
- Design Constructed Riffle
- Design Brush Toe
- Design Sod Mats

- As-Built Log Sill
- As-Built Root Wad
- As-Built Cover Log
- As-Built Constructed Riffle
- As-Built Brush Toe
- As-Built Sod Mats

- Monitoring Cross Section
- Monitoring Bank Pin Array
- Monitoring Vegetation Plot
- Monitoring Supplemental Vegetation Plot
- Monitoring Photo Point
- Monitoring Flow Gauge
- Monitoring Stream Gauge
- Monitoring Barometric Gauge
- Monitoring Rain Gauge

*Deviation from design shown in red.

DATE: May 13, 2016
 JOB NUMBER: 005-02144
 PROJECT ENGINEER: JK
 DRAWN BY: RCP
 CHECKED BY: JK

Maney Farm Mitigation Project Record Drawings

Chatham County, North Carolina

General Notes and Symbols

REVISIONS:

| No. | Description |
|-----|-------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

WILDLANDS
 312 West Hillsboro Road, Ste 225
 Raleigh, NC 27609
 Tel: 919.851.9986
 Fax: 919.851.9986
 Firm License No. F-0331

0.2

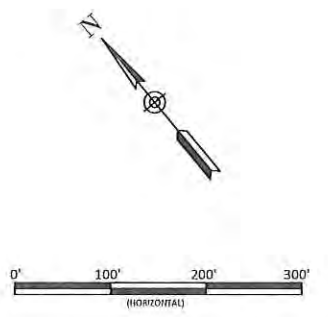
Sheet

Max 13, 2016
T:\ACTIVE PROJECTS\NCDWR\0244\Maney Farm Mitigation\Subline Administrative\Plan\UT14.dwg

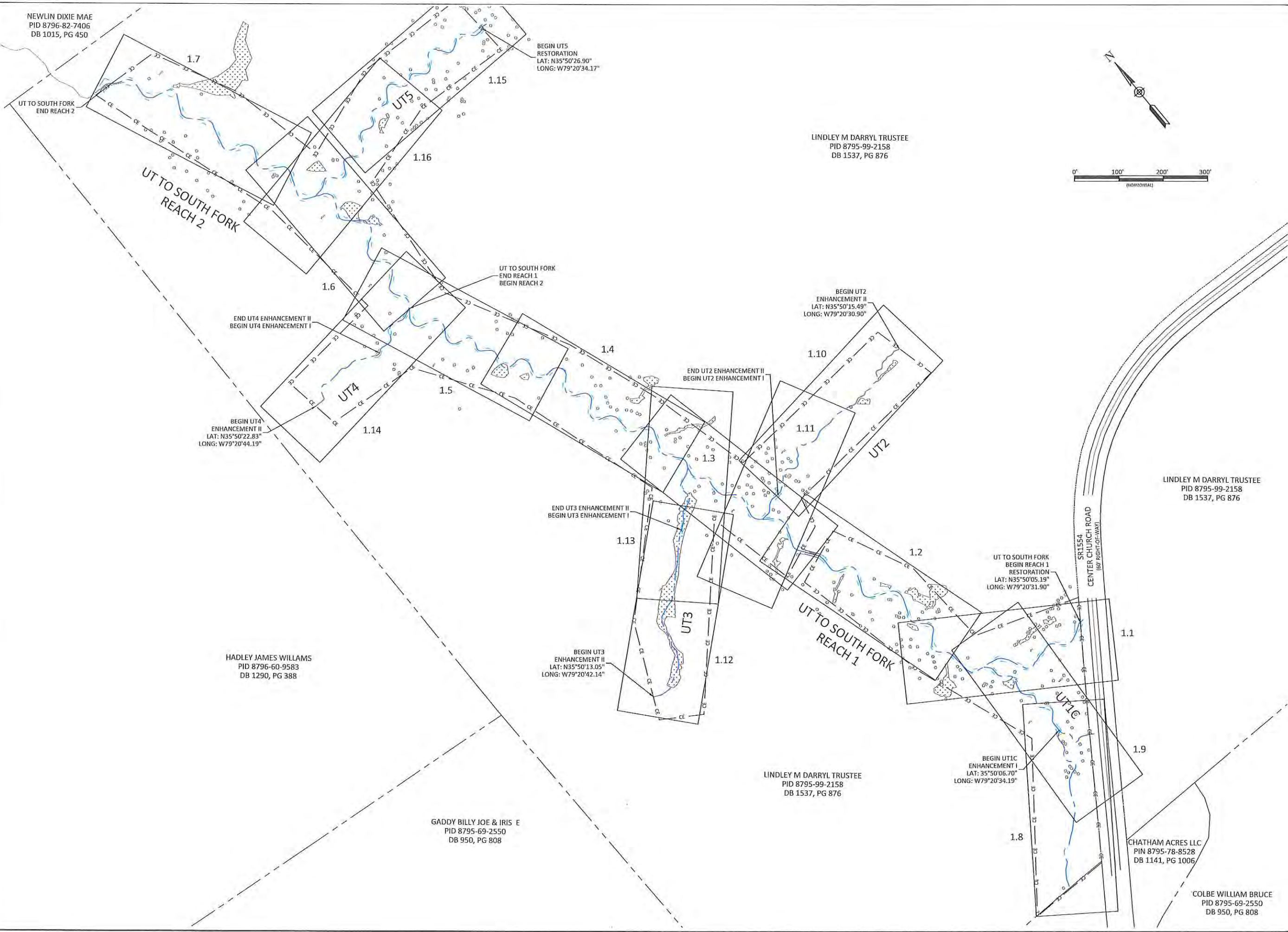
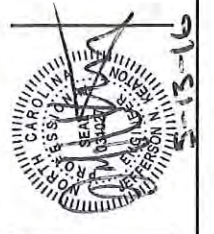
NEWLIN DIXIE MAE
PID 8796-82-7406
DB 1015, PG 450

BEGIN UT5
RESTORATION
LAT: N35°50'26.90"
LONG: W79°20'34.17"

LINDLEY M DARRYL TRUSTEE
PID 8795-99-2158
DB 1537, PG 876



WILDLANDS
ENGINEERING
312 W. GILBERT ST. #225
RALEIGH, NC 27609
Tel: 919.851.9986
Fax: 919.851.9986
Firm License No. F-0831



END UT4 ENHANCEMENT II
BEGIN UT4 ENHANCEMENT I

BEGIN UT4
ENHANCEMENT II
LAT: N35°50'22.83"
LONG: W79°20'44.19"

UT TO SOUTH FORK
END REACH 1
BEGIN REACH 2

BEGIN UT2
ENHANCEMENT II
LAT: N35°50'15.49"
LONG: W79°20'30.90"

END UT2 ENHANCEMENT II
BEGIN UT2 ENHANCEMENT I

END UT3 ENHANCEMENT II
BEGIN UT3 ENHANCEMENT I

BEGIN UT3
ENHANCEMENT II
LAT: N35°50'13.05"
LONG: W79°20'42.14"

UT TO SOUTH FORK
BEGIN REACH 1
RESTORATION
LAT: N35°50'05.19"
LONG: W79°20'31.90"

HADLEY JAMES WILLIAMS
PID 8796-60-9583
DB 1290, PG 388

GADDY BILLY JOE & IRIS E
PID 8795-69-2550
DB 950, PG 808

LINDLEY M DARRYL TRUSTEE
PID 8795-99-2158
DB 1537, PG 876

BEGIN UT1C
ENHANCEMENT I
LAT: 35°50'06.70"
LONG: W79°20'34.19"

CHATHAM ACRES LLC
PIN 8795-78-8528
DB 1141, PG 1006

COLBE WILLIAM BRUCE
PID 8795-69-2550
DB 950, PG 808

Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

Project Overview

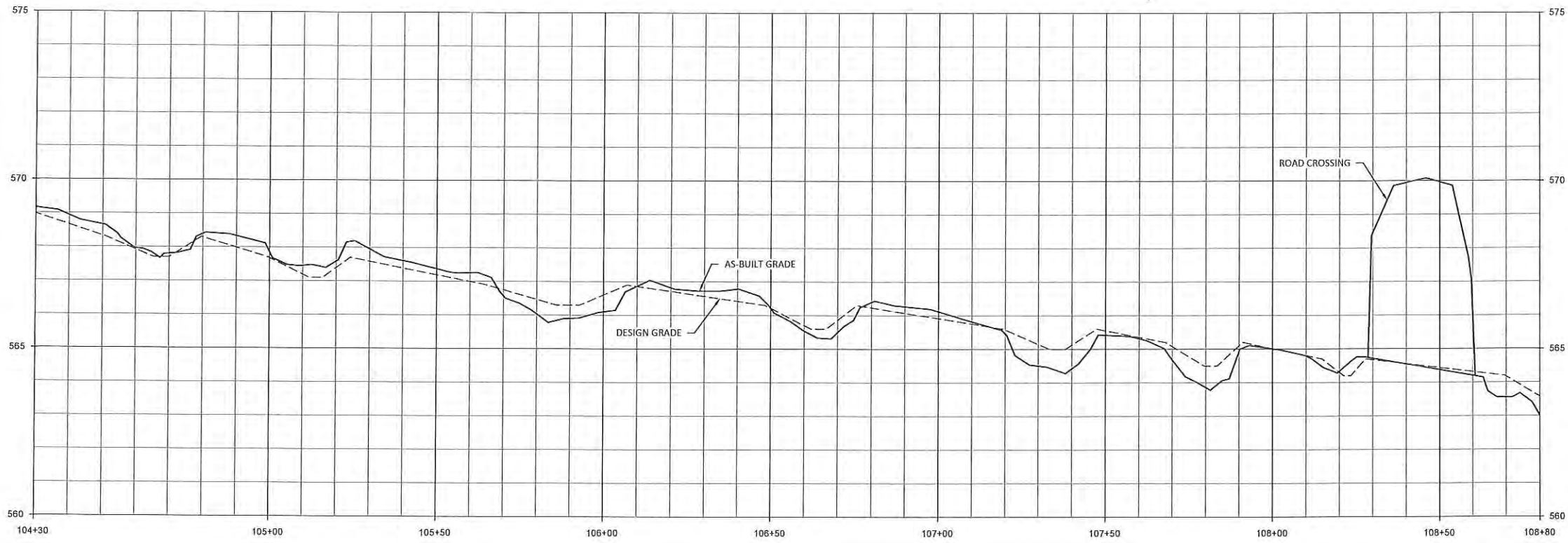
Revisions table with columns for revision number, date, and description.

Project metadata table including Date (May 13, 2016), Job Number (005-02144), Project Engineer (JK), Drawn By (RCT), and Checked By (JK).

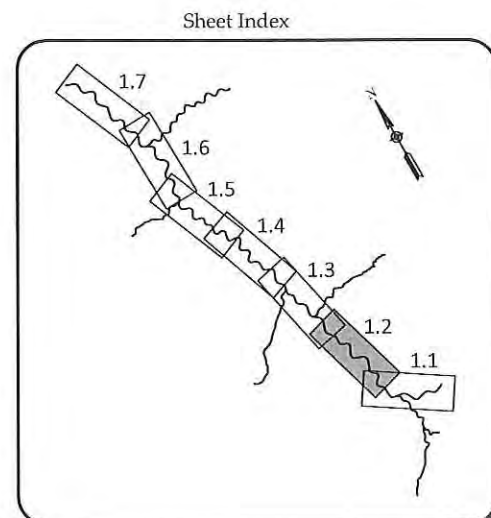
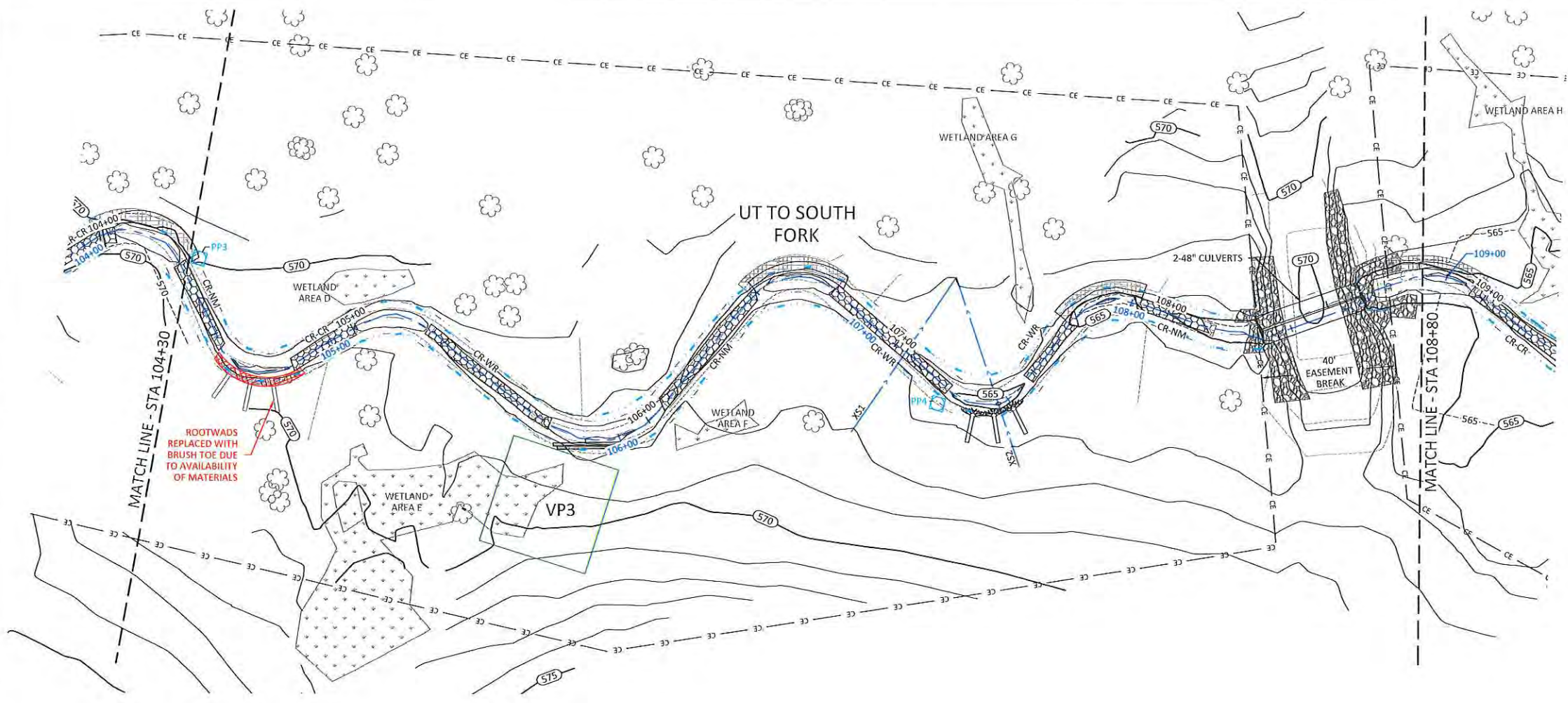
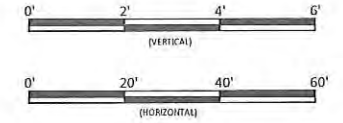
0.3

Sheet

May 13, 2016



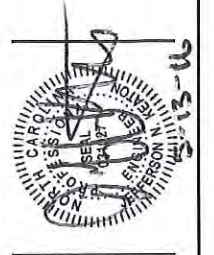
Note: As-built profile stations and match lines based on design alignment.



Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

UTISF Reach 1
Stream Plan and Profile

WILDLANDS
ENGINEERING
312 W. GUILFORD ST. #225
RALEIGH, NC 27609
Tel: 919.851.9986
Fax: 919.851.9986
Firm License No. F-0831

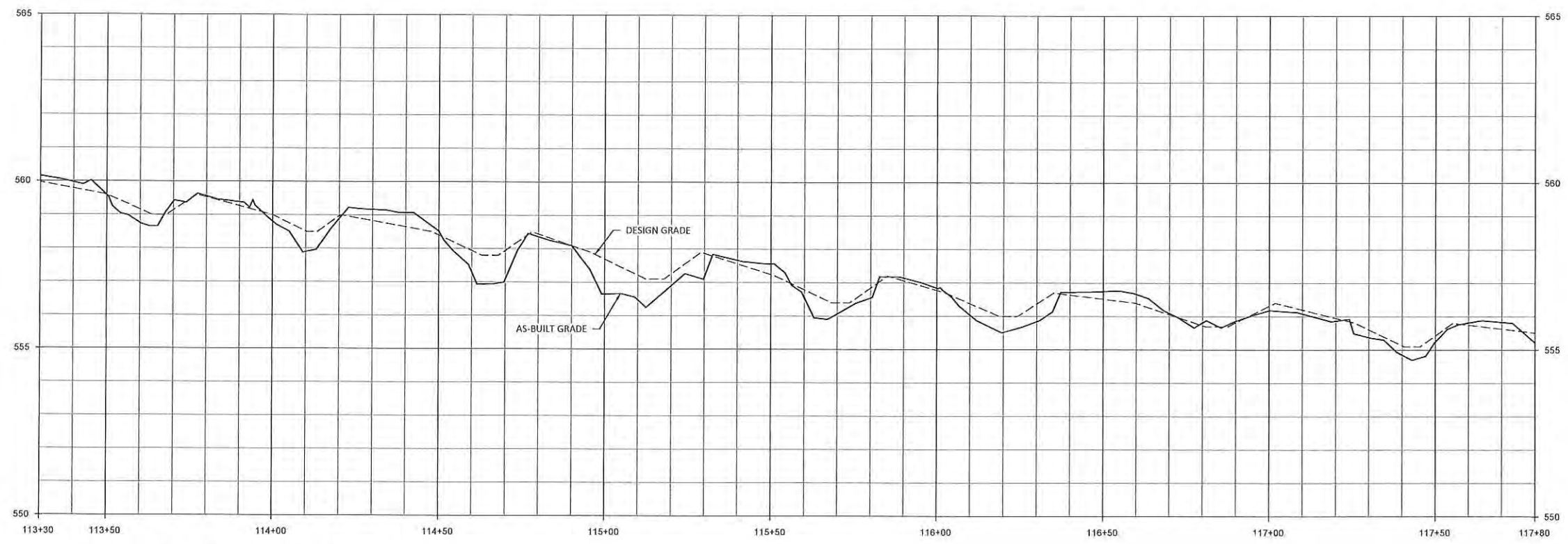


| | |
|-------------------|--------------|
| Date: | May 13, 2016 |
| Job Number: | 005-02144 |
| Project Engineer: | JK |
| Drawn By: | RCP |
| Checked By: | JK |
| Revisions: | |

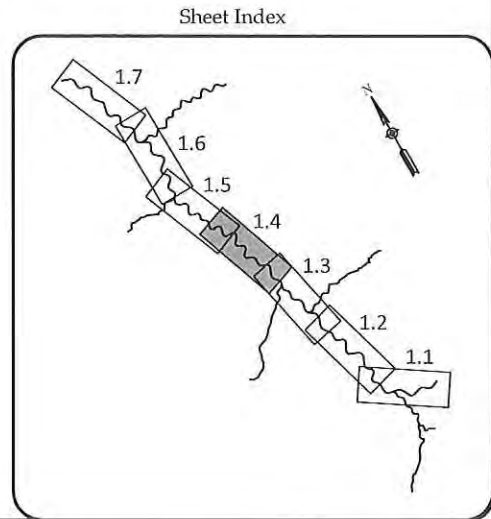
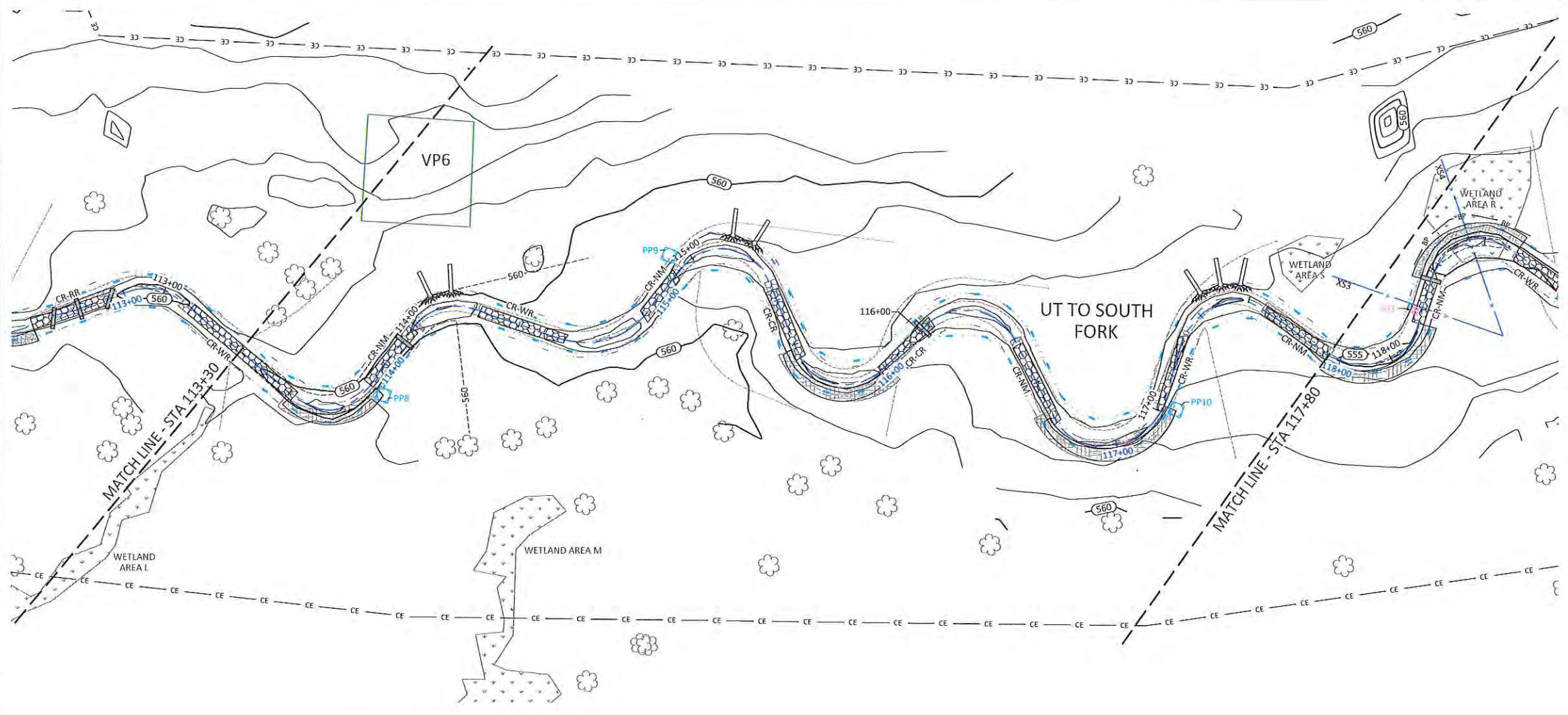
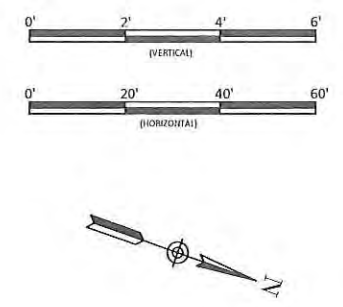
1.2

Sheet

T:\ACTIVE PROJECTS\105-02144-Maney Farm Mitigation\Subarea Mitigation\Drawings\UTSF\14-As-Built-Profile.dwg
 May 13, 2016



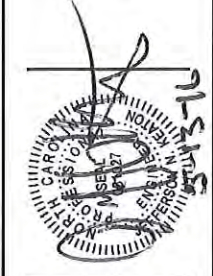
Note: As-built profile stations and match lines based on design alignment.



Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

UTSF Reach 1
 Stream Plan and Profile

WILDLANDS
 ENGINEERING
 312 W. GOLF COURSE RD. SUITE 225
 RALEIGH, NC 27609
 TEL: 919.851.9986
 FAX: 919.851.9986
 FIRM LICENSE NO. F-0831

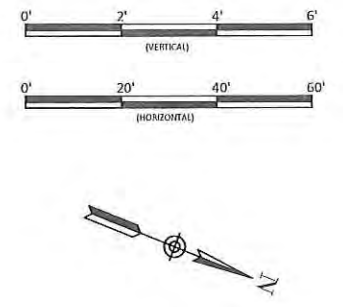
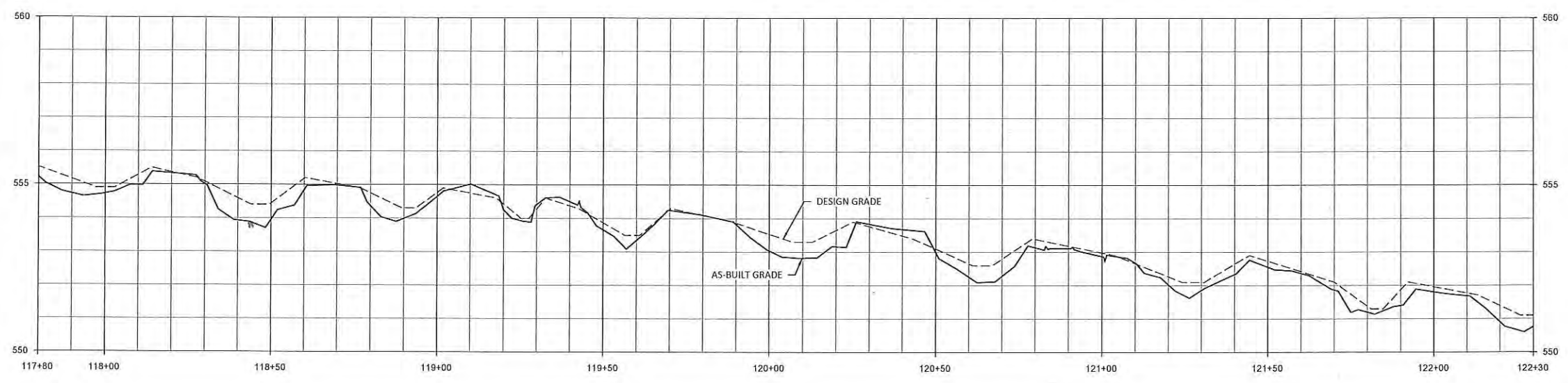


| Revision | Date | By | Check |
|----------|------|----|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

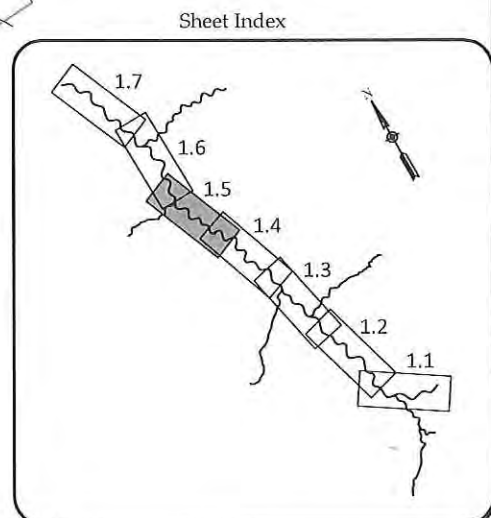
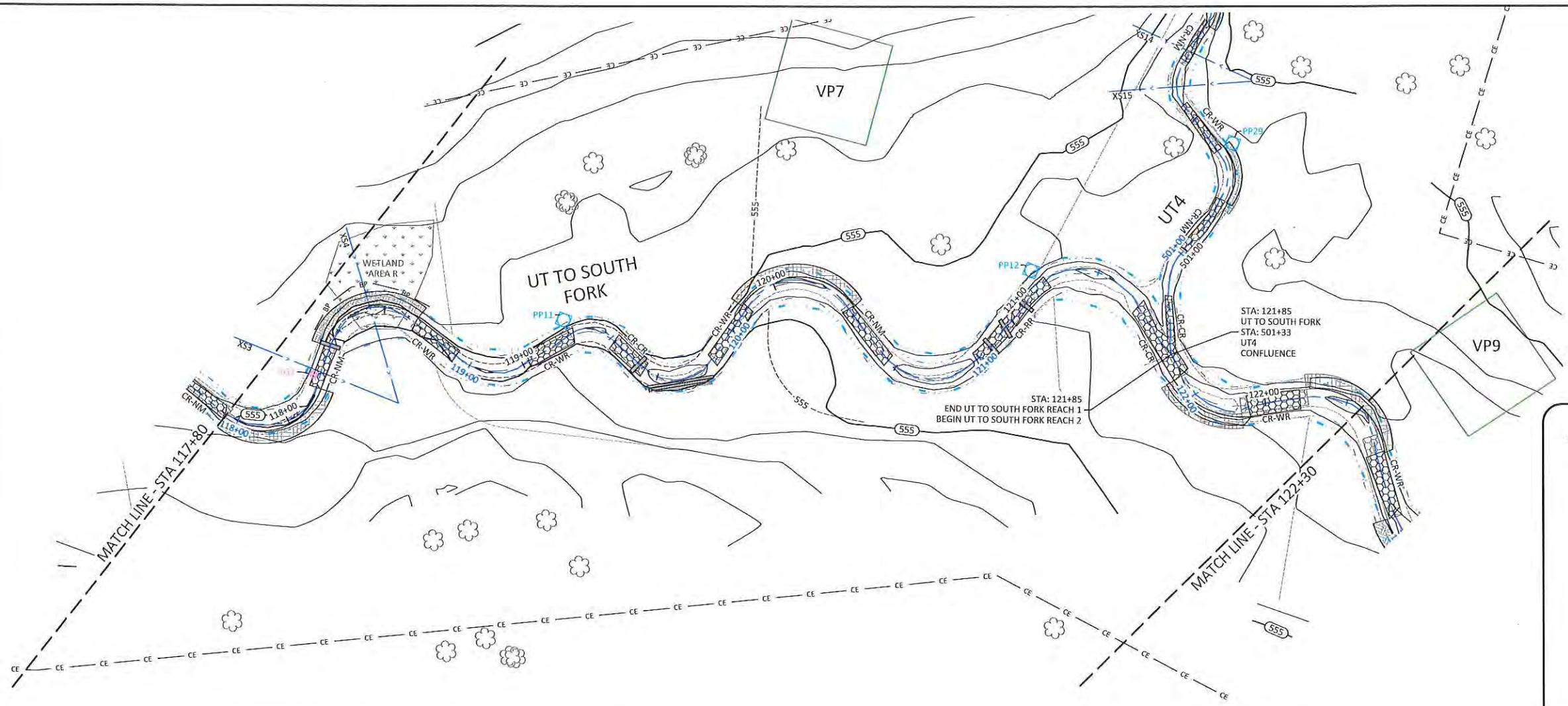
Date: May 13, 2016
 Job Number: 005-02144
 Project Engineer: JK
 Drawn By: RCP
 Checked By: JK

1.4
 Sheet

T:\ACTIVE PROJECTS\INCUMBES\2144 Maney Farm Mitigation\2144.dwg - Maney Farm Mitigation\Drawings\2144.dwg



Note: As-built profile stations and match lines based on design alignment.



Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

UTSF Reach 1 & 2
Stream Plan and Profile

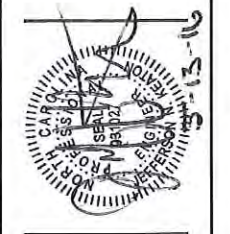
| Revision | Date | By | Check |
|----------|------|----|-------|
| | | | |
| | | | |
| | | | |
| | | | |

Date: May 13, 2016
Job Number: 005-02144
Project Engineer: JKS
Drawn By: RCP
Checked By: JKS

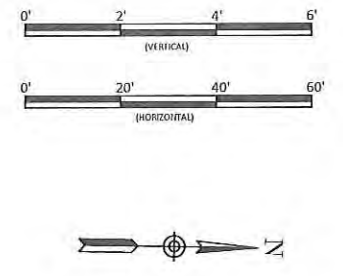
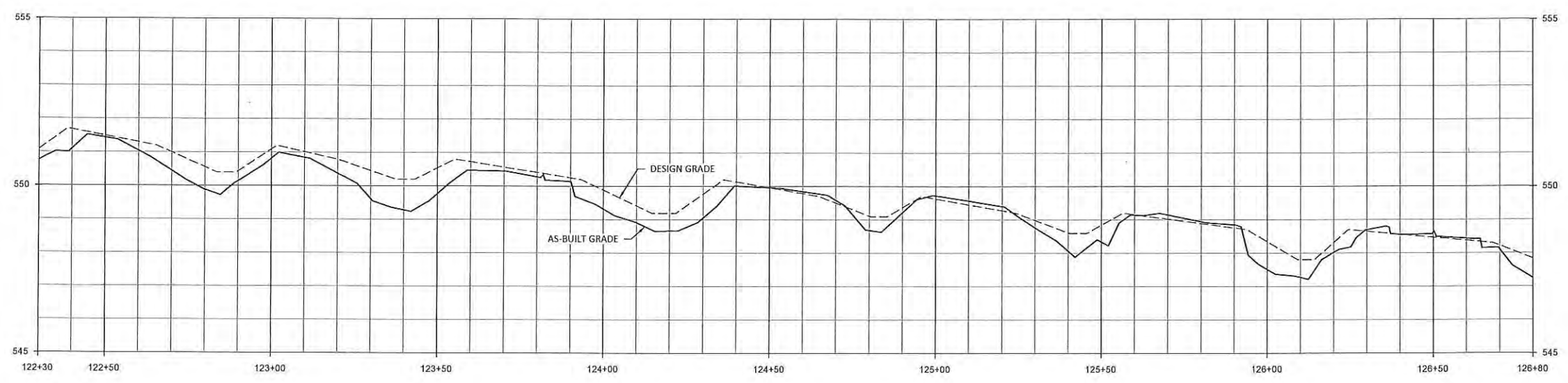
1.5

Sheet

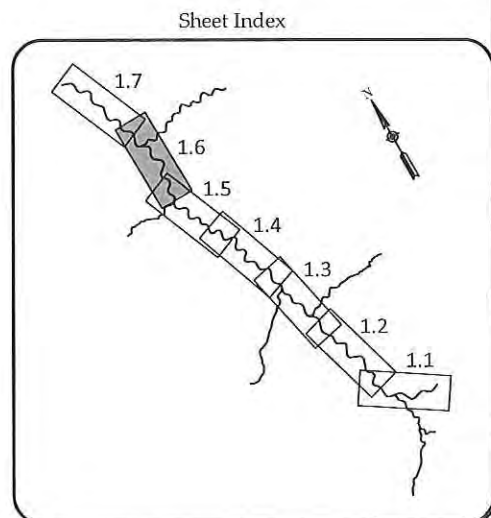
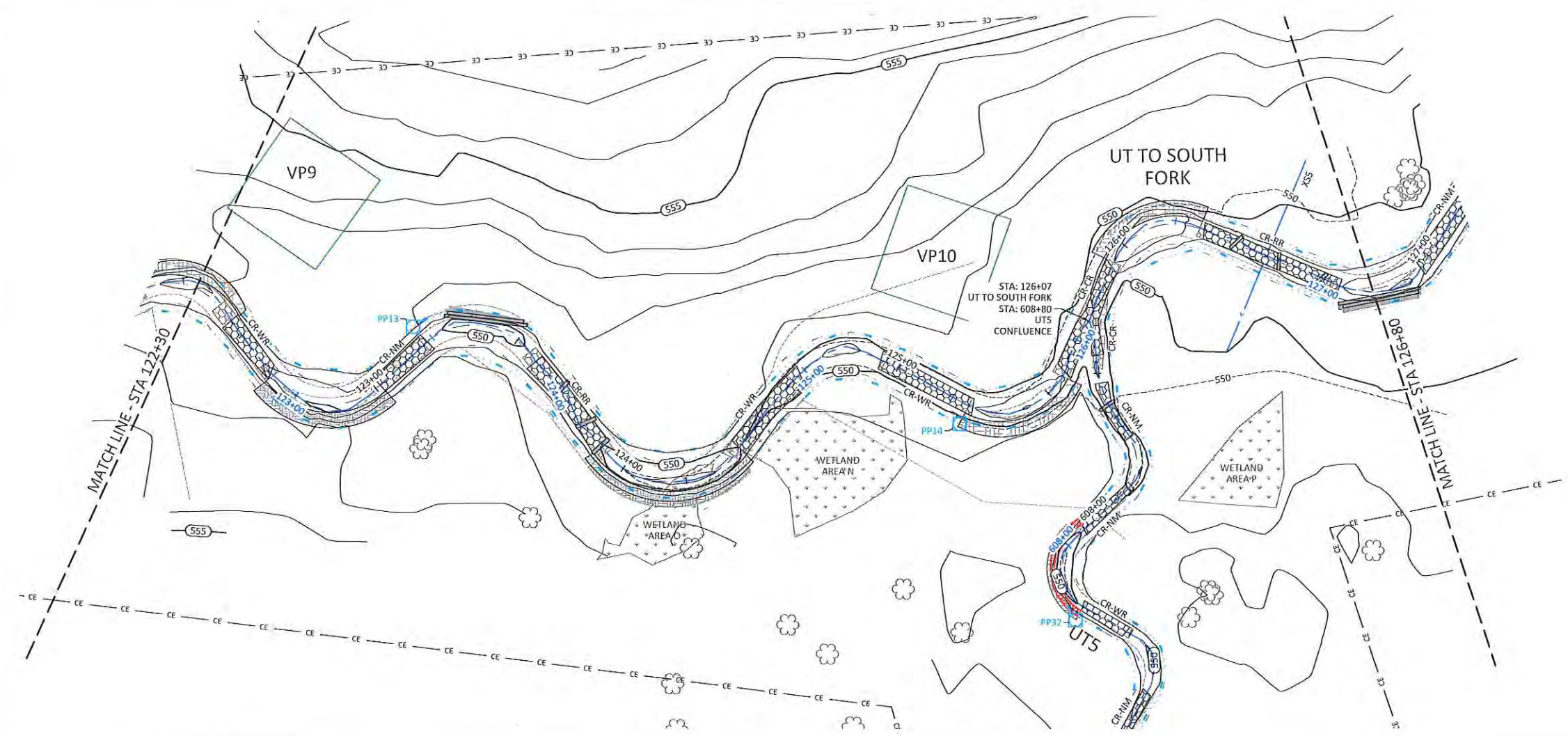
WILDLANDS
INC.
312 West Millbrook Road, Ste 225
Raleigh, NC 27609
Tel: 919.851.9986
Fax: 919.851.9986
Firm License No. F-0831



May 13, 2016



Note: As-built profile stations and match lines based on design alignment.



Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

UTSF Reach 2
Stream Plan and Profile

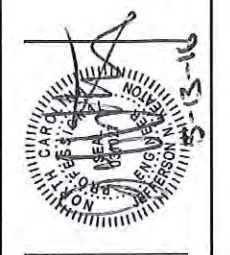
| Revision | Date | By | Check |
|----------|------|----|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Date: May 13, 2016
 Job Number: 005-02144
 Project Engineer: JKC
 Drawn By: RCP
 Checked By: JKS

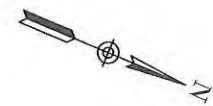
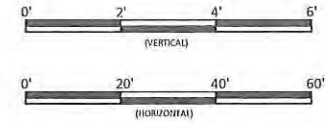
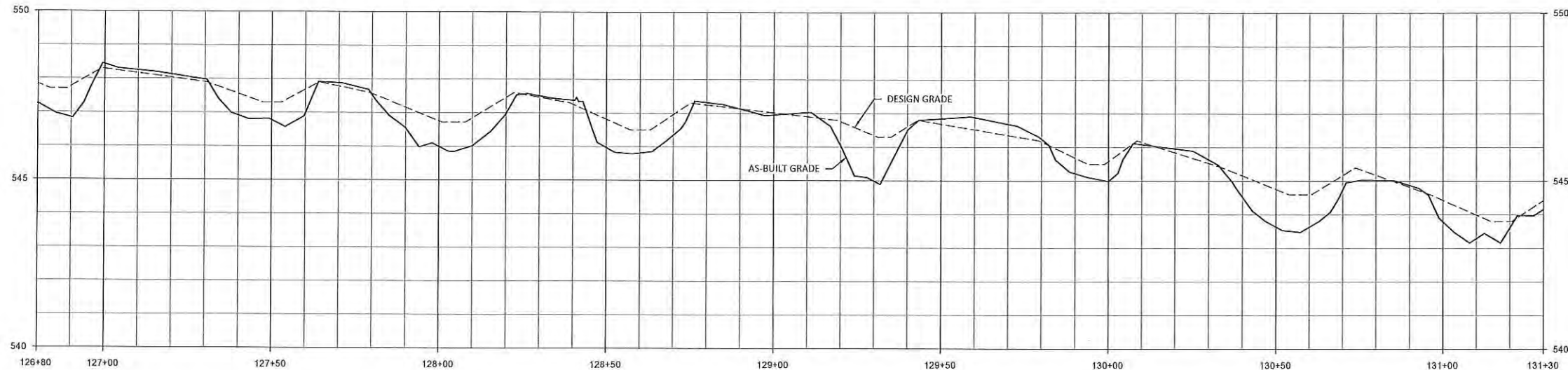
1.6

Sheet

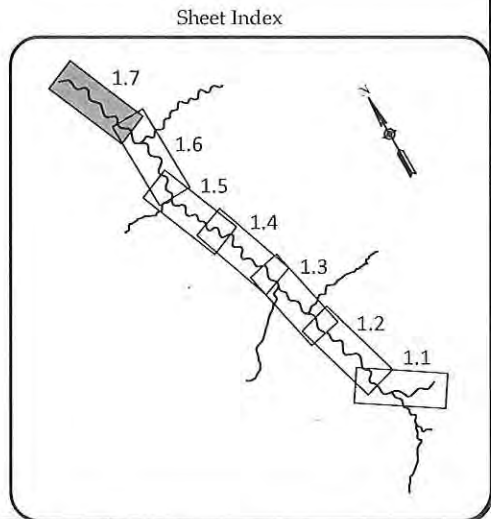
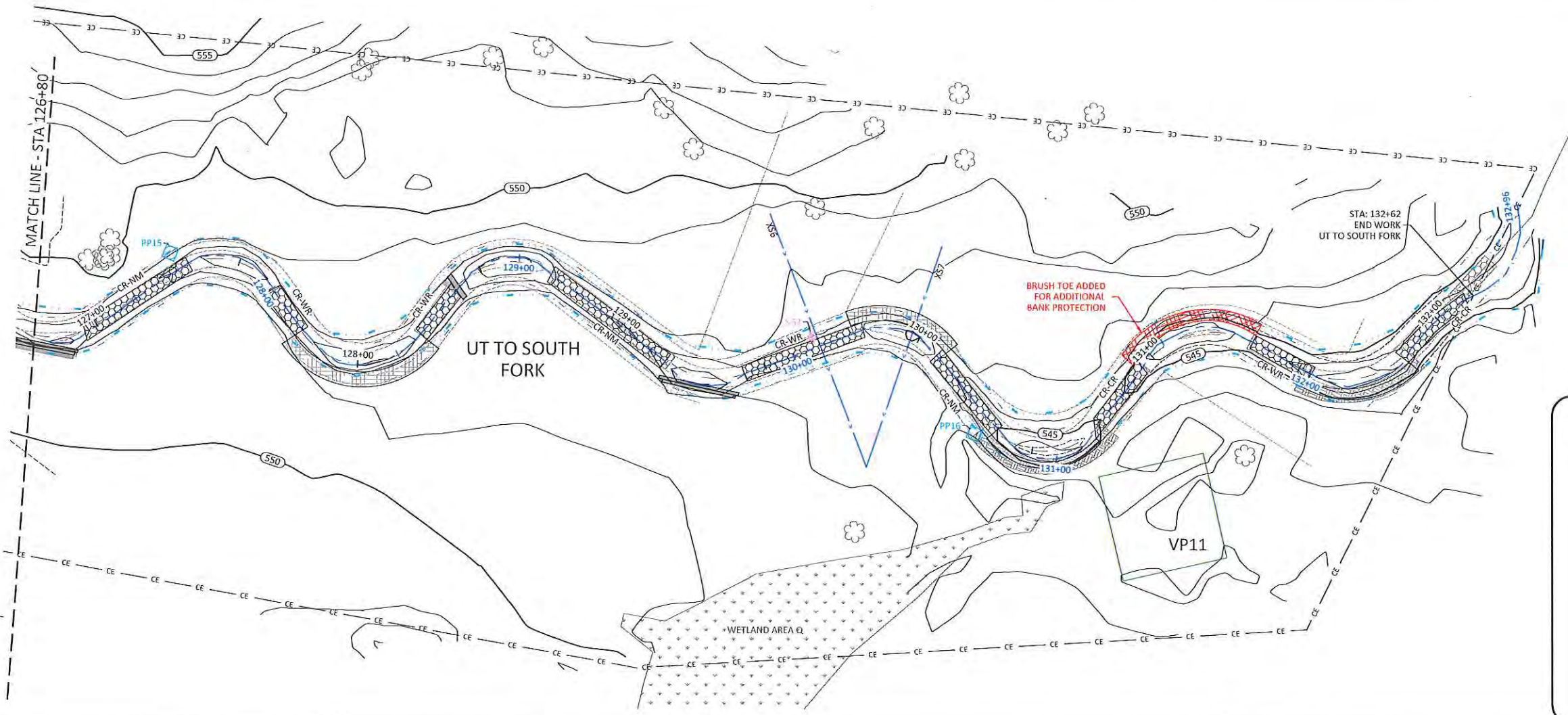
WILDLANDS
 312 West Millbrook Road, Ste 225
 Raleigh, NC 27609
 Tel: 919.851.9986
 Fax: 919.851.9986
 Firm License No. F-0831



May 13, 2016



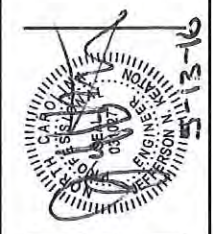
Note: As-built profile stations and match lines based on design alignment.



Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

UTSF Reach 2
Stream Plan and Profile

WILDLANDS
ENVIRONMENTAL SERVICES, INC.
312 West Millbrook Road, Ste 225
Raleigh, NC 27609
Tel: 919.851.9986
Fax: 919.851.9986
Firm License No. F-0831

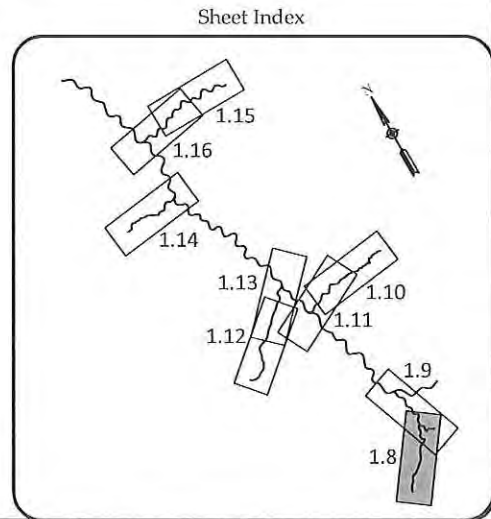
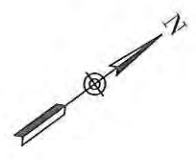
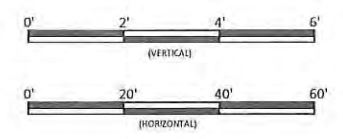
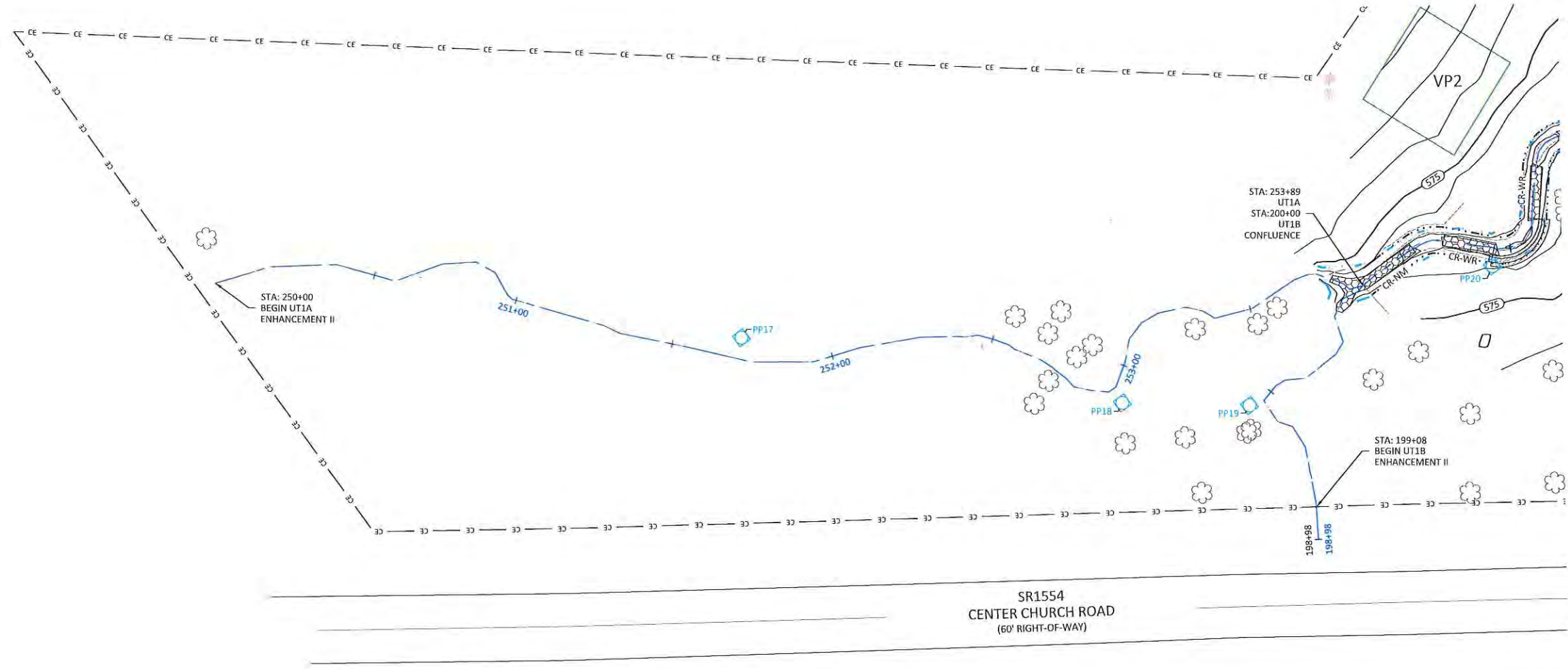


| | |
|-------------------|--------------|
| Date: | May 13, 2016 |
| Job Number: | 005-02144 |
| Project Engineer: | JK |
| Drawn By: | RCP |
| Checked By: | JK |

1.7

Sheet

TRAJECTIVE PROJECTS/NC/05/2016/14_Money_Farm_Mitigation/Online_Monitoring/Phase_V/UT1A_Ab_Profile.dwg



WILDLANDS
 ENGINEERING
 312 WILKINSON ST. #225
 RALEIGH, NC 27603
 Tel: 919.851.9986
 Fax: 919.851.9986
 Firm License No. F-0831



Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

UT1A & UT1B
 Stream Plan and Profile

Revisions:

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

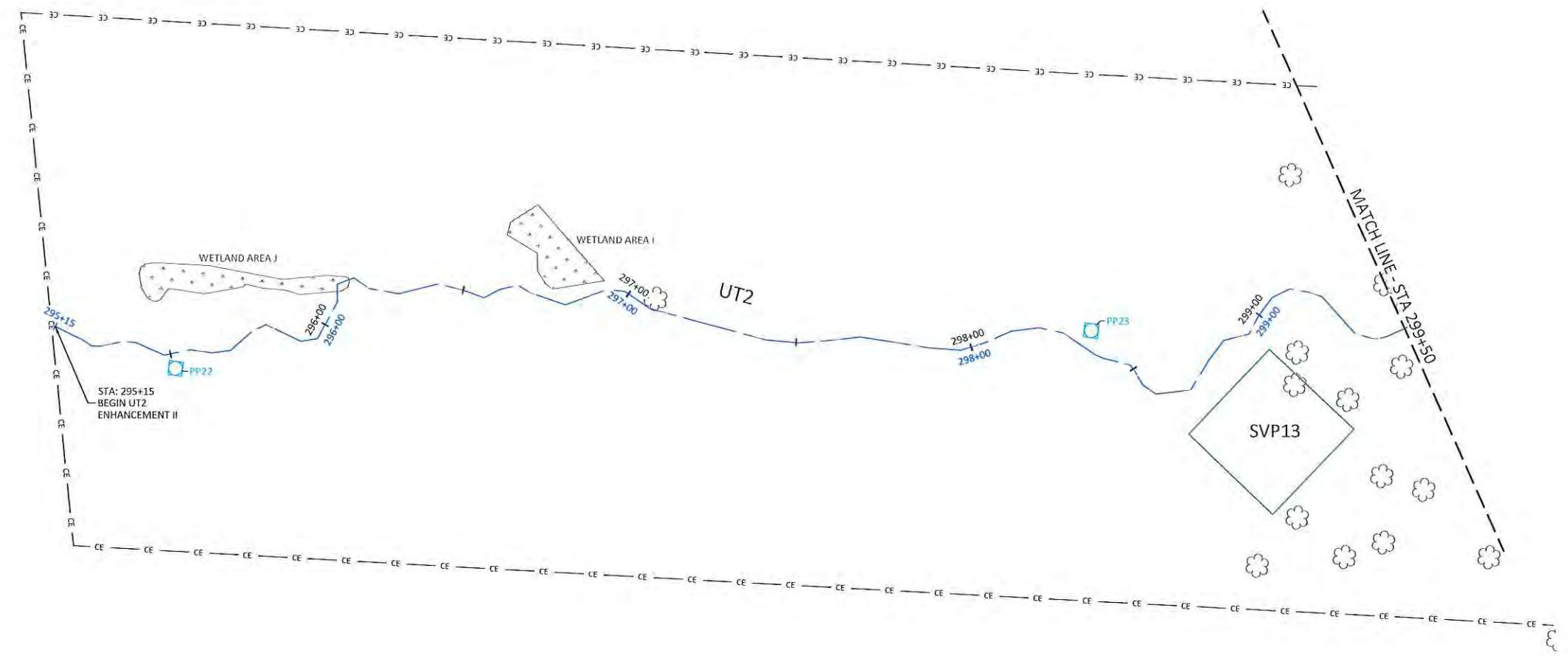
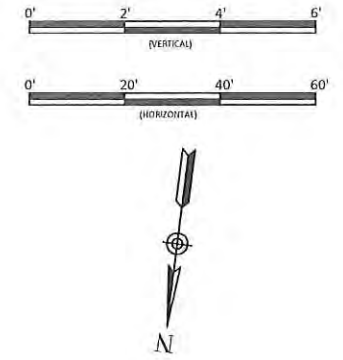
Date: May 13, 2016
 Job Number: 005-02144
 Project Engineer: JK
 Drawn By: RCP
 Checked By: JK

1.8

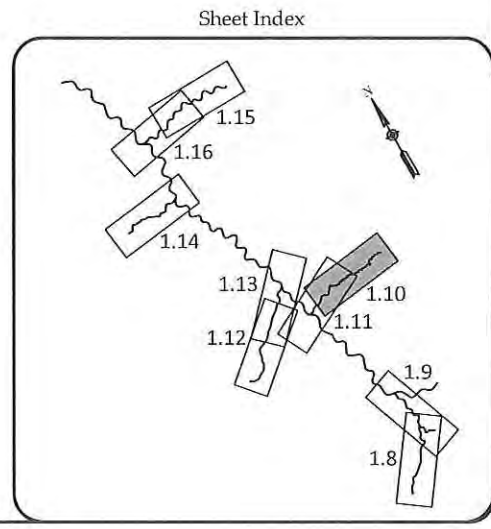
Sheet

May 13, 2016

T:\ACTIVE PROJECTS\NC\1005-02144_Money_Farm_Mitigation\Drawings\Main\1005-02144-1.10-UT2.dwg



Note: Match lines based on design alignment.



Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

UT2
Stream Plan and Profile

Revisions:

| | |
|--|--|
| | |
| | |
| | |
| | |
| | |

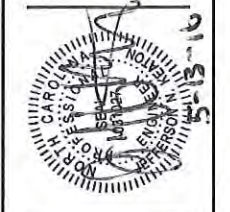
Date: May 13, 2016

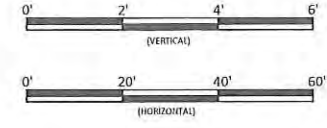
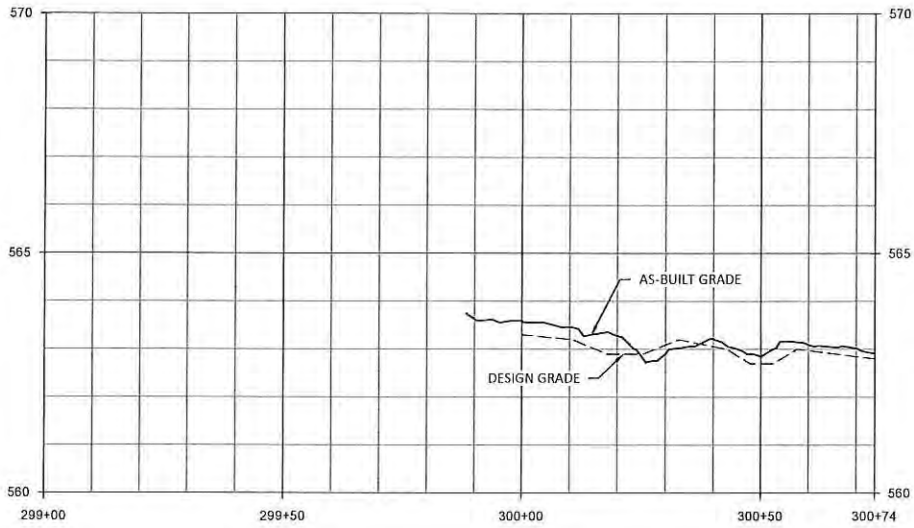
| | |
|-------------------|-----------|
| Job Number: | 005-02144 |
| Project Engineer: | JK |
| Drawn By: | RCP |
| Checked By: | JK |

1.10

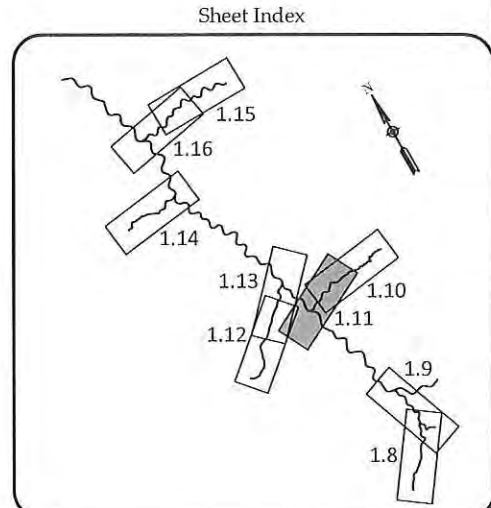
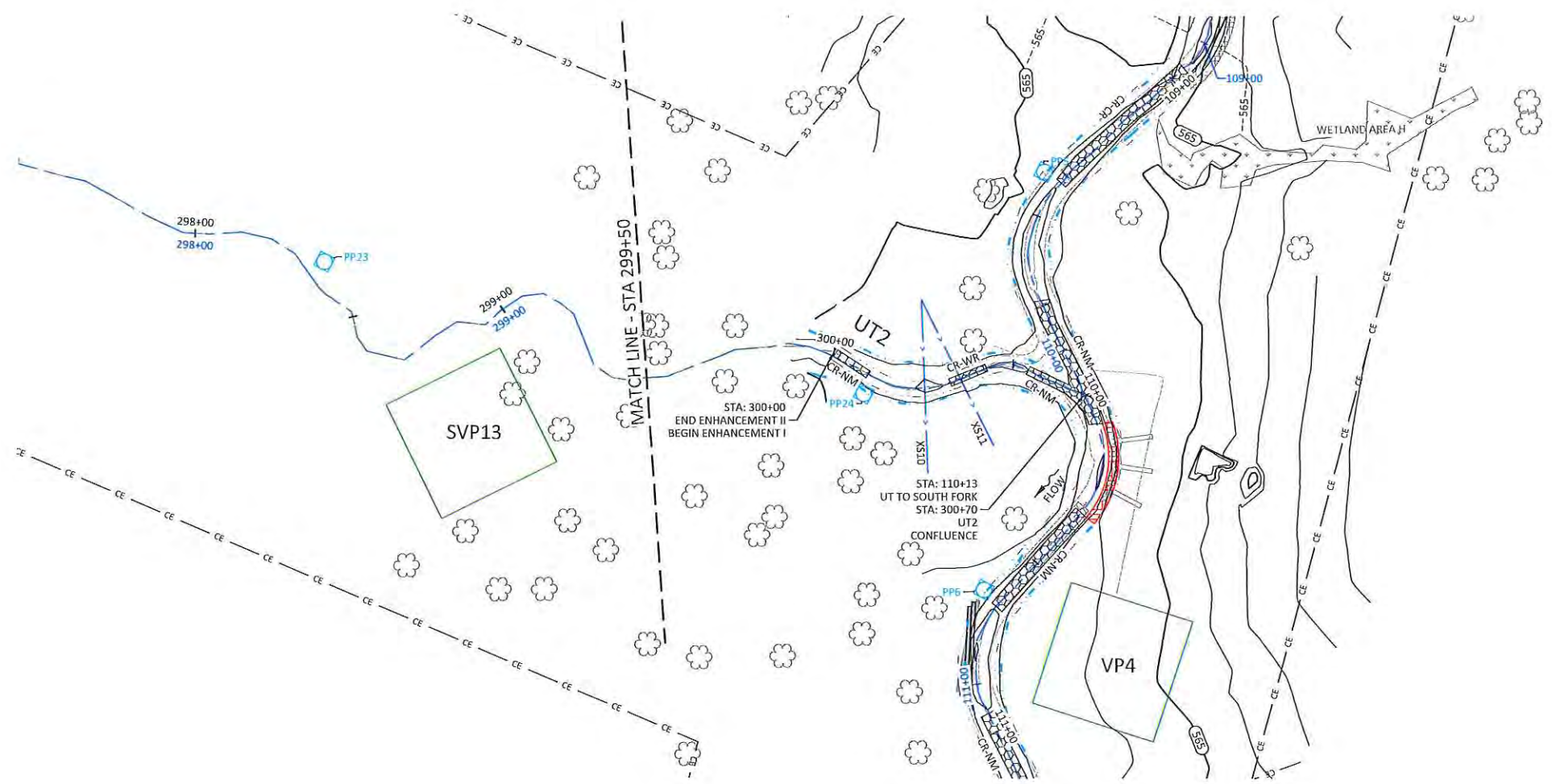
Sheet

WILDLANDS
ENGINEERING
312 W. GARDNER ST.
RALEIGH, NC 27609
Tel: 919.851.9986
Fax: 919.851.9986
Firm License No. F-0831





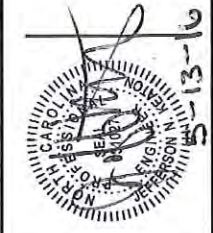
Note: As-built profile stations and match lines based on design alignment.



Maney Farm Mitigation Project Record Drawings
Chatham County, North Carolina

UT2
Stream Plan and Profile

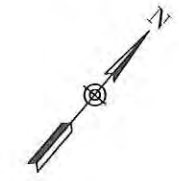
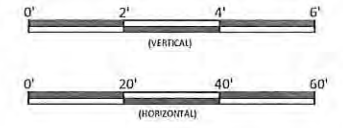
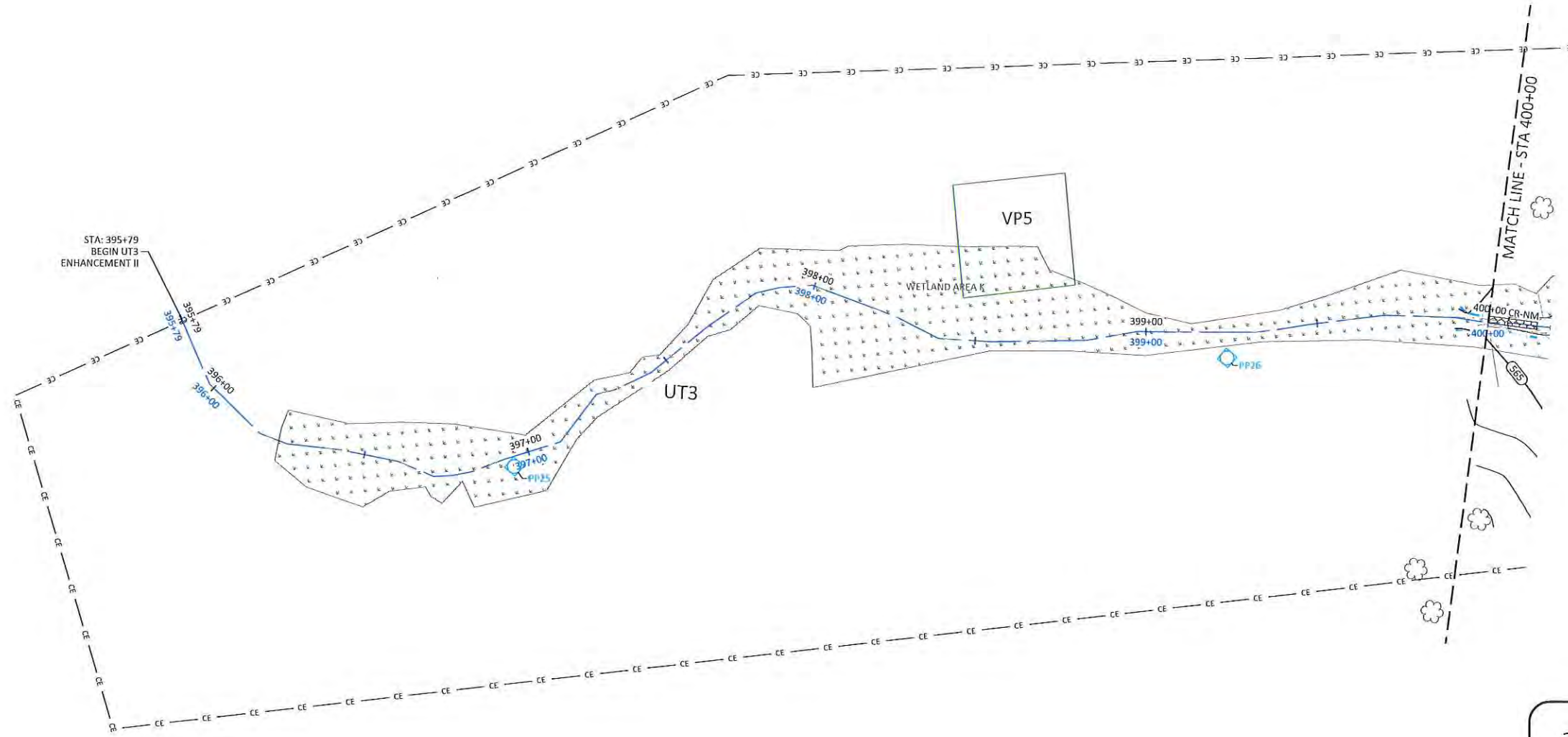
WILDLANDS
312 West Millbrook Road, Ste 225
Raleigh, NC 27609
Tel: 919.851.9986
Fax: 919.851.9886
Firm License No. F-0831



| | |
|-------------------|--------------|
| Date: | May 13, 2016 |
| Job Number: | 005-02144 |
| Project Engineer: | JK |
| Drawn By: | RCP |
| Checked By: | JK |

1.11

Sheet



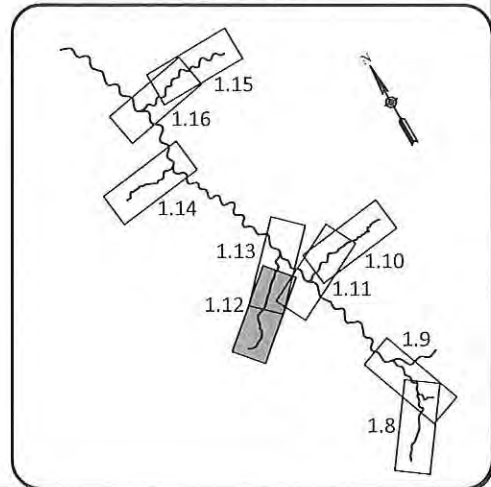
WILDLANDS
 ENGINEERING
 312 W. WILSON ST. #200
 RALEIGH, NC 27609
 Tel: 919.851.9986
 Fax: 919.851.9986
 Firm License No. F-0831



Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

UT3
 Stream Plan and Profile

Sheet Index



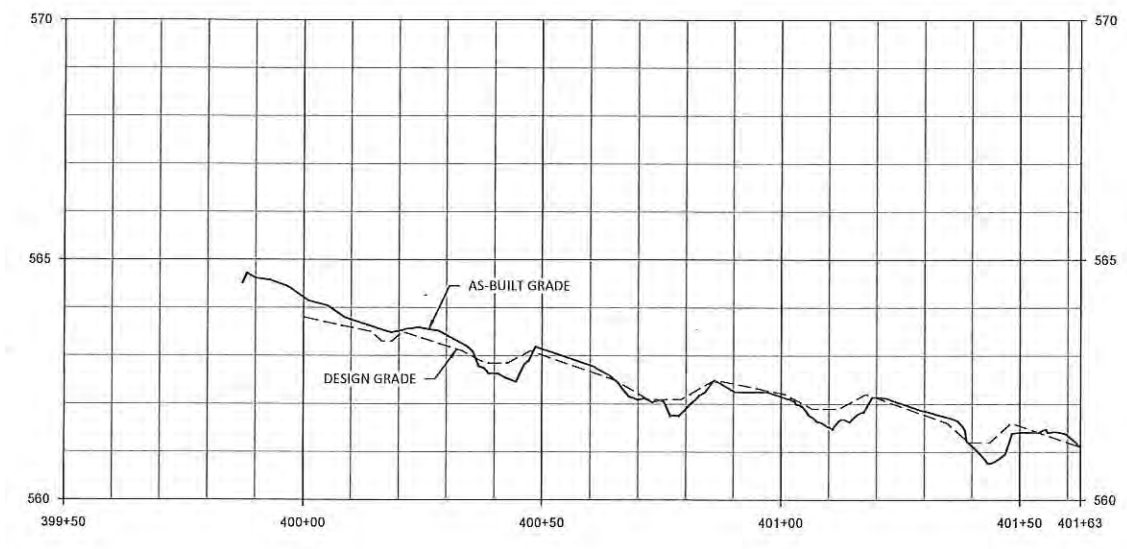
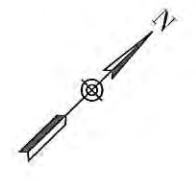
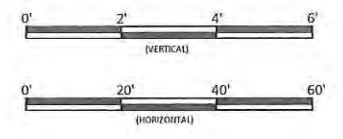
Note: Match lines based on design alignment.

| Revision | By | Date |
|----------|----|------|
| | | |
| | | |
| | | |
| | | |

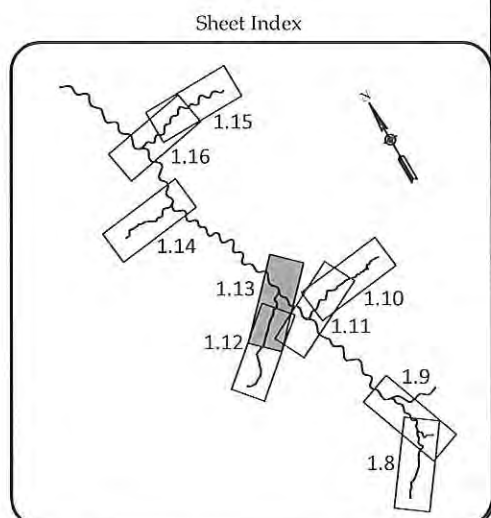
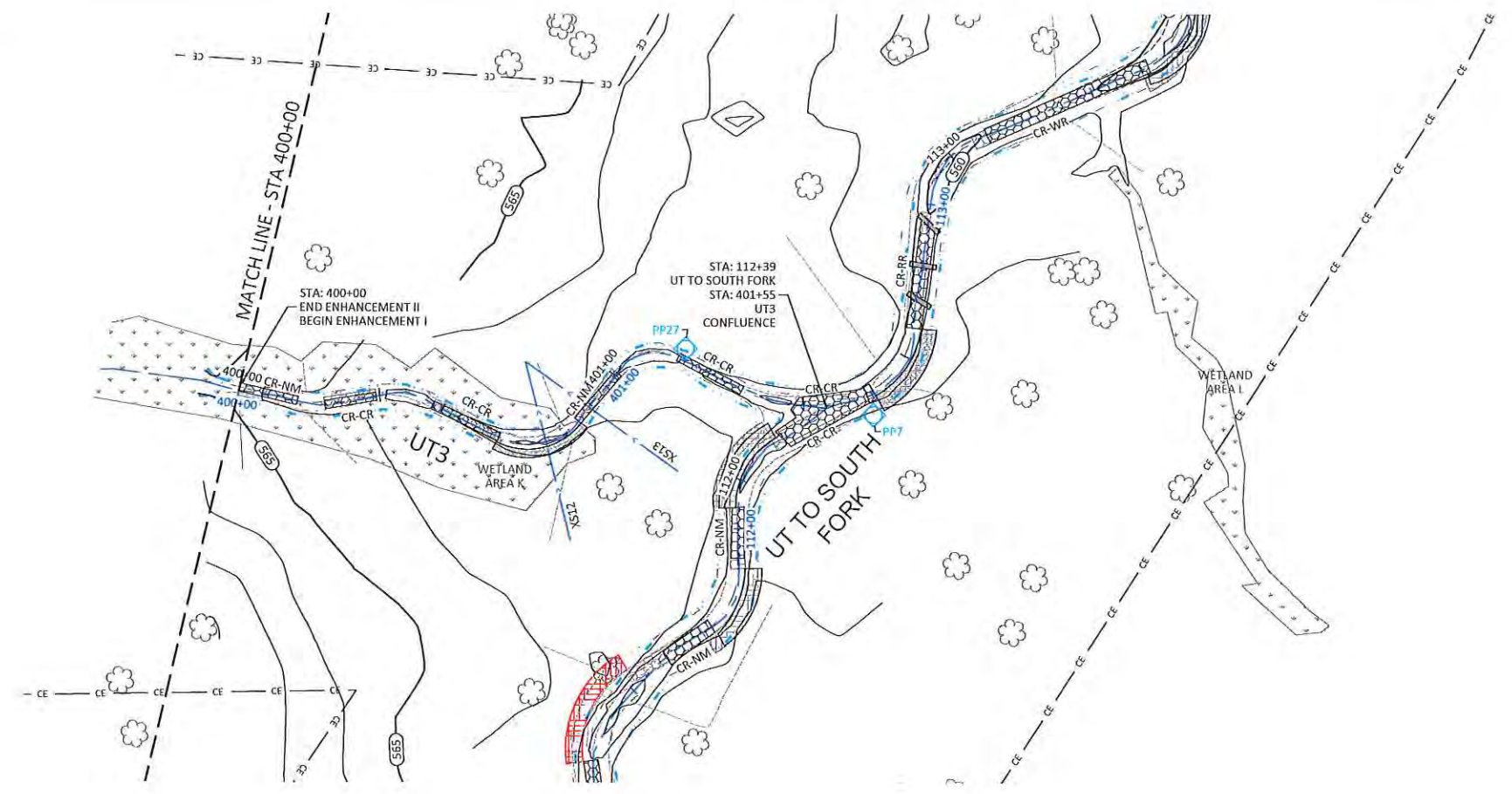
Date: May 13, 2016
 Job Number: 005-02144
 Project Engineer: JK
 Drawn By: RCP
 Checked By: JK

1.12

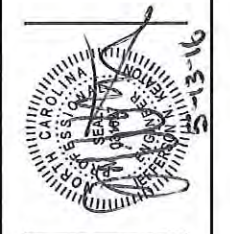
May 13, 2016
 \\ACTIVE\PROJECTS\AS\015-02144\Maney Farm\Drawings\Baseline\ManeyFarm\UT3\UT3-Profile.dwg



Note: As-built profile stations and match lines based on design alignment.



WILDLANDS
 312 West Millbrook Road, Ste 225
 Raleigh, NC 27609
 Tel: 919.851.9886
 Fax: 919.851.9886
 Firm License No. F-0831



Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

UT3
 Stream Plan and Profile

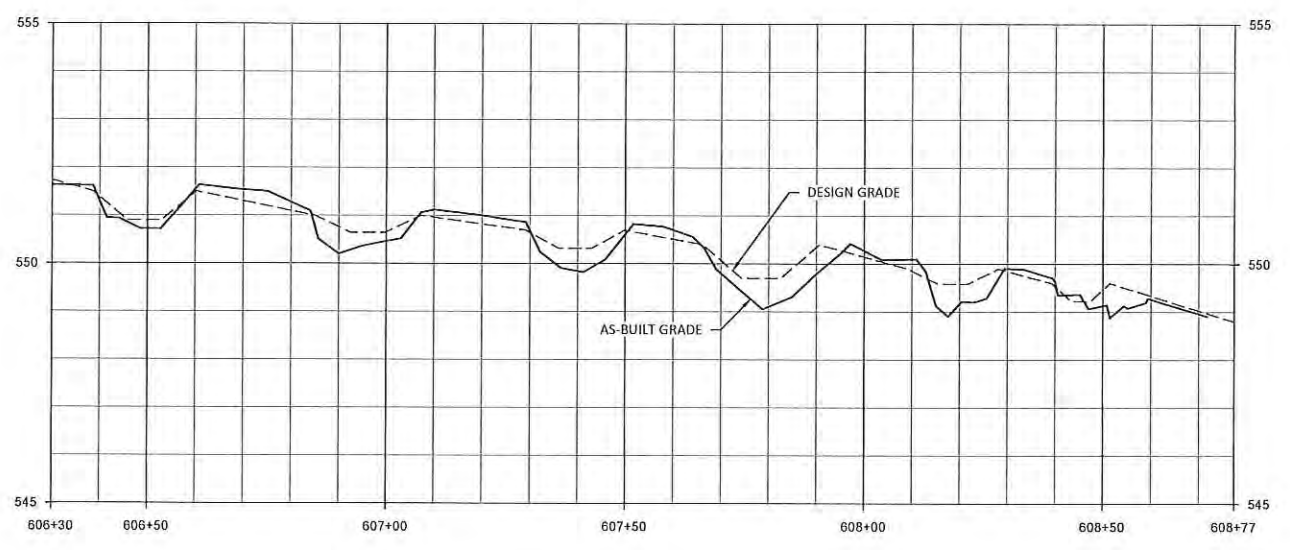
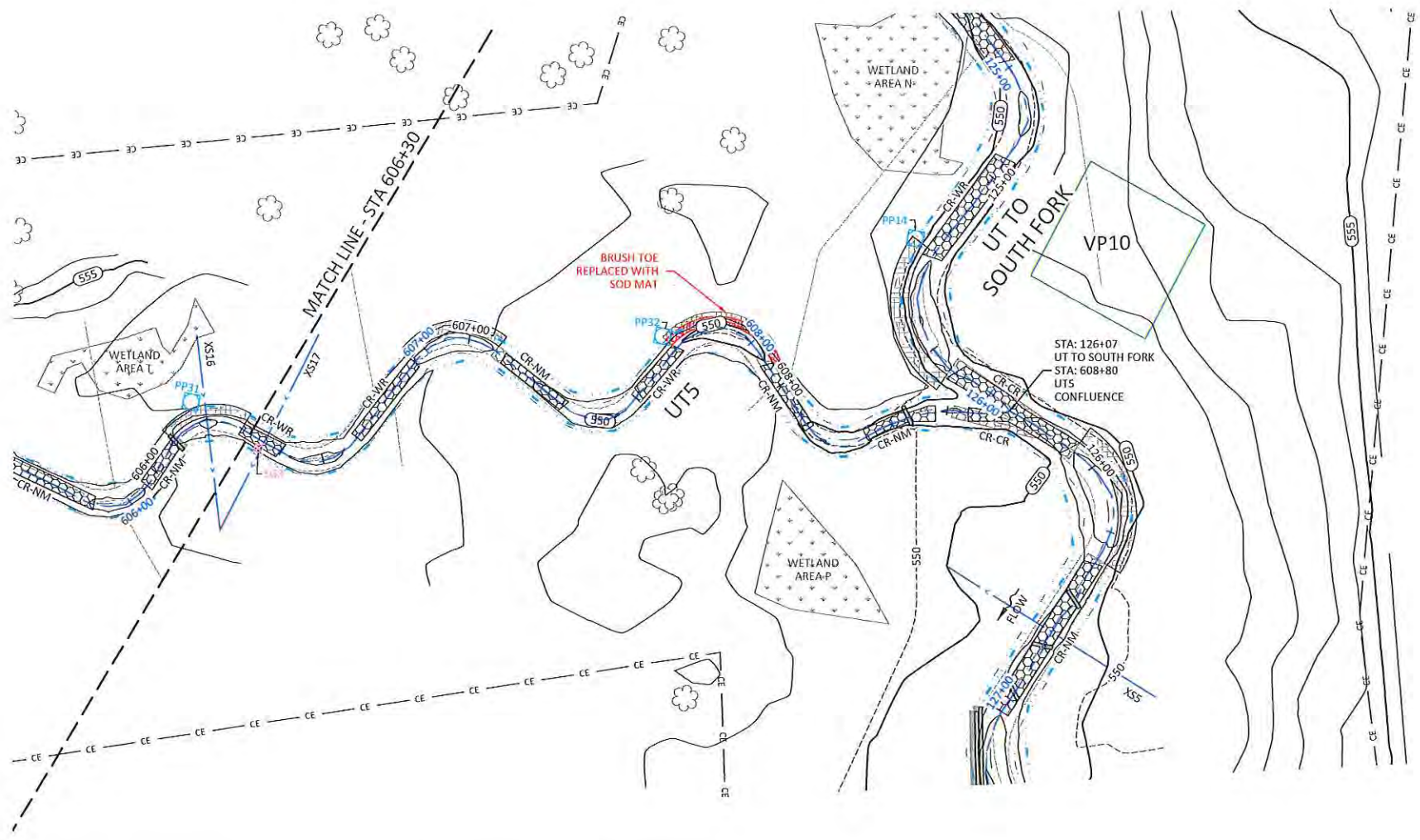
| Revisions | |
|-----------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | |
|-------------------|--------------|
| Date: | May 13, 2016 |
| Job Number: | 005-02144 |
| Project Engineer: | JK |
| Drawn By: | RCP |
| Checked By: | JK |

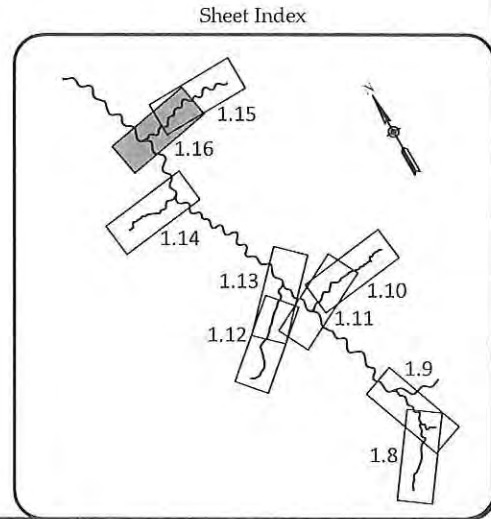
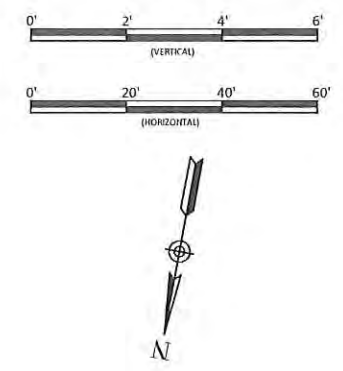
1.13

Sheet

May 13, 2016
 PROJECT: Maney Farm Mitigation Project Record Drawings
 DRAWING: Stream Plan and Profile
 SHEET: 1.16
 DATE: May 13, 2016



Note: As-built profile stations and match lines based on design alignment.



| | |
|-------------------|--------------|
| Date: | May 13, 2016 |
| Job Number: | 005-02144 |
| Project Engineer: | JK |
| Drawn By: | RCP |
| Checked By: | JK |

Revisions:

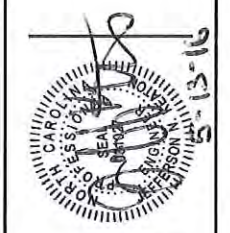
| | |
|--|--|
| | |
| | |
| | |
| | |

1.16

Sheet

Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

UT5
 Stream Plan and Profile



WILDLANDS
 ENGINEERING, Inc.
 312 WOODBURN ROAD, Ste 225
 FARMINGTON, CT 06030
 Tel: 919.851.9386
 Fax: 919.851.9385
 Firm License No. F-0831

| Streambank Planting Zone | | | | | | |
|--------------------------------|-----------------|-------------|----------------|----------------|---------|------------|
| Live Stakes | | | | | | |
| Species | Common Name | Max Spacing | Indiv. Spacing | Min. Size | Stratum | % of Stems |
| <i>Cornus amomum</i> | Silky Dogwood | 8 ft. | 2-8 ft. | 0.5"-1.5" cal. | Shrub | 35% |
| <i>Salix sericea</i> | Silky Willow | 8 ft. | 2-8 ft. | 0.5"-1.5" cal. | Shrub | 35% |
| <i>Salix nigra</i> | Black Willow | 8 ft. | 2-8 ft. | 0.5"-1.5" cal. | Shrub | 15% |
| <i>Physocarpus opulifolius</i> | Ninebark | 8 ft. | 2-8 ft. | 0.5"-1.5" cal. | Shrub | 15% |
| Herbaceous Plugs | | | | | | |
| * <i>Juncus effusus</i> | Common Rush | 5 ft. | 3-5 ft. | 1.0"-2.0" plug | Herb | 40% |
| <i>Carex alata</i> | Broadwing Sedge | 5 ft. | 3-5 ft. | 1.0"-2.0" plug | Herb | 40% |
| <i>Panicum virgotum</i> | Switchgrass | 5 ft. | 3-5 ft. | 1.0"-2.0" plug | Herb | 20% |

**Juncus effusus* only to be used in channels within 100' of confluence with UT to South Fork Cane Creek.

| Buffer Planting Zone | | | | | | |
|-----------------------------------|----------------------|-------------|----------------|-------------------|-----------|------------|
| Bare Root | | | | | | |
| Species | Common Name | Max Spacing | Indiv. Spacing | Min. Caliper Size | Stratum | % of Stems |
| <i>Fraxinus pennsylvanica</i> | Green Ash | 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 | 20% |
| <i>Betula nigra</i> | River Birch | 12 ft. | 6-12 ft. | 0.25"-1.0" | Canopy | 15% |
| <i>Quercus phellos</i> | Willow Oak | 12 ft. | 6-12 ft. | 0.25"-1.0" | Canopy | 10% |
| <i>Liriodendron tulipifera</i> | Tulip Poplar | 12 ft. | 6-12 ft. | 0.25"-1.0" | Canopy | 10% |
| <i>Alnus serrulata</i> | Tag Alder | 12 ft. | 6-12 ft. | 0.25"-1.0" | Canopy | 8% |
| <i>Quercus palustris</i> | Pin Oak | 12 ft. | 6-12 ft. | 0.25"-1.0" | Canopy | 5% |
| <i>Carpinus caroliniana</i> | American Hornbeam | 12 ft. | 6-12 ft. | 0.25"-1.0" | Mid-Story | 4% |
| <i>Viburnum prunifolium</i> | Blackhaw Viburnum | 12 ft. | 6-12 ft. | 0.25"-1.0" | Shrub | 2% |
| <i>Calycanthus floridus</i> | Sweetshrub | 12 ft. | 6-12 ft. | 0.25"-1.0" | Shrub | 2% |
| <i>Callicarpa americana</i> | American Beautyberry | 12 ft. | 6-12 ft. | 0.25"-1.0" | Shrub | 2% |
| <i>Symphoricarpos orbiculatus</i> | Coralberry | 12 ft. | 6-12 ft. | 0.25"-1.0" | Shrub | 2% |

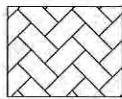
| Supplemental Mid-Story / Shrub Planting Zone | | | | | | |
|--|----------------------|-------------|----------------|-------------------|-----------|------------|
| Bare Root | | | | | | |
| Species | Common Name | Max Spacing | Indiv. Spacing | Min. Caliper Size | Stratum | % of Stems |
| <i>Carpinus caroliniana</i> | American Hornbeam | 24 ft. | 12-24 ft. | 0.25"-1.0" | Mid-Story | 40% |
| <i>Callicarpa americana</i> | American Beautyberry | 24 ft. | 12-24 ft. | 0.25"-1.0" | Shrub | 15% |
| <i>Calycanthus floridus</i> | Sweetshrub | 24 ft. | 12-24 ft. | 0.25"-1.0" | Shrub | 15% |
| <i>Viburnum prunifolium</i> | Blackhaw Viburnum | 24 ft. | 12-24 ft. | 0.25"-1.0" | Shrub | 10% |
| <i>Symphoricarpos orbiculatus</i> | Coralberry | 24 ft. | 12-24 ft. | 0.25"-1.0" | Shrub | 10% |
| <i>Aesculus pavia</i> | Red Buckeye | 25 ft. | 12-24 ft. | 0.25"-1.0" | Mid-Story | 10% |



ZONE 1 - STREAM BANK PLANTING ZONE



ZONE 2 - BUFFER PLANTING ZONE



ZONE 3 - SUPPLEMENTAL MID-STORY/SHRUB PLANTING ZONE

| 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 | 4.0 |
| All Year | <i>Chasmanthium latifolium</i> | River Oats | Herb | 2.0 |
| All Year | <i>Rudbeckia hirta</i> | Blackeyed Susan | Herb | 1.0 |
| All Year | <i>Coreopsis lanceolata</i> | Lanceleaf Coreopsis | Herb | 1.0 |
| All Year | <i>Carex vulpinoidea</i> | Fox Sedge | Herb | 3.0 |
| All Year | <i>Panicum clandestinum</i> | Deertongue | Herb | 3.5 |
| All Year | <i>Elymus virginicus</i> | Virginia Wild Rye | Herb | 2.0 |
| All Year | <i>Asclepias syriaca</i> | Common Milkweed | Herb | 0.2 |
| All Year | <i>Baptisia australis</i> | Blue False Indigo | Herb | 0.2 |
| All Year | <i>Gaillardia pulchella</i> | Annual Gaillardia | Herb | 1.0 |
| All Year | <i>Echinacea purpurea</i> | Pale Purple Coneflower | Herb | 0.6 |

| Permanent Seeding Outside Easement | | | | |
|------------------------------------|----------------------------|-------------|---------|--------------------|
| Approved Date | Species Name | Common Name | Stratum | Density (lbs/acre) |
| All Year | <i>Festuca arundinacea</i> | Tall Fescue | Herb | 40 |

| 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 |



Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

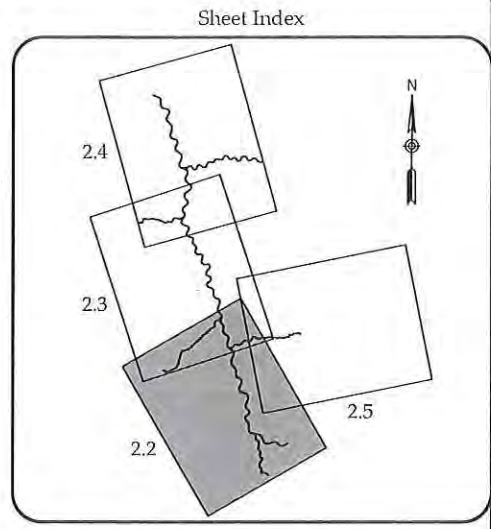
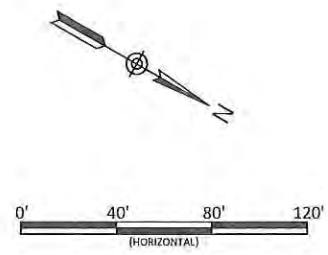
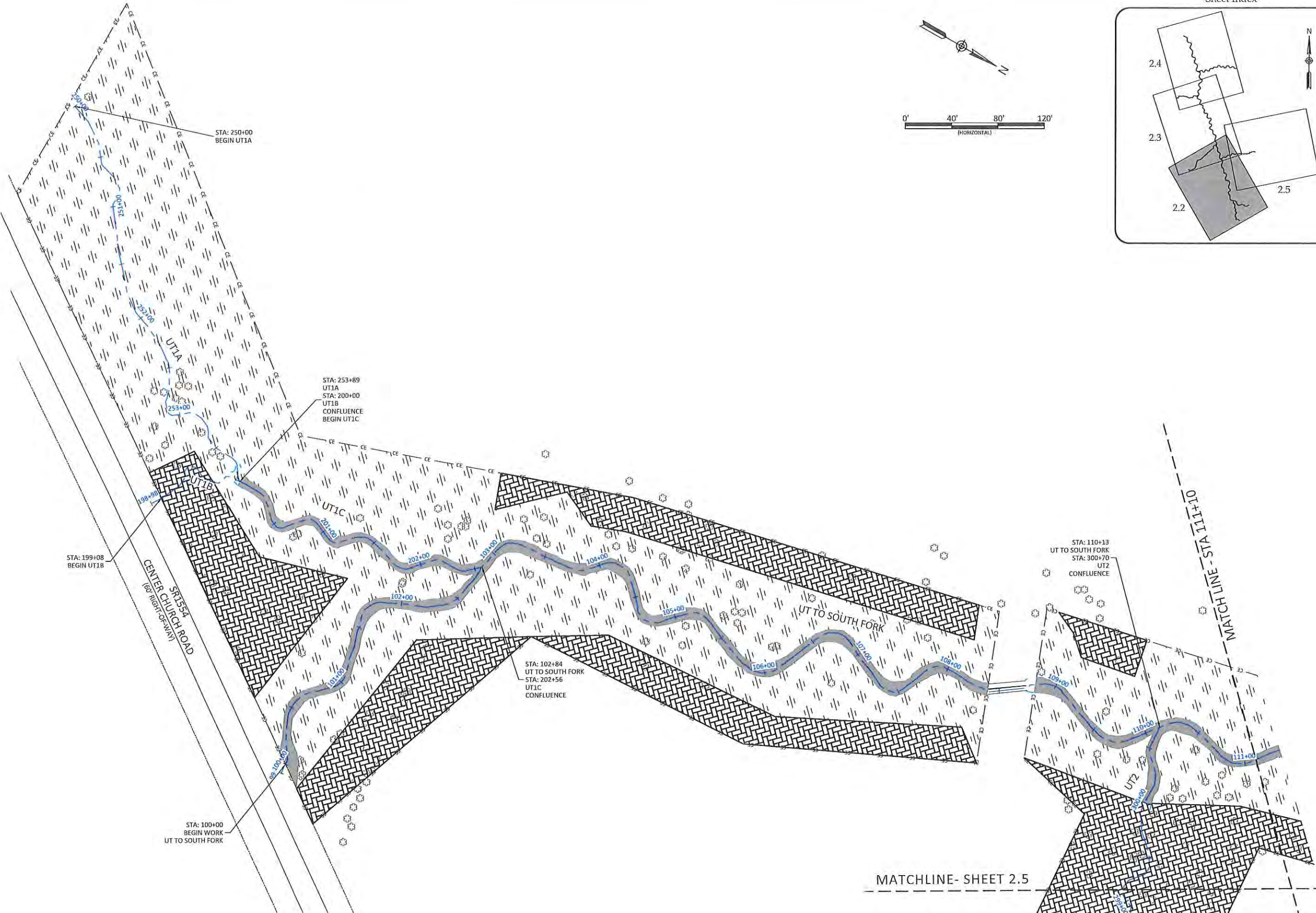
Planting List
 Planting Plan

| | |
|------------|--|
| Revisions: | |
| | |
| | |
| | |
| | |

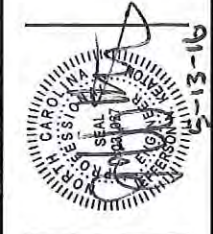
Date: May 13, 2016
 Job Number: 005-02144
 Project Engineer: JK
 Drawn By: RCP
 Checked By: JK

May 13, 2016

T:\ACTIVE PROJECTS\05-0214\Maney Farm Mitigation\Drawings\UT14-16\UT14-16-16.dwg



WILDLANDS
 Environmental Engineering
 312 West Mills Road, Ste 225
 Raleigh, NC 27609
 Tel: 919.851.9886
 Fax: 919.851.9886
 Firm License No. F-0821



Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

UT to South Fork & UT1
 Planting Plan

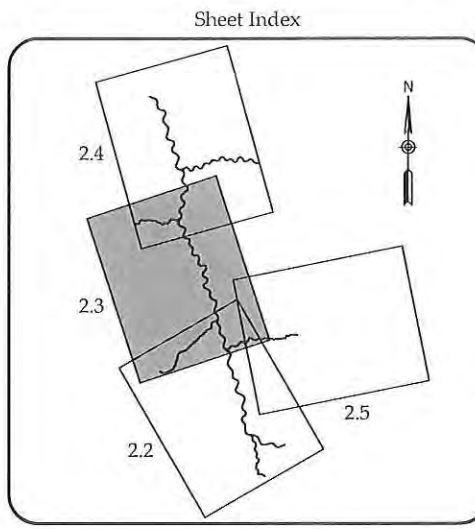
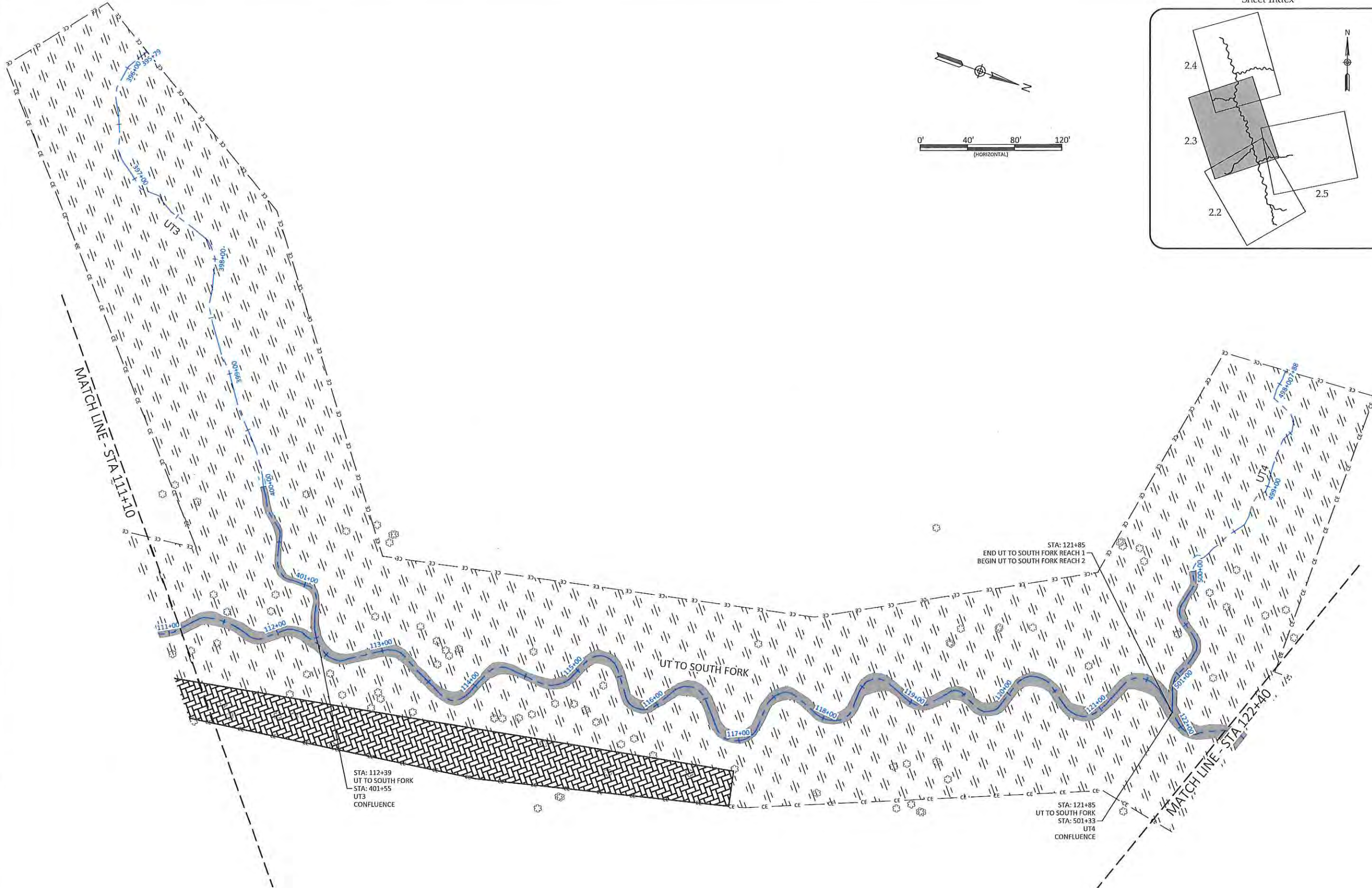
| | |
|------------|--|
| Revisions: | |
| | |
| | |
| | |
| | |

| | |
|-------------------|--------------|
| Date: | May 13, 2016 |
| Job Number: | 05-0214 |
| Project Engineer: | JK |
| Drawn By: | RCJP |
| Checked By: | JK |

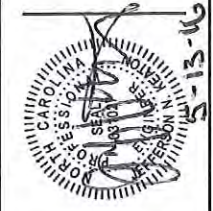
2.2

Sheet

TRAFFIC PROJECTS (INC) MISC 07141 Maney Farm Mitigation Plans V07141A4 Planting.dwg



WILDLANDS
 ENGINEERING
 312 West Milbrook Road, Ste 225
 Raleigh, NC 27609
 Tel: 919.851.9986
 Fax: 919.851.9986
 Firm License No. F-0891



Maney Farm Mitigation Project Record Drawings
 Chatham County, North Carolina

UT to South Fork, UT3, & UT4
 Planting Plan

| Revision | Date | By |
|----------|------|----|
| | | |
| | | |
| | | |
| | | |
| | | |

Date: May 13, 2016
 Job Number: 005-02144
 Project Engineer: JK
 Drawn By: RCP
 Checked By: JK

2.3

Sheet

