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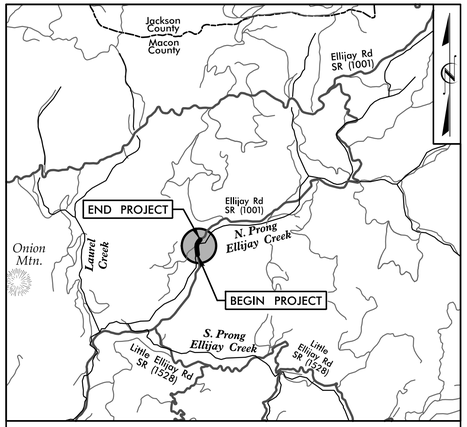
PROJECT TIP: B-6029

CONTRACT: DN01148

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



VICINITY MAP N.T.S.

FINAL PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MACON COUNTY

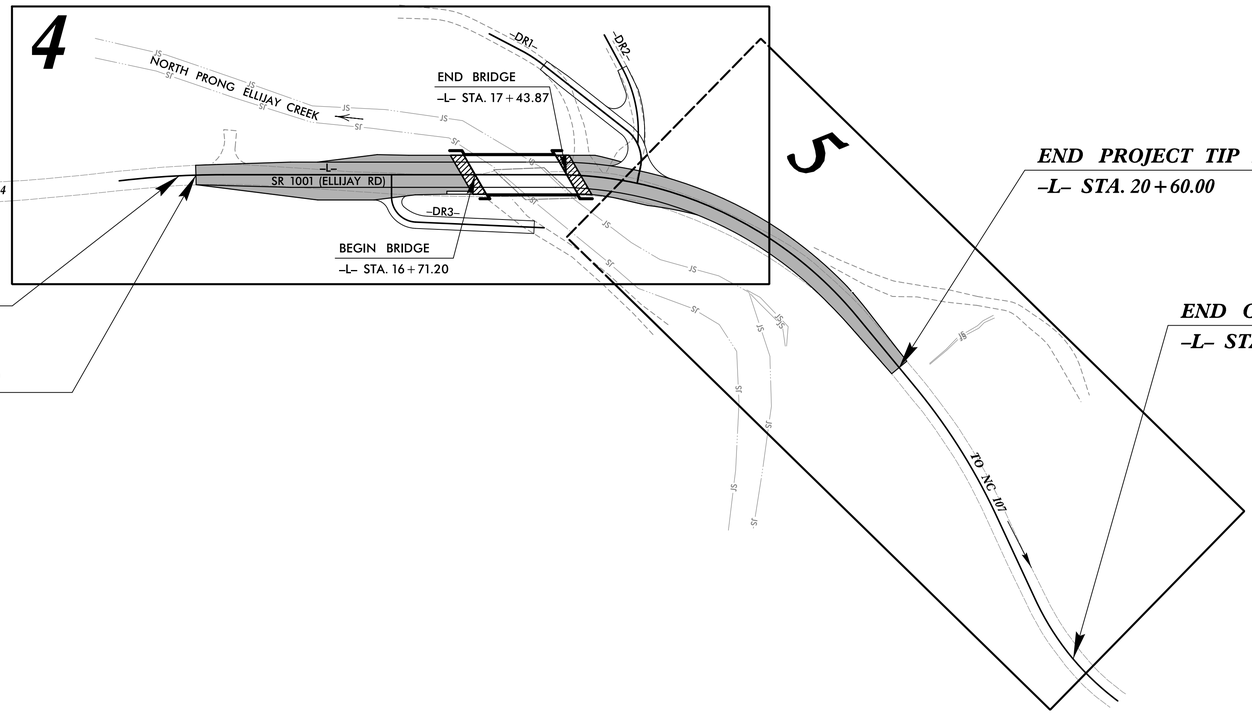
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6029	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
48224.1.1		P.E.
48224.2.1		ROW & UTILITIES
48224.3.1		CONSTRUCTION

LOCATION: BRIDGE #009 OVER NORTH PRONG ELLIJAY CREEK ON SR 1001 (ELLIJAY RD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, & STRUCTURE

NAD 83 NA 2011



BEGIN CONSTRUCTION TIP B-6029
-L- STA. 14+36.84

BEGIN PROJECT TIP B-6029
-L- STA. 14+50.00

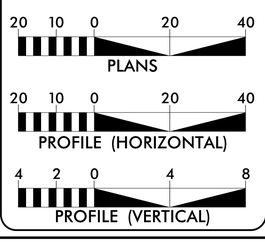
END PROJECT TIP B-6029
-L- STA. 20+60.00

END CONSTRUCTION TIP B-6029
-L- STA. 23+30.00

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 041376 MICHAEL D. HAGE
Signed by: Michael D Hage A114C6635C08437...
12/18/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 420
ADT 2025 = 840
DHV = N/A
D = N/A
T = 6%
V = 30 MPH

FUNC. CLASSIFICATION: COLLECTOR SUBREGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT TIP B-6029 = 0.102 MILES

LENGTH OF STRUCTURE PROJECT TIP B-6029 = 0.014 MILES

TOTAL LENGTH OF PROJECT TIP B-6029 = 0.116 MILES

NCDOT CONTACT: ADAM DOCKERY
Division Bridge Manager

PLANS PREPARED FOR THE NCDOT BY:

STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 25, 2017

LETTING DATE:
FEBRUARY 10, 2026

NIKKI T. HONEYCUTT, PE
PROJECT ENGINEER

CLARK GROVES
PROJECT DESIGNER

HYDRAULICS ENGINEER

NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE LET DATE.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

DAVIN C. MORRISON
038053 ON 11/16/23

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE LET DATE.

P.E.

SIGNATURE:

ROADWAY DESIGN ENGINEER

NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE LET DATE.

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

NIKKI T. HONEYCUTT
039234 ON 11/16/23

THIS DOCUMENT IS ONLY CERTIFIED AS TO THE LET DATE. ***P.E.***

SIGNATURE:

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

12/18/2025
R:\Roadway\Proj\SHT\TBP14R158_rdy_psh0l_tsh.dgn
mabdelaziz

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
B-6029	1A
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT BUT ONLY AS TO THE STD. DRAWINGS

THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY :

NIKKI T. HONEYCUTT

039234 ON 11/16/23

THIS DOCUMENT IS ONLY CERTIFIED AS TO STANDARD NO. 423.01

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signed by:
A114C6635C8B437...
NORTH CAROLINA PROFESSIONAL SEAL 041376 ENGINEER MICHAEL D. HAGE
11/5/2025

INDEX OF SHEETS

GENERAL NOTES

GENERAL NOTES: 2024 SPECIFICATIONS
EFFECTIVE: 01-01-2024

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

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.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT IN ACCORDANCE WITH SECTION 801 OF THE 2024 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

SUBSURFACE PLANS:

SUBSURFACE INFORMATION IS AVAILABLE ON THE STRUCTURE PORTION OF THIS PROJECT ONLY. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY & FRONTIER COMMUNICATIONS. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

STANDARD DRAWINGS

2024 ROADWAY ENGLISH STANDARD DRAWINGS EFF. January, 2024

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2024 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
225.04	Method of Obtaining Superelevation - Two Lane Pavement
275.01	Rock Plating
DIVISION 4 - MAJOR STRUCTURES	
423.01	Bridge Approach Fills - Type 1 Approach Fill for Bridge Abutment
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates
840.20	Frames and Wide Slot Flat Grates
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet
846.01	Concrete Curb, Gutter and Curb & Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Detail Drawing for Two-way Undivided Work Zone Warning Signs
1101.02	Temporary Lane Closures
1101.04	Temporary Shoulder Closures
1101.05	Work Zone Vehicle Accesses
1110.01	Stationary Work Zone Signs - Mounting Height & Lateral Clearance
1110.02	Portable Work Zone Signs - Mounting Height & Lateral Clearance
1130.01	Drum
1135.01	Cones
1145.01	Barricades - Type III
1150.01	Flagging Devices
1180.01	Skinny - Drum
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	Pavement Markings - Line Types and Offsets
1205.12	Pavement Markings - Bridges
1261.01	Guardrail and Barrier Delineators - Installation Spacing
1261.02	Guardrail & Barrier Delineators - Types and Mounting
1262.01	Guardrail End Delineation
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT	
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1631.01	Matting Installation
1632.02	Rock Inlet Sediment Trap Type B
1632.03	Rock Inlet Sediment Trap Type C
1633.01	Temporary Rock Silt Check Type A
1634.02	Temporary Rock Sediment Dam Type B
1635.02	Rock Pipe Inlet Sediment Trap Type B

9/10/2021

PROJECT REFERENCE NO.	SHEET NO.
B-6029	1-B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin (EIP) — EIP
- Computed Property Corner
- Existing Concrete Monument (ECM) — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- 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 — S
- 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 — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Secondary Horiz and Vert Control Point
- Vertical Benchmark
- Existing Right of Way Monument
- Proposed Right of Way Monument (Rebar and Cap)
- Proposed Right of Way Monument (Concrete)
- Existing Permanent Easement Monument
- Proposed Permanent Easement Monument (Rebar and Cap)
- Existing C/A Monument
- Proposed C/A Monument (Rebar and Cap)
- Proposed C/A Monument (Concrete)
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Existing Control of Access Line — CA
- Proposed Control of Access Line — CA
- Proposed ROW and CA Line — RW CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage/Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed 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
- 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:

** SUE – Subsurface Utility Engineering*
LOS – Level of Service – A,B,C or D (Accuracy)

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole — HH
- H–Frame Pole
- U/G Power Line Test Hole (SUE – LOS A)*
- U/G Power Line (SUE – LOS B)* — P
- U/G Power Line (SUE – LOS C)* — P
- U/G Power Line (SUE – LOS D)* — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Test Hole (SUE – LOS A)*
- U/G Telephone Cable (SUE – LOS B)* — T
- U/G Telephone Cable (SUE – LOS C)* — T
- U/G Telephone Cable (SUE – LOS D)* — T
- U/G Telephone Conduit (SUE – LOS B)* — TC
- U/G Telephone Conduit (SUE – LOS C)* — TC
- U/G Telephone Conduit (SUE – LOS D)* — TC
- U/G Fiber Optics Cable (SUE – LOS B)* — T FO
- U/G Fiber Optics Cable (SUE – LOS C)* — T FO
- U/G Fiber Optics Cable (SUE – LOS D)* — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line Test Hole (SUE – LOS A)*
- U/G Water Line (SUE – LOS B)* — W
- U/G Water Line (SUE – LOS C)* — W
- U/G Water Line (SUE – LOS D)* — W
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Test Hole (SUE – LOS A)*
- U/G TV Cable (SUE – LOS B)* — TV
- U/G TV Cable (SUE – LOS C)* — TV
- U/G TV Cable (SUE – LOS D)* — TV
- U/G Fiber Optic Cable (SUE – LOS B)* — TV FO
- U/G Fiber Optic Cable (SUE – LOS C)* — TV FO
- U/G Fiber Optic Cable (SUE – LOS D)* — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line Test Hole (SUE – LOS A)*
- U/G Gas Line (SUE – LOS B)* — G
- U/G Gas Line (SUE – LOS C)* — G
- U/G Gas Line (SUE – LOS D)* — 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 Force Main Line Test Hole (SUE – LOS A)*
- SS Force Main Line (SUE – LOS B)* — FSS
- SS Force Main Line (SUE – LOS C)* — FSS
- SS Force Main Line (SUE – LOS D)* — FSS

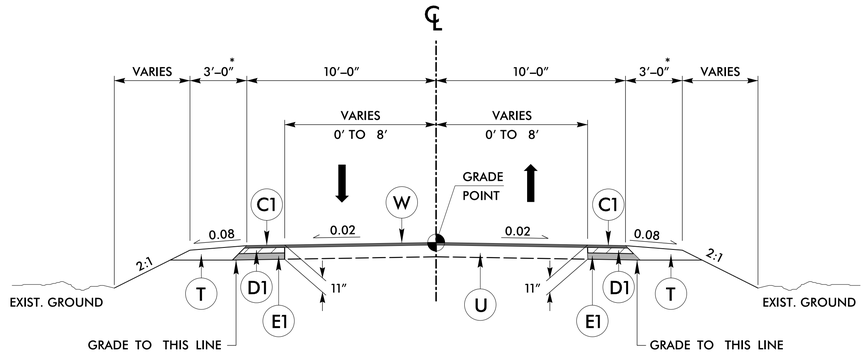
MISCELLANEOUS:

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

11/14/2023
R:\Roadway\Proj\SHT\7BP14R58_rdy_psh01B.dgn
SaucieSL

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 3″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1″ DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1.5″ IN DEPTH OR GREATER THAN 2″ IN DEPTH.
D1	PROP. APPROX. 4″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1″ DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2.5″ IN DEPTH OR GREATER THAN 4″ IN DEPTH.
E1	PROP. APPROX. 4″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1″ DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3.0″ IN DEPTH OR GREATER THAN 5.5″ IN DEPTH.
J	8″ AGGREGATE BASE COURSE
R	CONCRETE SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	PAVEMENT WEDGING

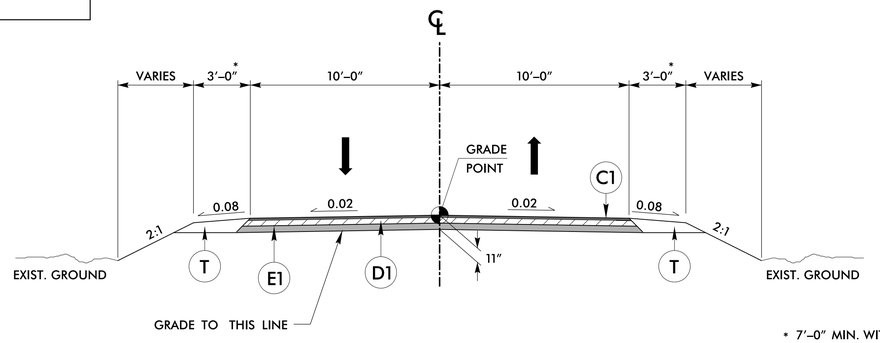
ALL PAVEMENT SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



* 7′–0″ MIN. WITH GUARDRAIL

TYPICAL SECTION 1

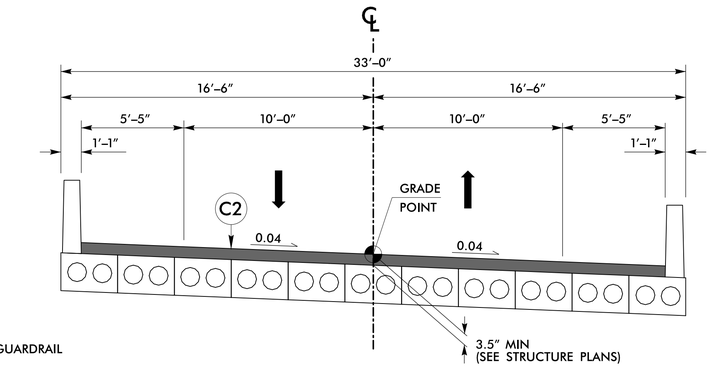
–L– STA. 14+50.00 TO 15+29.00
–L– STA. 18+05.00 TO 20+60.00



* 7′–0″ MIN. WITH GUARDRAIL

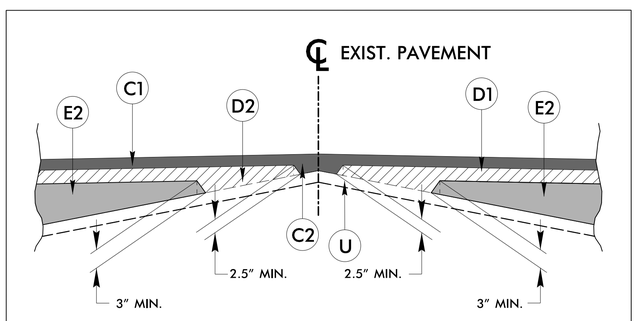
TYPICAL SECTION 2

–L– STA. 15+29.00 TO 16+71.20 (BEGIN BRIDGE)
–L– STA. 17+43.87 (END BRIDGE) TO 18+05.00

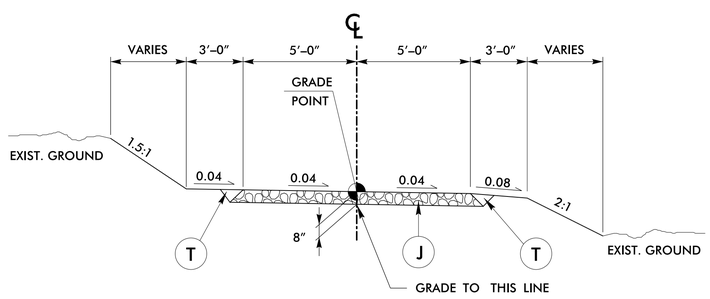


TYPICAL SECTION 3

–L– STA. 16+71.20 (BEGIN BRIDGE) TO 17+43.87 (END BRIDGE)

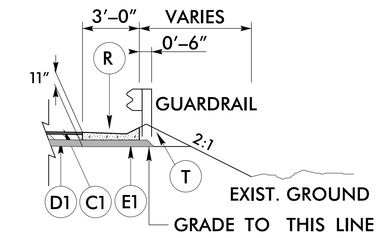


WEDGING DETAIL



TYPICAL SECTION 4

–DR1– STA. 10+50.00 TO 11+69.25
–DR2– STA. 10+30.00 TO 10+83.47



DETAIL A

–L– STA. 16+48.85 TO 16+66.27 (RT)

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
B-6029	2A-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039234 ENGINEER MICHAEL T. HONEYCUTT
11/16/2023

PAVEMENT DESIGN ENGINEER

PAVEMENT DESIGN PROVIDED BY NCDOT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
B-6029	3B-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039234 ENGINEER MICHAEL T. HONEYCUTT
11/16/2023

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038053 ENGINEER DAVID C. MORRISON
11/16/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EARTHWORK SUMMARY (IN CUBIC YARDS)

CHAIN	FROM STATION	TO STATION	SIDE	UNCL. EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
–L–	14 + 50.00	16 + 71.20	LT & RT	185		345	160	
–L–	17 + 43.87	20 + 60.00	LT & RT	743		33		710
–DR1–	10 + 50.00	11 + 69.25	LT & RT	3		129	126	
–DR2–	10 + 30.00	10 + 83.47	LT & RT	65				65
–DR3–	10 + 18.27	11 + 42.00	LT & RT	32		2		30
TOTAL				1028		509	286	805
LOSS DUE TO CLEARING AND GRUBBING								
WASTE IN LIEU OF BORROW							–286	–286
PROJECT TOTAL				1028		509		519
ESTIMATE 5% FOR TOPSOIL ON BORROW PITS								
GRAND TOTAL				1,028		509		519
SAY				1,040		520		530

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing will be paid for at the contract lump sum price for "Grading."

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	15 + 29	19 + 82	LT	99
			TOTAL:	100
			SAY:	100

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS IV R.C. PIPE (UNLESS NOTED OTHERWISE) SIZE	CLASS IV R.C. PIPE (UNLESS NOTED OTHERWISE) THICKNESS OR GAUGE	C.S. PIPE SIZE	C.S. PIPE THICKNESS OR GAUGE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	ENDWALLS CU. YDS. C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0')	LIN. FT. A (5.0' THRU 10.0')	LIN. FT. B (10.0' AND ABOVE)	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	D.I. STD. 840.15 OR STD. 840.14	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	TRAFFIC BEARING G.D.I. STD. 840.35	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.20	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
–L– STA. 15 + 04	RT	0401	0402		2269.4′	2268.7′	0.02		46																									15′	
–L– STA. 16 + 54	RT	0404	0403	2274.9′	2271.2′	2268.0′	0.09	44									1							1		1									
–L– STA. 18 + 18	LT	0406	0405	2282.6′	2278.7′	2277.5′	0.02		60								1				1	1												37′	
–L– STA. 19 + 50	LT																																	15′	
–L– STA. 20 + 14	LT	0408	0407		2295.3′	2294.0′	0.03			40																									
TOTAL								44′	46′	40′							2				1	1		1		1									

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

* W MEASURED FROM "N" AT THE BEGINNING OF THE ANCHOR TO "N" AT THE END OF THE ANCHOR.
"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVED	LENGTH DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W* APPROACH END	W* TRAILING END	ANCHORS XI MOD	B–77	GREU TL–2	M–350	TYPE III	CAT–1	VI MOD	BIC	AT–1	IMPACT ATTENUATOR TYPE 350 EA	IMPACT ATTENUATOR TYPE 350 G	IMPACT ATTENUATOR TYPE 350 NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
–L–	15 + 93.56	16 + 62.30	LT	68.75				16 + 62.30	5.4	8.4		25		0.5			1		1											
–L–	16 + 23.85	16 + 80.10	RT	56.25			16 + 80.10		5.4	8.4	25		0.5				1		1											
–L–	17 + 34.90	17 + 80.93	LT	37.50	18.75		17 + 34.90		5.6 – 6.9	9.9									1				1							
–L–	17 + 53.61	18 + 12.34	RT	43.75	12.50			17 + 53.61	4.4 – 4.8	7.8		25		0.5			1		1											
		TOTAL:		206.25	31.25												3 EA		4 EA				1 EA							
		TOTAL ANCHOR LENGTH:		156.25													75.00		75.00				6.25							
		TOTAL GUARDRAIL LENGTH:		50.00	31.25																									
		SAY:		50.00 LF	31.25 LF		ADDITIONAL GUARDRAIL POSTS: 5 EA																								

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL NO.	SHEET NO.	PROPERTY OWNER NAME	AREA TAKEN			
			ROW (SF)	PUE (SF)	PDE (SF)	TCE (SF)
1	4	GEORGE MOSES	100	897	–	–
2	4 & 5	UNITED STATES FOREST SERVICE	931	1054	–	–
3	4 & 5	TIMOTHY PAUL MOSES	33305	9224	533	5235

6/2/99

8/14/2023
R:\Roadway\Proj\SHT\17BP14R158_rdy_psh03P-1.dgn

DocuSign Envelope ID: E0A57DC3-D89D-48C2-A795-AB8B52519DAB

PROJECT REFERENCE NO.	SHEET NO.
B-6029	4

RW SHEET NO.

ROADWAY DESIGN ENGINEER — 11/16/2023 — SEAL 039234
HYDRAULICS ENGINEER — 11/16/2023 — SEAL 038053

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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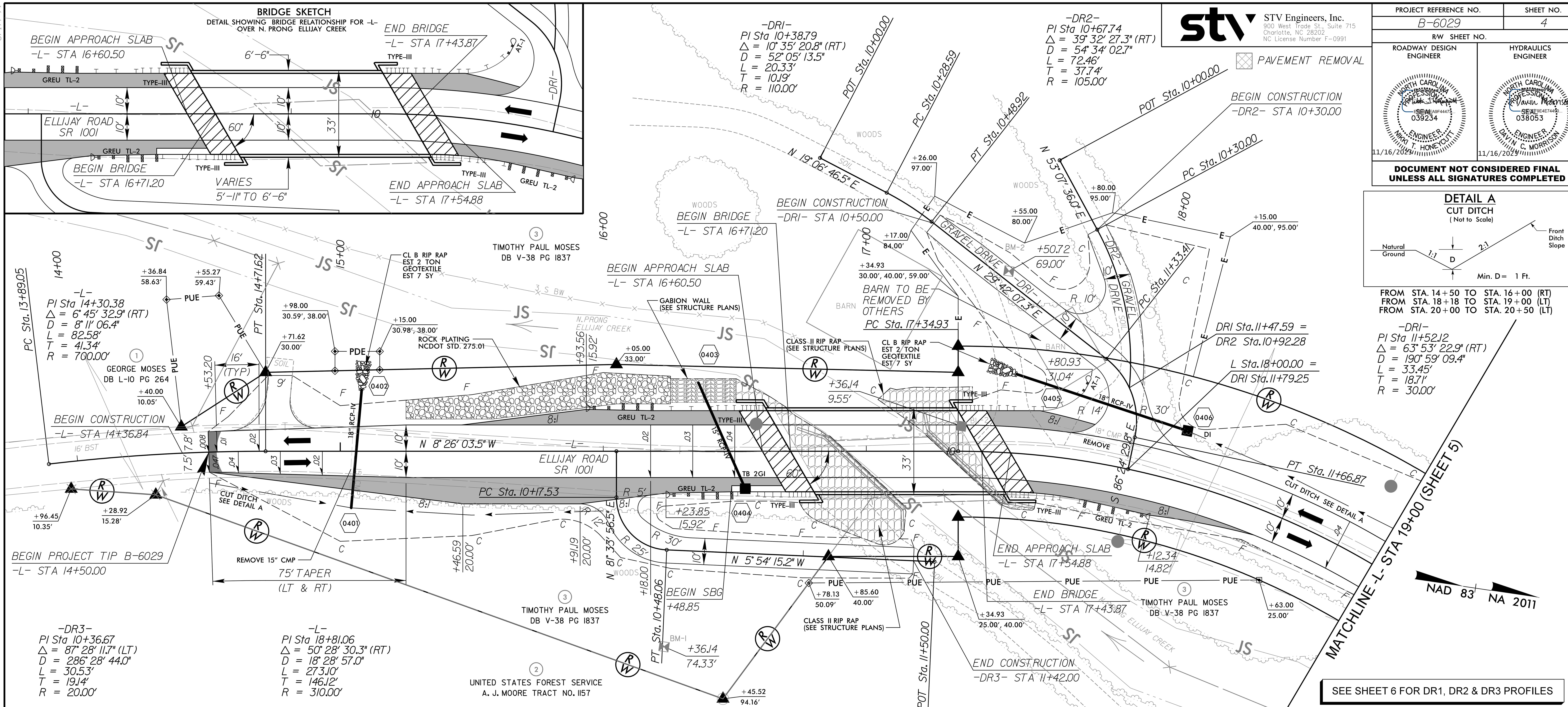
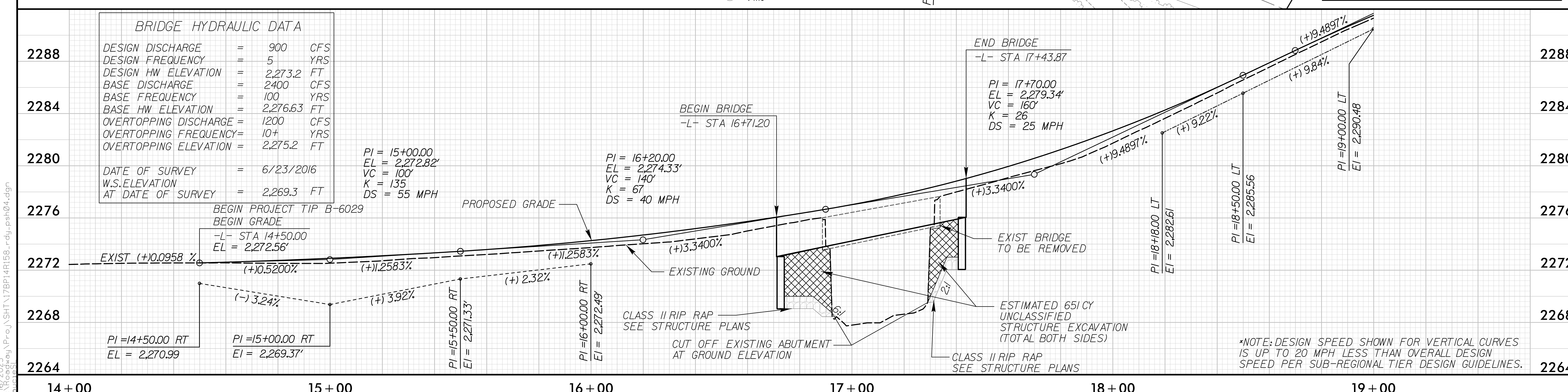
Charlotte, NC 28202
NC License Number F-0991



BRIDGE SKETCH
DETAIL SHOWING BRIDGE RELATIONSHIP FOR -L- OVER N. PRONG ELLIJAY CREEK
BEGIN APPROACH SLAB -L- STA 16+60.50
END BRIDGE -L- STA 17+43.87
BEGIN BRIDGE -L- STA 16+71.20
END APPROACH SLAB -L- STA 17+54.88
VARIES 5'-11" TO 6'-6"
ELLIJAY ROAD SR 1001
PAVEMENT REMOVAL
DETAIL A
CUT DITCH
(Not to Scale)
Min. D= 1 Ft.
FROM STA. 14+50 TO STA. 16+00 (RT)
FROM STA. 18+18 TO STA. 19+00 (LT)
FROM STA. 20+00 TO STA. 20+50 (LT)
-DR1- PI Sta 10+38.79 Δ = 10° 35' 20.8" (RT) D = 52° 05' 13.5" L = 20.33' T = 10.19' R = 110.00'
-DR2- PI Sta 10+67.74 Δ = 39° 32' 27.3" (RT) D = 54° 34' 02.7" L = 72.46' T = 37.74' R = 105.00'
-DR1- PI Sta 11+52.12 Δ = 63° 53' 22.9" (RT) D = 190° 59' 09.4" L = 33.45' T = 18.71' R = 30.00'
-L- PI Sta 14+30.38 Δ = 6° 45' 32.9" (RT) D = 8° 11' 06.4" L = 82.58' T = 41.34' R = 700.00'
-DR3- PI Sta 10+36.67 Δ = 87° 28' 11.7" (LT) D = 286° 28' 44.0" L = 30.53' T = 19.14' R = 20.00'
-L- PI Sta 18+81.06 Δ = 50° 28' 30.3" (RT) D = 18° 28' 57.0" L = 273.10' T = 146.12' R = 310.00'
BEGIN CONSTRUCTION -L- STA 14+36.84
BEGIN PROJECT TIP B-6029 -L- STA 14+50.00
BEGIN CONSTRUCTION -DR1- STA 10+50.00
BEGIN CONSTRUCTION -DR2- STA 10+30.00
END CONSTRUCTION -DR3- STA 11+42.00
DRI Sta. 11+47.59 = DR2 Sta. 10+92.28
L Sta. 18+00.00 = DRI Sta. 11+79.25
GEORGE MOSES DB L-10 PG 264
TIMOTHY PAUL MOSES DB V-38 PG 1837
UNITED STATES FOREST SERVICE A. J. MOORE TRACT NO. 1157
BARN TO BE REMOVED BY OTHERS
GABION WALL (SEE STRUCTURE PLANS)
CLASS II RIP RAP (SEE STRUCTURE PLANS)
ROCK PLATING NCDOT STD. 275.01
REMOVE 15" CMP
75' TAPER (LT & RT)
N 8° 26' 03.5" W
N 5° 54' 15.2" W
MATCHLINE -L- STA 19+00 (SHEET 5)
NAD 83 NA 2011
SEE SHEET 6 FOR DR1, DR2 & DR3 PROFILES



PI = 15+00.00 EL = 2,272.82' VC = 100' K = 135 DS = 55 MPH
PI = 16+20.00 EL = 2,274.33' VC = 140' K = 67 DS = 40 MPH
PI = 17+70.00 EL = 2,279.34' VC = 160' K = 26 DS = 25 MPH
BEGIN PROJECT TIP B-6029
BEGIN GRADE -L- STA 14+50.00 EL = 2,272.56'
BEGIN BRIDGE -L- STA 16+71.20
END BRIDGE -L- STA 17+43.87
PROPOSED GRADE
EXISTING GROUND
EXIST BRIDGE TO BE REMOVED
CLASS II RIP RAP SEE STRUCTURE PLANS
CUT OFF EXISTING ABUTMENT AT GROUND ELEVATION
ESTIMATED 651 CY UNCLASSIFIED STRUCTURE EXCAVATION (TOTAL BOTH SIDES)
PI = 14+50.00 RT EL = 2,270.99
PI = 15+00.00 RT EI = 2,269.37'
*NOTE: DESIGN SPEED SHOWN FOR VERTICAL CURVES IS UP TO 20 MPH LESS THAN OVERALL DESIGN SPEED PER SUB-REGIONAL TIER DESIGN GUIDELINES.
14+00 15+00 16+00 17+00 18+00 19+00

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	900	CFS
DESIGN FREQUENCY	=	5	YRS
DESIGN HW ELEVATION	=	2,273.2	FT
BASE DISCHARGE	=	2400	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	2,276.63	FT
OVERTOPPING DISCHARGE	=	1200	CFS
OVERTOPPING FREQUENCY	=	10+	YRS
OVERTOPPING ELEVATION	=	2,275.2	FT
DATE OF SURVEY	=	6/23/2016	
W.S. ELEVATION AT DATE OF SURVEY	=	2,269.3	FT

8/17/99

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
B-6029	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039234 ENGINEER NIKKI T. HONEYCUTT
11/16/2023

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038053 ENGINEER DAVID C. MORRISON
11/16/2023

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NAD 83 NA 2011

-L-
PI Sta 18+81.06
△ = 50° 28' 30.3" (RT)
D = 18° 28' 57.0"
L = 273.10'
T = 146.12'
R = 310.00'

-L-
PI Sta 21+41.13
△ = 14° 36' 27.7" (RT)
D = 11° 56' 11.8"
L = 122.38'
T = 61.52'
R = 480.00'

PI Sta 23+58.77
△ = 43° 47' 15.7" (LT)
D = 27° 17' 01.3"
L = 160.49'
T = 84.39'
R = 210.00'

MATCHLINE -L- STA 19+00 (SHEET 4)

PT Sta. 20+08.03

PC Sta. 20+79.60

PT Sta. 22+01.98

PC Sta. 22+74.38

POT Sta. 24+34.87

POT Sta. 24+95.25

+97.53
35.66'

+08.03
40.00'

+31.00
32.66'

+47.71
23.48'

+55.00
25.00'

+70.00
10.02'

+70.00
9.98'

+30.00
54.00'

+26.00
10.00'

+35.82
13.50'

+90.00
25.00', 40.00'

+50.00
25.00'

+19.00
25.00', 40.00'

+40.80

REMOVE 15" CMP

15" CMP

11' GRAVEL DRIVE

R 5'

CUT DITCH SEE DETAIL A

ELLIJAY ROAD
SR 1001

10'

N 42° 02' 26.9" E

24" RCP

18" CMP

16' BST

16' (TYP)

CL B RIP RAP
EST 3 TON
GEOTEXTILE
EST 11 SY

PDE

75' TAPER
(LT & RT)

END PROJECT TIP B-6029
-L- STA 20+60.00

N 56° 38' 54.5" E

N 12° 51' 38.8" E

EXISTING R/W

INV=2301.43'

INV=2300.26'

CMP

WOODS

JS

SF

BL-3

BL-4

0408

0407

0406

0405

0404

0403

0402

0401

0400

TIMOTHY PAUL MOSES
DB V-38 PG 1837

TIMOTHY PAUL MOSES
DB V-38 PG 1837

DETAIL A
CUT DITCH
(Not to Scale)

Natural Ground
1:1
D
2:1
Front Ditch Slope
Min. D = 1 Ft.

FROM STA. 14+50 TO STA. 16+00 (RT)
FROM STA. 18+00 TO STA. 19+00 (LT)
FROM STA. 20+00 TO STA. 20+50 (LT)

END CONSTRUCTION
-L- STA 23+30.00

PI = 20+05.00
EL = 2,298.80'
VC = 90'
K = 31
DS = 35 MPH

PI = 19+15.00
EL = 2,293.10'
VC = 90'
K = 29
DS = 30 MPH

END PROJECT TIP B-6029
END GRADE
-L- STA 20+60.00
EL = 2,300.71'

PROPOSED GRADE

EXISTING GROUND

(+)9.4897%
(+)6.3333%
(+)3.4727%
EXIST (+)3.8902 %
(-) 10.95%
(+) 10.96%

PI =20+00.00 LT
EI = 2,296.73

PI =20+13.51 LT
EI = 2,295.25

PI =20+50.00 LT
EI = 2,299.25

*NOTE: DESIGN SPEED SHOWN FOR VERTICAL CURVES IS UP TO 20 MPH LESS THAN OVERALL DESIGN SPEED PER SUB-REGIONAL TIER DESIGN GUIDELINES.

2316
2312
2308
2304
2300
2296
2292
2288
2284
2280

19+00
20+00
21+00

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Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
B-6029	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI T. HONEYCUTT 11/16/2023	NORTH CAROLINA PROFESSIONAL SEAL 038053 ENGINEER DAVIN C. MORRISON 11/16/2023

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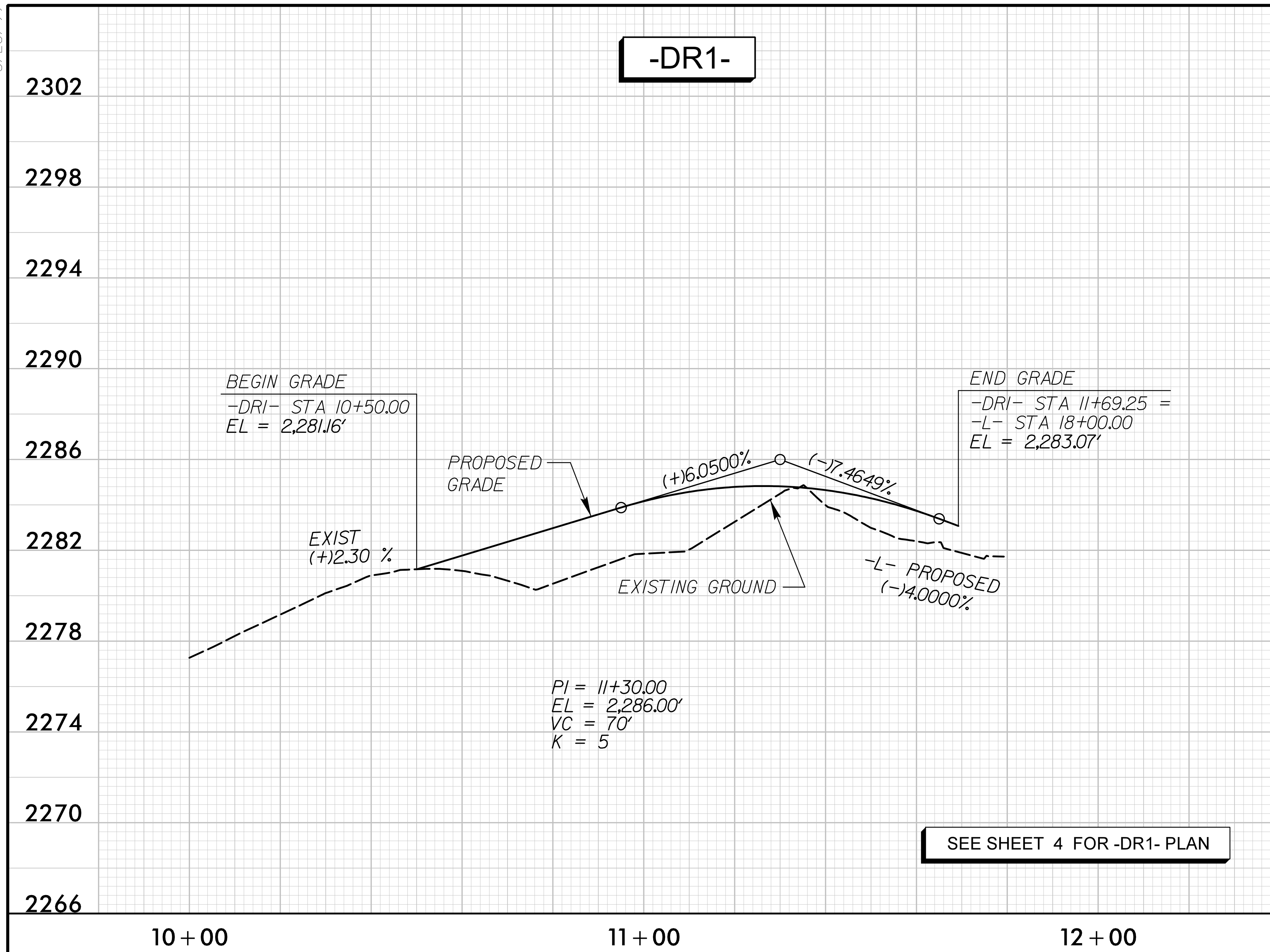
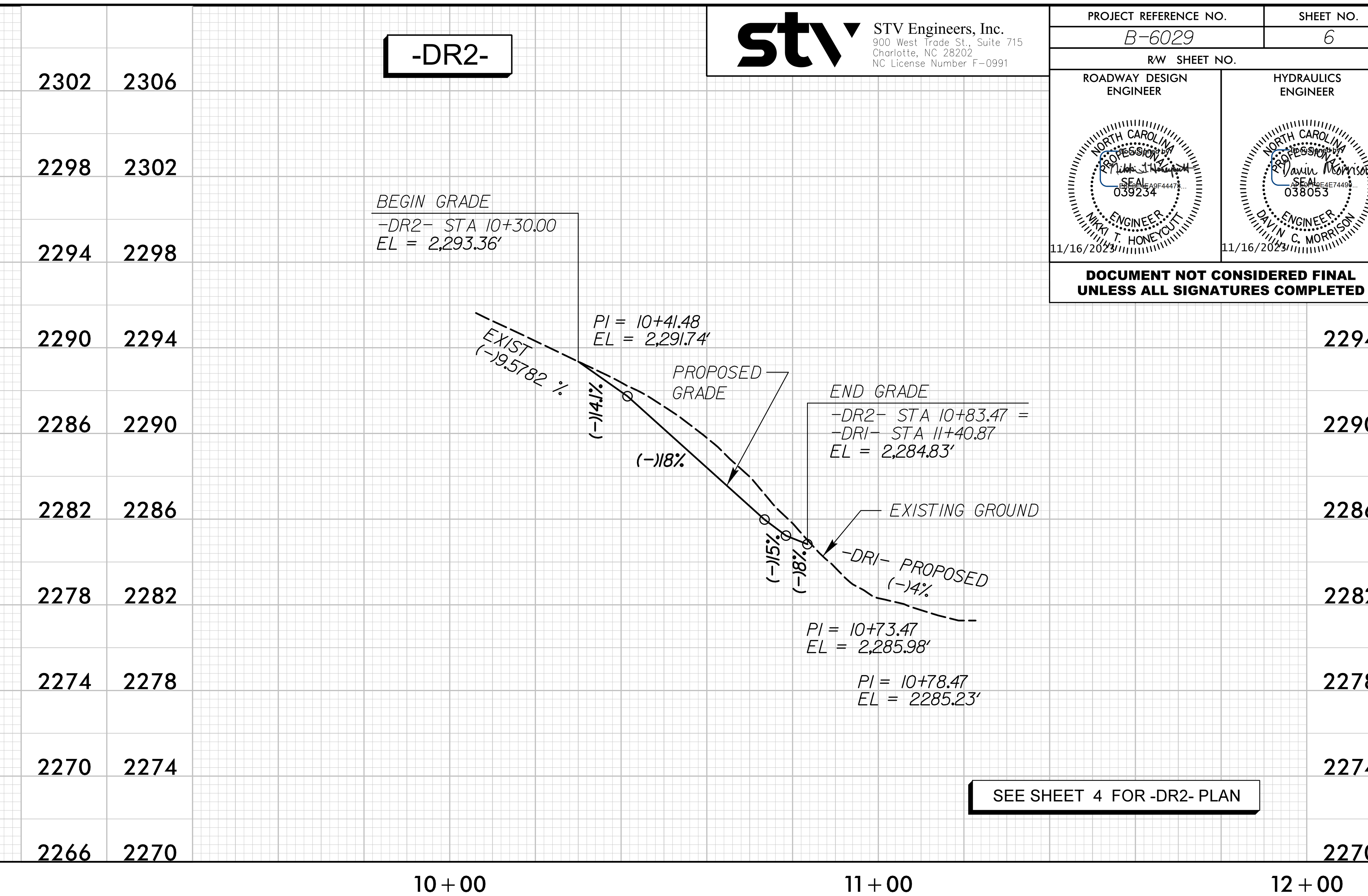
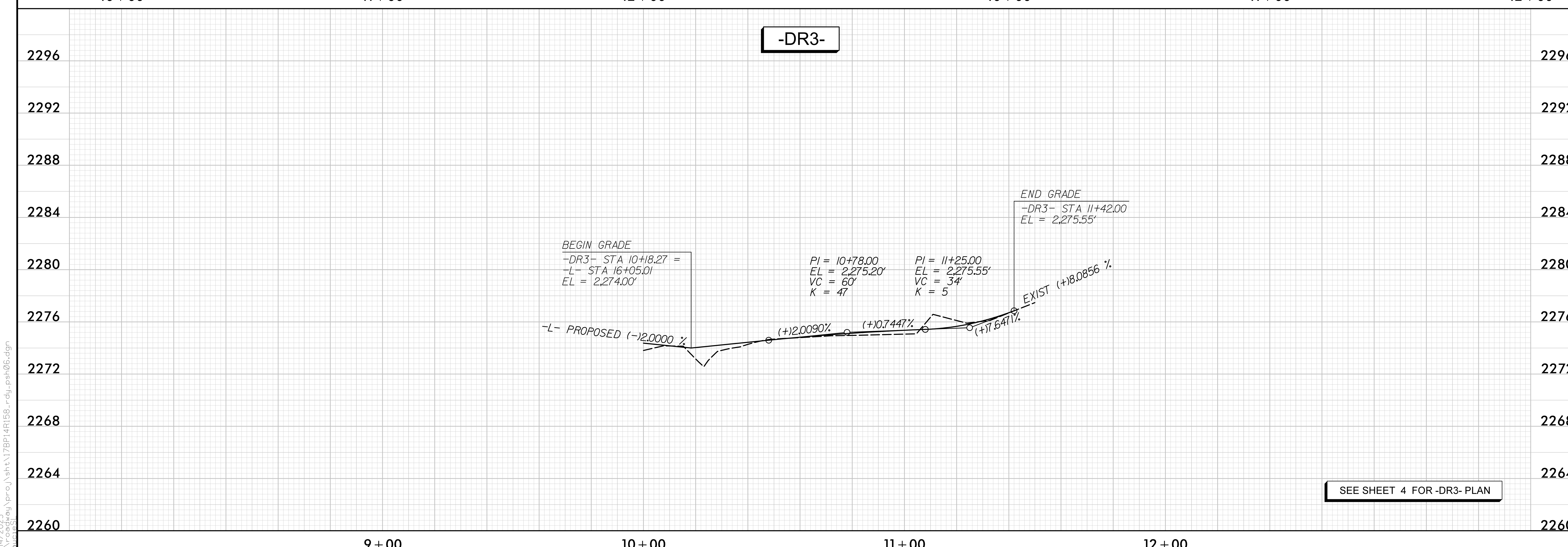






STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6029	RW01	8

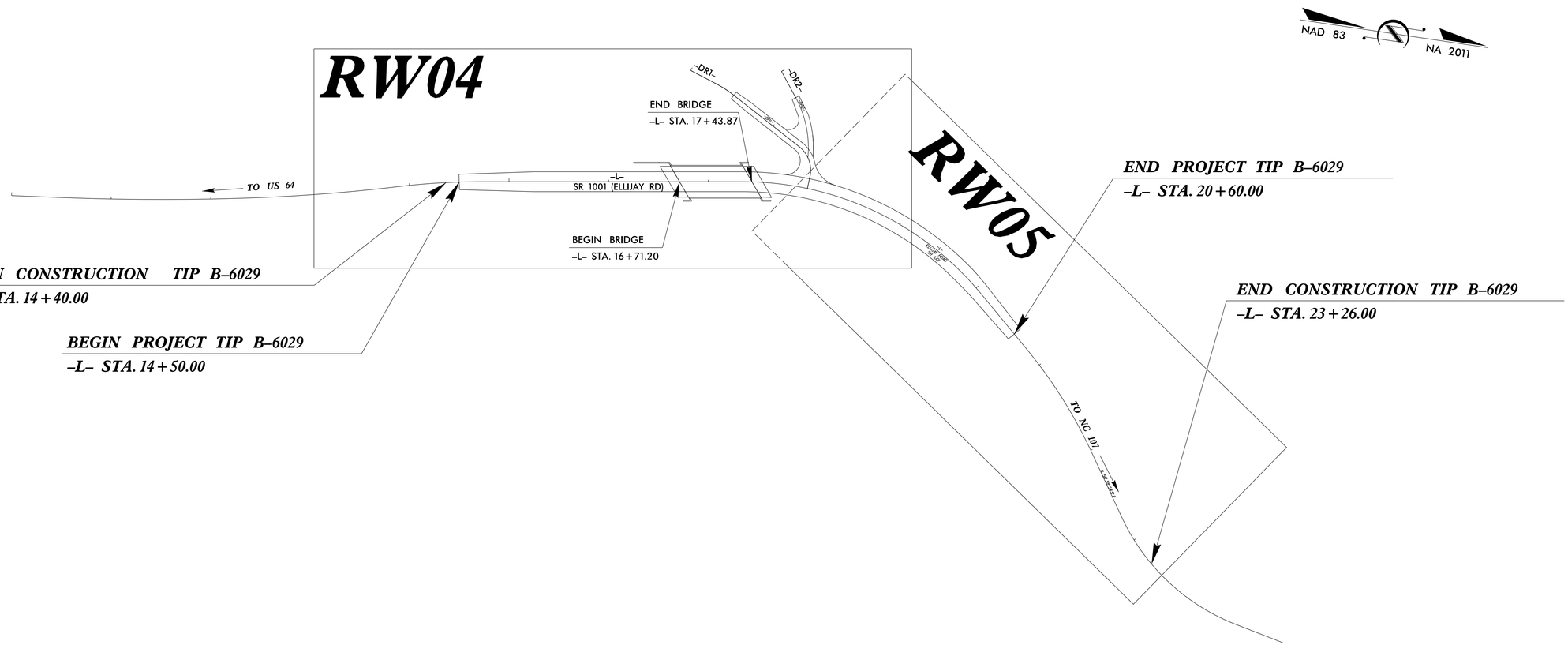
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

MACON COUNTY

LOCATION: BRIDGE #009 OVER NORTH PRONG ELLIJAY CREEK ON SR 1001 (ELLIJAY RD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, & STRUCTURE



GRAPHIC SCALE

50 25 0 50 100

PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT "GPS-100"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 554,752.5450(ft) EASTING: 724,978.9180(ft)
ELEVATION: 2,246.890(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.9997697459
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"GPS-100" TO -L- STATION 14+50.00 IS
N 15^23'14.35" E 1900.85(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

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	*LETTING DATE:*
09/25/2017	*01/23/2024*

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4727 LAND SURVEYOR BRIAN A. BARWATT

DocuSigned by: Brian Barwatt A9355FE84ABAACE... 11/20/2023

SIGNATURE: *DATE:*

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

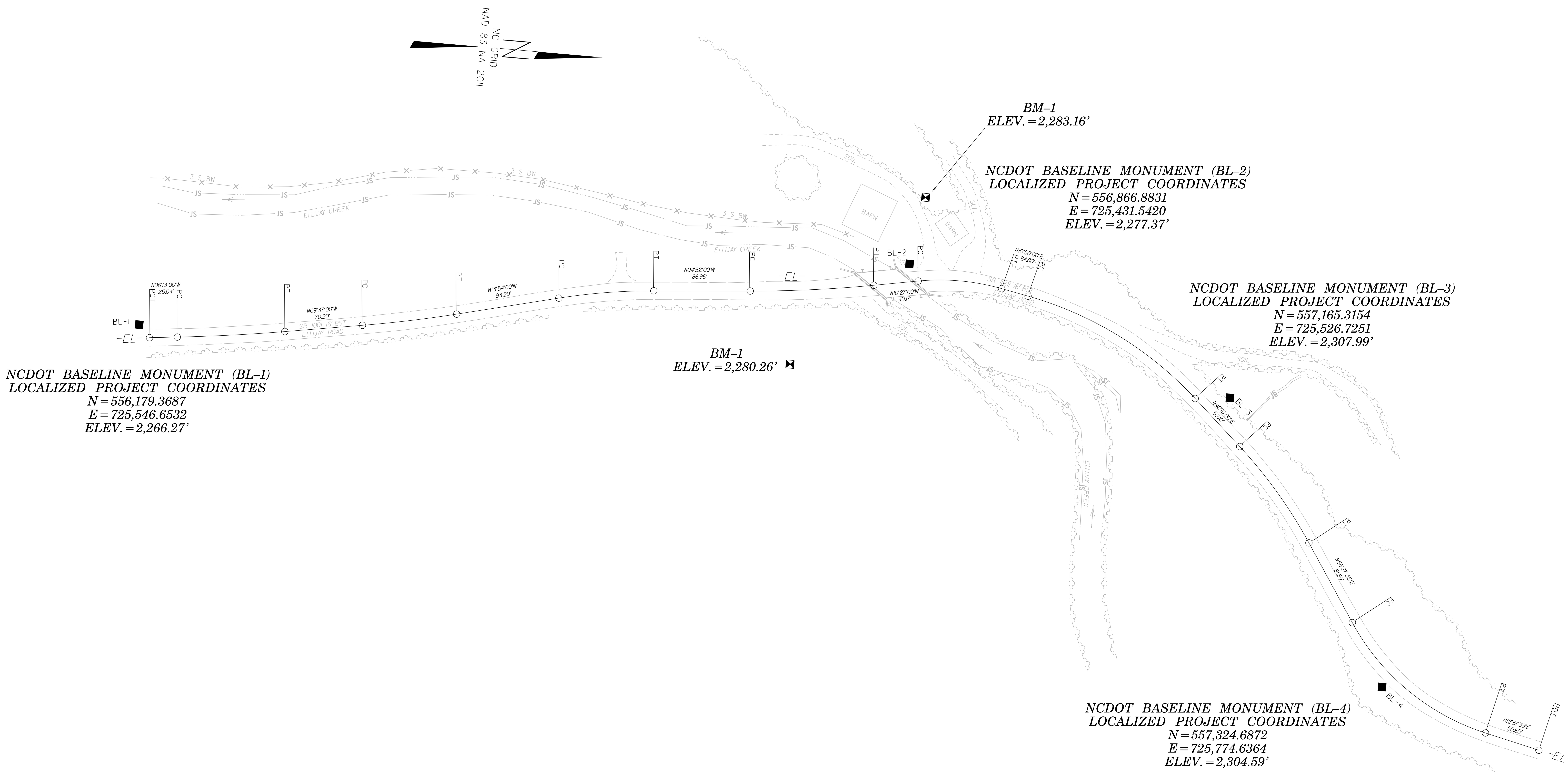
TIP PROJECT: B-6029

PROJECT REFERENCE NO.	SHEET NO.
B-6029	RW02C-1
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

SEE SHEET RW02C-3 FOR FURTHER ALIGNMENT DETAILS



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

2. 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.

REVISIONS

6/2/99

19-JUL-2021 16:51
C:\Sylva\Bridge\550009\Survey Control\550009 From Bill\To Send\550009_ls_rw02c-1.dgn
babarwatt AT LS-317902

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL

POINT	DESC.	NORTH	EAST	ELEVATION
1	BL-1	556179.3687	725546.6532	2266.27
2	BL-2	556866.8831	725431.5420	2277.37
3	BL-3	557165.3154	725526.7251	2307.99
4	BL-4	557324.6872	725774.6364	2304.59

BM1 ELEVATION = 2280.26
N 556767 E 725531
BL STATION 10+82.46 81.75 RIGHT
R/R SPIKE IN BASE OF 20" WALNUT

BM2 ELEVATION = 2283.16
N 556876 E 725371
BL STATION 11+97.08 61.66 LEFT
R/R SPIKE SET IN BASE OF 18" WALNUT

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

2. 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.

REVISIONS

6/2/99

19-JUL-2021 16:54
C:\Sylva\Bridge\550009\Survey Control\550009 From Bill\To Send\550009_ls_rw02c-2.dgn
babarwatt AT LS-317902

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	556189.694	725557.523							
LINE			N 06°13'00.0" W	25.04					
PC	556214.590	725554.811							
CURVE			N 07°55'00.0" W	97.13	03°24'00.0"(LT)	03°30'00.0"	97.14	48.59	1637.02
PT	556310.793	725541.434							
LINE			N 09°37'00.0" W	70.20					
PC	556380.009	725529.706							
CURVE			N 11°45'30.0" W	85.65	04°17'00.0"(LT)	05°00'00.0"	85.67	42.85	1145.92
PT	556463.858	725512.253							
LINE			N 13°54'00.0" W	93.29					
PC	556554.412	725489.843							
CURVE			N 09°23'00.0" W	85.94	09°02'00.0"(RT)	10°30'00.0"	86.03	43.11	545.67
PT	556639.205	725475.831							
LINE			N 04°52'00.0" W	86.96					
PC	556725.855	725468.453							
CURVE			N 07°39'30.0" W	111.62	05°35'00.0"(LT)	05°00'00.0"	111.67	55.88	1145.92
PT	556836.482	725453.578							
LINE			N 10°27'00.0" W	40.17					
PC	556875.989	725446.291							
CURVE			N 00°11'30.0" E	75.58	21°17'00.0"(RT)	28°00'00.0"	76.01	38.45	204.63
PT	556951.564	725446.544							
LINE			N 10°50'00.0" E	24.80					
PC	556975.922	725451.205							
CURVE			N 26°30'00.0" E	176.82	31°20'00.0"(RT)	17°30'00.0"	179.05	91.82	327.40
PT	557134.169	725530.104							
LINE			N 42°10'00.0" E	59.10					
PC	557177.972	725569.776							
CURVE			N 49°18'47.4" E	106.99	14°17'34.8"(RT)	13°19'28.6"	107.27	53.91	430.00
PT	557247.721	725650.904							
LINE			N 56°27'34.8" E	81.89					
PC	557292.968	725719.161							
CURVE			N 34°39'36.8" E	155.97	43°35'56.0"(LT)	27°17'01.3"	159.80	83.99	210.00
PT	557421.260	725807.863							
LINE			N 12°51'38.8" E	50.65					
POT	557470.641	725819.137							

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

2. 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.

REVISIONS

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
B-6029	RW02D-1
Location and Surveys	

PROPOSED ALIGNMENT CONTROL SHEET

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	556142.8532	725562.6257
PC	10+50.00	556192.5592	725557.2113
PCC	12+35.35	556375.9510	725530.5915
PRC	13+89.05	556525.8099	725496.6891
PT	14+71.62	556606.5925	725479.7924
PC	17+34.93	556867.0536	725441.1715
PT	20+08.03	557120.1173	725517.5916
PC	20+79.60	557173.2734	725565.5221
PT	22+01.98	557252.7872	725658.1113
PC	22+74.38	557292.5882	725718.5840
PT	24+34.87	557421.2616	725807.8633
POT	24+85.52	557470.6413	725819.1372

DR1

TYPE	STATION	NORTH	EAST
POT	10+00.00	556798.7484	725338.5166
PC	10+28.59	556825.7636	725347.8782
PT	10+48.92	556844.2500	725356.2670
PC	11+33.41	556917.6424	725398.1327
PT	11+66.87	556932.7188	725426.0705
POT	11+79.25	556931.9432	725438.4276

DR2

TYPE	STATION	NORTH	EAST
POT	10+00.00	556889.0014	725326.0422
PC	10+30.00	556907.0028	725350.0411
PT	11+02.46	556927.8928	725417.9330
POT	11+22.71	556926.9507	725438.1547

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 INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
B-6029	RW03E-1

Location and Surveys

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4727 LAND SURVEYOR BRIAN A. BARWATT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RIGHT OF WAY CONTROL SHEET AND PERMANENT EASEMENT

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+40.00	-10.05	556573.5033	725475.2668
L	14+71.62	-30.00	556602.1922	725450.1168
L	16+05.00	-33.00	556733.6855	725427.5863
L	17+34.93	-30.00	556862.6533	725411.4959
L	17+34.93	-40.00	556861.1866	725401.6041
L	20+08.03	-40.00	557146.9037	725487.8849
L	20+55.00	-25.00	557171.7423	725530.4791
L	20+70.00	-10.02	557172.8523	725551.6475
L	20+70.00	9.98	557159.4591	725566.5009
L	20+50.00	25.00	557134.5459	725564.2642
L	20+08.03	25.00	557103.3759	725536.1583
L	17+34.93	25.00	556870.7204	725465.9011
L	17+34.93	40.00	556872.9206	725480.7389
L	16+85.60	40.00	556824.1196	725487.9750
L	16+45.52	94.16	556792.4167	725547.4249
L	14+29.04	13.75	556567.5248	725500.7715
L	14+05.59	10.40	556544.3161	725502.6430

PDE

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+98.00	-30.59	556628.1958	725445.6613
L	14+98.00	-38.00	556627.1094	725438.3347
L	15+15.00	-38.00	556643.9255	725435.8412
L	15+15.00	-30.98	556644.9558	725442.7896
L	20+19.00	25.00	557111.5232	725543.5048
L	20+19.00	40.00	557101.4783	725554.6448
L	19+90.00	40.00	557081.3696	725537.1275
L	19+90.00	25.00	557090.7499	725525.4224

PUE

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+36.84	-58.63	556560.8528	725428.2547
L	14+55.27	-59.43	556580.3531	725423.8118
L	20+31.00	-32.66	557159.0508	725508.7152
L	23+30.00	-54.00	557364.6919	725720.0185
L	23+26.00	-10.00	557332.7218	725750.4373
L	18+63.00	25.00	556987.4181	725472.8356
L	16+78.13	50.09	556818.2114	725499.0542

I, Brian Barwatt, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further 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.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 19th day of July, 2021.

DocuSigned by: Brian Barwatt
A9355FE84A8A4CE

Professional Land Surveyor — PLS # L-4727 — Seal

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.

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-6029	RW04

Location and Surveys

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4727 LAND SURVEYOR BRIAN A. BARWATT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

6/2/99

REVISIONS

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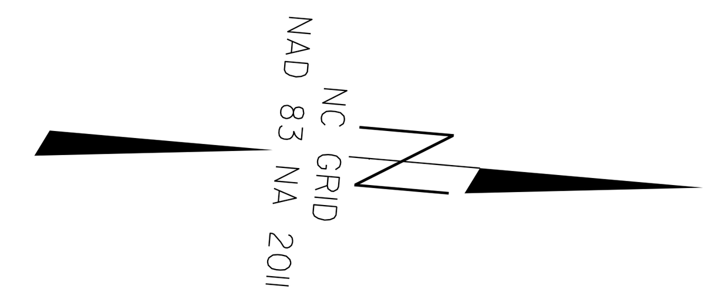
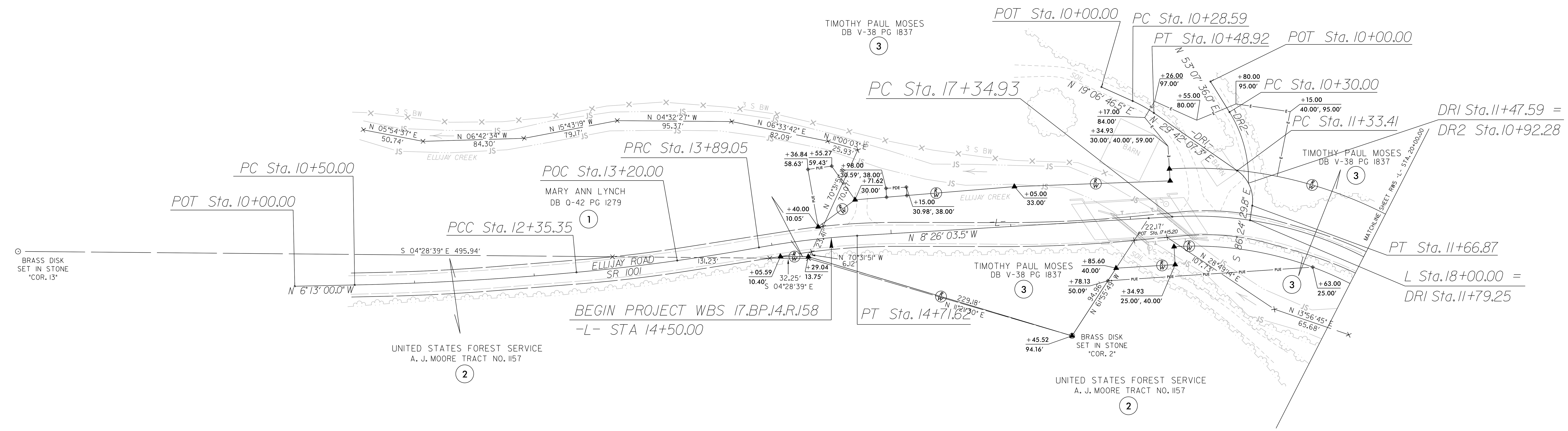
Professional Land Surveyor — PLS # L-4727 — Seal





-L-	-L-	-L-	-L-	-DR1-	-DR1-	-DR2-
PI Sta 11+42.72	PI Sta 13+12.25	PI Sta 14+30.38	PI Sta 18+81.06	PI Sta 10+38.79	PI Sta 11+52.12	PI Sta 10+67.74
Δ = 4°05' 04.5" (LT)	Δ = 4°53' 31.9" (LT)	Δ = 6°45' 32.9" (RT)	Δ = 50°28' 30.3" (RT)	Δ = 10°35' 20.8" (RT)	Δ = 63°53' 22.9" (RT)	Δ = 39°32' 27.3" (RT)
D = 2°12' 13.3"	D = 3°10' 59.2"	D = 8°11' 06.4"	D = 18°28' 57.0"	D = 52°05' 13.5"	D = 190°59' 09.4"	D = 54°34' 02.7"
L = 185.35'	L = 153.69'	L = 82.58'	L = 273.10'	L = 20.33'	L = 33.45'	L = 72.46'
T = 92.72'	T = 76.89'	T = 41.34'	T = 146.12'	T = 10.19'	T = 18.71'	T = 37.74'
R = 2,600.00'	R = 1,800.00'	R = 700.00'	R = 310.00'	R = 110.00'	R = 30.00'	R = 105.00'

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

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PROJECT REFERENCE NO.	SHEET NO.
B-6029	RW05

Location and Surveys

PROJECT SURVEYOR

SEAL L-4727 NORTH CAROLINA PROFESSIONAL LAND SURVEYOR BRIAN A. BARWATT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

6/2/99

REVISIONS

NC GRID NAD 83 NA 2011

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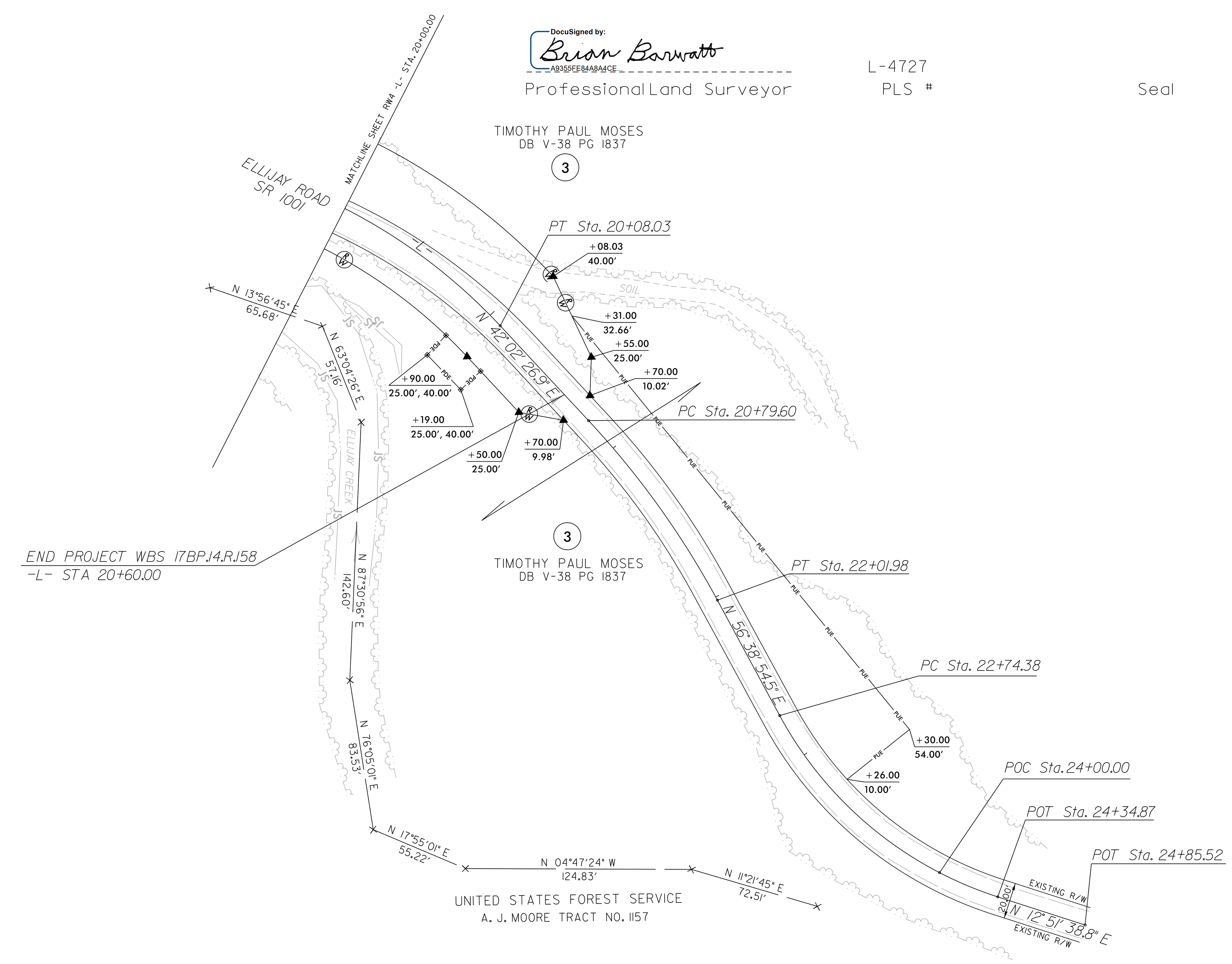
Professional Land Surveyor — PLS # L-4727 — Seal



PI Sta 18+81.06	PI Sta 21+41.13	PI Sta 23+58.77
Δ = 50° 28' 30.3" (RT)	Δ = 14° 36' 27.7" (RT)	Δ = 43° 47' 15.7" (LT)
D = 18° 28' 57.0"	D = 11° 56' 11.8"	D = 27° 17' 01.3"
L = 273.10'	L = 122.38'	L = 160.49'
T = 146.12'	T = 61.52'	T = 84.39'
R = 310.00'	R = 480.00'	R = 210.00'

NOTES:

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bebarwatt AT LS-330173L

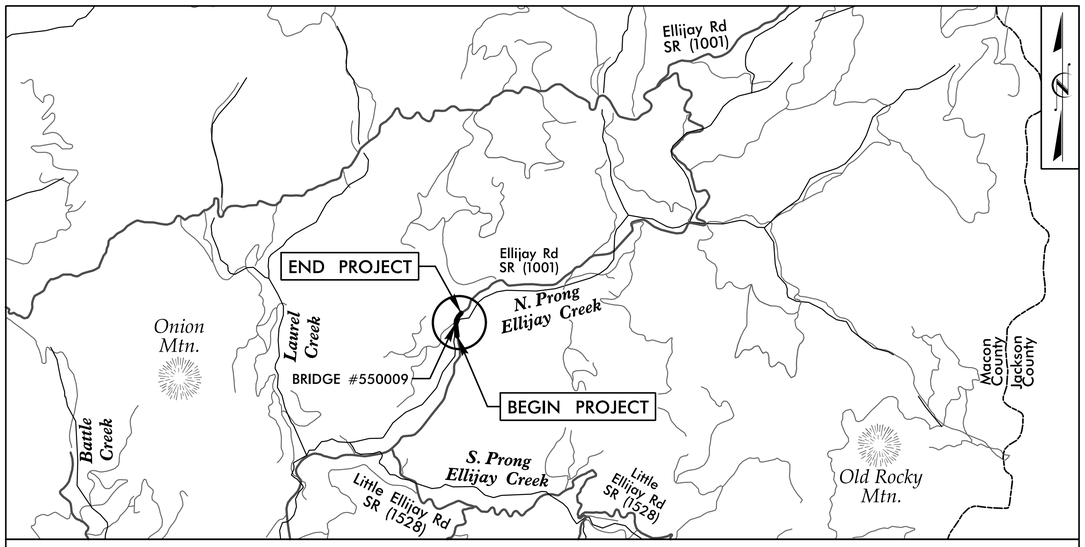
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MACON COUNTY

LOCATION: BRIDGE #009 OVER NORTH PRONG ELLIJAY CREEK ON SR 1001 (ELLIJAY RD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURES



VICINITY MAP N.T.S.

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

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) 773-2800 FAX: (919) 771-2745

JOSEPH E. HUMMER, PE *STATE TRAFFIC MANAGEMENT ENGINEER*

_____ *TRAFFIC CONTROL PROJECT ENGINEER*

_____ *TRAFFIC CONTROL PROJECT DESIGN ENGINEER*

_____ *TRAFFIC CONTROL DESIGN ENGINEER*

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

INDEX OF SHEETS

SHEET NO.
TMP-1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

NIKKI T. HONEYCUTT, PE
TRAFFIC ENGINEER

STEPHANIE M. PHILLIPS, PE
TRANSPORTATION DESIGNER

APPROVED: DocuSigned by: Nikki T. Honeycutt 11/15/2023
DATE:

NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI T. HONEYCUTT

TIP PROJECT: B-6029

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11/14/2023

PROJ. REFERENCE NO.	SHEET NO.
B-6029	TMP-1A

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

BRIDGE #550009

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 JANAUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.10	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- REMOVAL/BREAKING OF PAVEMENT
- TEMPORARY PAVEMENT
- PORTABLE BARRIER

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

EXISTING PROPOSED TEMPORARY

- PORTABLE TRAFFIC SIGNAL

TEMPORARY PAVEMENT MARKING

PAINT 4"

P1	WHITE EDGE LINE

PAINT 24"

P61	WHITE STOPBAR

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

APPROVED: DocuSigned by: Nikki T. Honeycutt — E8E3E4EA9F44473...

DATE: 11/16/2023

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI T. HONEYCUTT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

ROADWAY STANDARD DRAWINGS & LEGEND

11/14/2023
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PROJ. REFERENCE NO.	SHEET NO.
B-6029	TMP-2

STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991

BRIDGE #550009

PROJECT NOTES

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.

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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

F) 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.

G) 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 (W8-11) 350 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

H) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

I) 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.

J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

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.

L) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN OPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
SR 1001 (ELLIJAY RD) (-L-)	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.

MISCELLANEOUS

Q) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 100 FT AND 200 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

1. CONTACT MACON COUNTY EMERGENCY SERVICES AND SCHOOLS AT LEAST ONE MONTH PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR SHALL BUILD AS MUCH AS POSSIBLE AWAY FROM TRAFFIC.

MANAGEMENT STRATEGIES

PHASE I - TRAFFIC WILL BE MAINTAINED ON THE EXISTING ROAD, BUT REDUCED TO ONE LANE USING TEMPORARY SIGNALS AND PAVEMENT MARKINGS AS THE NEW ALIGNMENT IS CONSTRUCTED.

PHASE II - TRAFFIC WILL BE SHIFTED TO ONE LANE ON THE NEW ALIGNMENT USING TEMPORARY SIGNALS AND PAVEMENT MARKINGS WHILE THE REMAINDER IS CONSTRUCTED. A FLAGGING OPERATION WILL BE USED TO CONSTRUCT THE NEW TIE-INS.

PHASE III - THE TEMPORARY TRAFFIC SIGNALS WILL BE REMOVED AND TWO WAY TRAFFIC WILL BE MAINTAINED USING TEMPORARY LANE CLOSURES TO CONSTRUCT THE FINAL PAVEMENT SURFACE AND PAVEMENT MARKINGS.

APPROVED: [signature]

DATE: 11/16/2023

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039234 NIKKI T. HONEYCUTT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

11/14/2023 R:\Traffic\TrafficControl\TCP\TCP Sheets\7BP.14.R.58_TCP_SHT_2.dgn

PROJ. REFERENCE NO.	SHEET NO.
B-6029	TMP-3

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

BRIDGE #550009

PROJECT PHASING

PHASE I

STEP 1: INSTALL ADVANCED WORK ZONE WARNING SIGNS IN ACCORDANCE TO NCDOT RSD. 1101.01 SHEET 3 OF 3.

STEP 2: USING NCDOT RSD. 1101.02 SHEET 17 OF 19, INSTALL PORTABLE TRAFFIC SIGNALS, SIGNING, TEMPORARY PAVEMENT MARKINGS, TEMPORARY BARRIER, DRUMS, AND TEMPORARY SHORING NO. 1 AND NO. 2 AS SHOWN ON SHEET TMP-4. ONCE SIGNS AND DEVICES ARE IN PLACE, ACTIVATE PORTABLE TRAFFIC SIGNALS AND PLACE TRAFFIC INTO A ONE-LANE, TWO-WAY OPERATION.

STEP 3: REMOVE EXISTING LEFT SIDE BRIDGE RAIL AND SAW CUT AND REMOVE LEFT SIDE OF EXISTING BRIDGE.

STEP 4: CONSTRUCT LEFT SIDE OF BRIDGE, GUARDRAIL, AND -L- (SR 1001) FROM +/- STA. 14+50 TO 20+60, UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEET TMP-4.

PHASE II

STEP 1: USING NCDOT RSD. 1101.02 SHEET 17 OF 19, INSTALL SIGNING, TEMPORARY PAVEMENT MARKINGS, TEMPORARY BARRIER AND DRUMS AS SHOWN ON SHEET TMP-5. ONCE SIGNS AND DEVICES ARE IN PLACE, ACTIVATE PORTABLE TRAFFIC SIGNALS AND SHIFT ONE-LANE, TWO-WAY TRAFFIC ONTO THE NEWLY CONSTRUCTED LEFT SIDE OF -L-.

STEP 2: AWAY FROM TRAFFIC REMOVE EXISTING BRIDGE, CONSTRUCT RIGHT SIDE OF BRIDGE, AND RIGHT SIDE OF -L- (SR 1001) FROM +/- STA. 14+50 TO 20+60, UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS SHOWN ON SHEET TMP-5.

PHASE III

STEP 1: USING NCDOT RSD. 1101.02 SHEET 1 OF 19, REMOVE TEMPORARY BARRIER, TEMPORARY TRAFFIC SIGNALS AND CONFLICTING TEMPORARY PAVEMENT MARKINGS.

STEP 2: USING NCDOT RSD. 1101.02 SHEET 1 OF 19, INSTALL FINAL LAYER OF SURFACE COURSE AND PAVEMENT MARKINGS ON -L-.

STEP 3: ONCE ALL CONSTRUCTION IS COMPLETE, REMOVE ALL SIGNS AND DEVICES, AND PLACE TRAFFIC IN ITS FINAL PATTERN.

APPROVED: Docusigned by: Nikki T. Honeycutt E8E3E4EA9F44473...

DATE: 11/16/2023

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI T. HONEYCUTT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL PHASING

11/14/2023
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PROJ. REFERENCE NO.	SHEET NO.
B-6029	TMP-4

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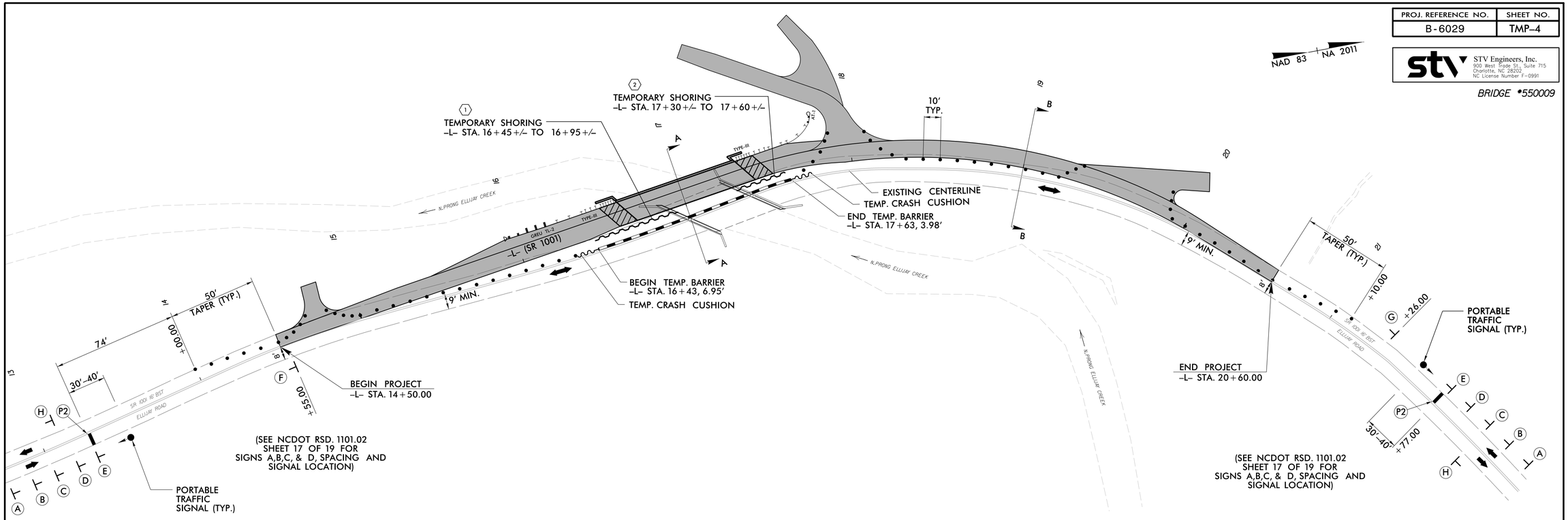
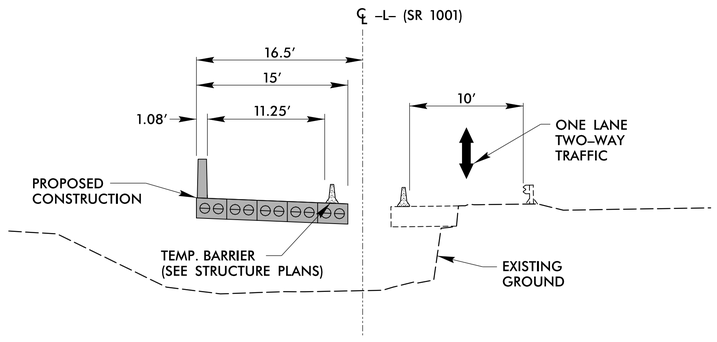
NAD 83 NA 2011

BRIDGE #550009



SCALE 1" = 30'

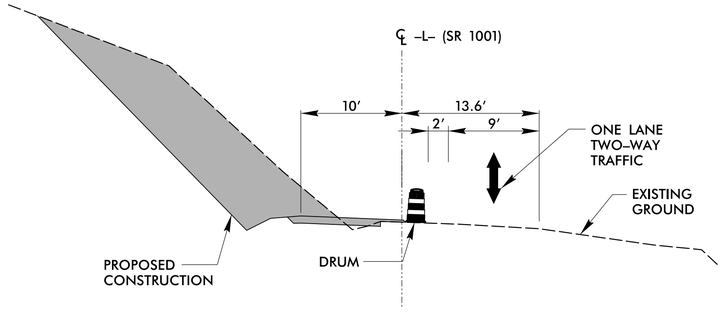
SECTION A-A



(–L–) STA. 17+00.00

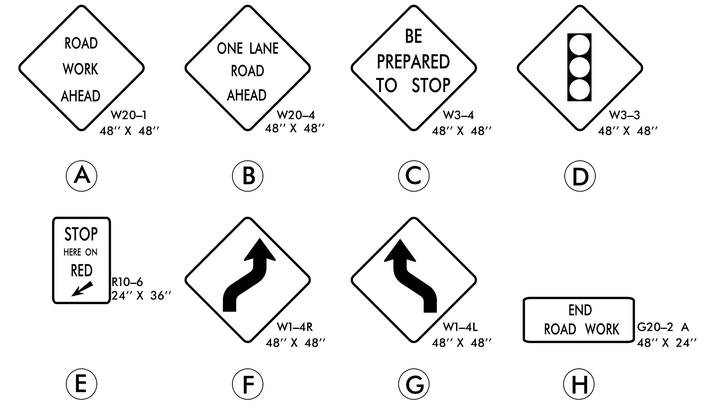
N.T.S

SECTION B-B



(–L–) STA. 19+00.00

N.T.S



APPROVED: DocuSigned by: Nikki T. Honeycutt — E8E3E4EA9F44473...

DATE: 11/16/2023

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI T. HONEYCUTT

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DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

PHASE I DETAILS

PROJ. REFERENCE NO.	SHEET NO.
B-6029	TMP-5

STV Engineers, Inc.
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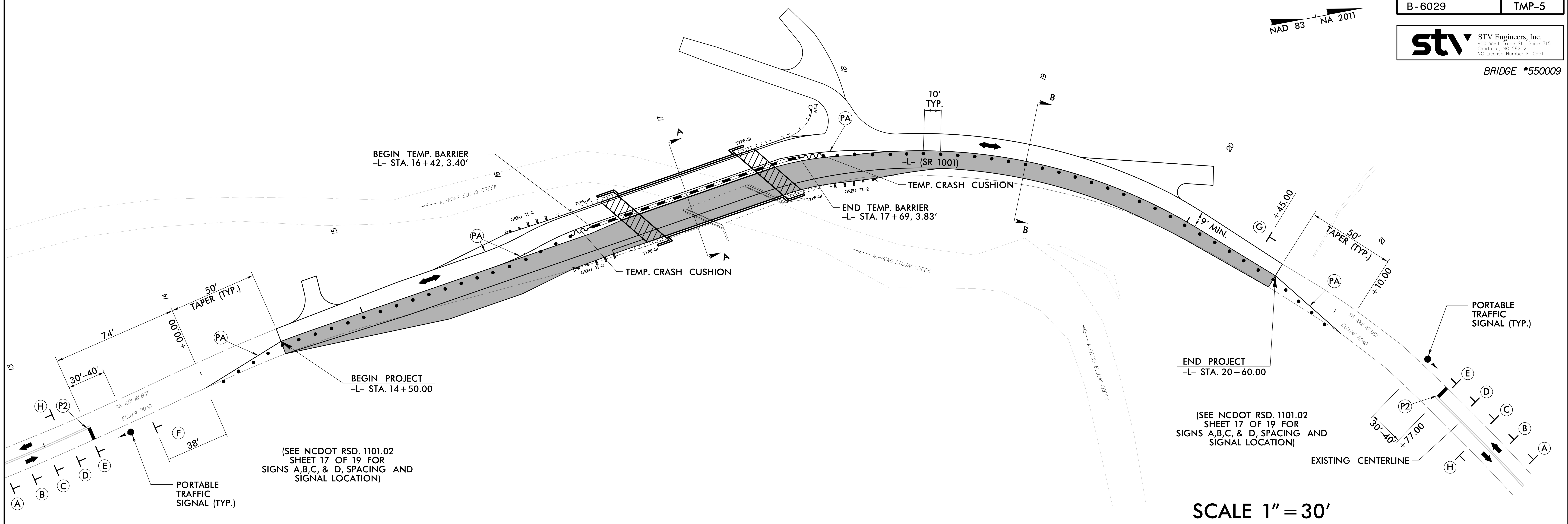
Charlotte, NC 28202
NC License Number F-0991

BRIDGE #550009



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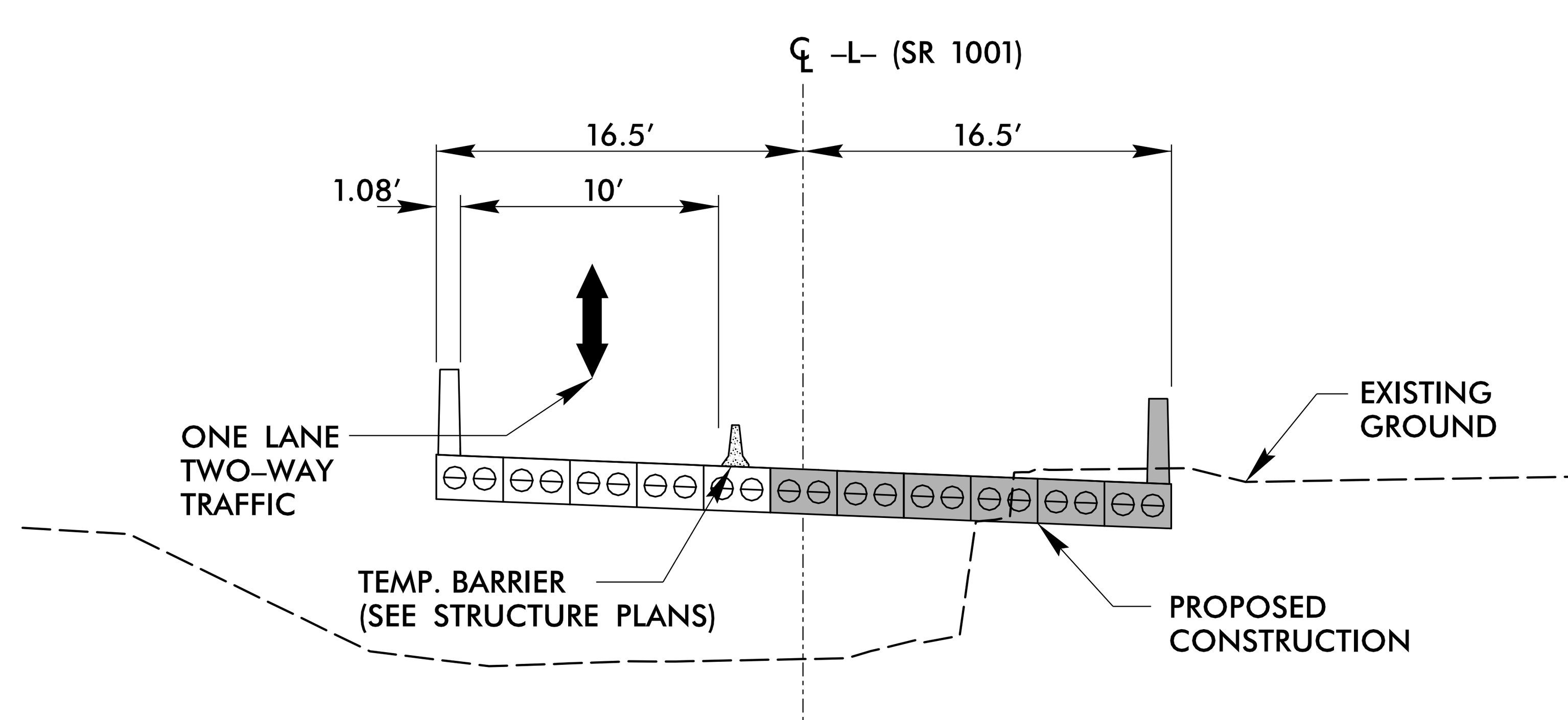

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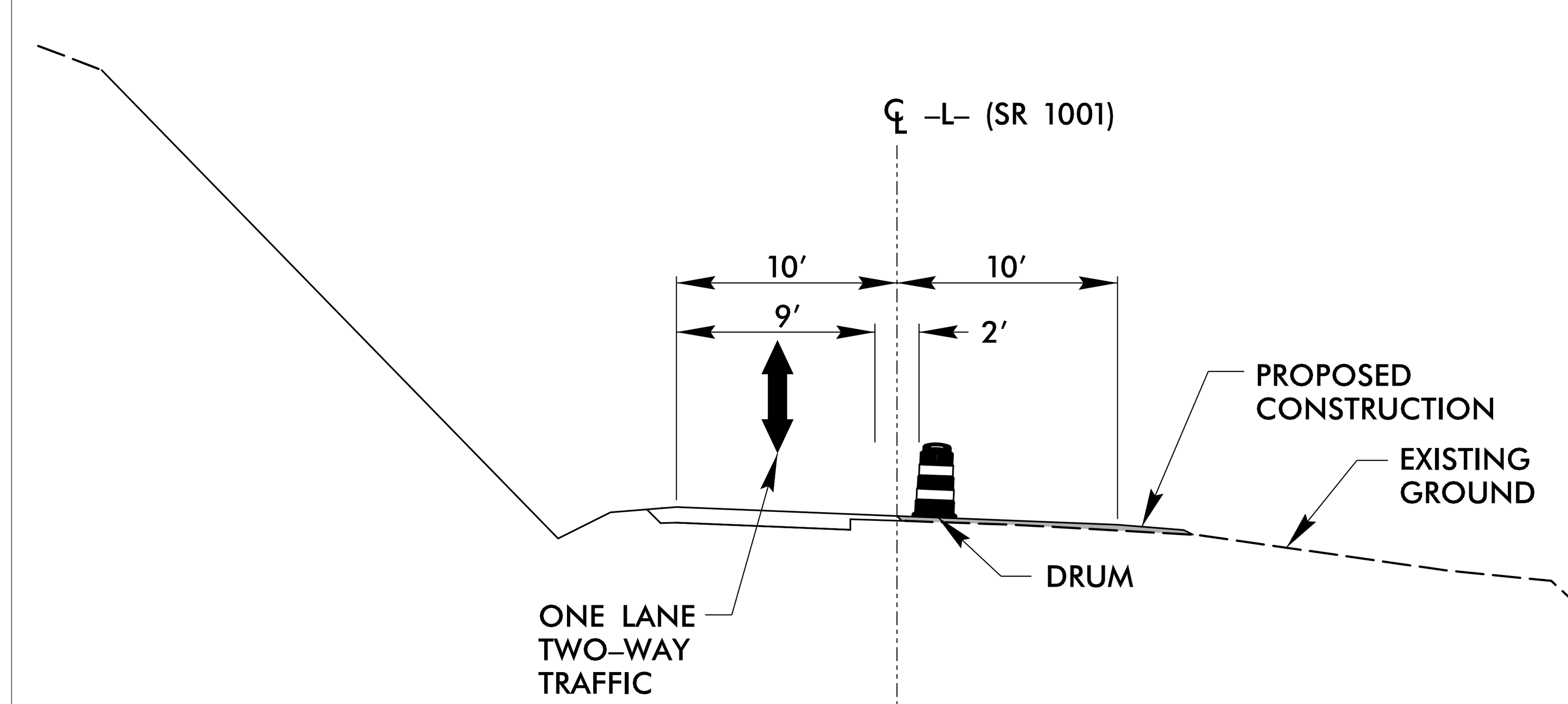
N.T.S

SECTION B-B



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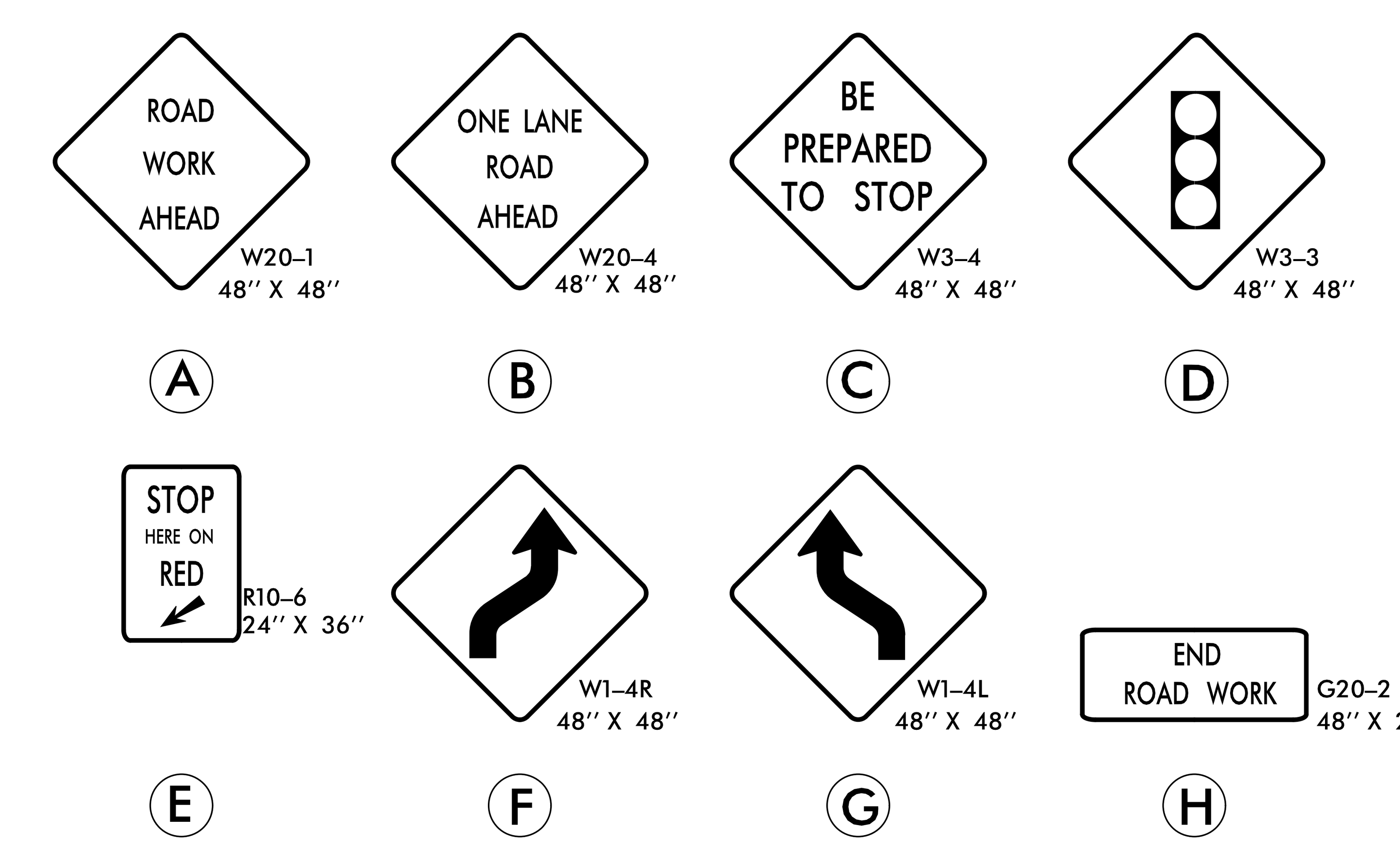

APPROVED: DocuSigned by: Nikki T. Honeycutt

DATE: 11/16/2023

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039234 NIKKI T. HONEYCUTT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PHASE II DETAILS

11/14/2023
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PAVEMENT MARKING PLAN

PROJ. REFERENCE NO.	SHEET NO.
B-6029	PMP-1

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

BRIDGE #550009

NAD 83 NA 2011

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANAUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL & BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL & BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

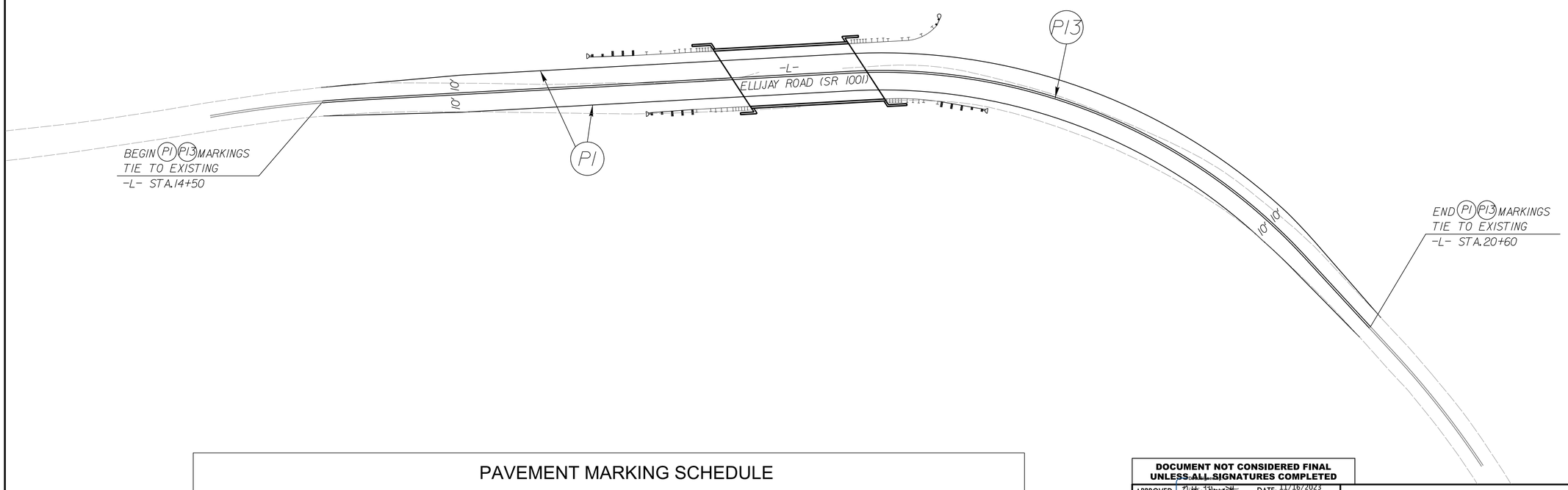
GENERAL NOTES

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.

A. INSTALL PAVEMENT MARKINGS ON THE FINAL SURFACE.

ROAD NAME:	MARKING
SR 1001 (ELLIJAY RD)	PAINT

B. TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
C. REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
C. TEMPRORAY PAVEMENT MARKINGS ARE PLACED IN ONE(1) COAT OF PAINT, AND FINAL PAVEMENT MARKINGS ARE PLACED IN TWO(2) COATS OF PAINT.



PAVEMENT MARKING SCHEDULE

P1 - PAINT (4" WHITE)	WHITE EDGELINE	1220 LF
P13 - PAINT (4" YELLOW)	DOUBLE YELLOW CENTER LINE	1220 LF

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: DATE: 11/16/2023

E8E3E4EA9F44473...

NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKKI T. HONEYCUTT

PAVEMENT MARKING DETAIL

SCALE:	20
DATE:	01/09/18
DWG. BY:	ERW
DESIGN BY:	ERW
REVIEWED BY:	MBE

REVISIONS

CADD FILE

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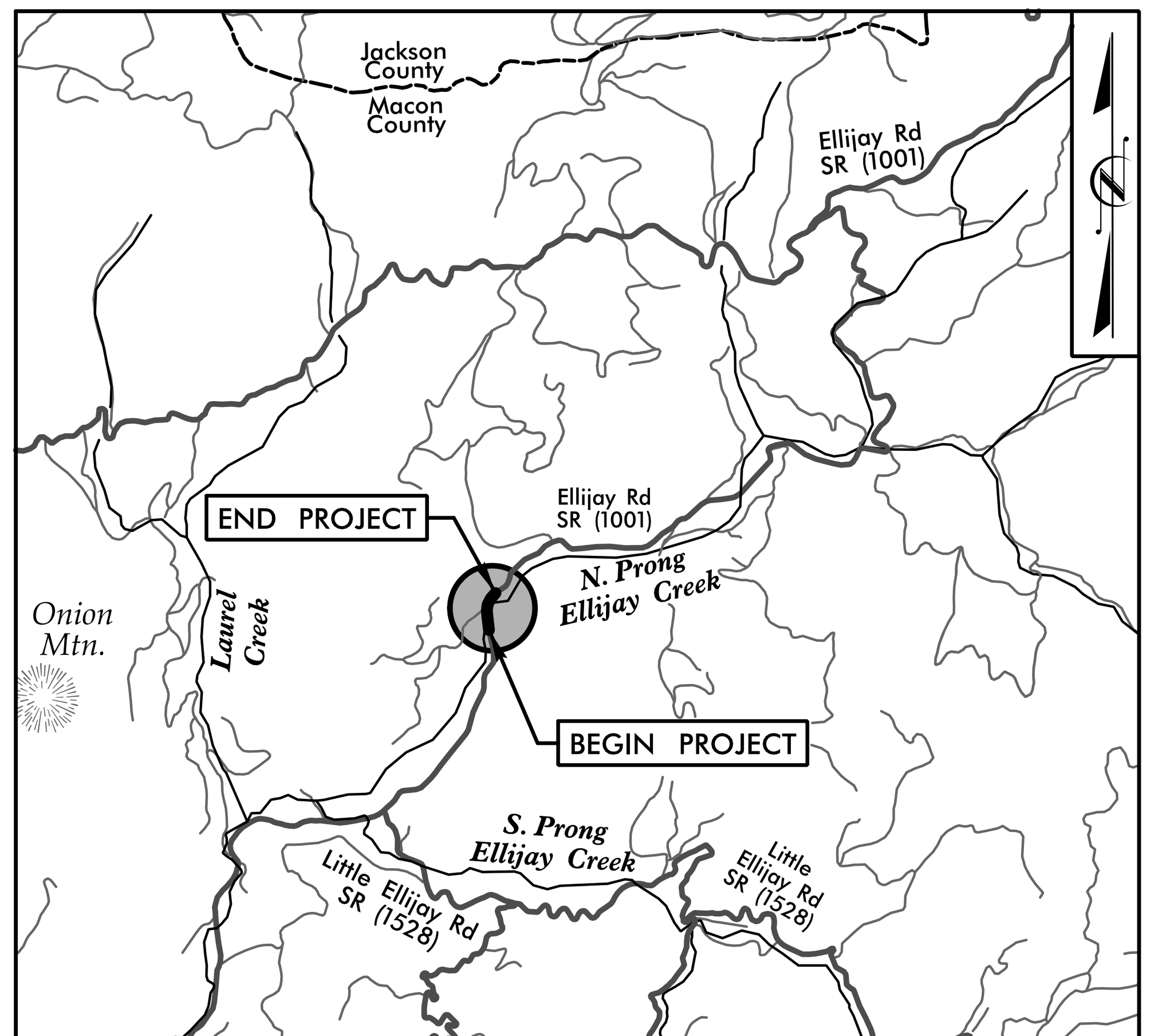
11/14/2023

PROJECT TIP: B-6029

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6029	EC-1	7

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
48224.1.1		P.E.
48224.2.1		R/W & UTILITIES
48224.3.1		CONSTRUCTION



VICINITY MAP

N.T.S.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

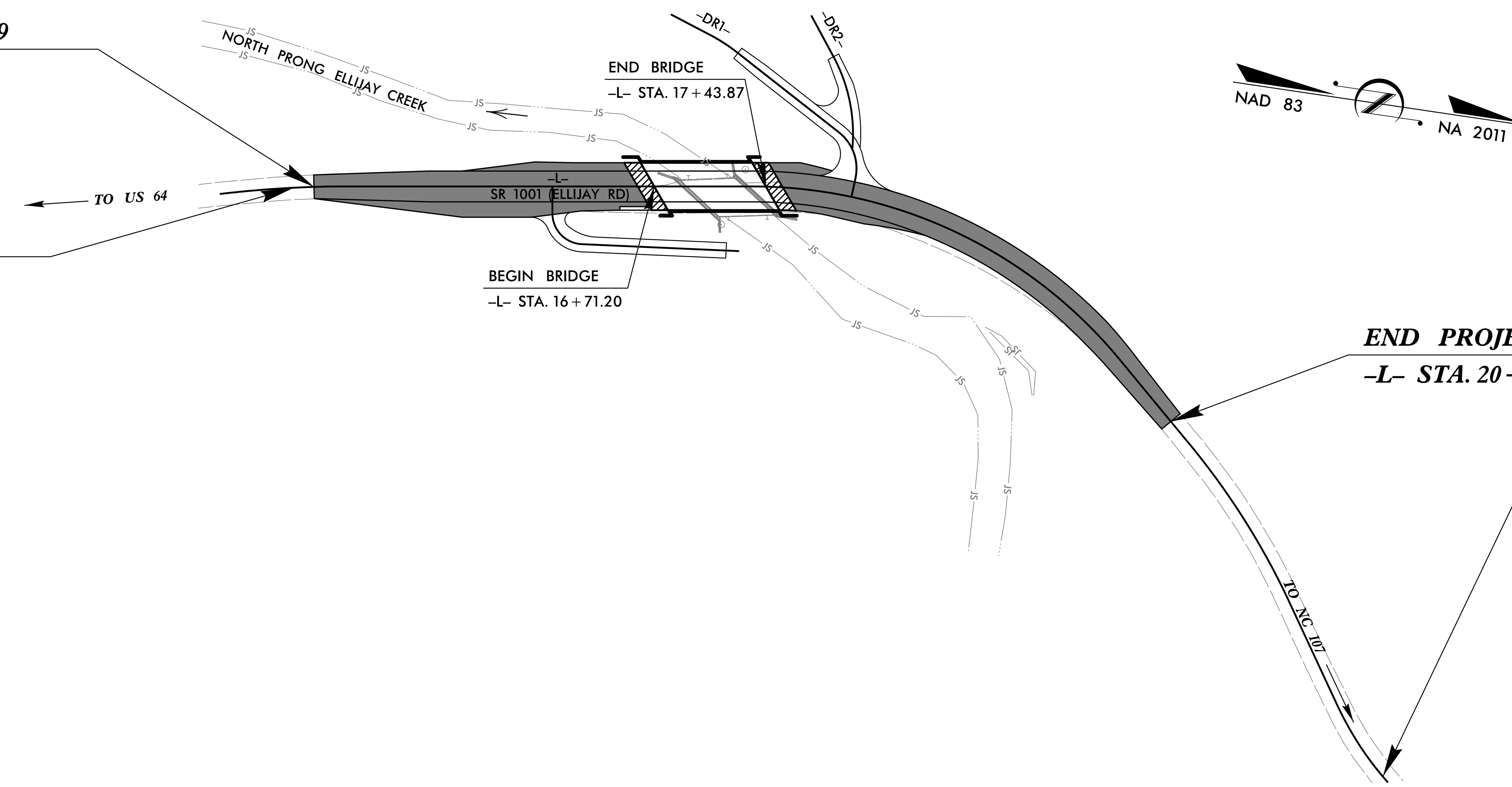
MACON COUNTY

LOCATION: BRIDGE #550009 OVER NORTH PRONG ELLIJAY CREEK ON SR 1001 (ELLIJAY RD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, & STRUCTURE

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Guide for Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle/Coir Fiber Wattle	EW / CFW
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin For Pumped Effluent	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	



THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

GRAPHIC SCALE

0 20

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared In the Office of:

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

Designed by:

DAVIN C. MORRISON, PE — *3126*

NAME — *LEVEL III CERTIFICATION NO.*

Reviewed In the Office of:

ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2024 STANDARD SPECIFICATIONS

Reviewed by:

REID WHITEHEAD, PE, CPESC

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01	Railroad Erosion Control Detail
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1607.01	Gravel Construction Entrance
1622.01	Guide for Temporary Berms and Slope Drains
1630.01	Riser Basin
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin For Pumped Effluent
1630.05	Temporary Diversion
1630.06	Special Stilling Basin
1631.01	Matting Installation
1632.01	Rock Inlet Sediment Trap Type A
1632.02	Rock Inlet Sediment Trap Type B
1632.03	Rock Inlet Sediment Trap Type C
1633.01	Temporary Rock Silt Check Type A
1633.02	Temporary Rock Silt Check Type B
1634.01	Temporary Rock Sediment Dam Type A
1634.02	Temporary Rock Sediment Dam Type B
1635.01	Rock Pipe Inlet Sediment Trap Type A
1635.02	Rock Pipe Inlet Sediment Trap Type B
1640.01	Coir Fiber Baffle
1645.01	Temporary Stream Crossing

PROJECT REFERENCE NO.	SHEET NO.
B-6029	EC-2

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Charlotte, NC 28202
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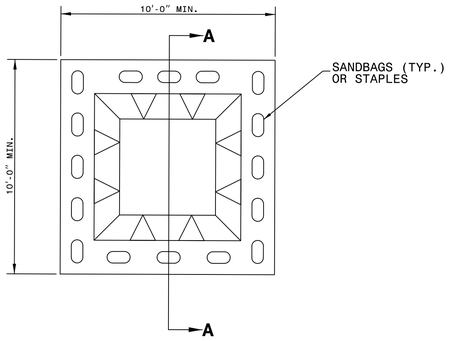
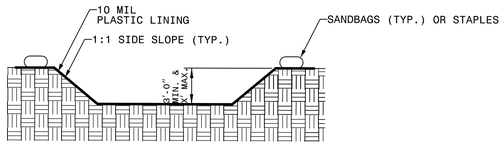
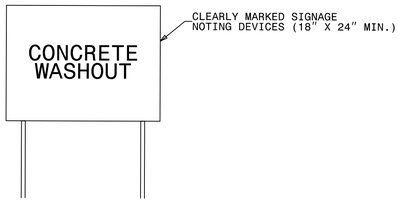
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER DETAIL





SECTION A-A



NOTES:

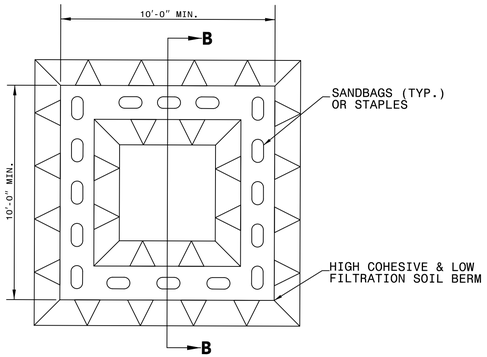
1. ACTUAL LOCATION DETERMINED IN FIELD.

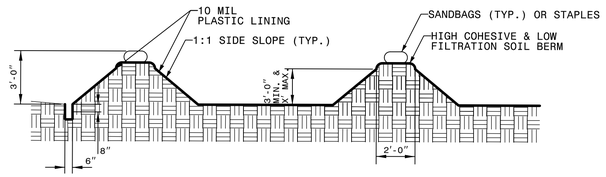
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

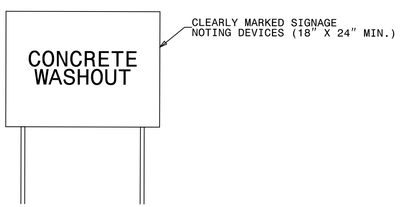
PLAN

BELOW GRADE WASHOUT STRUCTURE





SECTION B-B



NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD.

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

ABOVE GRADE WASHOUT STRUCTURE

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PROJECT REFERENCE NO.	SHEET NO.
B-6029	EC-3

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900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-DISTURBED AREAS	BEGIN	END	RT/LT	950
4	-L- V DITCH	14+50	16+00	RT	35
				SUBTOTAL	1055
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					3945
				TOTAL	5000
				SAY	5000

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4/5	-L-	18+18	19+00	LT	55
5	-L-	20+00	20+13	LT	10
5	-L-	20+13	20+50	LT	20
				TOTAL	85
				SAY	100

PROJECT REFERENCE NO.	SHEET NO.
B-6029	EC-3A

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Charlotte, NC 28202
NC License Number F-0991

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

CLEARING & GRUBBING PHASE I

NAD 83 NA 2011

PROJECT REFERENCE NO.	SHEET NO.
B-6029	EC-4/CONST.4
R/W SHEET NO.	

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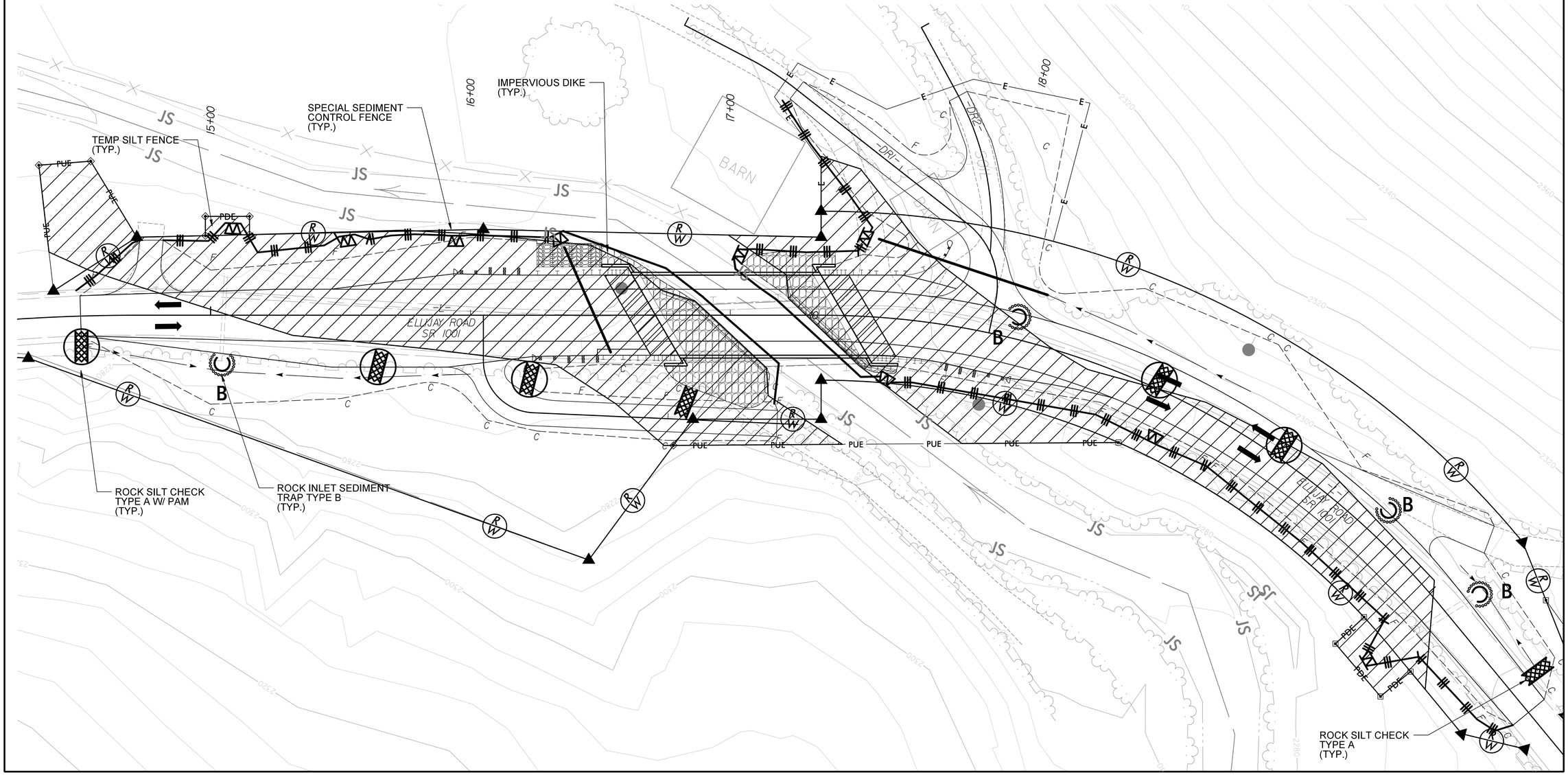
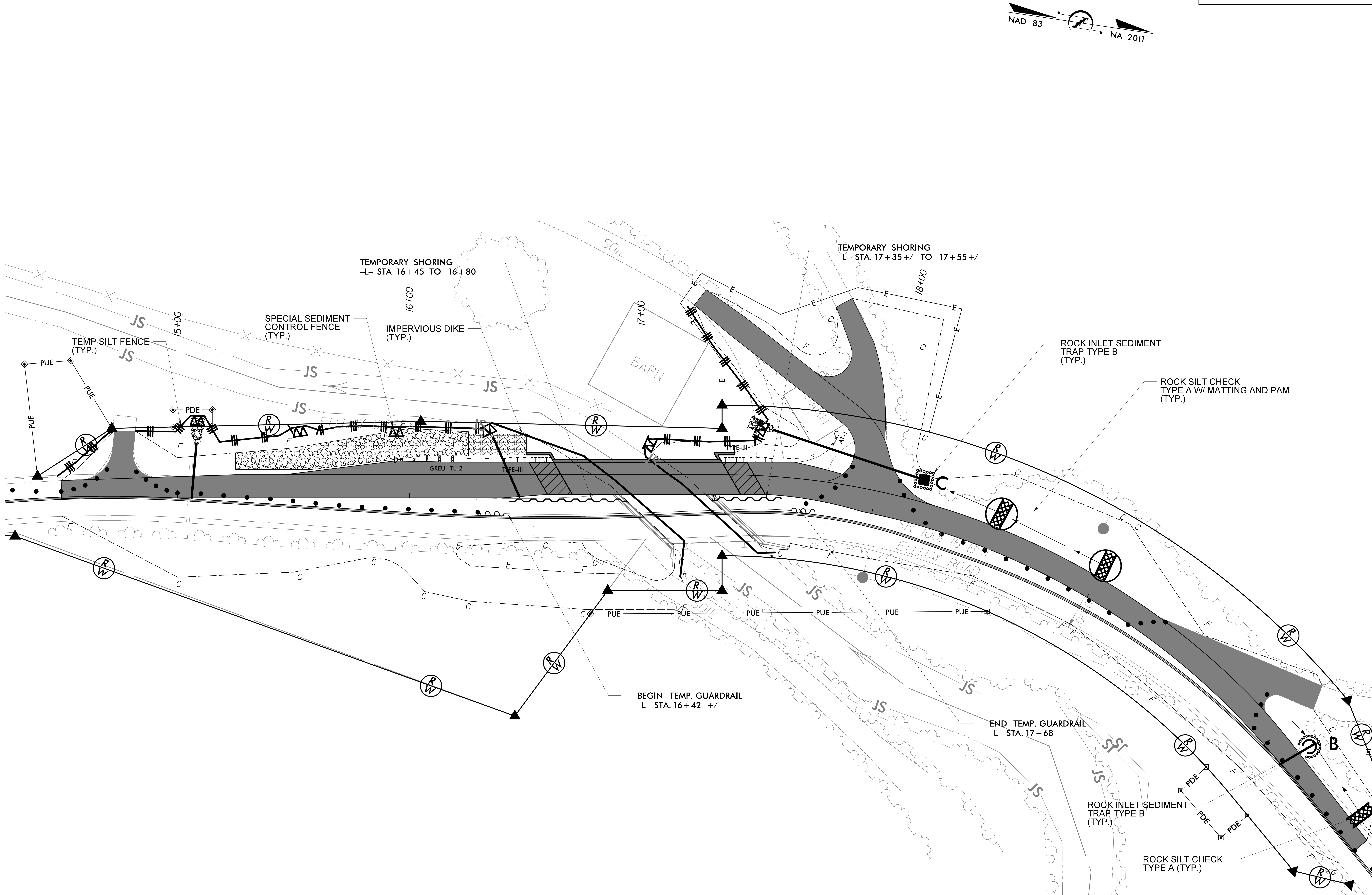
Charlotte, NC 28202
NC License Number F-0991



PROJECT REFERENCE NO.	SHEET NO.
B-6029	EC-5/CONST.4
R/W SHEET NO.	

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

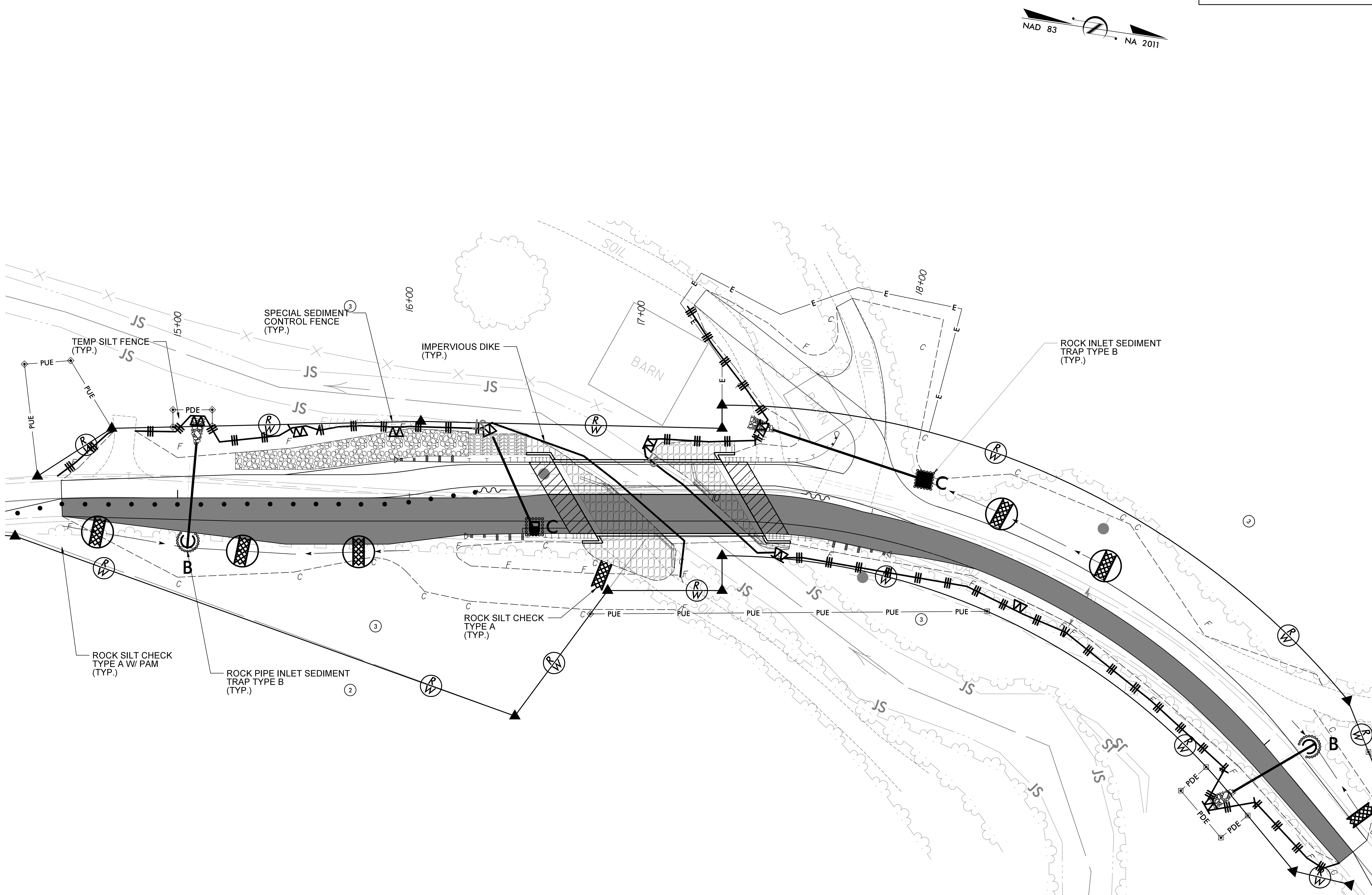
FINAL GRADING PHASE I


NAD 83
NA 2011
TEMPORARY SHORING
-L- STA. 16+45 TO 16+80
TEMPORARY SHORING
-L- STA. 17+35+/- TO 17+55+/-
SPECIAL SEDIMENT CONTROL FENCE (TYP.)
IMPERVIOUS DIKE (TYP.)
TEMP SILT FENCE (TYP.)
ROCK INLET SEDIMENT TRAP TYPE B (TYP.)
ROCK SILT CHECK TYPE A W/ MATTING AND PAM (TYP.)
BARN
GREU TL-2
TYPE-III
ELLIJAY ROAD
BEGIN TEMP. GUARDRAIL
-L- STA. 16+42 +/-
END TEMP. GUARDRAIL
-L- STA. 17+68
ROCK INLET SEDIMENT TRAP TYPE B (TYP.)
ROCK SILT CHECK TYPE A (TYP.)
15+00
16+00
17+00
18+00
PUE
PDE
JS
B

PROJECT REFERENCE NO.	SHEET NO.
B-6029	EC-6/CONST.4
R/W SHEET NO.	

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

FINAL GRADING PHASE II



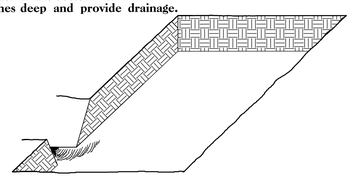
PLANTING DETAILS

SEEDLING / LINER BAREROOT PLANTING DETAIL

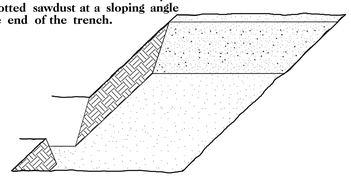
HEALING IN

1. Locate a healing-in site in a shady, well protected area.

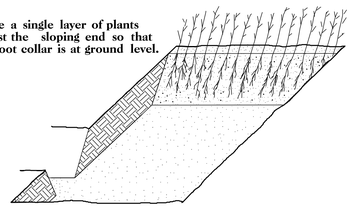
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



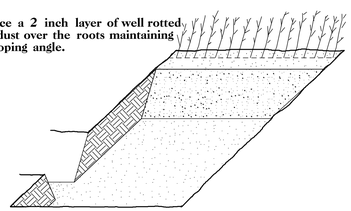
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



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

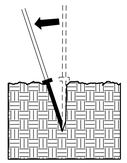


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

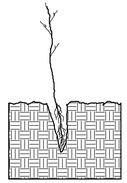


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

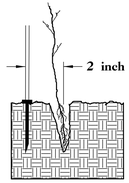
DIBBLE PLANTING METHOD
USING THE KBC PLANTING BAR



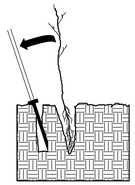
1. Insert planting bar as shown and pull handle toward planter.



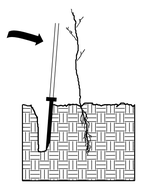
2. Remove planting bar and place seedling at correct depth.



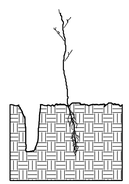
3. Insert planting bar 2 inches toward planter from seedling.



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 neeessary, so that no roots extend more than 10 inches below the root collar.

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6029	RF-1	1
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

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

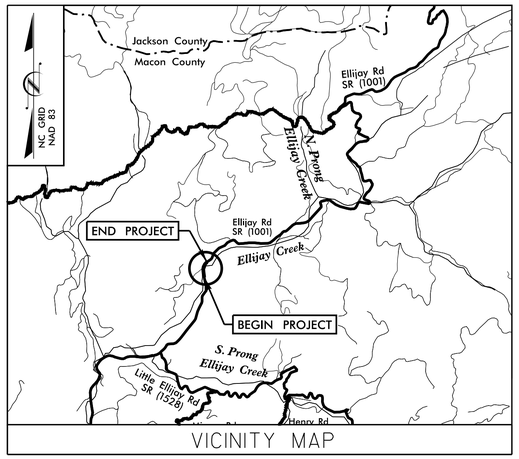
REFORESTATION DETAIL SHEET

N.C.D.O.T.- ROADSIDE ENVIRONMENTAL UNIT

09/08/99

TIP PROJECT: B–6029

CONTRACT: DN01148



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

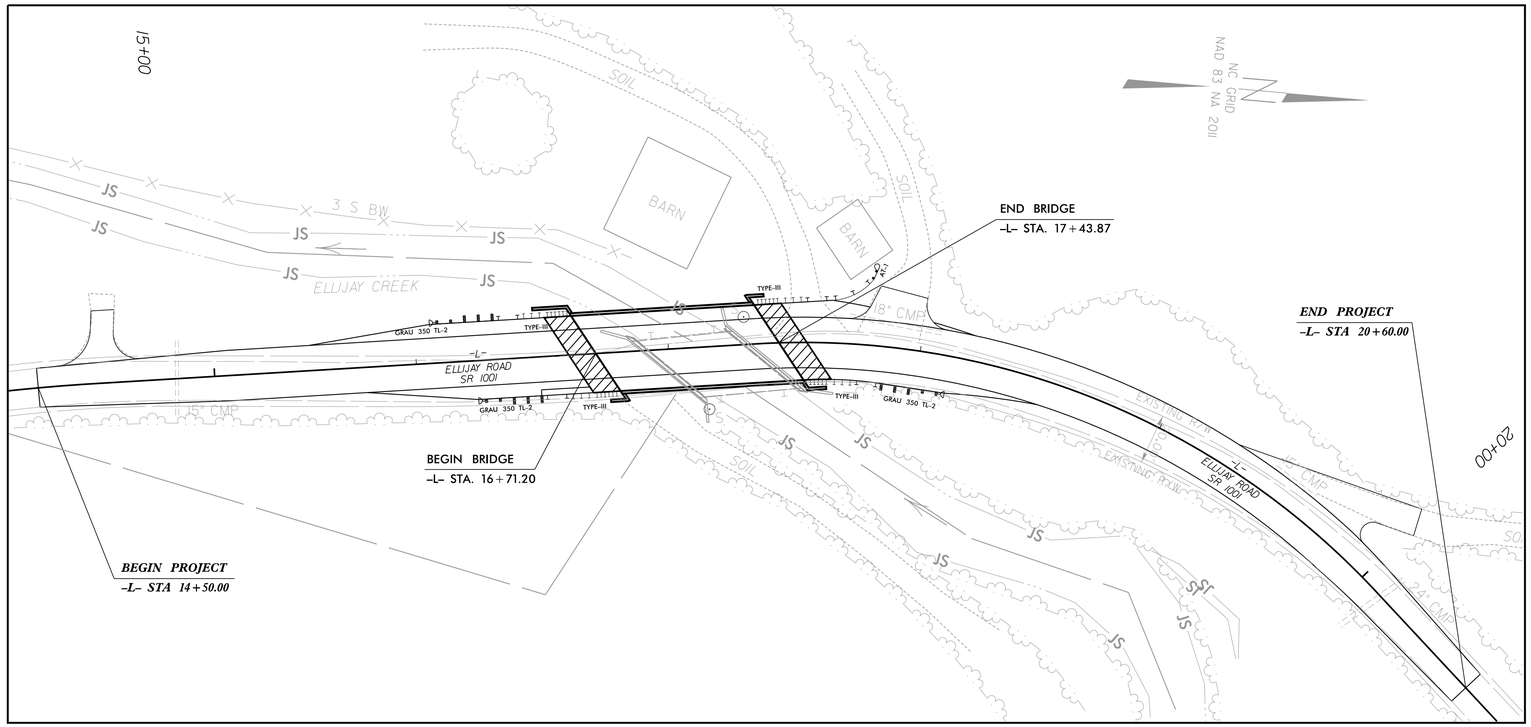
UTILITIES BY OTHERS PLANS
MACON COUNTY

T.I.P. NO.	SHEET NO.
B–6029	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.

LOCATION: BRIDGE NO. 550009 OVER ELLIJAY CREEK ON SR 1001 (ELLIJAY ROAD)

TYPE OF WORK: AERIAL POWER & TELEPHONE BURIED TELEPHONE



GRAPHIC SCALES

30 15 0 30 60
PLANS

INDEX OF SHEETS

SHEET NO.:	*DESCRIPTION:*
UO–1	*TITLE SHEET*
UO–2	*UBO PLAN SHEET*

UTILITY OWNERS WITH CONFLICTS

(A) DUKE ENERGY – POWER
(B) FRONTIER – COMMUNICATIONS

PREPARED IN THE OFFICE OF:

JMT

Charlotte, North Carolina 704–723–1698 License #C–3097

Nick Asaro, PLS — *UTILITY PROJECT MANAGER*

DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH NC 27699–1555
PHONE (919) 707–6690
FAX (919) 250–4151

Robert C. Golding — *DIVISION UTILITIES ENGINEER*
Robert WIlcox — *DIVISION UTILITIES COORDINATOR*

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User:nvasaro

PROJECT REFERENCE NO.	SHEET NO.
B-6029	UO-2
THIS SHEET CORRESPONDS TO RDY-04	

UTILITIES BY OTHERS

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

NAD 83 NC GRID NA 2011

3 ANDREW MOSES DB IA PG 9087

1 GEORGE MOSES DB L-10 PG 264

2 UNITED STATES FOREST SERVICE A. J. MOORE TRACT NO. 157

OH P REMAIN

CONNECT TO EX. BURIED CABLE

UG T TO REMAIN

NEW DUKE JOINT USE POLE & ANCHORS

BEGIN BRIDGE –L– STA. 16+71.20

REMOVE FRONTIER POLE

OH P REMOVE

PROP U/G TEL

PROP O/H POW & TEL LINES

ELLIJAY ROAD SR 1001

OH T REMOVE

REMOVE DUKE POLE

NEW DUKE POLE & ANCHORS

PROP O/H POW LINES

BEGIN PROJECT 17BP.14.R.158 –L– STA 14+50.00

ABANDON BURIED TELEPHONE LINES

DIVISION TO DETERMINE WHETHER TO MAINTAIN ACCESS

END BRIDGE –L– STA. 17+43.87

NEW DUKE JOINT USE POLE & ANCHORS

NEW FRONTIER PEDESTAL AND ANCHOR, CONNECT TO EXISTING BURIED CABLE, EX. FRONTIER POLE TO REMAIN

CONTRACTOR SHALL USE CAUTION WHILE PLACING STORM DRAIN PIPE, DEPTH OF EX. CABLE UNKNOWN

NEW DUKE POLE

UG T

END PROJECT 17BP.14.R.158 –L– STA 20+60.00

14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

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