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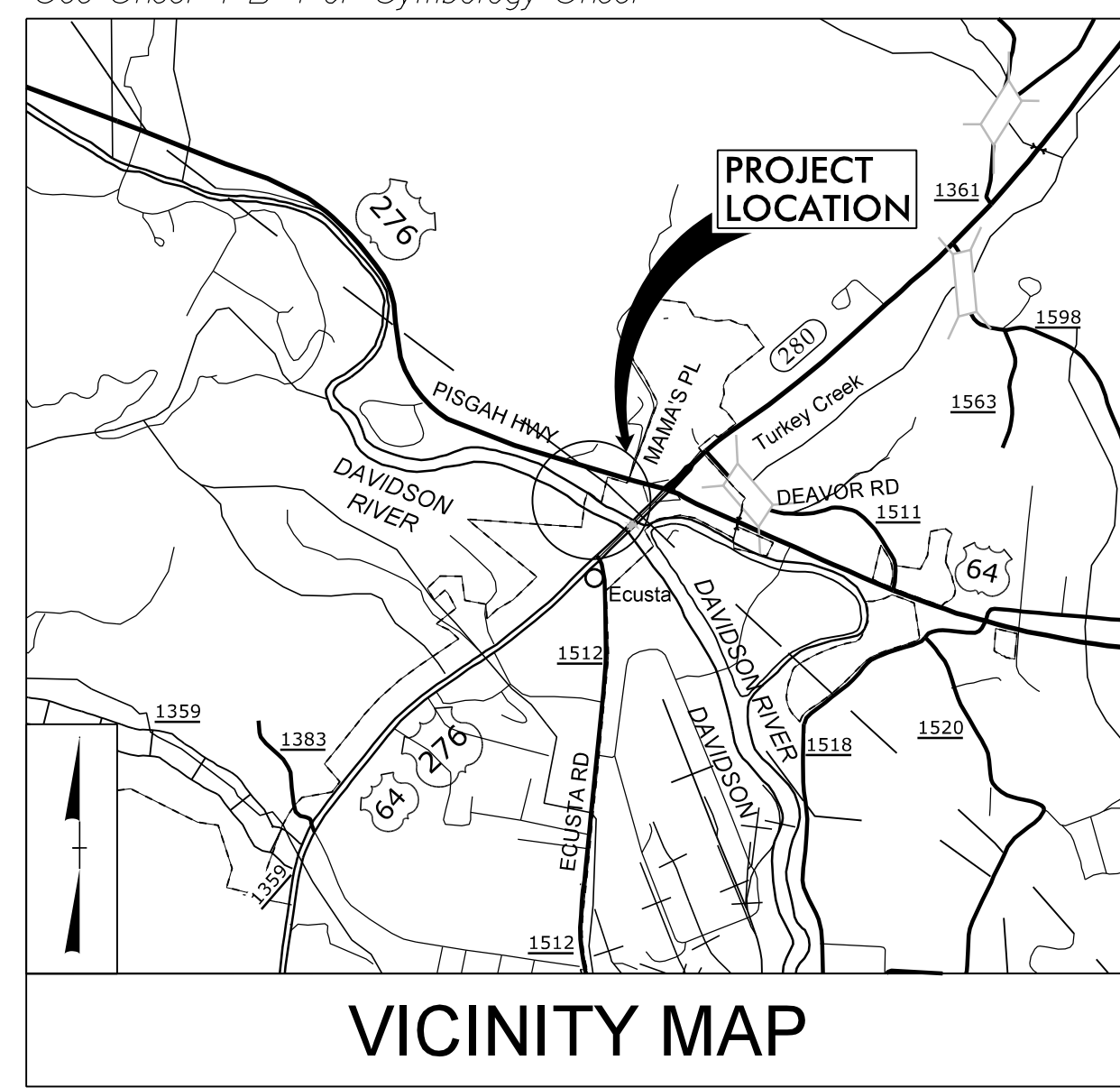
**This file or an individual page
shall not be considered a certified document.**

09/08/99

2/27/2023
 I:\NLSG2005263.014 EB5858 Brevard Pedestrian Bridge\Engineering\References\Roadway\Proj\EB5858_rdy_1.sh.dgn
 Kharwa

CONTRACT: DN00776 **TIP PROJECT: EB-5858**

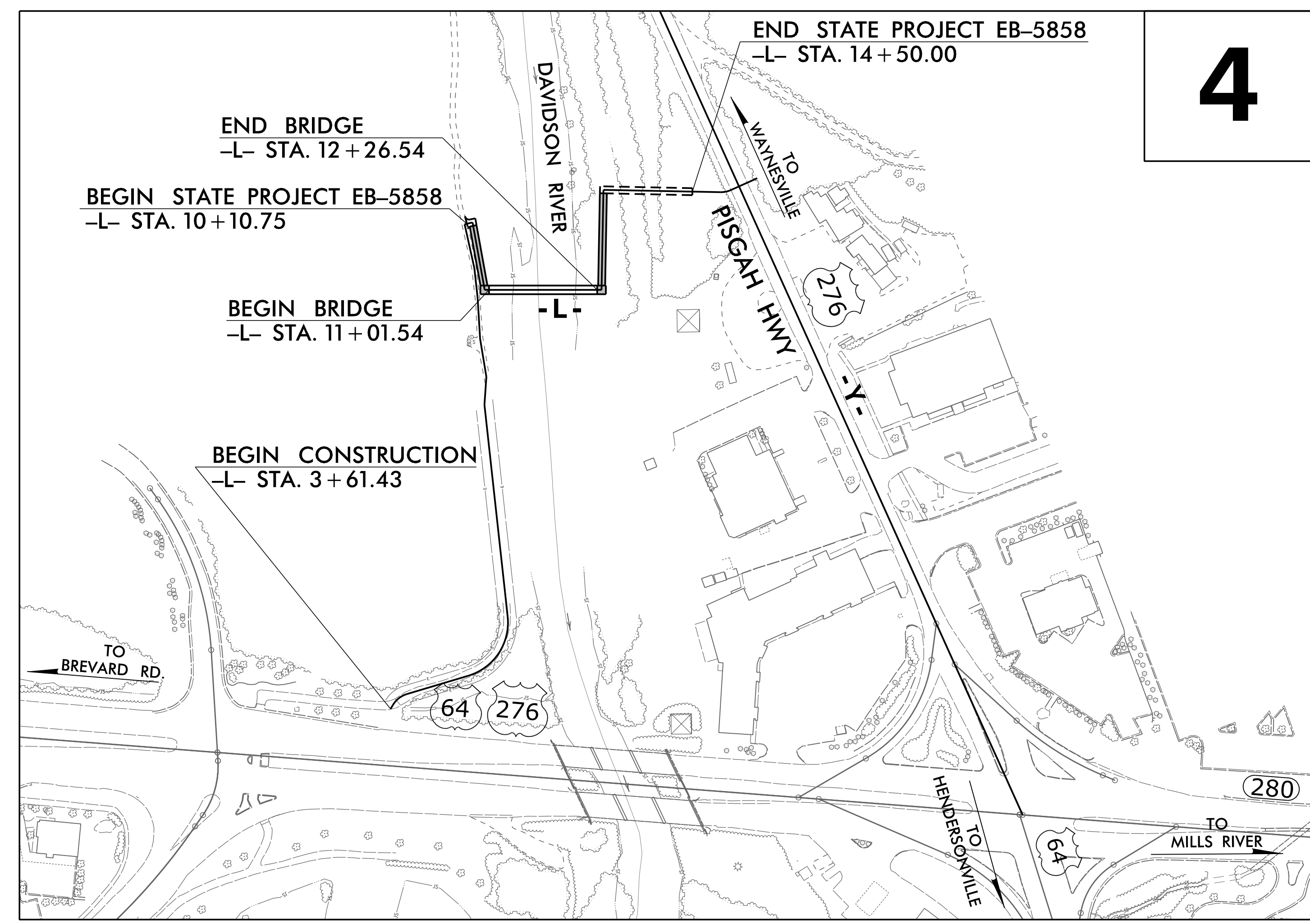
See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Symbology Sheet



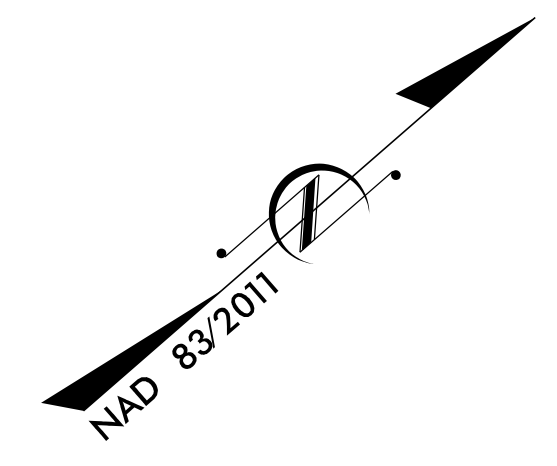
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
TRANSYLVANIA COUNTY

LOCATION: CONSTRUCT BIKE/PEDESTRIAN BRIDGE FROM CITY OF BREVARD EXISTING SHARED USE PATH ACROSS DAVIDSON RIVER

TYPE OF WORK: GRADING AND STRUCTURE

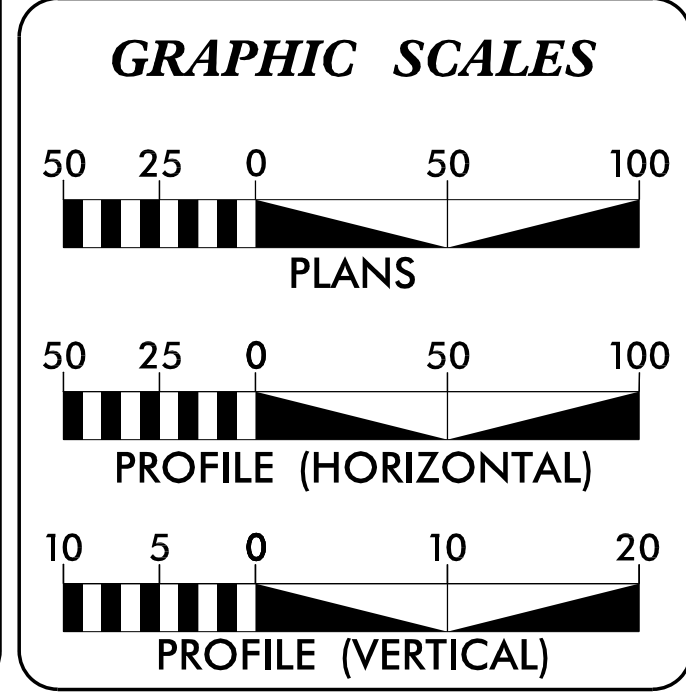


4



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-5858	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
47314.1.1	1402-002	P.E.	
47314.2.1	1402-002	R/W	
47314.3.1	1402-002	CONSTRUCTION	

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

PROJECT LENGTH

LENGTH OF TRAIL PROJECT EB-5858	=	0.059 MILES
LENGTH OF PEDESTRIAN BRIDGE EB-5858	=	0.024 MILES
TOTAL LENGTH PROJECT EB-5858	=	0.083 MILES

PREPARED IN THE OFFICE OF:

WSP USA
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 TEL: 1.919.836.4040
 FAX: 1.919.836.4099
 LICENSE NO. E-0165

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
TBD

LETTING DATE:
APRIL 25, 2023

NCDOT CONTACT: **BARRY D. MOSTELLER**
 DIVISION 14 DESIGN CONSTRUCTION ENGINEER

RONYELL THIGPEN, PE
 PROJECT ENGINEER

ERIC MISAK
 PROJECT DESIGN ENGINEER

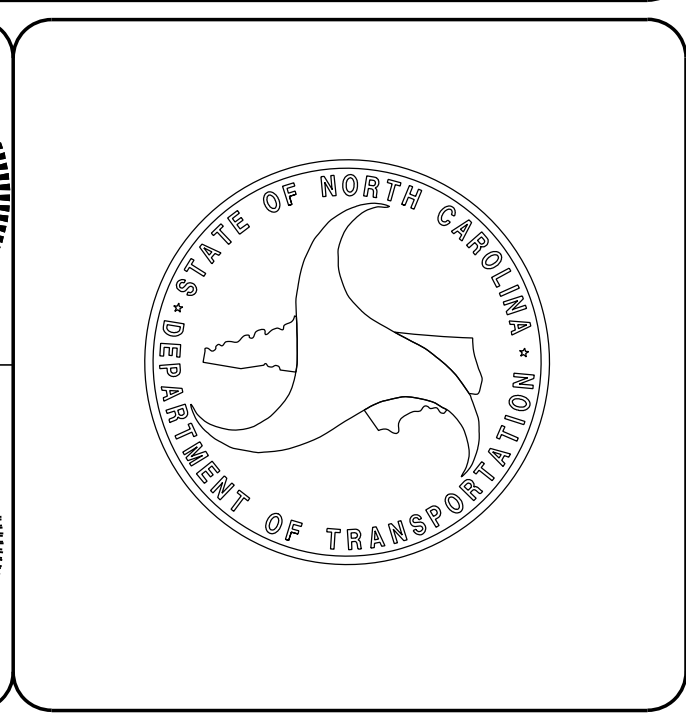
HYDRAULICS ENGINEER

Seal: CHARLES W. HEATHER, P.E., SEAL 032312

Seal: RONYELL A. THIGPEN, P.E., SEAL 33290

ROADWAY DESIGN ENGINEER

Digitally signed by Charles Heather, 2/27/2023
 Digitally signed by Ronyell Thigpen, 2/27/2023



8/17/99

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, STANDARD DRAWINGS AND GENERAL NOTES
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE, TYPICAL SECTIONS
4	PLAN SHEET
5	PROFILE SHEET
RW01 THRU RW04	SURVEY CONTROL AND RIGHT OF WAY SHEETS
TMP-01 THRU TMP-04	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
RF-1	REFORESTATION PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-2	CROSS-SECTIONS
S-1 THRU S-13	STRUCTURE PLANS
SN	STANDARD NOTE SHEET

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local

GENERAL NOTES: 2018 SPECIFICATIONS EFFECTIVE: 01-16-2018 REVISID:

GRADING AND SURFACING OR RESURFACING AND WIDENING: THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SAFETY CLEARING: THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE AREAS IN THE PLANS DESIGNATED SAFETY CLEARING. THE LIMITS ARE AS SHOWN AND THE CLEARING AND GRUBBING IS CONSIDERED A PART OF THE LUMP SUM ITEM FOR "CLEARING AND GRUBBING".

END BENTS: THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES: UTILITY OWNERS ON THIS PROJECT ARE POWER TRANSMISSION AND DISTRIBUTION - DUKE ENERGY TELECOMMUNICATIONS - COMPORIUM ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS: ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

10:48 PM 8/17/99

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	◻ EDM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	◻
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB
Known Contamination Area: Soil	☠-S-☠
Potential Contamination Area: Soil	??-S-??
Known Contamination Area: Water	☠-W-☠
Potential Contamination Area: Water	??-W-??
Contaminated Site: Known or Potential	☠??

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○ W
Small Mine	✕
Foundation	◻
Area Outline	◻
Cemetery	⊕
Building	◻
School	◻
Church	⊕
Dam	-----

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	◻ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊕
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	----- R/W
New Right of Way Line with Pin and Cap	----- R/W ▲
New Right of Way Line with Concrete or Granite RW Marker	----- R/W
New Control of Access Line with Concrete CA Marker	----- C/A
Existing Control of Access	----- C/A
New Control of Access	----- C/A
Existing Easement Line	----- E
New Temporary Construction Easement	----- E
New Temporary Drainage Easement	----- TDE
New Permanent Drainage Easement	----- PDE
New Permanent Drainage / Utility Easement	----- DUE
New Permanent Utility Easement	----- PUE
New Temporary Utility Easement	----- TUE
New Aerial Utility Easement	----- AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	----- Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW
MINOR:	
Head and End Wall	----- CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	----- CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	----- S
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	-----
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	----- W
U/G Water Line LOS C (S.U.E.*)	----- W
U/G Water Line LOS D (S.U.E.*)	----- W
Above Ground Water Line	----- A/G Water

TV:

TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	⊕
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	----- 7UTL
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	----- UST
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

6/2/23

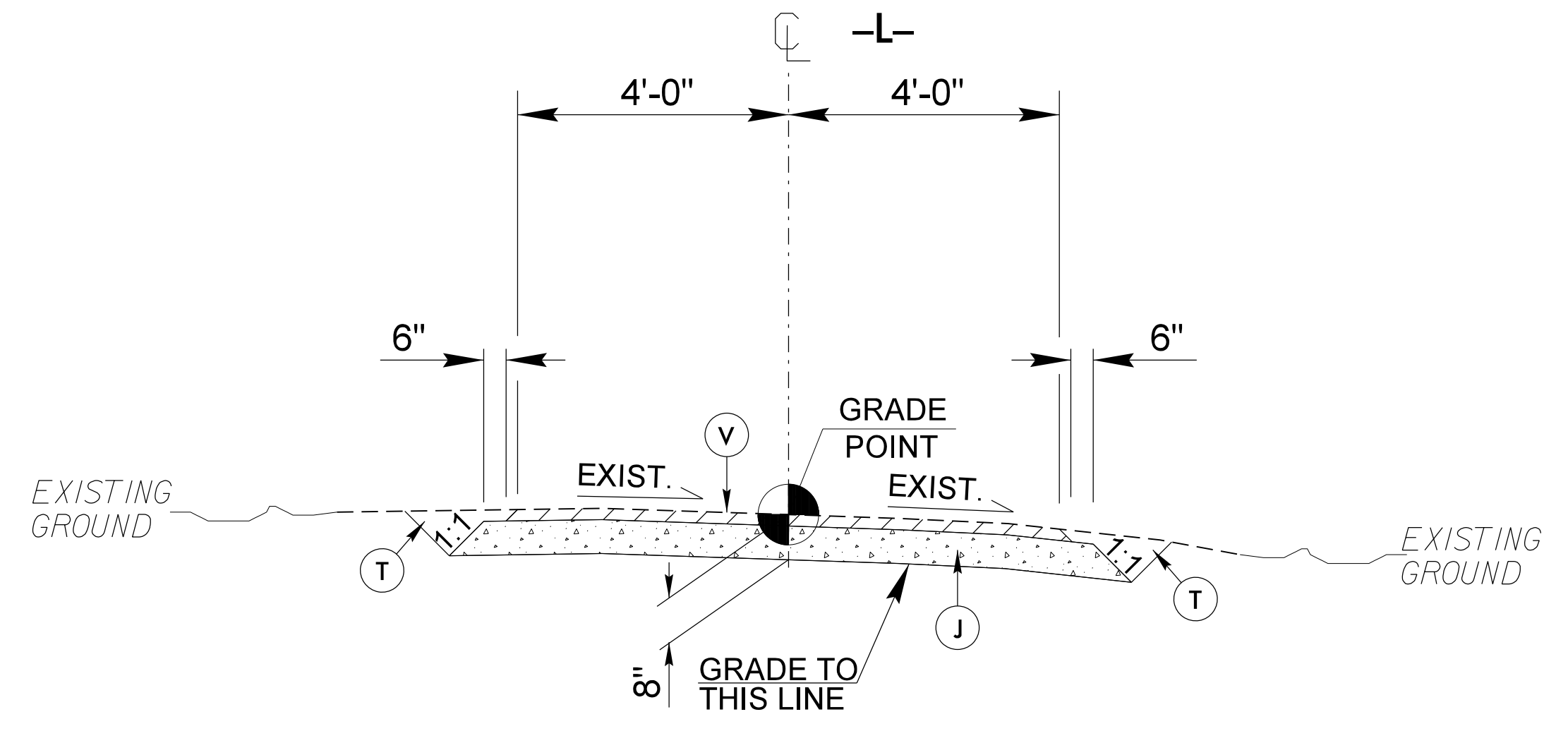
PAVEMENT SCHEDULE	
J	PROP. 6" AGGREGATE BASE COURSE.
T	EARTH MATERIAL
V	2" GRANITE SCREENING

PLANS PREPARED BY:

wsp WSP USA
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 TEL: 1.919.836.4040
 FAX: 1.919.836.4099
 LICENSE NO. F-0165

PROJECT REFERENCE NO. <i>EB-5858</i>	SHEET NO. <i>2A-1</i>
ROADWAY DESIGN ENGINEER 2/27/2023 NORTH CAROLINA PROFESSIONAL SEAL 33290 ROYSE L. A. THOMPSON DocuSign	

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UNLESS ALL SIGNATURES COMPLETED**



TYPICAL SECTION 1 (TRAIL)
 -L- STA. 13+47.17 TO STA. 14+50.00

2/27/2023
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 Kharwa

PROJECT REFERENCE NO. EB-5858	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 3/7/2023	HYDRAULICS ENGINEER 3/7/2023
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



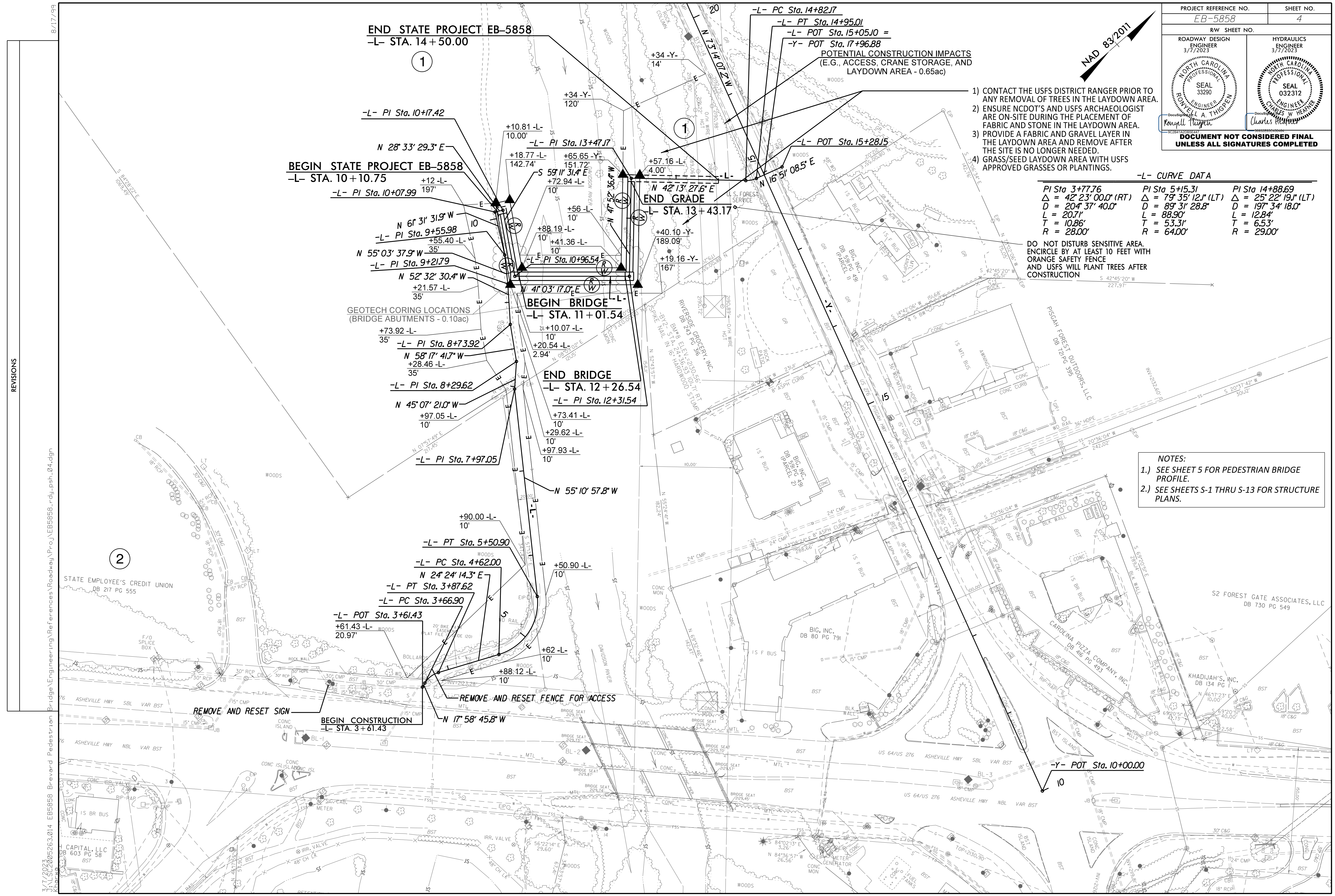
- CONTACT THE USFS DISTRICT RANGER PRIOR TO ANY REMOVAL OF TREES IN THE LAYDOWN AREA.
- ENSURE NCDOT'S AND USFS ARCHAEOLOGIST ARE ON-SITE DURING THE PLACEMENT OF FABRIC AND STONE IN THE LAYDOWN AREA.
- PROVIDE A FABRIC AND GRAVEL LAYER IN THE LAYDOWN AREA AND REMOVE AFTER THE SITE IS NO LONGER NEEDED.
- GRASS/SEED LAYDOWN AREA WITH USFS APPROVED GRASSES OR PLANTINGS.

-L- CURVE DATA

PI Sta	Delta	D	L	T	R
PI Sta 3+77.76	$\Delta = 42^\circ 23' 00.0''$ (RT)	$D = 204' 37'' 40.0''$	$L = 20.71'$	$T = 10.86'$	$R = 28.00'$
PI Sta 5+15.31	$\Delta = 79^\circ 35' 12.1''$ (LT)	$D = 89' 31'' 28.8''$	$L = 88.90'$	$T = 53.31'$	$R = 64.00'$
PI Sta 14+88.69	$\Delta = 25^\circ 22' 19.1''$ (LT)	$D = 197' 34'' 18.0''$	$L = 12.84'$	$T = 6.53'$	$R = 29.00'$

DO NOT DISTURB SENSITIVE AREA. ENCIRCLE BY AT LEAST 10 FEET WITH ORANGE SAFETY FENCE AND USFS WILL PLANT TREES AFTER CONSTRUCTION

- NOTES:**
- SEE SHEET 5 FOR PEDESTRIAN BRIDGE PROFILE.
 - SEE SHEETS S-1 THRU S-13 FOR STRUCTURE PLANS.



REVISIONS

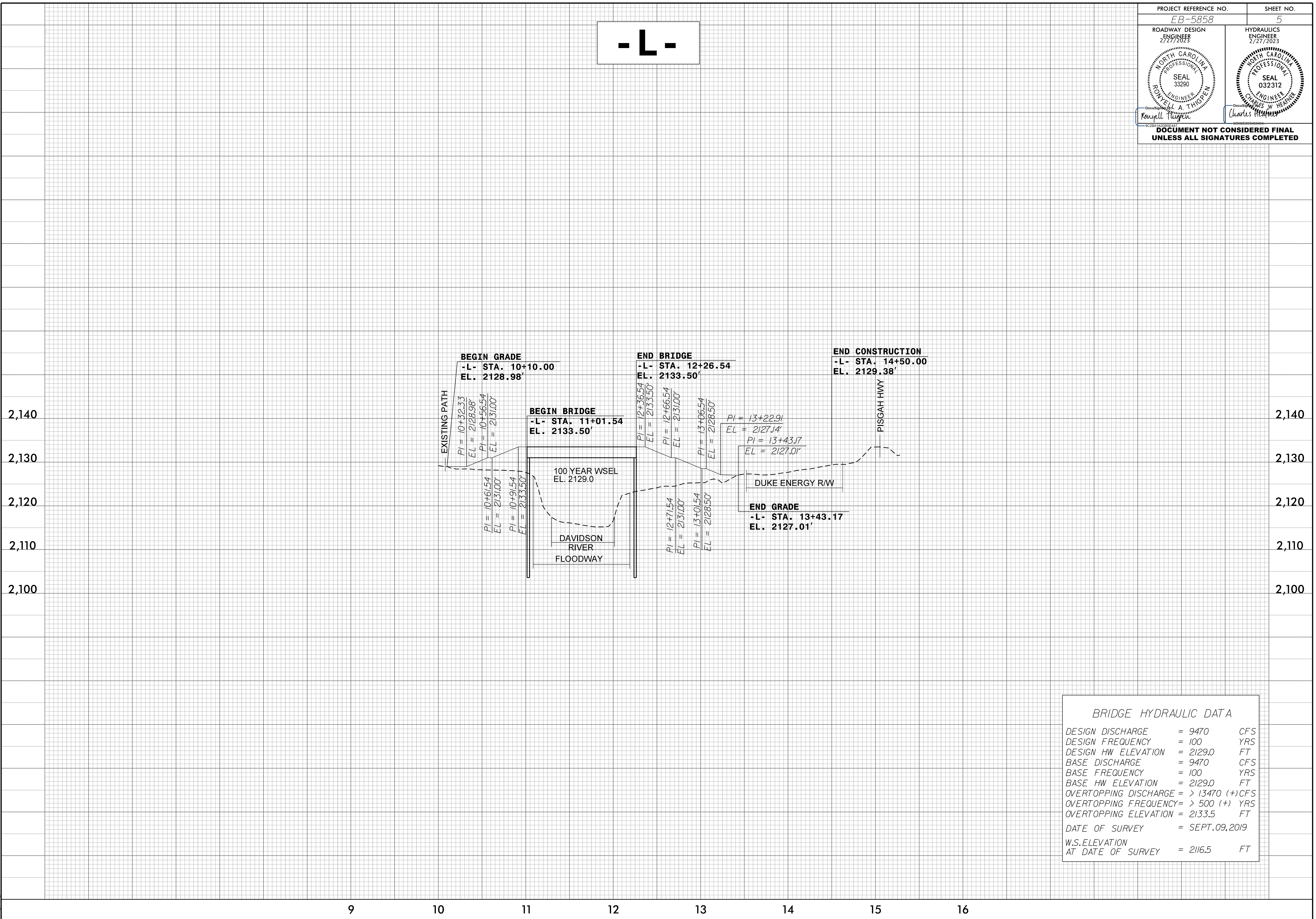
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5/14/99

PROJECT REFERENCE NO. <i>EB-5858</i>	SHEET NO. <i>5</i>
ROADWAY DESIGN ENGINEER <i>2/27/2023</i>	HYDRAULICS ENGINEER <i>2/27/2023</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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2/27/2023
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Khan



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 9470	CFS
DESIGN FREQUENCY	= 100	YRS
DESIGN HW ELEVATION	= 2129.0	FT
BASE DISCHARGE	= 9470	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 2129.0	FT
OVERTOPPING DISCHARGE	= > 13470 (+)	CFS
OVERTOPPING FREQUENCY	= > 500 (+)	YRS
OVERTOPPING ELEVATION	= 2133.5	FT
DATE OF SURVEY	= SEPT.09,2019	
W.S.ELEVATION AT DATE OF SURVEY	= 2116.5	FT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-5858	RW01	05

TIP PROJECT: EB-5858

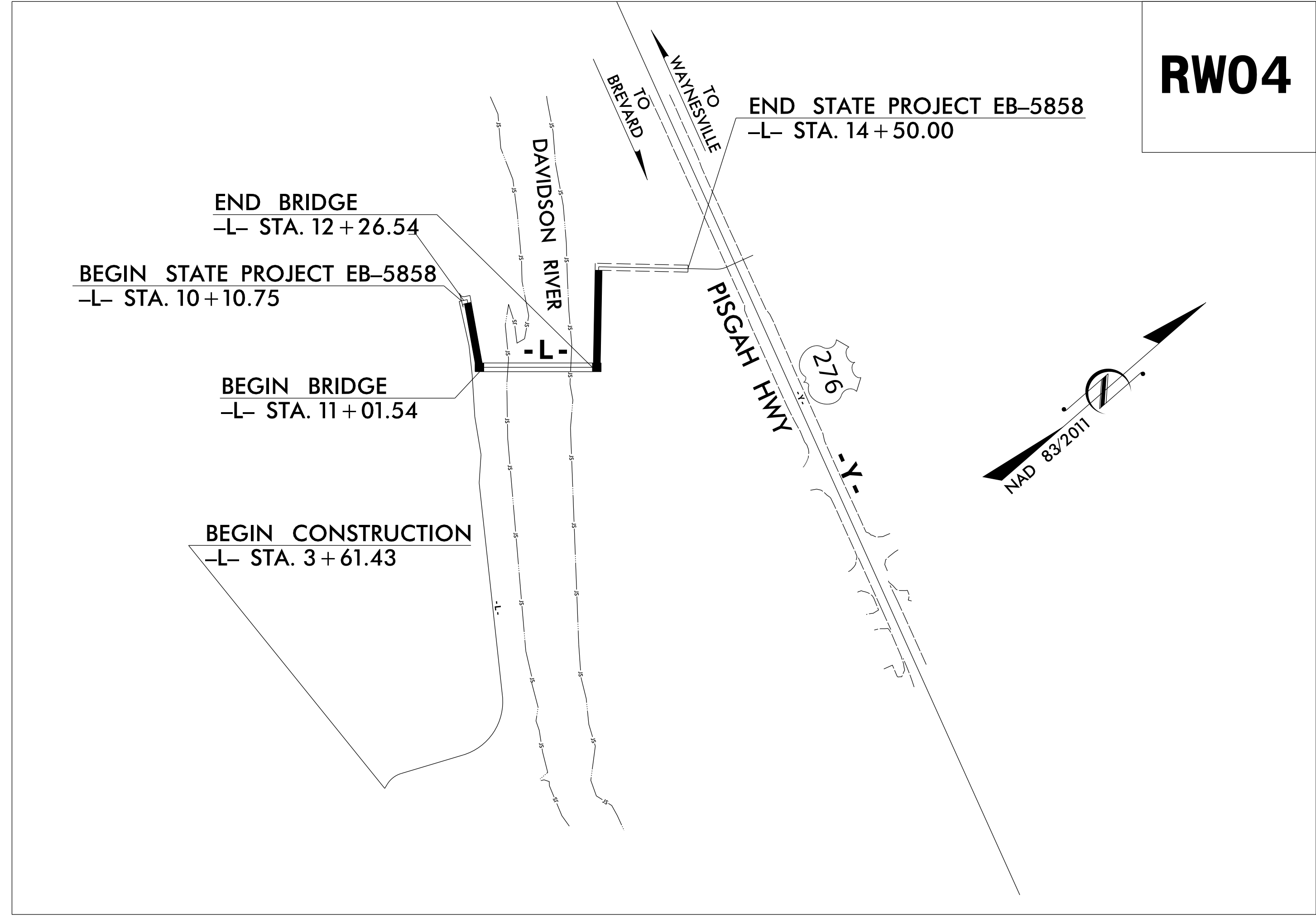
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

TRANSYLVANIA COUNTY

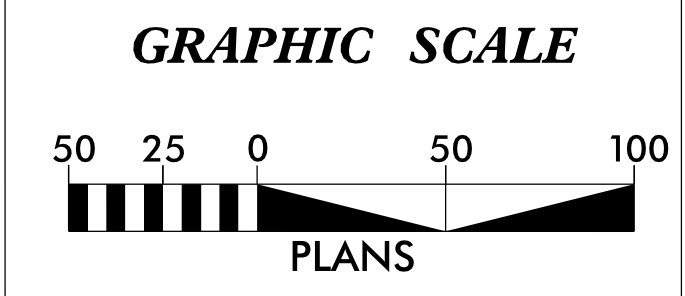
LOCATION: FROM CITY OF BREVARD EXISTING SHARED USE
PATH ACROSS DAVIDSON RIVER

TYPE OF WORK: CONSTRUCT BIKE/PEDESTRIAN BRIDGE - GRADING AND STRUCTURE



RW04

01-MAR-2023 15:04
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 babar.watt AT LS-33013L



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "G101" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 573,795.866(ft) EASTING: 893,308.295(ft) ELEVATION: 2,172.39(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997747435 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "G101" TO -L- STATION 10+10.75 IS N 20-09'46.5" E 1,485.08(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

LOCATION AND SURVEYS, DIVISION 14
122 BONNIE LANE
SYLVA, NC 28779

2018 STANDARD SPECIFICATIONS

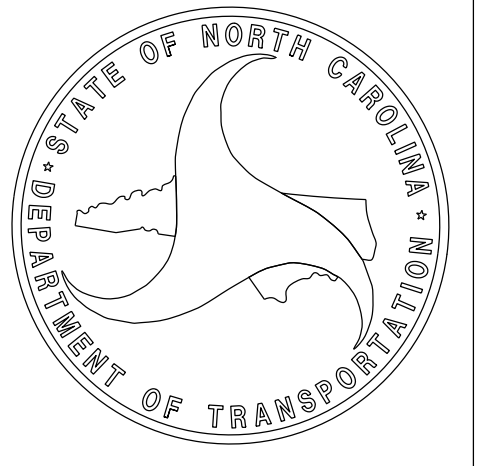
RIGHT OF WAY DATE:
TBD

LETTING DATE:
04/25/2023

PROFESSIONAL LAND SURVEYOR




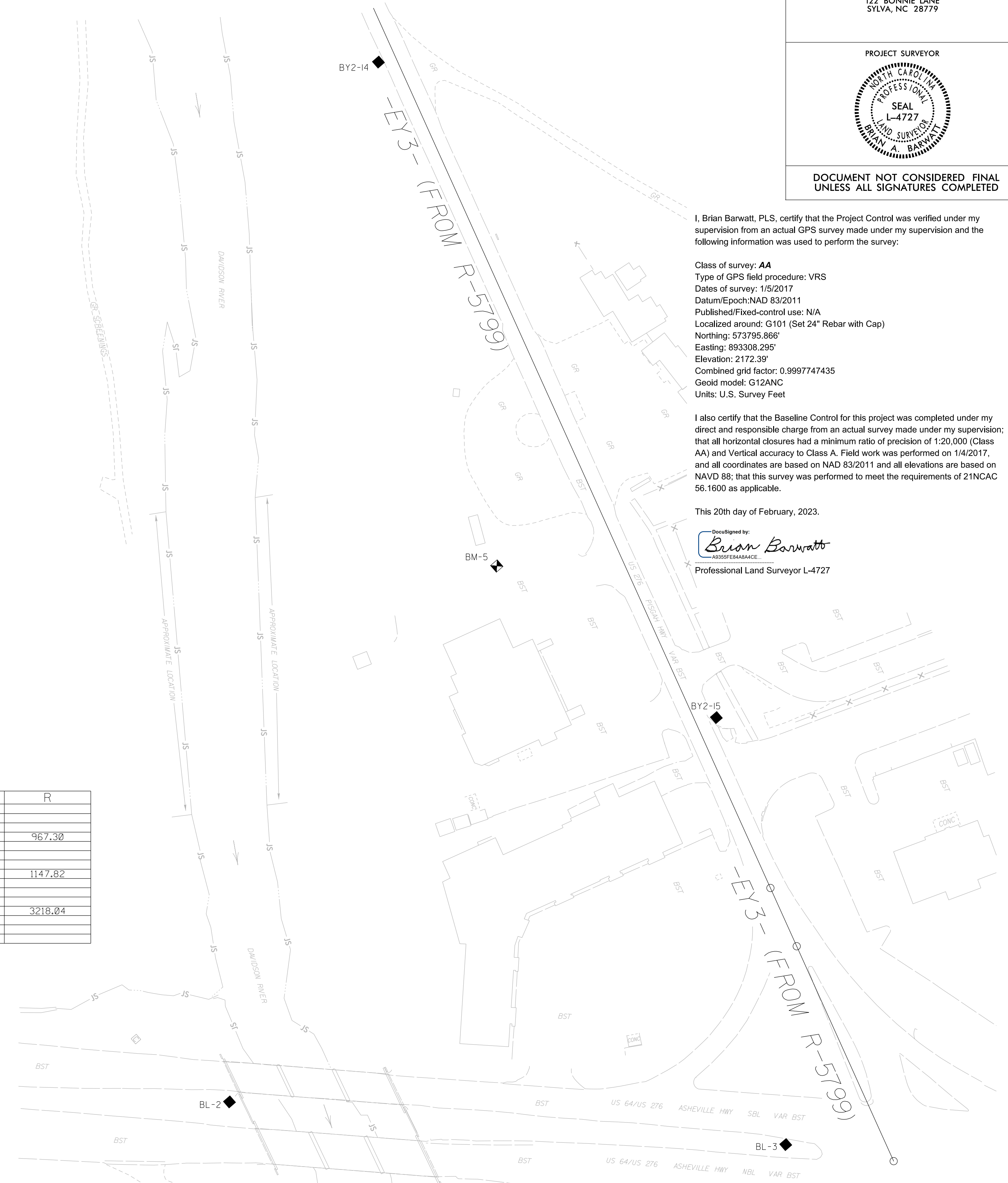
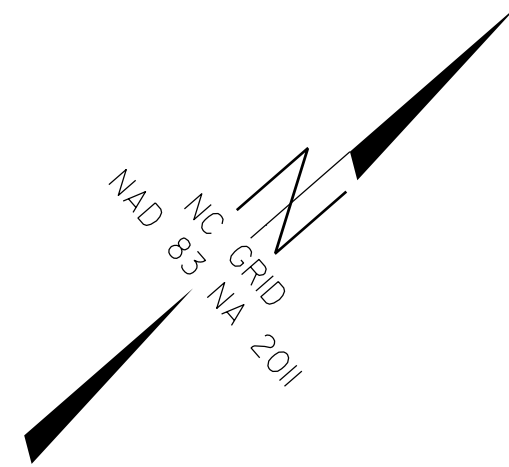
DocuSigned by:
Brian Barvatt 03/01/2023
SIGNATURE: _____ Date: _____



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
EB-5898	RW02C-1
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR	
	
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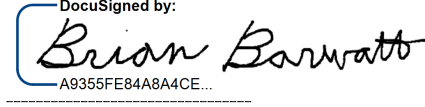


I, Brian Barwatt, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: **VRS**
 Dates of survey: **1/5/2017**
 Datum/Epoch: **NAD 83/2011**
 Published/Fixed-control use: **N/A**
 Localized around: **G101 (Set 24" Rebar with Cap)**
 Northing: **573795.866'**
 Easting: **893308.295'**
 Elevation: **2172.39'**
 Combined grid factor: **0.9997747435**
 Geoid model: **G12ANC**
 Units: **U.S. Survey Feet**

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed on 1/4/2017, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 20th day of February, 2023.

DocuSigned by:

 Professional Land Surveyor L-4727

BL	POINT	DESC.	NORTH	EAST	ELEVATION
2	BL-2		574851.4810	894367.8660	2132.85
3	BL-3		575168.3680	894689.6780	2129.88
14	BY2-14		575495.1360	893812.4520	2134.48
15	BY2-15		575352.9770	894392.1670	2130.28


 BM5 ELEVATION - 2130.56
 N 575300 E 894183
 SPIKE NAIL IN 16" HARDWOOD STUMP

EY3 (FROM R-5799)									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	576189.902	892348.999	S 36°23'00.2" E	14.26					
LINE	576178.425	892357.456	S 44°12'33.7" E	263.42	15°39'07.1"(LT)	05°55'23.8"	264.24	132.95	967.30
PC	575989.604	892541.137	S 52°02'07.2" E	5.01					
PT	575986.523	892545.085	S 59°25'45.7" E	295.43	14°47'16.9"(LT)	04°59'30.2"	296.25	148.95	1147.82
LINE	575836.267	892799.451	N 66°49'24.4" W	0.00					
PC	575836.268	892799.451	S 70°01'45.6" E	359.94	06°24'43.0"(LT)	01°46'49.7"	360.13	180.25	3218.04
PT	575713.334	893137.748	S 73°14'07.2" E	1691.31					
LINE	575225.490	894757.170							
POT									

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. EB-5858	SHEET NO. RW02D-1
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Brian Barwatt, PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 20th day of February, 2023.

DocuSigned by:
Brian Barwatt
Professional Land Surveyor L-4727

REVISIONS

L

TYPE	STATION	NORTH	EAST
POT	3+61.43	574755.0737	894185.0227
PC	3+66.90	574760.2809	894183.3329
PT	3+87.62	574780.4925	894184.4672
PC	4+62.00	574848.2324	894215.2011
PT	5+50.90	574927.2177	894193.4607
POT	7+97.05	575067.7586	893991.3788
POT	8+29.62	575090.7378	893968.3012
POT	8+73.92	575114.0195	893930.6122
POT	9+21.79	575143.1366	893892.6088
POT	9+55.98	575162.7141	893864.5863
POT	10+07.99	575187.5105	893818.8685
POT	10+17.42	575195.7965	893823.3784
POT	10+96.54	575155.2736	893891.3347
POT	12+31.54	575257.0748	893979.9999
POT	13+47.17	575334.6315	893894.2361
PC	14+82.17	575434.5979	893984.9574
PT	14+95.01	575445.6796	893991.2370
POT	15+28.15	575477.3957	894000.8442

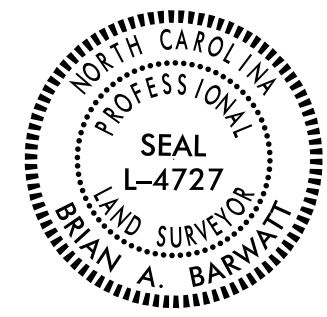
Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	575225.4903	894757.1700
POT	26+91.31	575713.3336	893137.7478

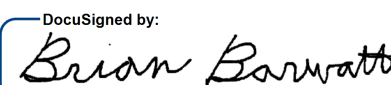
NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. EB-5858	SHEET NO. RW03E-1
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Brian Barwatt, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed on 11/1/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of February, 2023.

 Professional Land Surveyor L-4727

ROW MARKER IRON PIN AND CAP - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	9+20.54	2.94	575144.7049	893895.3908
L	10+10.81	-10.00	575194.7690	893811.4339
L	10+88.19	-10.00	575168.1413	893889.2808
L	12+41.36	-10.00	575256.2411	893966.0126
L	13+18.77	-142.74	575209.7122	893819.5670
L	13+57.16	-4.00	575344.7196	893897.9896

ROW MARKER IRON PIN AND CAP - E


ALIGN	STATION	OFFSET	NORTH	EAST
Y	17+40.10	-189.09	575257.9085	893993.9872
Y	18+65.65	-151.72	575329.9092	893884.5489

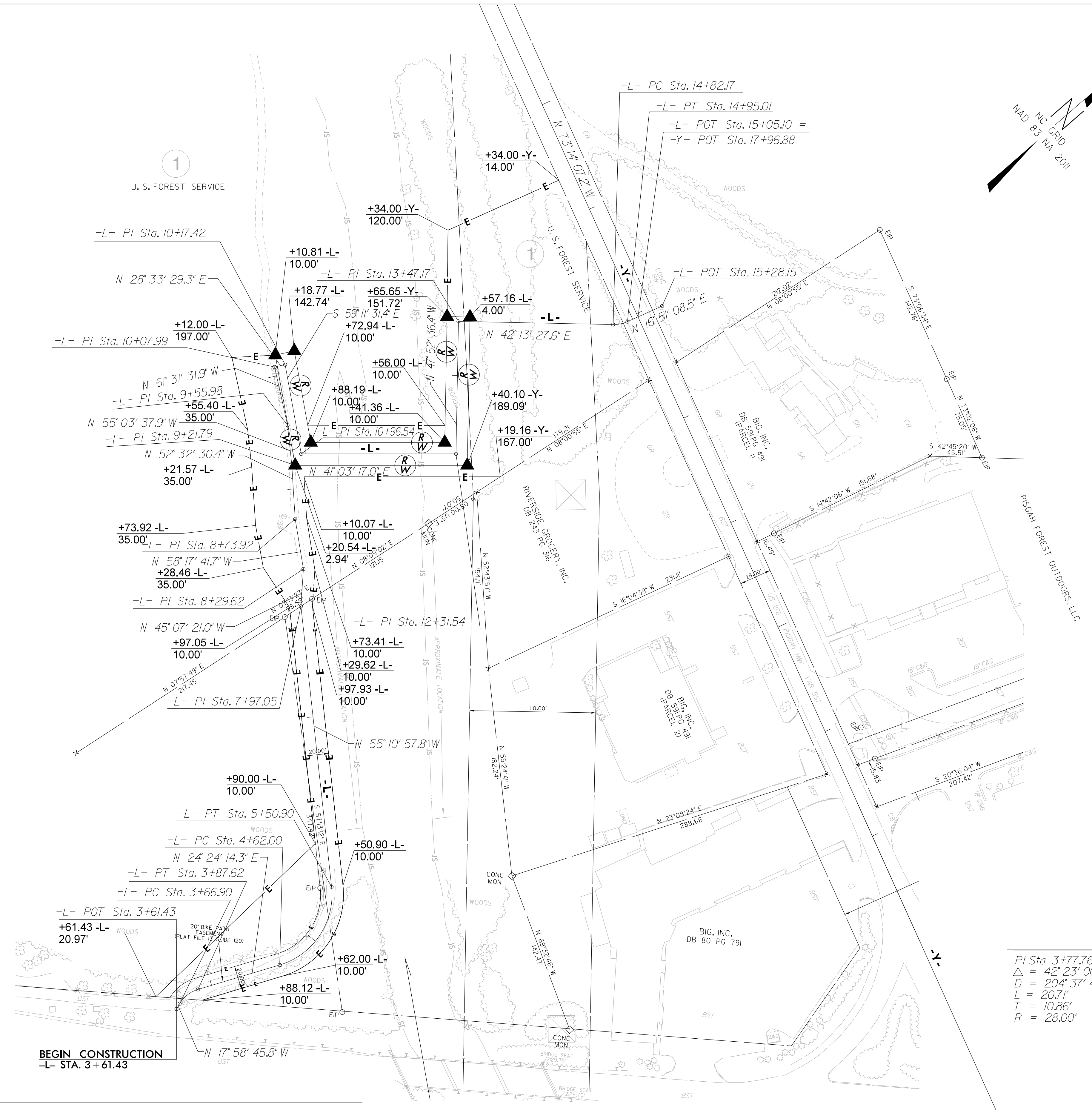
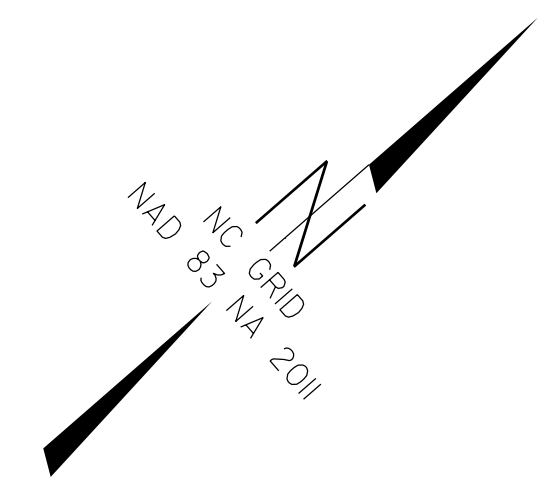
REVISIONS

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 Brian Barwatt
 L-4727

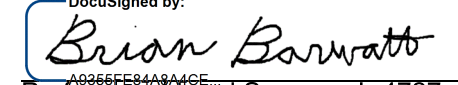
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ON 11/1/2022.

PROJECT REFERENCE NO.	SHEET NO.
EB-5858	RW04
Location and Surveys	
LOCATION AND SURVEYS, DIVISION 14 122 BONNIE LANE SYLVA, NC 28779	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Brian Barwatt, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed on 11/1/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of February, 2023.
 (Designed by)

 Professional Land Surveyor L-4727

-L- CURVE DATA

PI Sta	PT Sta	PI Sta	PT Sta	PI Sta	PT Sta
3+77.76	5+15.31	5+15.31	14+88.69		
$\Delta = 42^\circ 23' 00.0''$ (RT)	$\Delta = 79^\circ 35' 12.1''$ (LT)	$\Delta = 25^\circ 22' 19.1''$ (LT)			
D = 204' 37" 40.0"	D = 89' 31" 28.8"	D = 197' 34" 18.0"			
L = 20.71'	L = 88.90'	L = 12.84'			
T = 10.86'	T = 53.31'	T = 6.53'			
R = 28.00'	R = 64.00'	R = 29.00'			

- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED ON 11/1/2022.

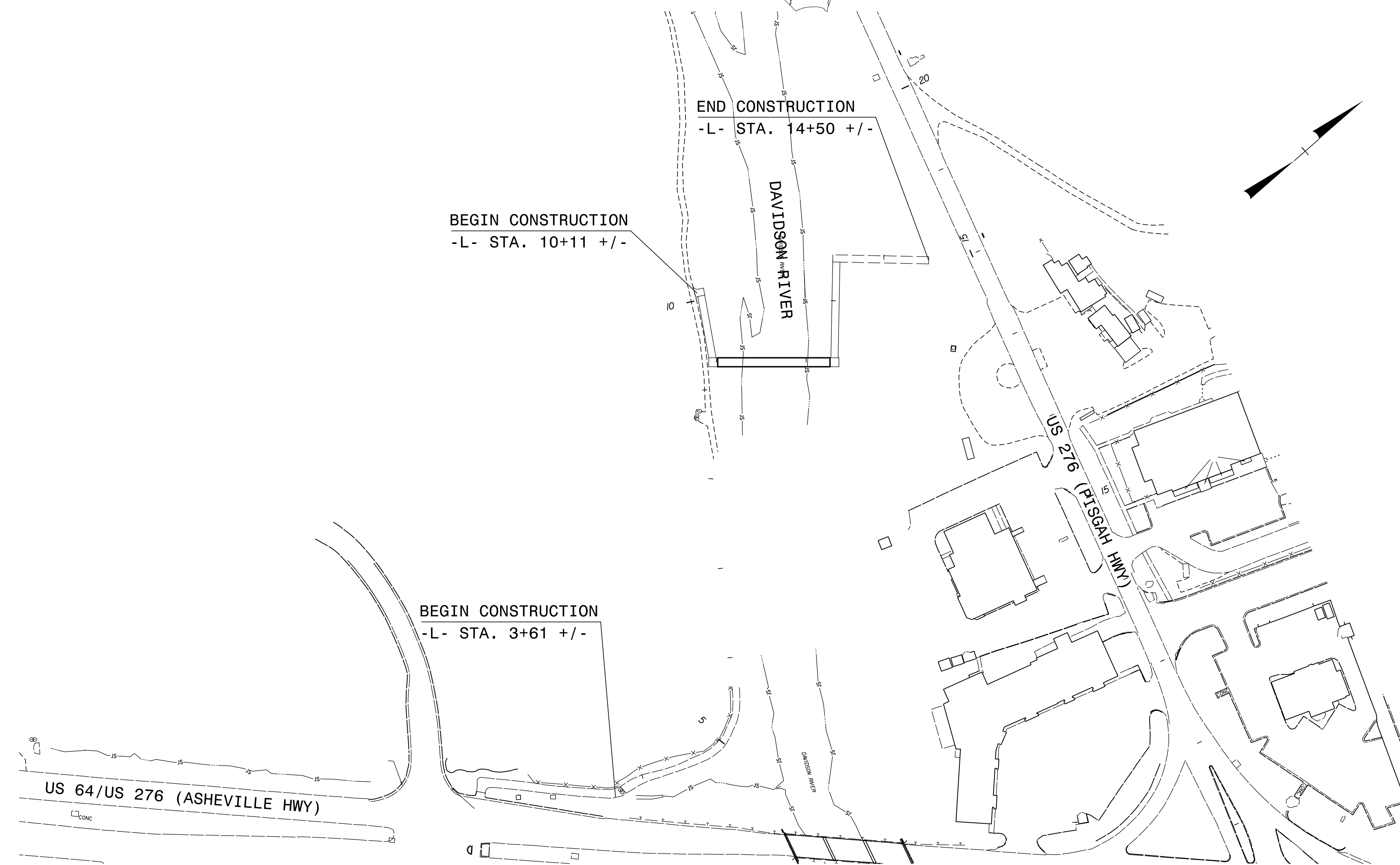
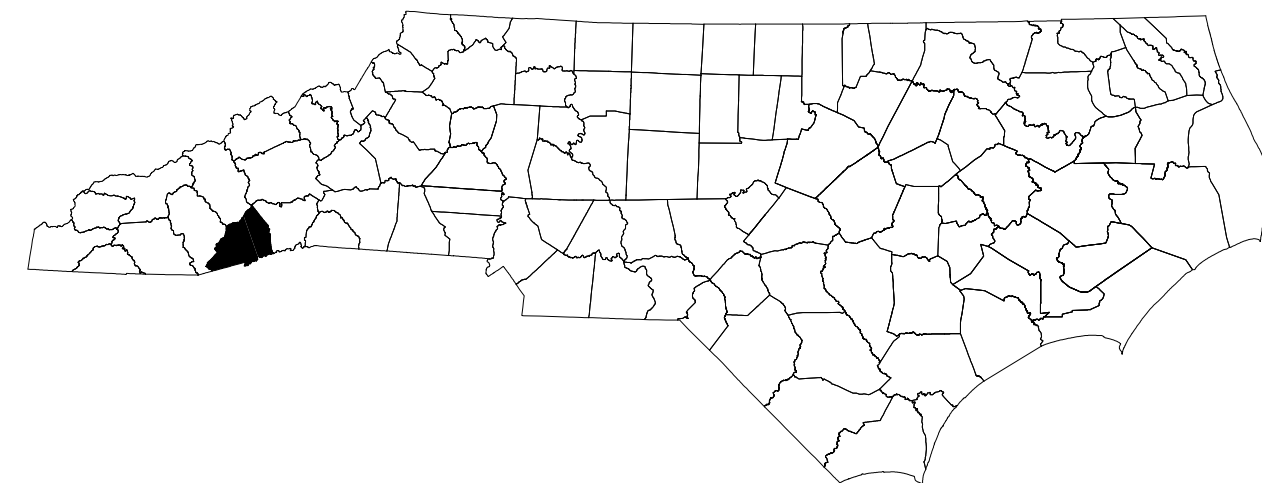
REVISIONS

28_FEB_2023_08:44
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 bbarwatt AT LS-33073

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

TRANSYLVANIA COUNTY

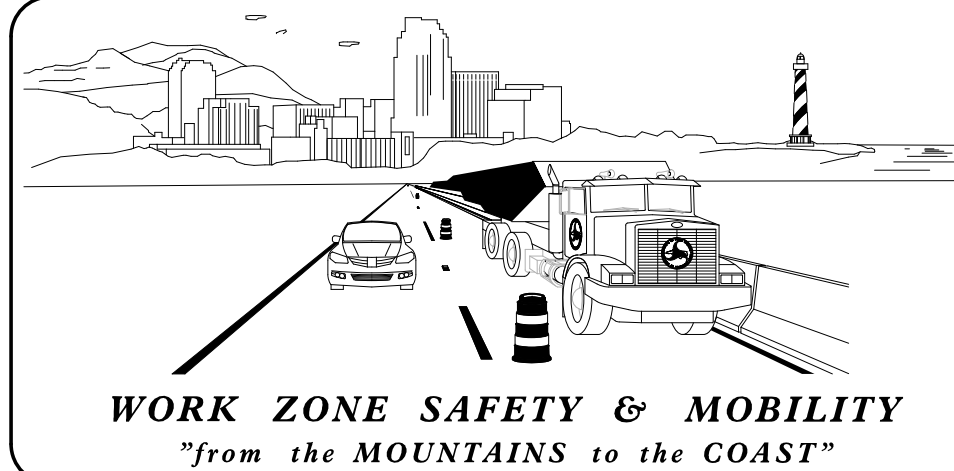


INDEX OF SHEETS

SHEET NO.	TITLE
TMP-01	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-02	ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-03	GENERAL NOTES AND WRITTEN PHASING
TMP-04	TEMPORARY TRAFFIC CONTROL PHASE I

SHEET NO.
TMP-01

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



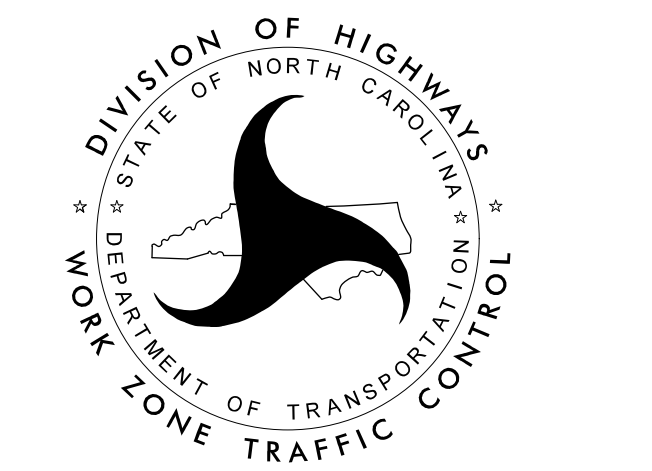
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
 1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
 750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
 PHONE: (919) 814-5000 FAX: (919) 771-2745

 STATE TRAFFIC MANAGEMENT ENGINEER

 STEVE BUCHANAN TRAFFIC CONTROL PROJECT ENGINEER

 TRAFFIC CONTROL PROJECT DESIGN ENGINEER

 TRAFFIC CONTROL DESIGN ENGINEER



WSP

1001 Morehead Square Dr., Suite 610
 Charlotte NC, 28203
 (704) 342-5401
 NC LIC. NO. F-0165

APPROVED: _____
 DATE: 2/27/2023

DocuSigned by:
 Richard A. Dynski
 9F87EA804F814E2

PROJECT: EB-5858



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.12	PAVEMENT MARKINGS - BRIDGES

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

APPROVED: _____ DATE: 2/27/2023			TRANSPORTATION MANAGEMENT PLANS ROADWAY STANDARD DRAWINGS & LEGEND
DocuSigned by: 			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.
THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- F) CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AT ALL TIMES. COORDINATE WITH PROPERTY OWNERS DURING CONSTRUCTION ACTIVITIES IMPACTING DRIVEWAYS.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- G) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- H) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (WB-11) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- I) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- J) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

TRAFFIC CONTROL DEVICES

- K) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

PAVEMENT MARKINGS AND MARKERS

- L) INSTALL FINAL PAVEMENT MARKINGS AND FINAL PAVEMENT MARKERS ON THE FINAL LAYER OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

- M) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

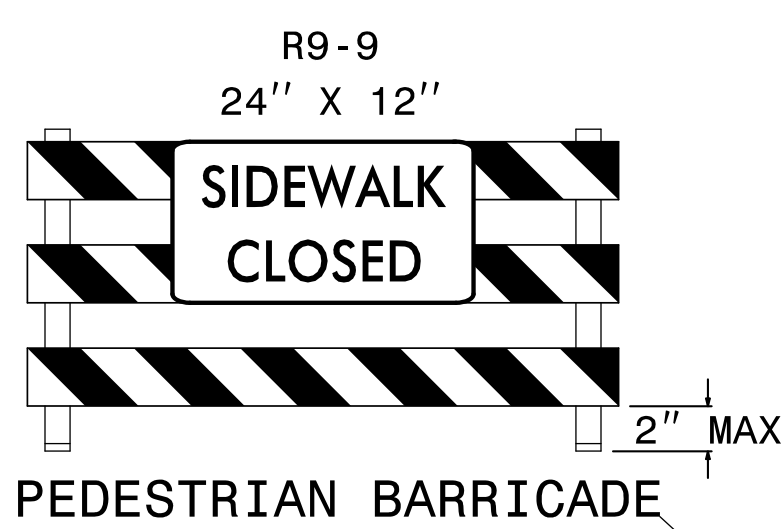
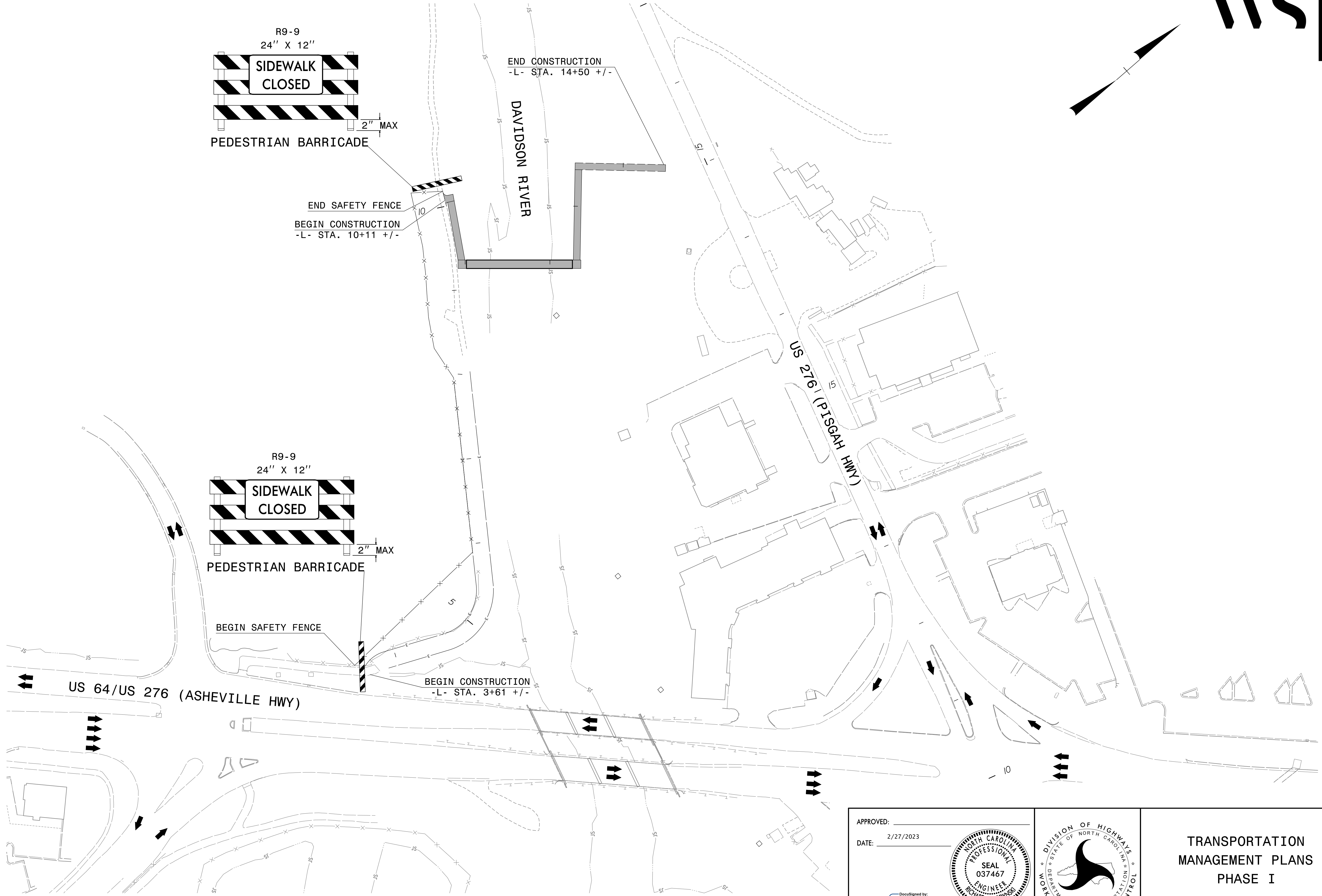
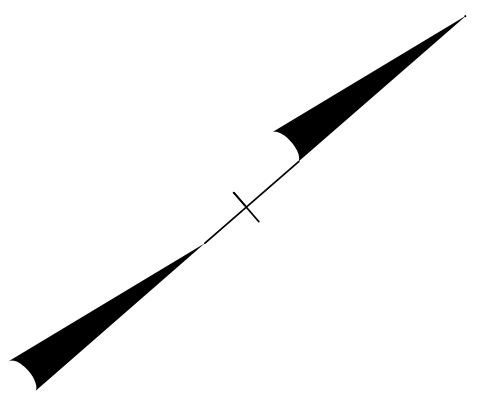
- N) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- O) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- P) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

PHASING NOTES

PHASE I

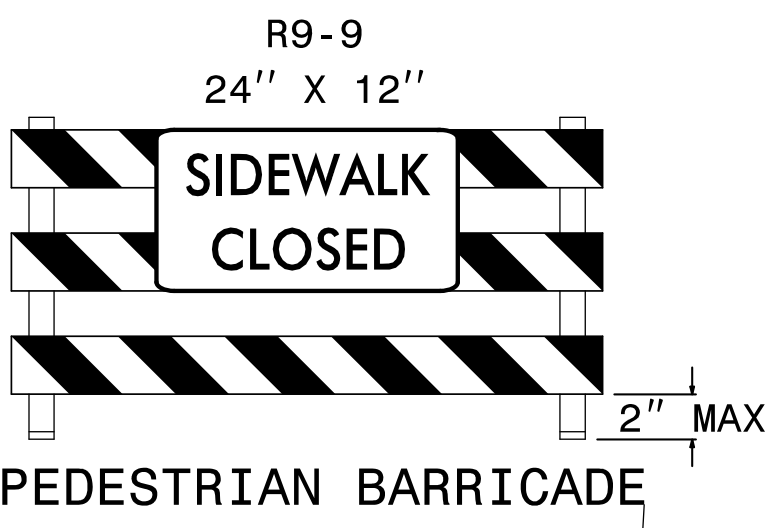
- STEP 1: USE RSD 1101.02 FOR LANE CLOSURES AS NEEDED TO ACCESS THE PROJECT SITE. CONTRACTORS SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO ANY LANE CLOSURES.
- STEP 2: INSTALL TYPE III BARRICADES TO CLOSE EXISTING TRAIL DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CITY OF BREVARD AND US FOREST SERVICE 30 DAYS PRIOR TO TRAIL CLOSURE.
- STEP 3: INSTALL SAFETY FENCING AS SHOWN ON THE PLANS.
- STEP 4: CONSTRUCT PROPOSED IMPROVEMENTS AS SHOWN IN THE ROADWAY AND STRUCTURE PLANS. ONCE CONSTRUCTION IS COMPLETE, REMOVE ALL SIGNS AND DEVICES AND OPEN TO PEDESTRIANS.

APPROVED: _____ DATE: 2/27/2023			TRANSPORTATION MANAGEMENT PLANS GENERAL NOTES AND WRITTEN PHASING
DocuSigned by: 		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



END SAFETY FENCE
BEGIN CONSTRUCTION
-L- STA. 10+11 +/-

END CONSTRUCTION
-L- STA. 14+50 +/-



BEGIN SAFETY FENCE

BEGIN CONSTRUCTION
-L- STA. 3+61 +/-

US 64/US 276 (ASHEVILLE HWY)

US 276 (PISGAH HWY)

DAVIDSON RIVER

APPROVED: _____
DATE: 2/27/2023

DocuSigned by:
Richard A. Odynski

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**TRANSPORTATION
MANAGEMENT PLANS
PHASE I**

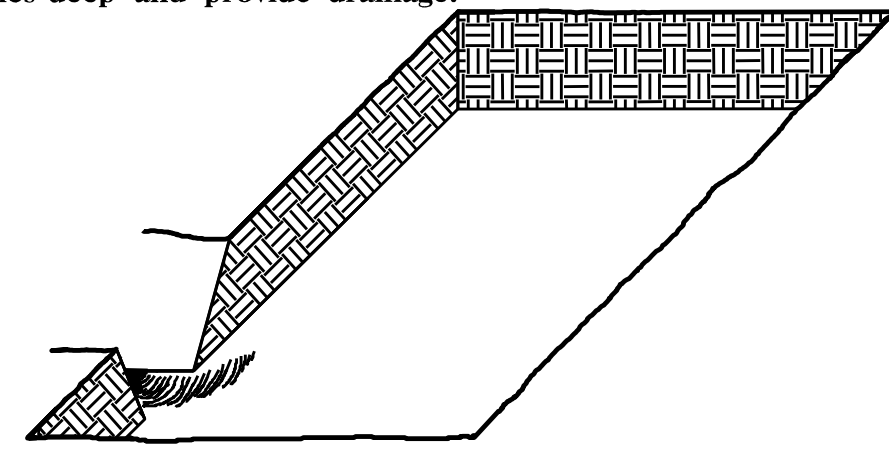
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-5858	RF-1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	

PLANTING DETAILS

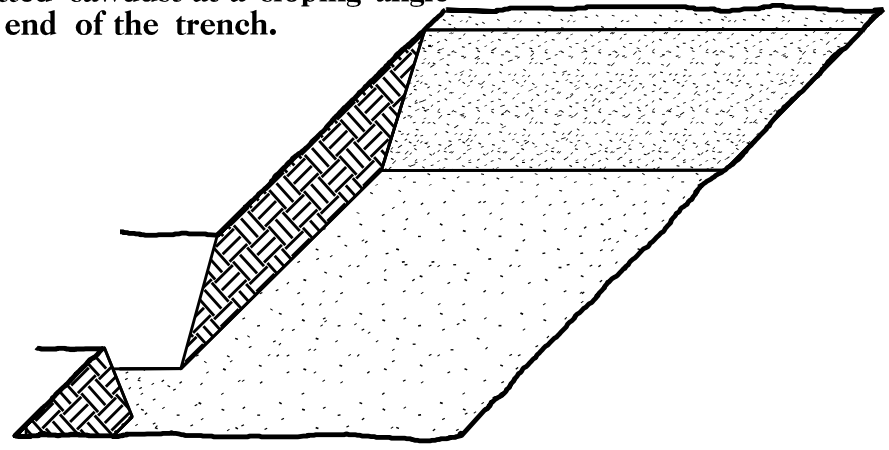
SEEDLING / LINER BAREROOT PLANTING DETAIL

HEALING IN

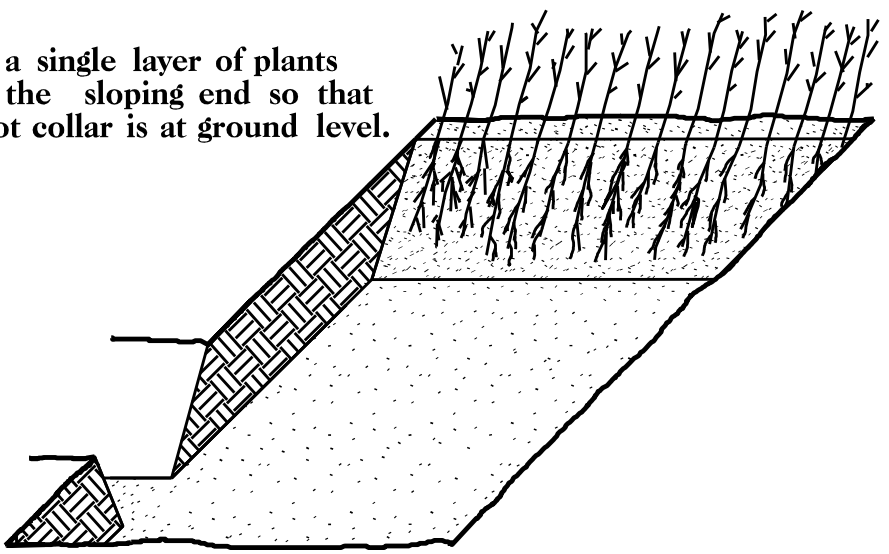
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



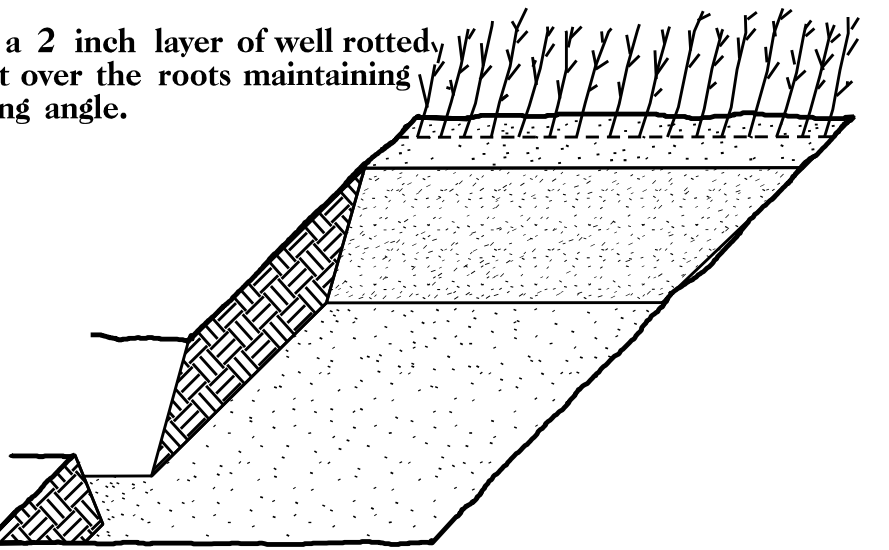
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



4. Place a single layer of plants against the sloping end so that the root collar is at ground level.

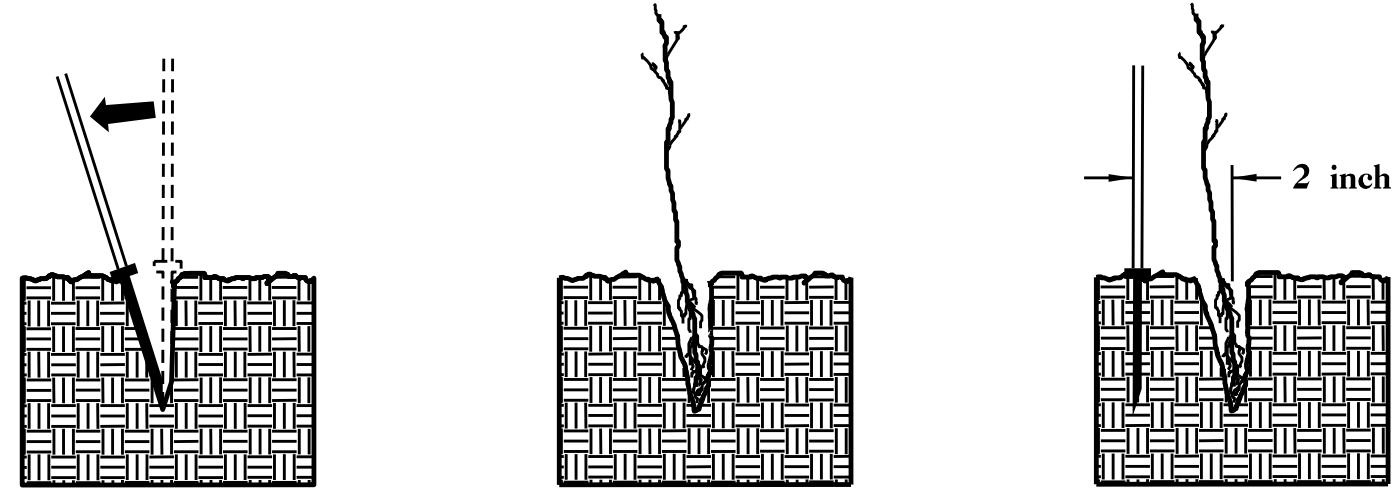


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

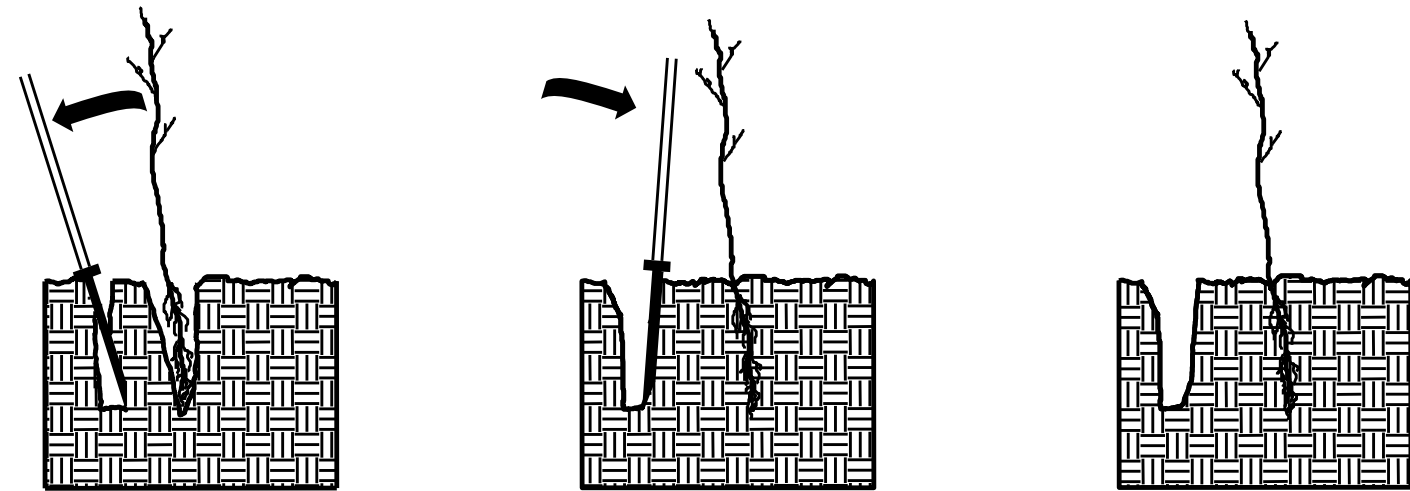


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR



1. Insert planting bar as shown and pull handle toward planter.
2. Remove planting bar and place seedling at correct depth.
3. Insert planting bar 2 inches toward planter from seedling.



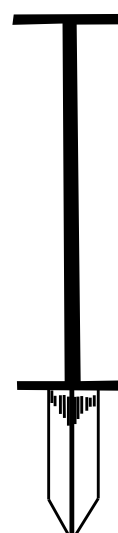
4. Pull handle of bar toward planter, firming soil at bottom.
5. Push handle forward firming soil at top.
6. Leave compaction hole open. Water thoroughly.

PLANTING NOTES:

PLANTING BAG
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.



KBC PLANTING BAR
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



ROOT PRUNING
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

REFORESTATION

- TREE REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

REFORESTATION

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

25% LIRIODENDRON TULIPIFERA	TULIP POPLAR	12 in - 18 in BR
25% PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	12 in - 18 in BR
25% FRAXINUS PENNSYLVANICA	GREEN ASH	12 in - 18 in BR
25% BETULA NIGRA	RIVER BIRCH	12 in - 18 in BR

REFORESTATION DETAIL SHEET
N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

09/08/09

TIP PROJECT: EB-5858

T.I.P. NO.	SHEET NO.
EB-5858	UO-1

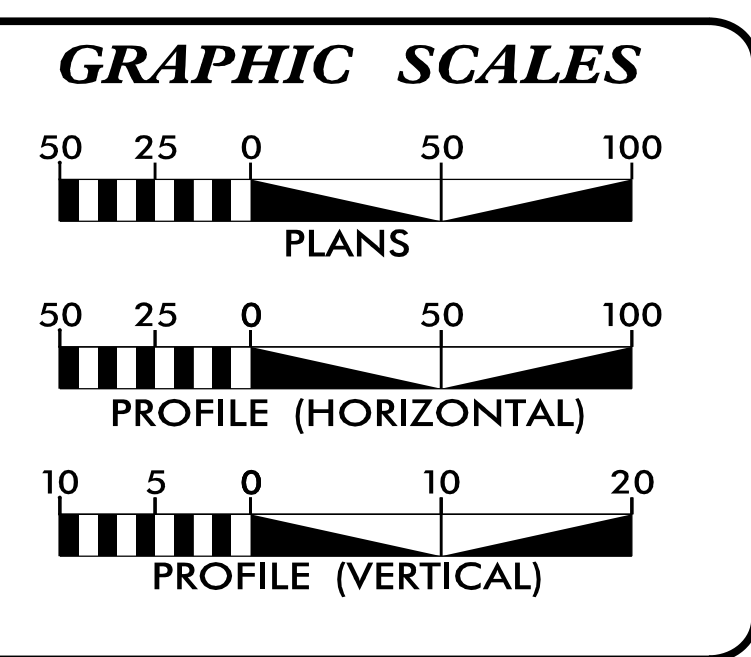
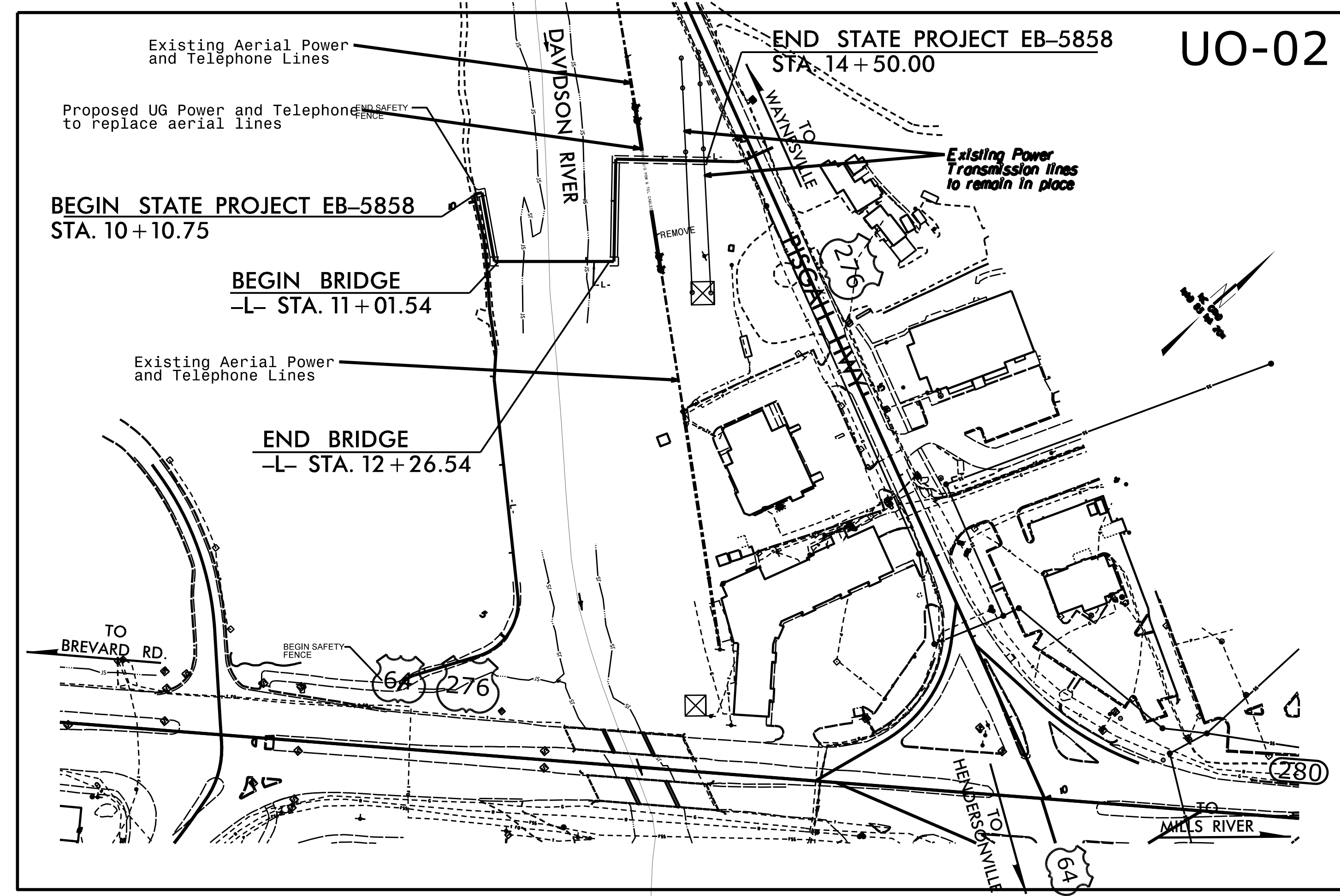
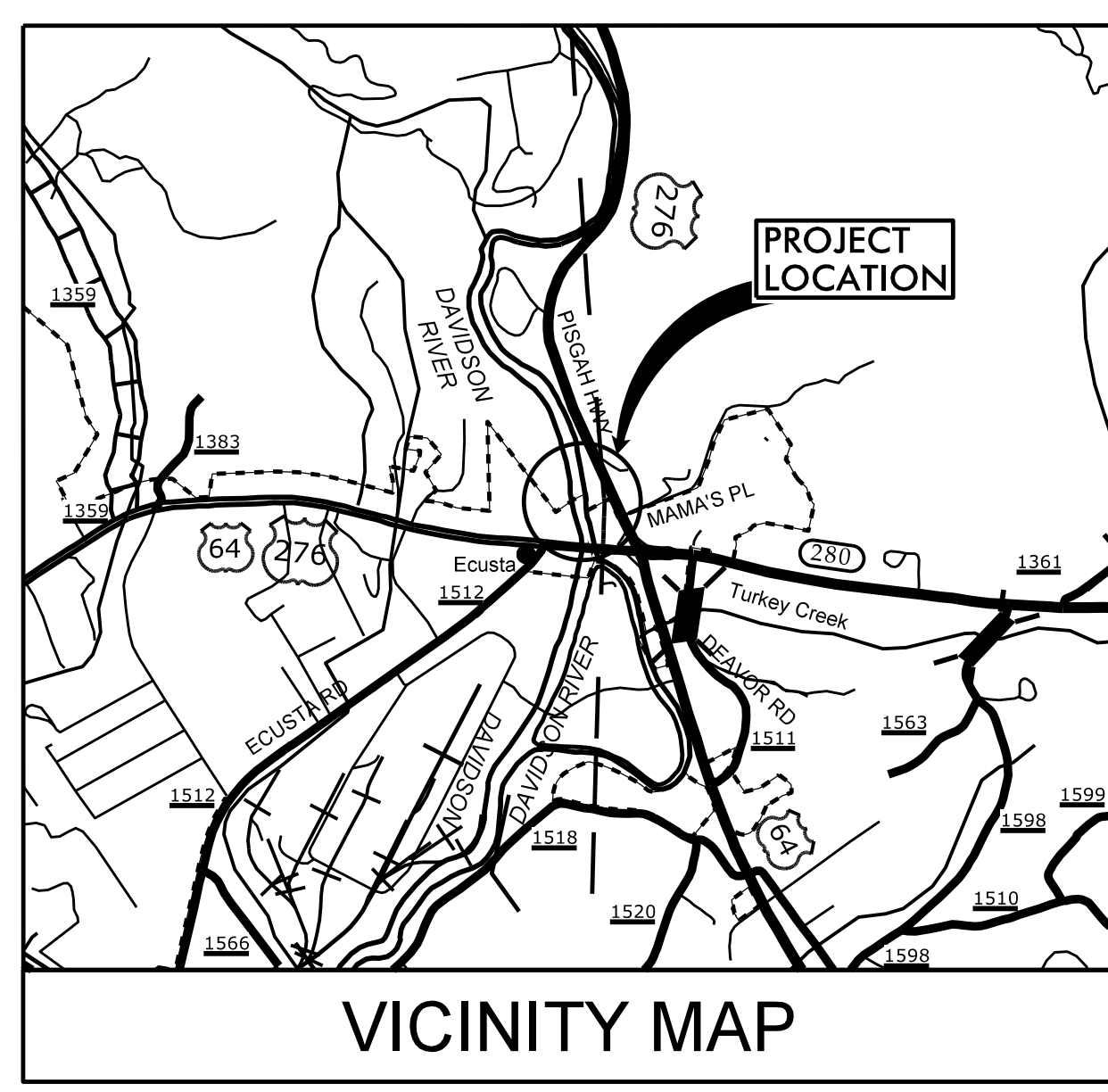
NOTE:
 ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.
 NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
 TRANSYLVANIA COUNTY

LOCATION: CITY OF BREVARD - FROM SHARED USE PATH
 ACROSS DAVIDSON RIVER TO US264

TYPE OF WORK: SHARED USE PATH AND BIKE/PEDESTRIAN BRIDGE:
 GRADING AND STRUCTURE



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-02	UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS

- (A) POWER TRANSMISSION - DUKE ENERGY
- (B) POWER DISTRIBUTION - DUKE ENERGY
- (C) TELECOMMUNICATIONS - COMPORIUM

PREPARED IN THE OFFICE OF:

WSP USA
 434 PAVETTAVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 TEL: 1-919-836-4040
 FAX: 1-919-836-4099
 LICENSE NO. F-0165

JOT SPLENDA	PROJECT MANAGER
R. WORTHINGTON	PROJECT UTILITY COORDINATOR

DIVISION OF HIGHWAYS
 DIVISION 14
 253 WEBSTER ROAD
 SYLVIA, NORTH CAROLINA 28779

BARRY MOSTELLER	DESIGN CONST ENGINEER
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