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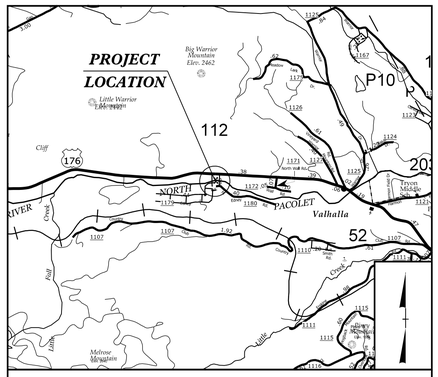
This file or an individual page shall not be considered a certified document.

09/08/99

CONTRACT: DN01119 PROJECT TIP: DF18314.2075090

See Sheet 1A For Index of Sheets
See Sheet 1B for Conventional Symbols



VICINITY MAP N.T.S.

ROADWAY FINAL PLAN SET

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

POLK COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18314.2075090	1	

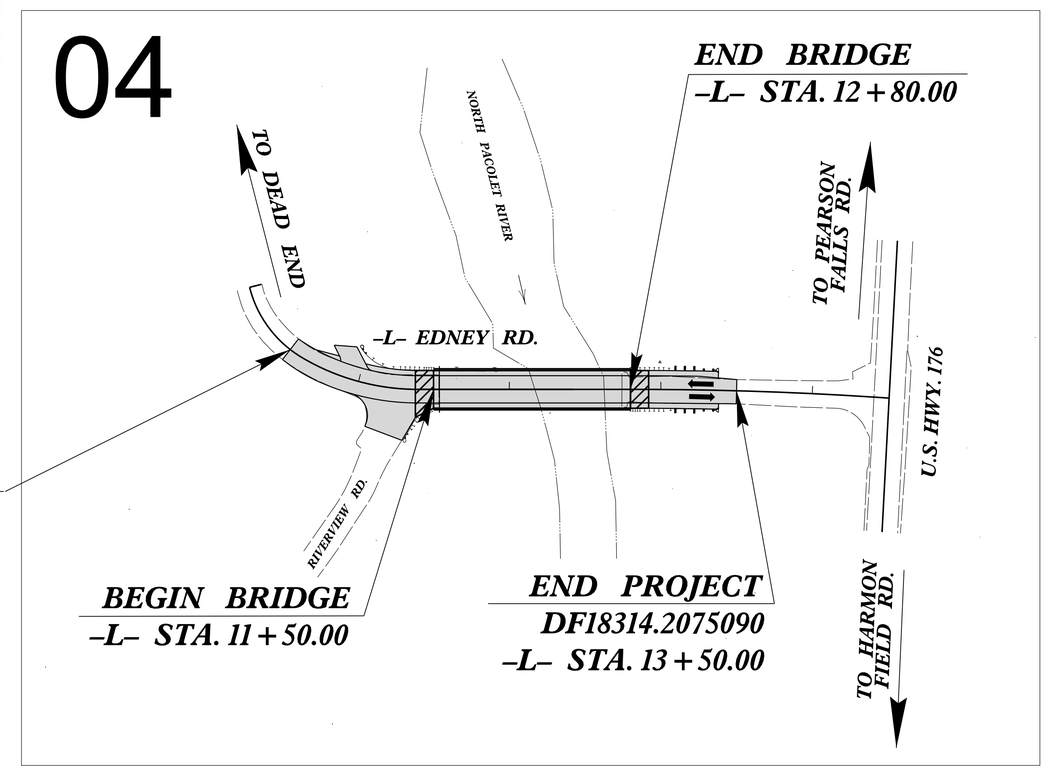
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
DF18314.2075090	N/A	PE
DF18314.2075090	N/A	ROW
DF18314.2075090	N/A	CON

LOCATION: BRIDGE 740112 OVER PACOLET RIVER ON EDNEY ROAD

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

NAD 83/2011

04



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2025 = <400
ADT 2045 = <400

V = 30 MPH

FUNC CLASS = LOCAL
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT DF18314.2075090 = 0.032 MILES
LENGTH STRUCTURE PROJECT DF18314.2075090 = 0.025 MILES
TOTAL LENGTH PROJECT DF18314.2075090 = 0.057 MILES

PREPARED IN THE OFFICE OF:
RS&H
1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 2025

LETTING DATE:
JANUARY 13, 2026

MATTHEW POPPELL, PE
PROJECT ENGINEER

EMERSON DAVIS
PROJECT DESIGN ENGINEER

ZACHARY T. SHULER, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

DocuSigned by: Alexander R Vinson 9DD0FFF1E6D1438...
11/18/2025
SIGNATURE: *P.E.*
NORTH CAROLINA PROFESSIONAL SEAL 049764 ENGINEER ALEXANDER R. VINSON

ROADWAY DESIGN ENGINEER

Signed by: Matthew A Poppell F63E22B95CF5424...
11/18/2025
SIGNATURE: *P.E.*
NORTH CAROLINA PROFESSIONAL SEAL 059503 ENGINEER MATTHEW A. POPPELL

STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION *

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	1A

ROADWAY DESIGN ENGINEER

Signed by: Matthew A Poppell
F63E22B93CF5424...

NORTH CAROLINA PROFESSIONAL SEAL 059503 ENGINEER MATTHEW A. POPPELL

10/6/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

INDEX OF SHEETS

GENERAL NOTES

GENERAL NOTES: 2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
REVISED:

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.

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.

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.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

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.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE Duke Energy, Windstream, Spectrum
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.

STANDARD DRAWINGS

2024 ROADWAY ENGLISH STANDARD DRAWINGS — EFF. 01-16-2024
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by references 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
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation (Use Details in Lieu of Standards for Sheets 1 and 2 of 2)
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	
840.00	Concrete Base Pad for Drainage Structures
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.24	Frames and Narrow Slot Sag Grates
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
862.01	Guardrail Placement (Use Details in Lieu of Standards for Sheets 4, 6, 12, and 14 of 15)
862.02	Guardrail Installation
862.03	Structure Anchor Units (Use Detail in Lieu of Standard for Sheet 8 of 9)
876.02	Guide for Rip Rap at Pipe Outlets

REVISIONS

8/17/99

06-OCT-2025 14:08
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Davis.Fm

05/20/24

PROJECT REFERENCE NO.	SHEET NO.
DF1831.4.2075090	1B

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.

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

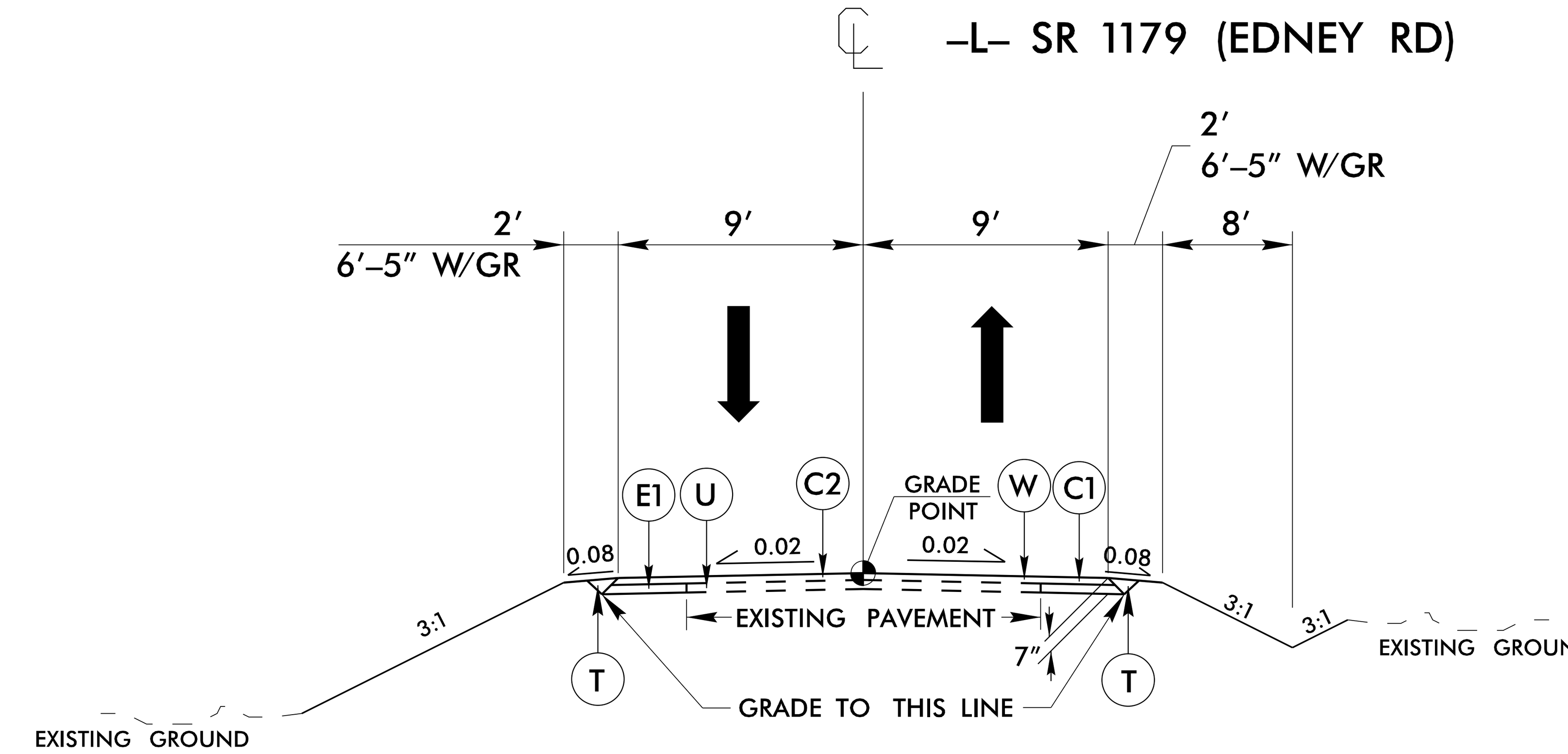
Matthew A. Poppell
NORTH CAROLINA PROFESSIONAL SEAL 059503 ENGINEER MATTHEW A. POPPELL
10/6/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PAVEMENT SCHEDULE

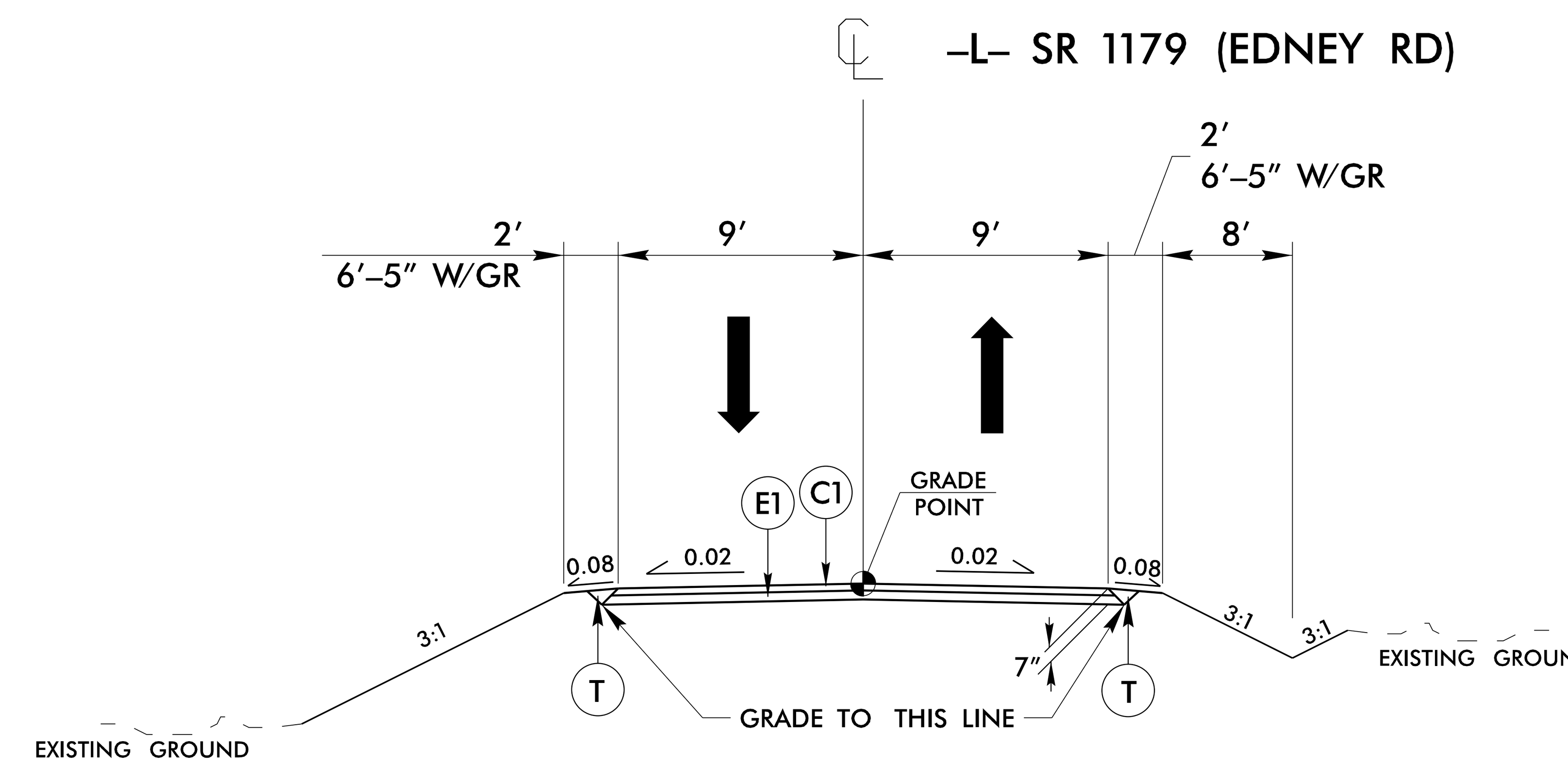
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1.0" IN DEPTH OR GREATER THAN 1.5" 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" IN DEPTH OR GREATER THAT 5.5" IN DEPTH.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	0"-1.5" MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

NOTE: ALL PAVEMENT SLOPES 1:1 UNLESS NOTED OTHERWISE



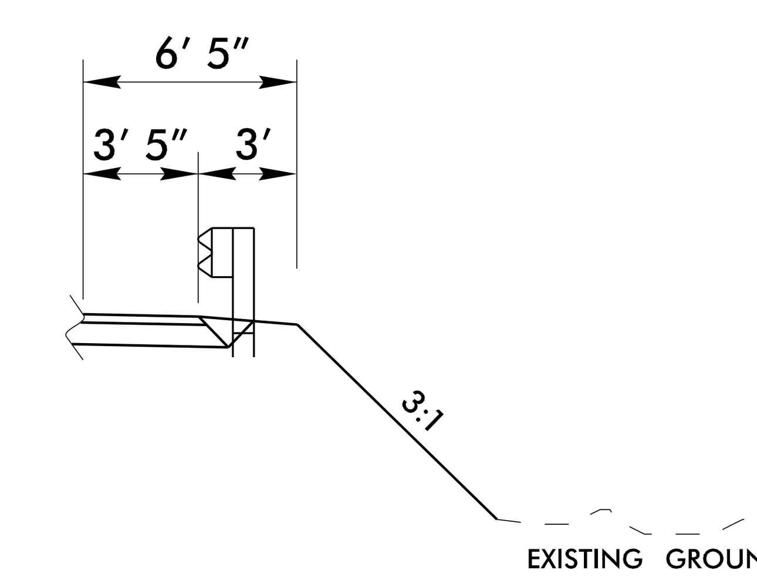
TYPICAL SECTION NO. 01

-L- STA. 10+50.00 TO -L- STA. 11+25.00



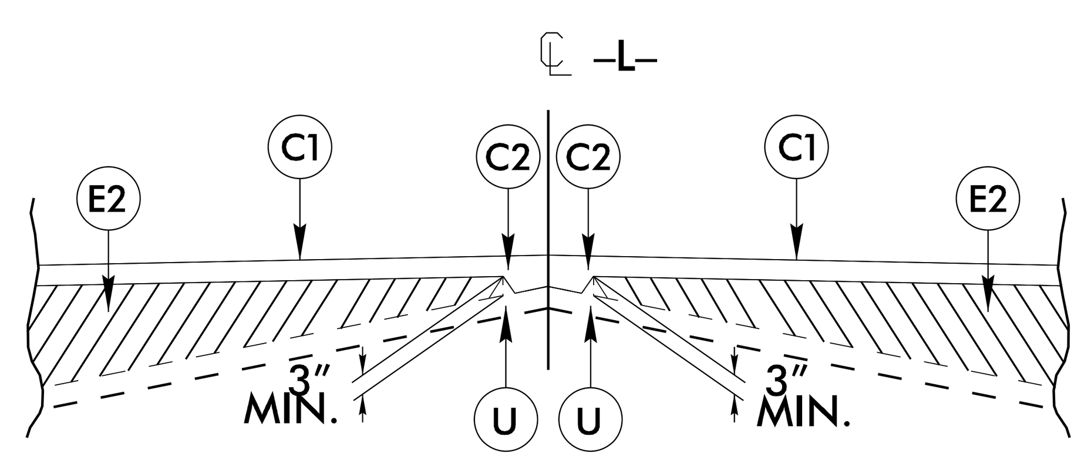
TYPICAL SECTION NO. 02

-L- STA. 11+25.00 TO -L- STA. 11+50+/- (BEGIN BRIDGE)
-L- STA. 12+80.00+/- (END BRIDGE) TO -L- STA. 13+50.00

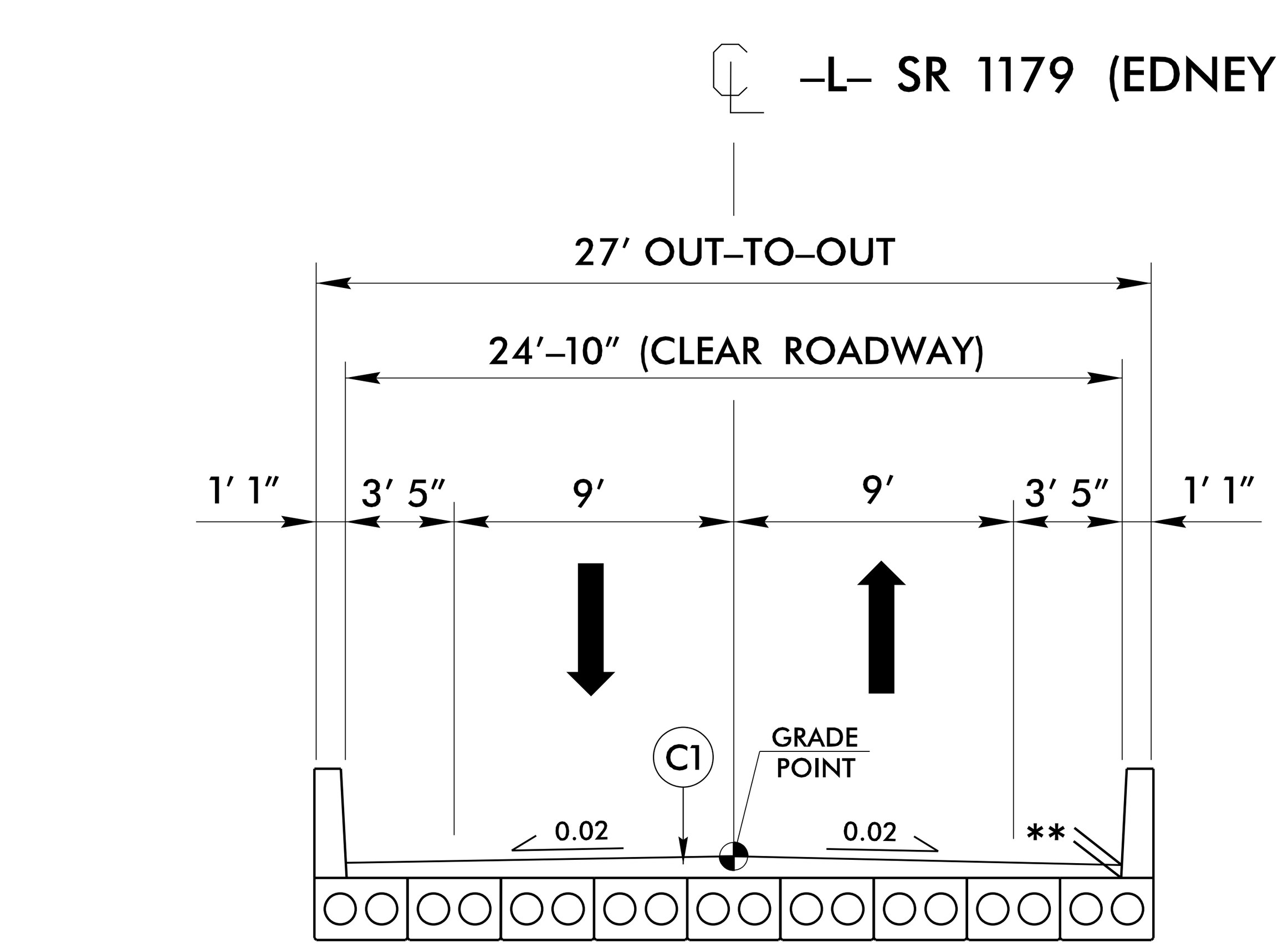


*SHOULDER DETAIL

USE IN CONJUNCTION WITH GUARDRAIL ON -L-
SEE CROSS SECTIONS AND PLAN SHEET 04



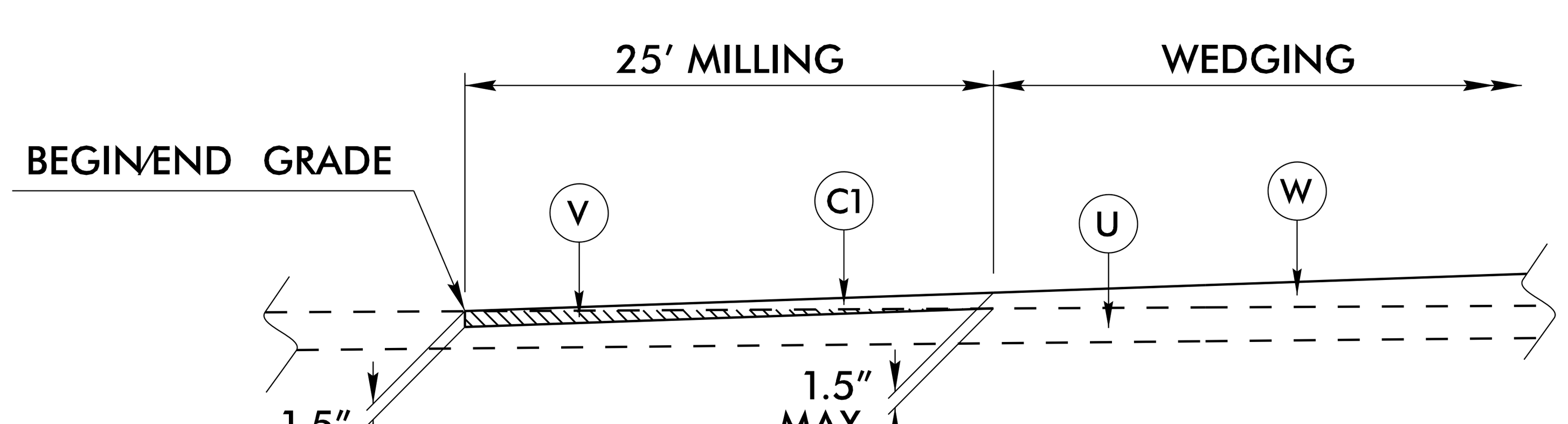
STANDARD WEDGING DETAIL



**SEE STRUCTURE PLANS FOR PAVEMENT THICKNESS

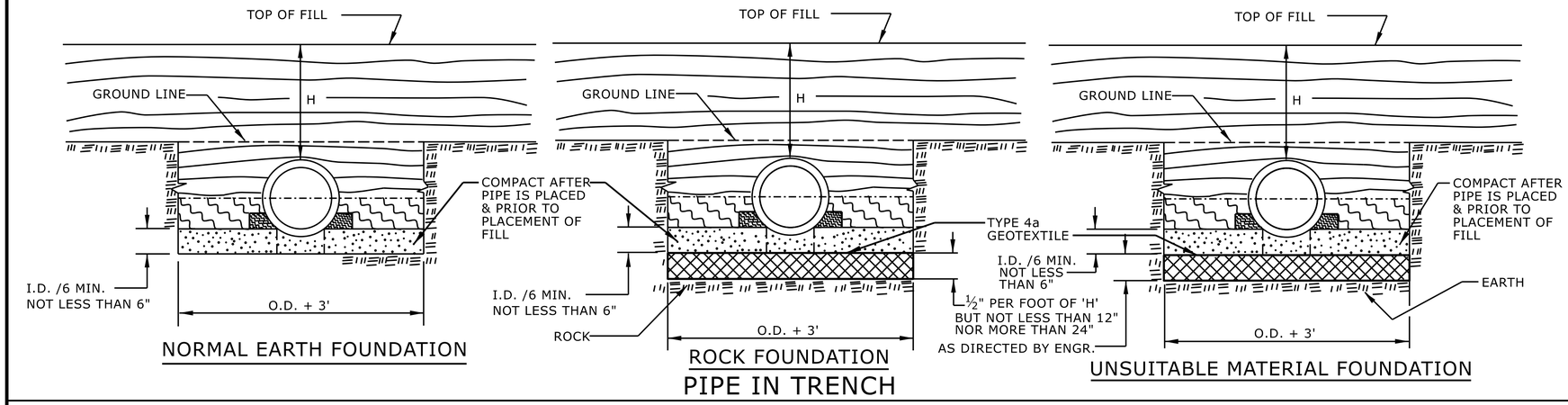
TYPICAL SECTION NO. 03

-L- STA. 11+50+/- (BEGIN BRIDGE) TO -L- STA. 12+80+/- (END BRIDGE)

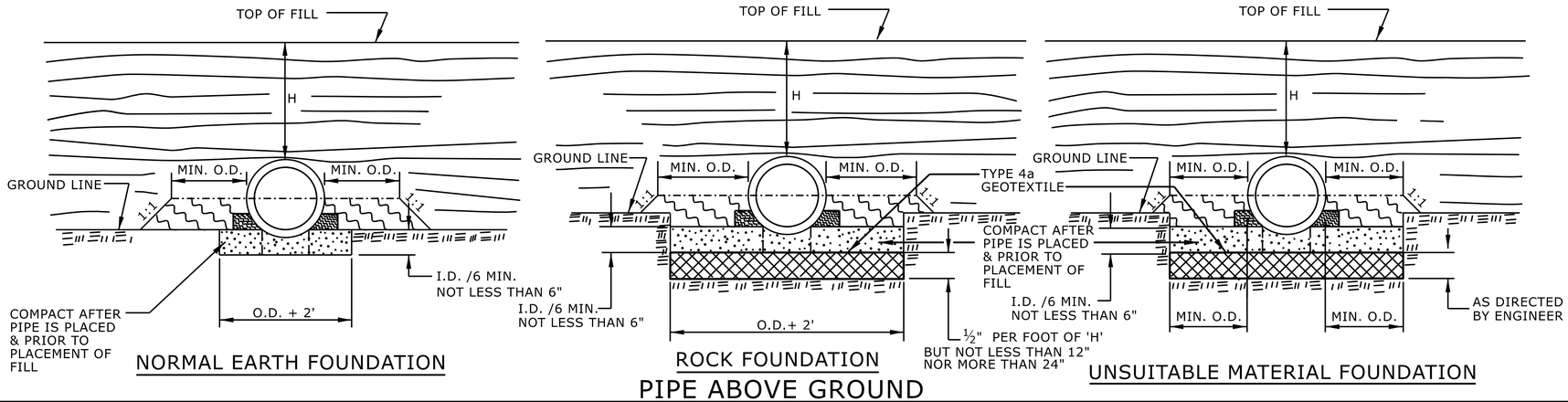


DETAIL OF 1.5" MILLING AT PAVEMENT TIE-INS

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	2C-1



PIPE IN TRENCH



PIPE ABOVE GROUND

GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR

METHOD OF PIPE INSTALLATION

RIGID PIPE

SHEET 2 OF 2

300.01

NORTH CAROLINA PROFESSIONAL SEAL 033144 ENGINEER NICOLE M. HACKLER

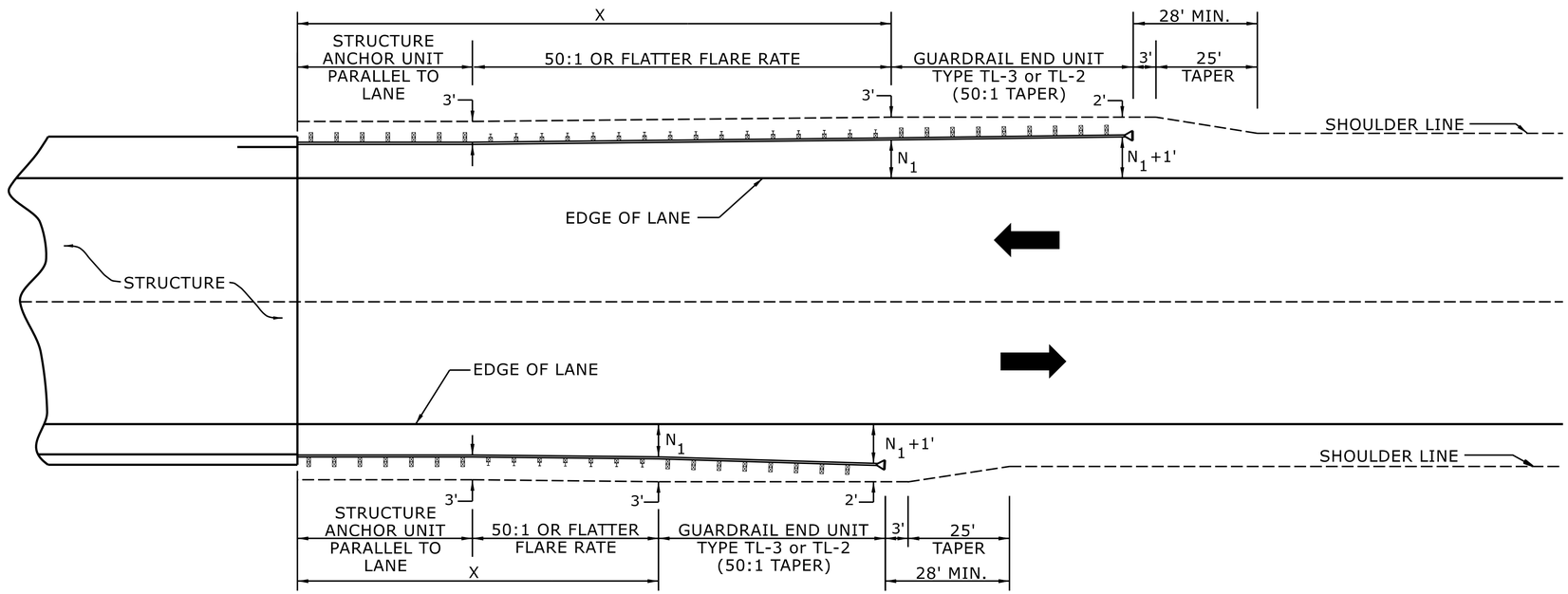
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	2C-2



USE FLARE RATE AS THE CONTROL IF THE "N_1" DISTANCE IS NOT OBTAINED.
("N_1" IS BASED ON SHOULDER WIDTHS IN THE ROADWAY DESIGN MANUAL)

SEE STD. 862.03 FOR STRUCTURE ANCHOR UNITS

FOR POSTED SPEEDS ≥ 45MPH USE GREU TYPE TL-3
FOR POSTED SPEEDS < 45MPH USE GREU TYPE TL-2

GUARDRAIL LENGTH OF NEED (X) IS CALCULATED BASED ON THE AASHTO ROADSIDE DESIGN GUIDE.

LENGTHS AND OFFSETS FOR PROPOSED GUARDRAIL AT TWO LANE - TWO WAY LOCATIONS

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 4 OF 15

862D01

NORTH CAROLINA PROFESSIONAL SEAL 033144 ENGINEER NICOLE M. HACKLER

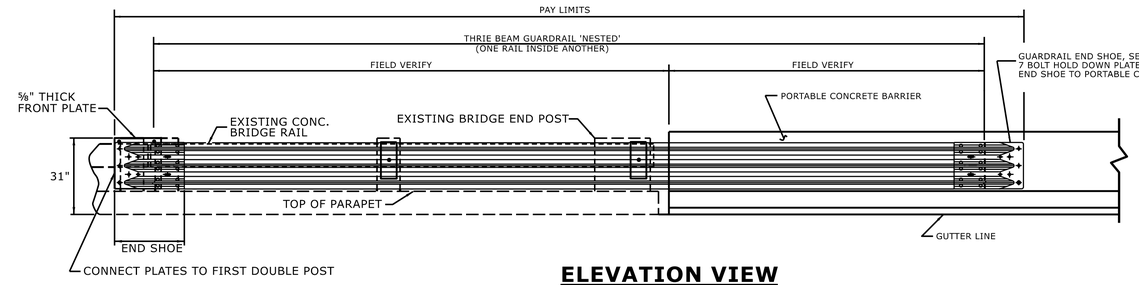
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

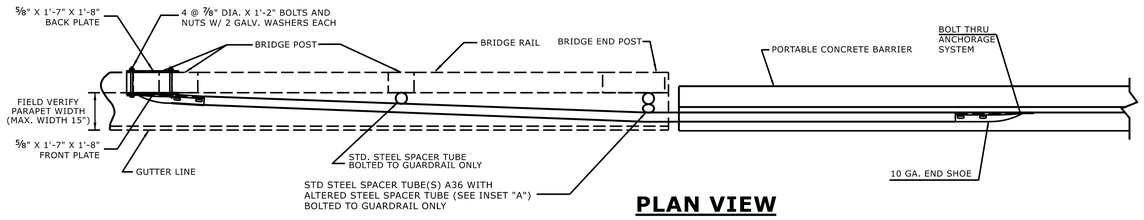
SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

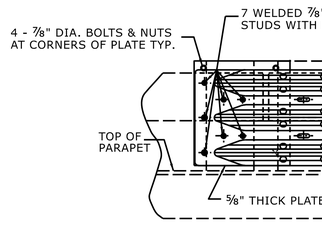
PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	2C-3



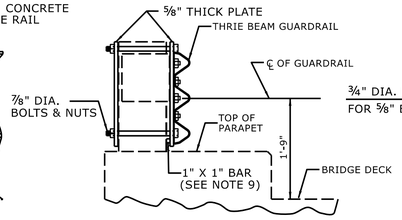
ELEVATION VIEW



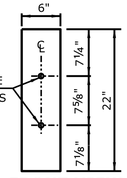
PLAN VIEW



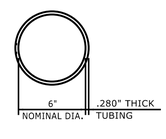
ELEVATION VIEW



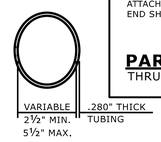
SECTION VIEW



FRONT VIEW



PLAN VIEW

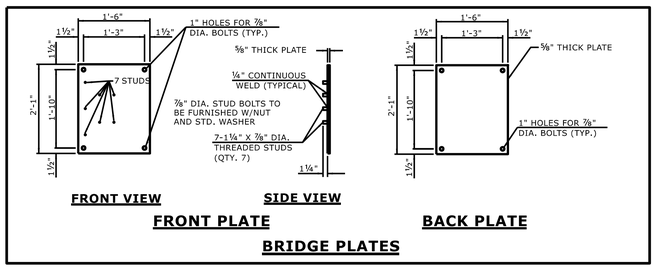


PLAN VIEW INSET "A"

STEEL SPACER TUBE

GENERAL NOTES:

1. USE NUTS, BOLTS, AND WASHERS CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-307 AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
2. TAP NUTS FOR THE ⅞" DIA. STUDS AND BOLTS AFTER GALVANIZING SEE A.S.T.M. A-563.
3. USE PLATES AND TUBES CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-36 AND GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
4. ADDITIONAL FIELD HOLES MAY BE DRILLED IN STEEL RAIL AS DIRECTED BY THE ENGINEER.
5. INSTALL FACE OF GUARDRAIL AS NEAR AS POSSIBLE TO PLUMB WITH THE PARAPET FACE AT BRIDGE END POST SPACER TUBE LOCATION BY USING STANDARD OR ALTERED SPACER TUBES OR A COMBINATION THEREOF OR AS DIRECTED BY THE ENGINEER. FOR VERY SMALL PARAPET WIDTHS, GUARDRAIL MAY BE INSTALLED AGAINST BRIDGE RAIL WITHOUT SPACER TUBES.
6. DO NOT DRILL BRIDGE RAIL IN ORDER TO INSTALL GUARDRAIL ANCHOR UNIT.
7. USE THIS DETAIL ONLY FOR BRIGES WITH POST AND BEAM TYPE RAIL.
8. ATTACH 1" X 1" BAR AND THREADED STUDS TO PLATE WITH ¼" WELDS ALL AROUND.
9. 1" X 1" BAR MAY NOT BE NEEDED ON BRIDGE RAILS WHERE FACE OF RAIL DOES NOT PROJECT BEYOND FACE OF POST.
10. PROVIDE SHOP DRAWINGS OF THE PLATES TO THE ENGINEER FOR APPROVAL BEFORE FABRICATING THE PLATES.
11. LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
12. SEE ROADWAY STANDARD DRAWING 862.03 SHEET 3 FOR ADDITIONAL INFORMATION ON THE TYPE III ANCHOR UNIT



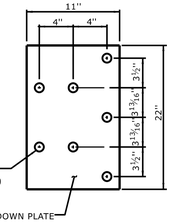
BRIDGE PLATES

NOTES FOR 7 BOLT HOLD DOWN PLATE

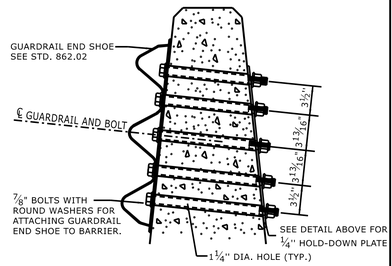
THE GUARDRAIL ANCHOR ASSEMBLY SHALL CONSIST OF A ¼" HOLD DOWN PLATE AND 7 - ⅞" DIA. BOLTS WITH NUTS AND WASHERS.

THE HOLD-DOWN PLATE SHALL CONFORM TO AASHTO M270 GRADE 36. AFTER FABRICATION, THE HOLD-DOWN PLATE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111.

AFTER INSTALLATION, THE EXPOSED THREAD OF THE BOLT SHALL BE BURRED WITH A SHARP POINTED TOOL. THE 1¼" DIA. HOLES SHALL BE FORMED OR DRILLED WITH A CORE BIT. IMPACT TOOLS WILL NOT BE PERMITTED. ANY CONCRETE DAMAGED BY THIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.



7 BOLT HOLD DOWN PLATE



PART SECTION OF BARRIER OR RAIL
THRU END SHOE SECTION AND 7 BOLT HOLD DOWN PLATE

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR

STRUCTURE ANCHOR UNITS

TEMPORARY ANCHOR UNIT TYPE THRIE-BEAM

SHEET 8 OF 9

862D03

NORTH CAROLINA PROFESSIONAL SEAL 033144 ENGINEER NICOLE M. HACKLER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

COMPUTED BY: EJD DATE: 4/29/25
CHECKED BY: MAP DATE: 4/29/25

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
EDNEY	3B-1

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +15%	BORROW	WASTE SUIT.	WASTE UNSUIT.
PHASE I:						
–L– 10+50.00	–L– 11+38.00(BR)		24	24		
–L– 12+92.00(BR)	–L– 13+50.00	37	2	2		43
SUBTOTAL:		37	26	26		43
PROJECT TOTALS:		37	26	26		43
EST. 5% TO REPLACE SOIL IN BORROW PIT				1		
GRAND TOTALS:		37	26	27		43
SAY:		37	26	27		43

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	11+25.00	11+50.00	CL	62.4
–L–	12+80.00	13+50.00	CL	145.3
			TOTAL:	227.7
			SAY:	250

NOTE:
INVERT ELEVATIONS INDICATED ARE FOR BID PURPOSES ONLY AND SHALL NOT BE USED FOR PROJECT CONSTRUCTION STAKE OUT.
SEE "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, SECTION 300-5".

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

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC)												C.S. PIPE							R.C. PIPE (CLASS III)							R.C. PIPE (CLASS IV)								**″ R. C. PIPE (CLASS V)	**″ R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**″ R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15″ SIDE DRAIN PIPE	18″ SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE)		QUANTITIES FOR DRAINAGE STRUCTURES	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')		C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03				CONCRETE TRANSITIONAL SECTION		G.D.I. TYPE "B" STD. 840.18 OR 840.27	T.B.G.D.I. (W.S. FLAT) FRAME W/2 GRATES STD. 840.29	G.D.I. (N.S. SAG) FRAME W/2 GRATES STD. 840.24	T.B.G.D.I. STD. 840.35						PIPE REMOVAL LIN.FT.	REMARKS
SIZE		FROM	TO					12″	15″	18″	24″	30″	36″	42″	48″	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	12″	15″	18″	24″	36″	42″	48″	15″	18″	24″	30″	36″	42″	48″	12″	15″	18″	24″	30″	36″	42″	48″						CU. YDS.		PER EACH (0' THRU 5.0')	LIN. *FT.			TYPE OF GRATE				CATCH BASIN	DROP INLET											
THICKNESS OR GAUGE																				.064	.064	.064	.064	.079	.109	.109																					R.C.P.	C.S.P.		A 5.0' THRU 10.0'	B 10.0' AND ABOVE		E	F	G														
		0401	0402		986.50	978.75																56																																														40	REMOVE 40 LF OF 15″ CMP
–L– 10+52	14 RT	0401		989.50																																													1											1		1							
		0402	0404		978.75	978.25																						52																																							93	REMOVE 58 LF OF 30″ CMP AND 35 LF OF 18″ CMP
–L– 11+00	19 RT	0402		981.85																																													1											1		1							
		0403	0404		983.93	978.25																40																																															
–L– 10+68	18 LT	0403		986.93																																													1											1		1							
		0404	0405		977.75	976.93																							56																																					33	REMOVE 22 LF OF 8″ HDPE AND 11 LF OF 15″ HDPE
–L– 11+13	30 LT	0404		982.00																																													1									1		1								
		0406	0407		979.25	979.11																					44																																												
–L– 13+42	11 RT	0406		982.00																																													1											1		1							
		0407	0408		979.11	979.03																					24																																												
–L– 12+99	12 RT	0407		982.05																																													1											1		1							
		0408	0410		978.78	978.73																						16																																										
–L– 12+99	10 LT	0408		982.07																																													1											1		1							
		0409	0408		979.00	978.78																						44																																							50	REMOVE 50 LF OF 18″ CMP
–L– 13+42	12 LT	0409		982.00																																													1											1		1							
TOTAL																						96					68	112	56																				8										1	7	1	7						216	

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.G.D.I.	TRAFFIC BEARING GRATED DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

"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			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE III	GREU TL–2	CAT–1	AT–1						EA	G	NG				
–L–	10+94.67	11+50.00(BR)	LT	25′	25′			11+50.00(BR)							1			1												
–L–	11+31.67	11+50.00(BR)	RT	18.75′	18.75′		11+50.00(BR)				50′				1		1													
–L–	12+80.00(BR)	13+37.80	LT	50′			12+80.00(BR)		3.5′	3.5′	50′				1	1														
–L–	12+80.00(BR)	13+38.37	RT	50′				12+80.00(BR)	3.5′	3.5′	50′				1	1														
			SUBTOTAL	143.75′	43.75′																									
			ANCHOR DEDUCTION	118.75′	18.75′																									
			TOTAL	25′	25′																									
			SAY	25′	25′															4	2	1	1												

ANCHOR DEDUCTION – STRAIGHT
TYPE III: 3 @ 18.75′ = 56.25′
CAT–1: 1 @ 6.25′ = 6.25′
AT–1: 1 @ 6.25′ = 6.25′
GREU TL–2: 2 @ 25′ = 50′
GRAND TOTAL = 118.75′
ADDITIONAL GUARDRAIL POSTS = 5

ANCHOR DEDUCTION – SHOP CURVE
TYPE III: 1 @ 18.75′ = 18.75′
GRAND TOTAL = 18.75′

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PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	4

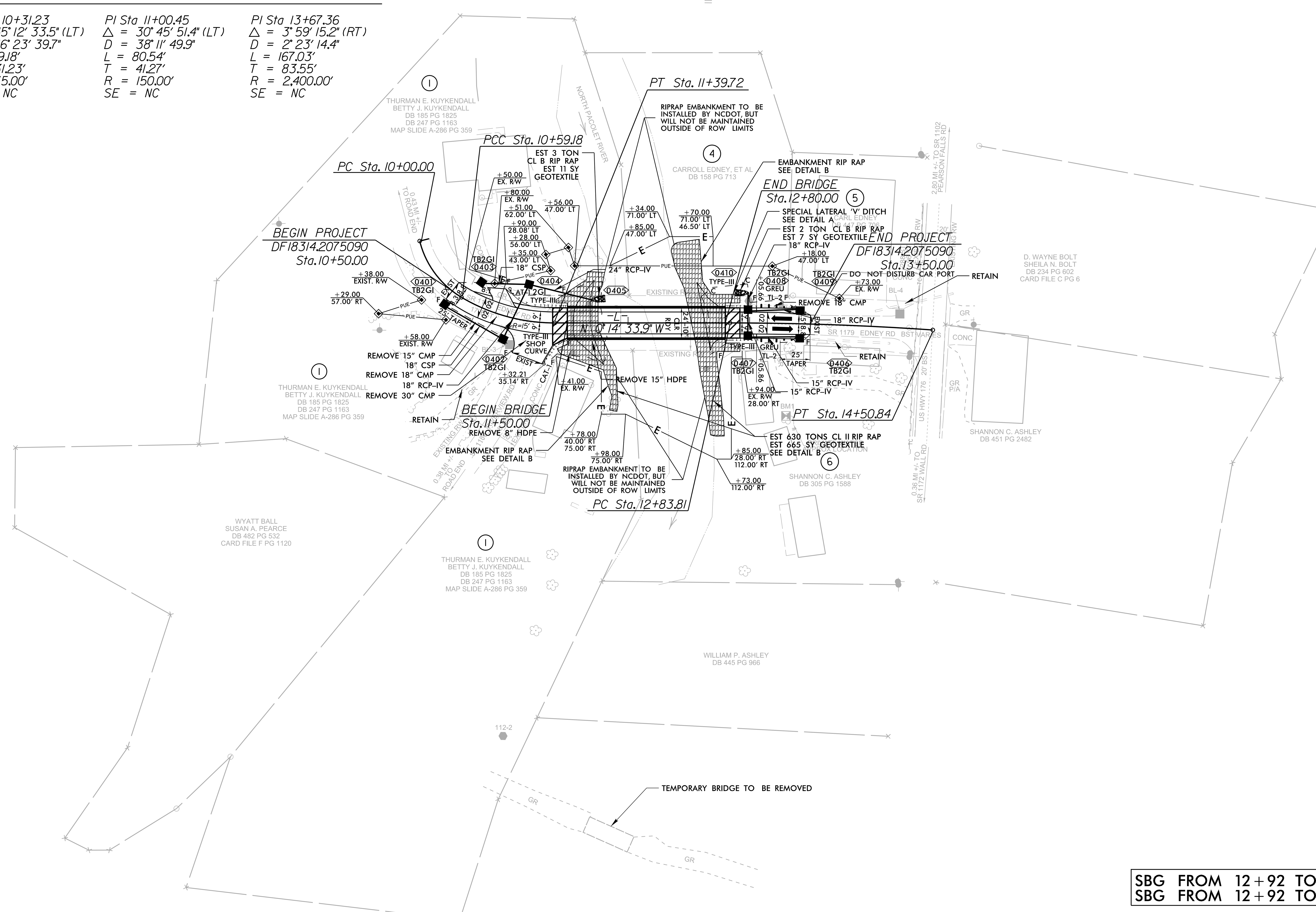
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 059503 ENGINEER MATTHEW A. POPPELL 10/6/2025	NORTH CAROLINA PROFESSIONAL SEAL 049764 ENGINEER ALEXANDER R. VINSON 10/6/2025

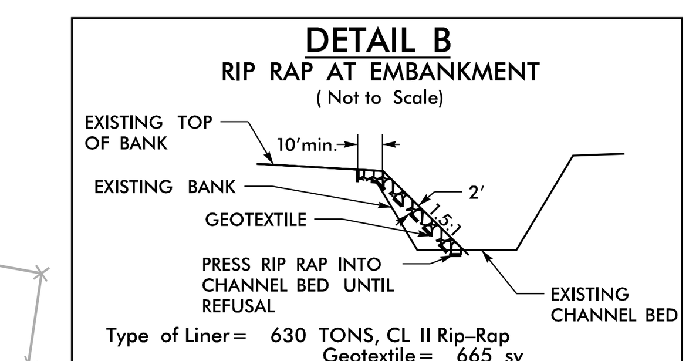
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

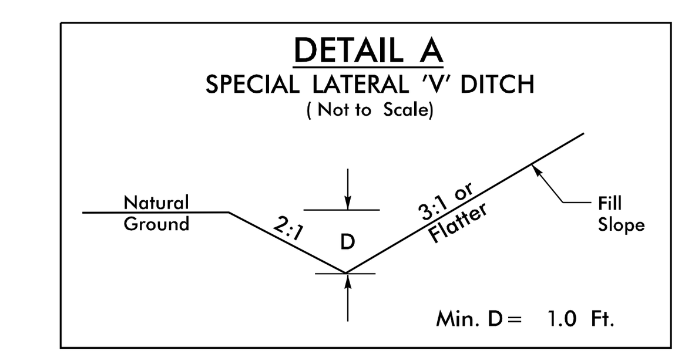
-L- CURVE DATA

PI Sta 10+31.23	PI Sta 11+00.45	PI Sta 13+67.36
Δ = 45° 12' 33.5" (LT)	Δ = 30° 45' 51.4" (LT)	Δ = 3° 59' 15.2" (RT)
D = 76° 23' 39.7"	D = 38° 11' 49.9"	D = 2° 23' 14.4"
L = 59.18'	L = 80.54'	L = 167.03'
T = 31.23'	T = 41.27'	T = 83.55'
R = 75.00'	R = 150.00'	R = 2,400.00'
SE = NC	SE = NC	SE = NC





AT -L- 11+63 STA. LT & RT AND 12+66 STA. LT & RT



FROM -L- 12+65 STA. TO 12+99 LT

SBG FROM 12+92 TO 13+06 -L- RT
SBG FROM 12+92 TO 13+06 -L- LT

SEE SHEET 5 FOR PROFILE

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-24

8/17/99

06-OCT-2025 11:52 ...\Projects\NCDOT\1003473400_Polk_112\03.00 Project Execution\03.04 Design\Roadway\Proj\740112_RDY_PSH.dgn

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	05

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 059503 ENGINEER MATTHEW A. POPPELL	NORTH CAROLINA PROFESSIONAL SEAL 049764 ENGINEER ALEXANDER R. VINSON
10/6/2025	10/6/2025

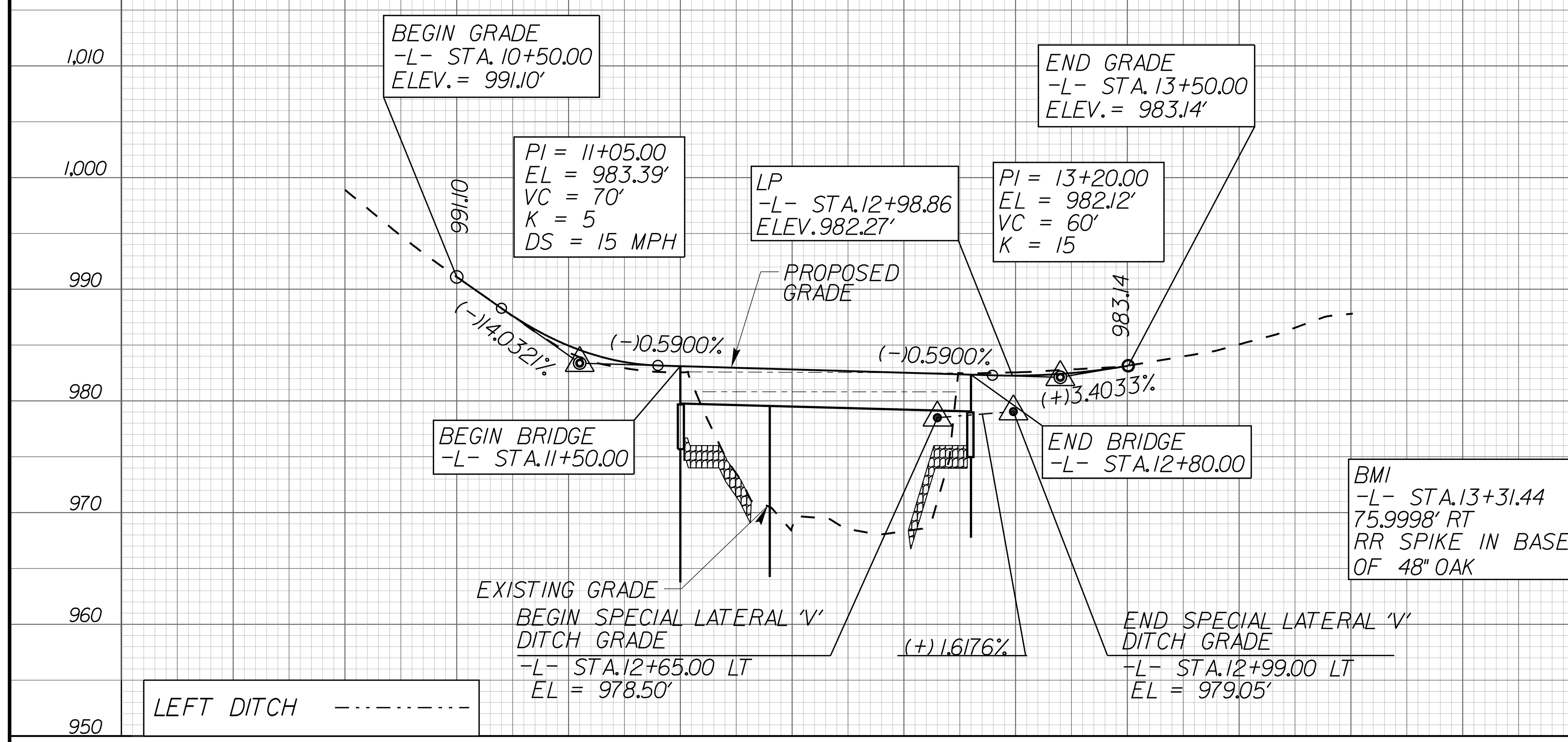
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

-L-

STRUCTURE HYDRAULIC DATA

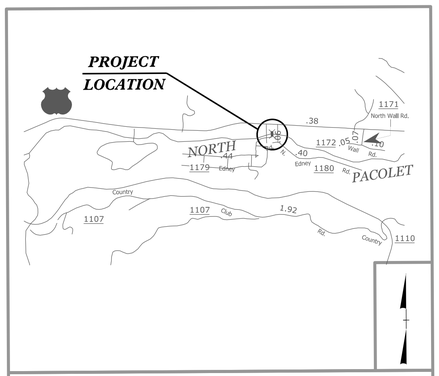
DRAINAGE AREA	=	17.2	SQ MI
DESIGN DISCHARGE	=	2610	CFS
DESIGN FREQUENCY	=	25	YRS
DESIGN HW ELEVATION	=	974.6	FT
BASE DISCHARGE	=	3860	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	975.9	FT
OVERTOPPING DISCHARGE	=	12000	CFS
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING ELEVATION	=	982.2	FT



SEE SHEET 04 FOR PLAN

09/08/99

TIP PROJECT: *DF18314.2075090*



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

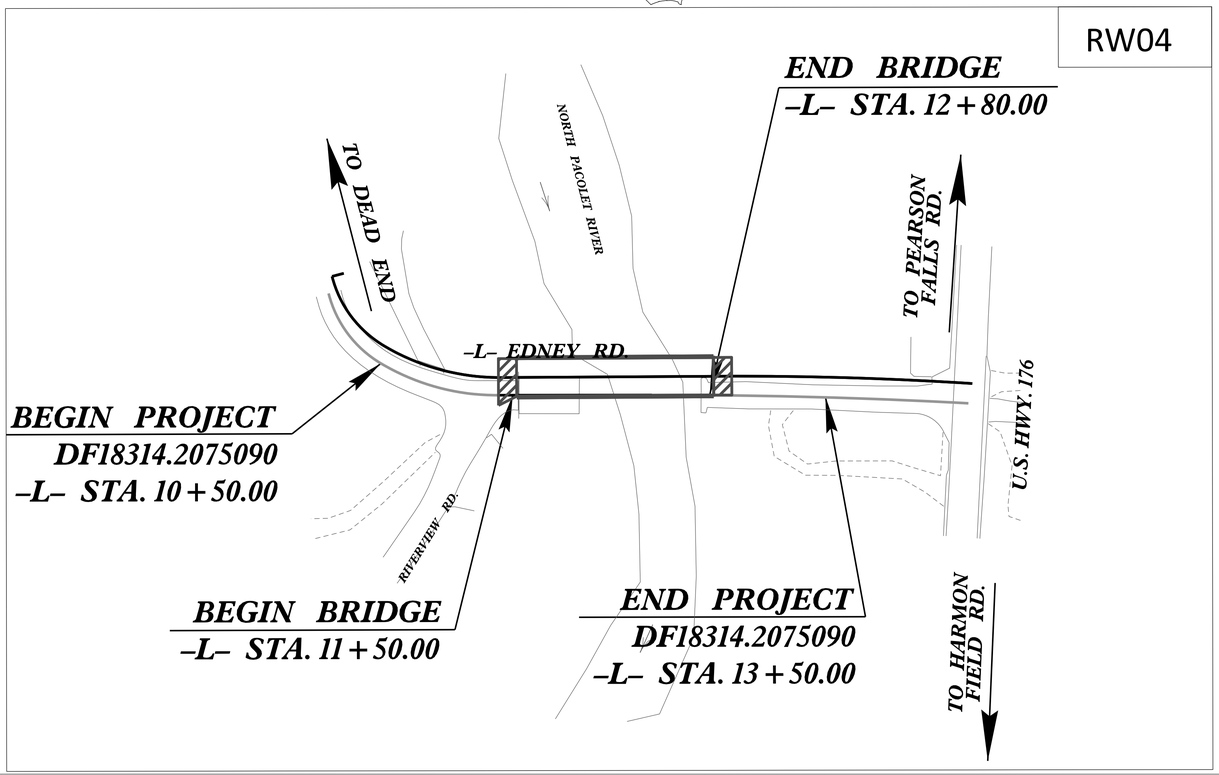
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18314.2075090	RW01	5

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

POLK COUNTY

NAD 83/2011

RW04



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

50' 25' 0' 50' 100'

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT 112-1
WITH NAD83/2011 STATE PLANE GRID COORDINATES OF
NORTHING: 552652.2940' EASTING: 1023375.1680'
ELEVATION: 981.31'
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998307
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

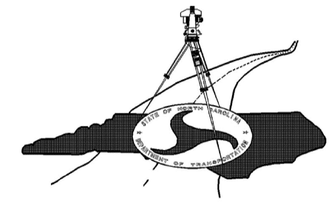
RIGHT OF WAY DATE: *March, 2025*

LETTING DATE: *March, 2025*

PROFESSIONAL LAND SURVEYOR

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

DocuSigned by: Brian Barnett 05/19/2025
ADDITIONAL INSURANCE
SIGNATURE: *DATE:*



5/26/20

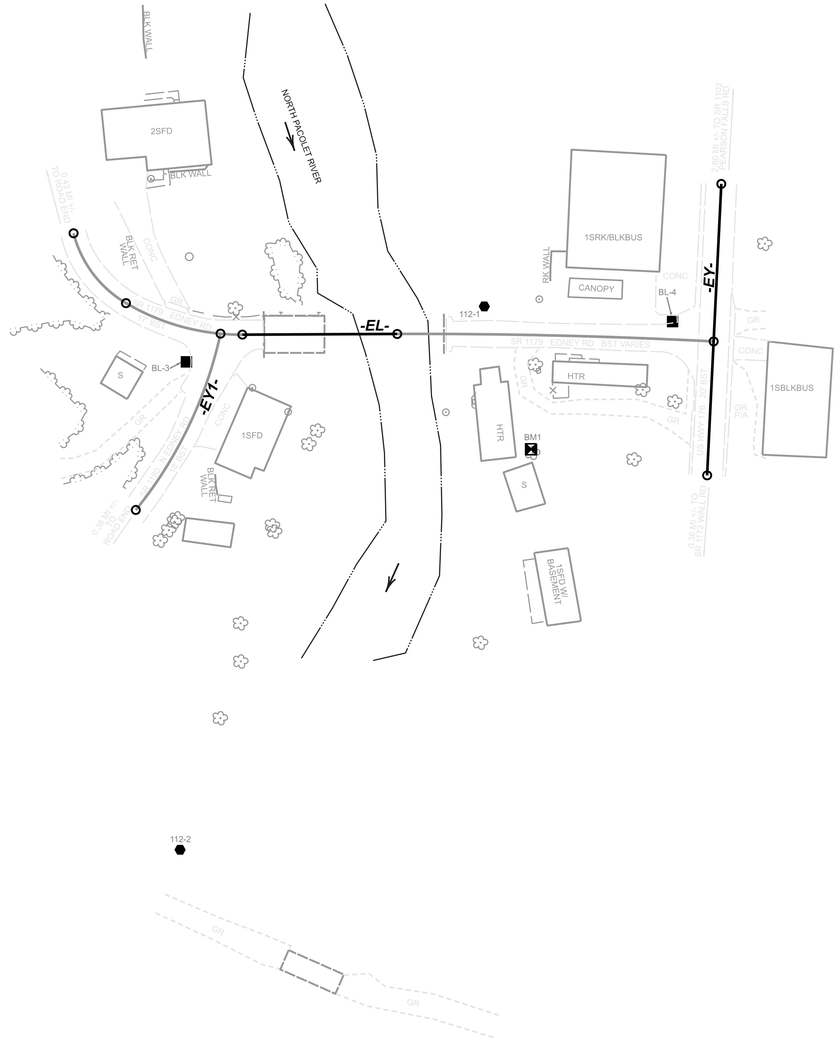
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE POINTS TABLE				
POINT	DESC	NORTH	EAST	ELEVATION
1	112-1	552652.2940	1023375.1680	981.3100
2	112-2	552451.5380	1023733.7190	970.3600
3	BL-3	552455.6030	1023411.7568	982.9100
4	BL-4	552776.5239	1023385.1428	986.5100

BENCHMARK TABLE				
POINT	DESC	NORTH	EAST	ELEVATION
BM1	RR SPIKE IN 48" OAK	552683.1783	1023469.4335	981.9700

NC GRID
NAD 83 NA 2011



I, MATTHEW T. CORNWELL, PLS, CERTIFY THAT THE PROJECT CONTROL WAS [PERFORMED/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: RTN
DATES OF SURVEY: OCTOBER 11, 2024
DATUM/EPOCH: NAD83/2011
PUBLISHED/FIXED-CONTROL USE: N/A
LOCALIZED AROUND: 112-1
NORTHING: 552652.294
EASTING: 1023375.168
COMBINED GRID FACTOR: 0.9998307
GEOID MODEL: GEOID18
UNITS: US 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 OCTOBER 2024, AND ALL COORDINATES ARE BASED ON NAD 83/NA 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 10/23/2024

DocuSigned by:
Matthew Cornwell
EBD36F114738475...

PROFESSIONAL LAND SURVEYOR L-4775

EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
PC	552381.2388	1023326.8777							
CURVE					45°12'33.5" Left	76°23'39.7"	59.179	31.227	75.000
PCC	552415.8353	1023372.9998							
CURVE					30°45'51.4" Left	38°11'49.9"	80.541	41.267	150.000
PT	552492.6501	1023393.7827							
LINE			N00°14'33.9"W	102.1818					
PC	552594.8310	1023393.3497							
CURVE					03°11'15.7" Right	01°31'33.1"	208.912	104.483	3755.000

EXISTING ALIGNMENT NAME:EY									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	552808.7130	1023294.3224							
LINE			S87°12'58.6"E	192.5572					
END	552799.3613	1023486.6523							

EXISTING ALIGNMENT NAME:EY1									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
PC	552478.2249	1023393.1488							
CURVE					26°38'58.5" Right	20°27'46.0"	130.234	66.317	280.000

50' 25' 0' 50' 100'

NOTES:

1. 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.

740112
R/W | 02C-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR
NORTH CAROLINA PROFESSIONAL SEAL L-4775 LAND SURVEYOR MATTHEW T. CORNWELL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS

TIP PROJECT: 740112
County: Polk

PREPARED FOR

LOCATION AND SURVEYS UNIT

PREPARED BY

TGS ENGINEERS
201 WEST MARION ST.
SUITE 200
SHELBY, NC 28150
704-476-0003

TGS ENGINEERS

5/26/20

PROPOSED ALIGNMENT CONTROL SHEET

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 7TH DAY OF MAY, 2025.

DocuSigned by:
Brian Barwatt
A9355FE84A8AACE...

PROFESSIONAL LAND SURVEYOR L-4727

PROPOSED ALIGNMENT: L												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START/PC	10+00.00	552381.2388	1023326.8777	N53°07'34.2"E	57.6556	45°12'33.5"	76°23'39.7"	59.1789	31.2266	75.0000		
PCC	10+59.18	552415.8353	1023372.9998	N15°08'21.8"E	79.5767	30°45'51.4"	38°11'49.9"	80.5407	41.2666	150.0000		
PT	11+39.72	552492.6501	1023393.7827	N00°14'33.9"W	144.0905							
PC	12+83.81	552636.7393	1023393.1722	N01°45'03.7"E	166.9972	03°59'15.2"	02°23'14.4"	167.0309	83.5492	2400.0000		
END	14+50.84	552803.6585	1023398.2750									

NOTES:

1. 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.

DF18314.2075090

R/W | 02D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS

TIP PROJECT: *DF18314.2075090*

County: POLK

PREPARED FOR

LOCATION AND SURVEYS UNIT

PREPARED BY

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

5/26/20

RIGHT OF WAY CONTROL SHEET

I , BRIAN BARWATT , PLS, 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 4/23/25, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 7TH DAY OF MAY, 2025.

DocuSigned by:
Brian Barwatt
A3550FE84ABA4CE...

PROFESSIONAL LAND SURVEYOR L-4727

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L				
STATION	OFFSET	NORTH	EAST	
10+29.00	57.00	552347.7111	1023386.7668	
10+38.00	22.50	552382.9659	1023375.2580	
10+58.00	22.50	552403.0944	1023391.5935	
10+80.00	-22.50	552443.0816	1023361.5202	-POINT NOT SET (IN DRIVEWAY)
11+28.00	-56.00	552485.0749	1023337.5275	
11+35.00	-43.00	552489.1016	1023350.7443	
11+51.00	-62.00	552503.6677	1023331.7354	
11+56.00	-47.00	552508.7313	1023346.7141	
13+18.00	-47.00	552671.3992	1023346.2732	
13+73.00	-21.87	552726.6349	1023372.5943	

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

DF18314.2075090

R/W | 03E-I

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS

TIP PROJECT: *DF18314.2075090*

County: POLK

PREPARED FOR

LOCATION AND SURVEYS UNIT

PREPARED BY

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

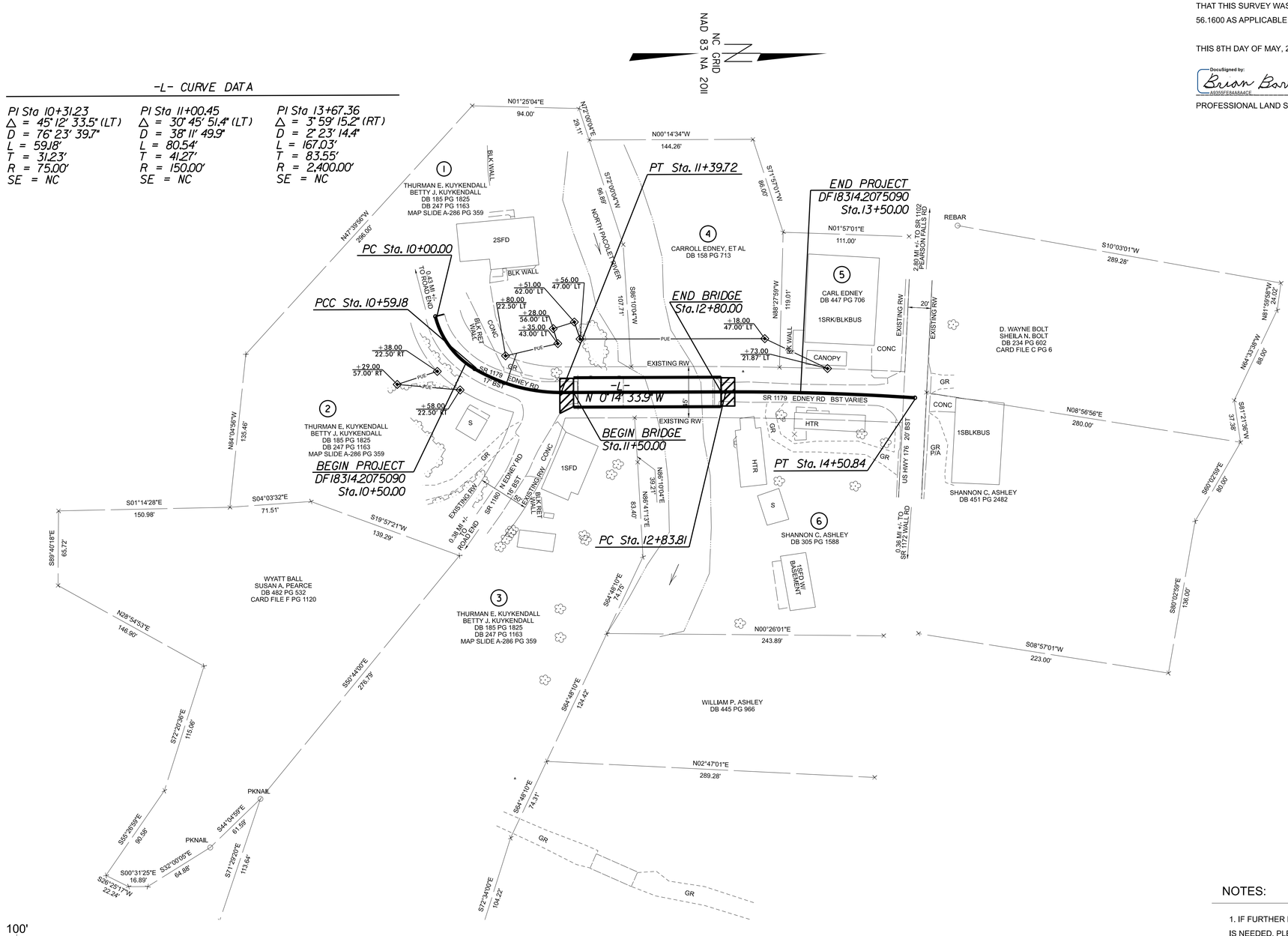
5/26/20

-L- CURVE DATA

PI Sta 10+31.23
Δ = 45° 12' 33.5" (LT)
D = 76° 23' 39.7"
L = 59.18'
T = 31.23'
R = 75.00'
SE = NC

PI Sta 11+00.45
Δ = 30° 45' 51.4" (LT)
D = 38° 11' 49.9"
L = 80.54'
T = 41.27'
R = 150.00'
SE = NC

PI Sta 13+67.36
Δ = 3° 59' 15.2" (RT)
D = 2° 23' 14.4"
L = 167.03'
T = 83.55'
R = 2,400.00'
SE = NC



I , BRIAN BARWATT , PLS, 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 4/23/25, AND ALL COORDINATES ARE BASED ON NAD83/NA 2011; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

THIS 8TH DAY OF MAY, 2025.

DocuSigned by:
Brian Barwatt
A9355FE8A48A4CE...

PROFESSIONAL LAND SURVEYOR L-4727

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

DF18314.2075090

R/W | 04

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS

TIP PROJECT: DF18314.2075090
County: POLK

PREPARED FOR

LOCATION AND SURVEYS UNIT

PREPARED BY

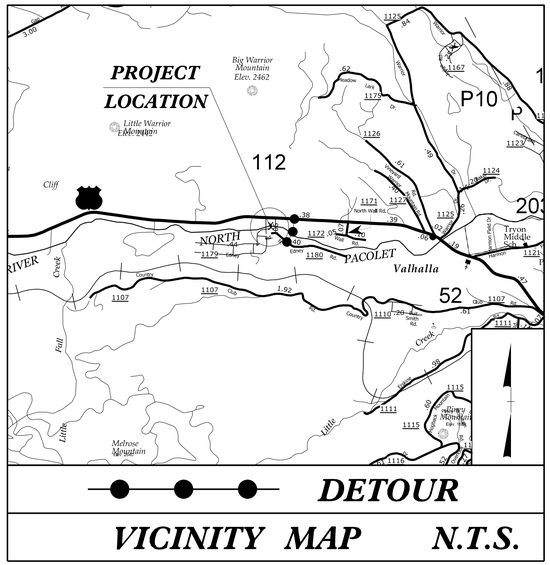
LOCATION AND SURVEYS DIVISION 14
122 BONNIE LANE
SYLVA, NC 28779

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

POLK COUNTY

LOCATION: BRIDGE 740112 OVER PACOLET RIVER ON EDNEY ROAD
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE



VICINITY MAP N.T.S.

INDEX OF SHEETS

SHEET NO.
TMP-1

T.I.P.: DF18314.2075090

CONTRACT: DN01119

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

PLANS PREPARED BY:

SEAN KORTOVICH, P.E.
PROJECT ENGINEER

NIKI AVGERINOS, P.E.
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

ZACHARY SHULER, P.E.
NCDOT PROJECT MANAGER

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: Signed by: Niki E Avgerinos 67897FCD3365486E...

DATE: 10/6/2025

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKI E. AVGERINOS

9/24/2025
R:\Traffic\TrafficControl\740112_tmp_tsh.dgn
User:AvgerinN

PROJ. REFERENCE NO.	SHEET NO.
DF18314.2075090	TMP-1A

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

MANAGEMENT STRATEGY

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:
- FULL ROADWAY CLOSURES
- OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

CORRIDOR / NETWORK MANAGEMENT STRATEGIES:
- STREET / INTERSECTION IMPROVEMENTS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL

SIGNALS

EXISTING | PROPOSED | TEMP TEMPORARY | PORT PORTABLE

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM | SKINNY DRUM | TUBULAR MARKER
- 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

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

APPROVED: Signed by: Nikki E Avgerinos 67897FCD3365548E...

DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKKI E AVGERINOS

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

9/24/2025
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User:AvgerinN

PROJ. REFERENCE NO.	SHEET NO.
DF18314.2075090	TMP-2

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.

A) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

B) 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.

C) 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.

D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, 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 WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

E) 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.

F) 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.

G) DO NOT INSTALL MORE THAN 300 FT OF LANE CLOSURE ON US 176 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON US 176.

I) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) 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.

K) 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

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

SIGNING

M) 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.

N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

   PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

   COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

R) 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.

S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

T) 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.

U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

V) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

W) 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) 350 FT AND 700 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

APPROVED: Signed by: Nikki E Avgerinos 67897FCD3365486... DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKKI E AVGERINOS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
DF18314.2075090	TMP-2A

SIGN NUMBER:DETOUR
TYPE: D
QUANTITY: 1

SIGN WIDTH: 2′-0″
HEIGHT: 1′-6″
TOTAL AREA: 3.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0.38″
WIDTH: 0.63″
RADII: 1.5″

NO. Z BARS:
LENGTH:

BACKG COLOR: Orange
COPY COLOR: Black

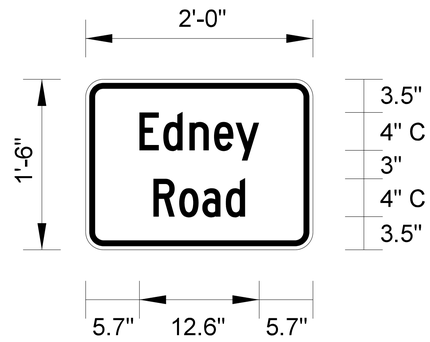
SYMBOL	X	Y	WID	HT

MAT′L: 0.125″ (3.2 mm) ALUMINUM

USE NOTES:

1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

DESIGN BY: NEA
PROJECT ID: DF18314.2075090
CHECKED BY: SMK
LOCATION: POLK COUNTY
Sep 23, 2025
DIV: 14



BORDER
R=1.5"
TH=0.63"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner																											Series/Size Text Length
	E	d	n	e	y																						C 2000
	5.7	8.2	11	13.6	15.8																						12.6
	R	o	a	d																							C 2000
	7.2	9.9	12.3	14.8																							9.7

FILENAME: 740112_tmp_Edney Rd detour sign dsn

NORTH CAROLINA D.O.T. SIGN DETAIL

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

APPROVED: Signed by: Nikki E Avgerinos 67897FCD336548E...
DATE: 10/6/2025
SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 058284 NIKKI E AVGERINOS

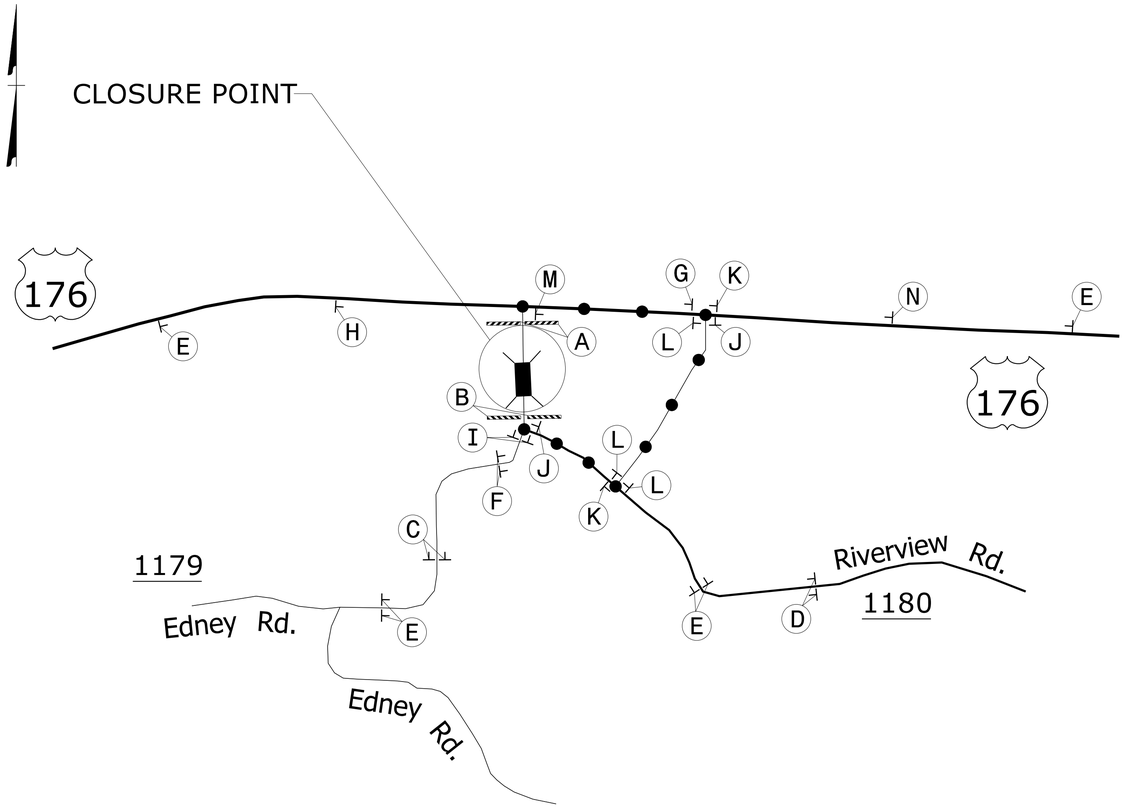
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

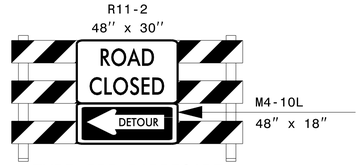
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

EDNEY ROAD
DETOUR
SIGN DESIGN

9/24/2025
R:\Traffic\TrafficControl\740112_tmp_Edney Rd detour sign dsn.dgn
User:AvgerinN

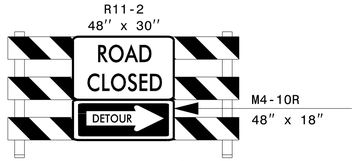
PROJ. REFERENCE NO.	SHEET NO.
DF18314.2075090	TMP-2B





TYPE III BARRICADE

A



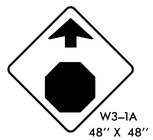
TYPE III BARRICADE

B

C

D

E



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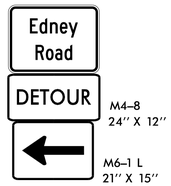
G

H

I

J



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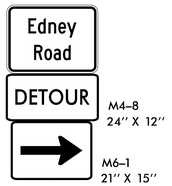

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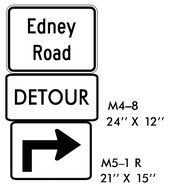

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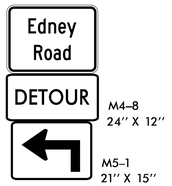


N

LEGEND

DETOUR ROUTE

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

APPROVED: Signed by: Nikki E Avgerinos 67897FCD336048E...

DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKKI E AVGERINOS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

EDNEY ROAD DETOUR ROUTE

9/24/2025
R:\Traffic\TrafficControl\74012_tmp_detour.dgn
User:AvgerinN

PROJ. REFERENCE NO.	SHEET NO.
DF18314.2075090	TMP-3

PHASING NOTES

NOTES:

'RSD' REFERS TO NCDOT ROADWAY STANDARD DRAWINGS.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MATTER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

ALL PROPOSED ASPHALT ROADWAY CONSTRUCTION IS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNLESS OTHERWISE NOTED.

MAINTAIN ALL DRIVEWAY ACCESS AT ALL TIMES.

PHASE I STEP 1:

USING RSD 1101.01 (SHEET 3 OF 3), PLACE ALL ADVANCE WARNING SIGNS ALONG -L- (EDNEY RD).

PHASE I STEP 2:

USING RSD 1101.02 (SHEET 1 OF 19), RSD 1101.03 (SHEET 2 OF 9) AND EXISTING OFF-SITE DETOUR, COMPLETE ALL PROPOSED STRUCTURE AND ROADWAY CONSTRUCTION ALONG -L- (EDNEY RD) UP TO THE FINAL LAYER OF SURFACE COURSE INCLUDING MILL AND FILL AND DRAINAGE AWAY FROM TRAFFIC.

PHASE II STEP 1:

USING RSD 1101.02 (SHEET 1 OF 19), RSD 1101.03 (SHEET 2 OF 9) AND EXISTING OFF-SITE DETOUR, PLACE ALL FINAL MARKINGS AND MARKERS ALONG -L- (EDNEY RD).

ONCE ALL FINAL PAVEMENT MARKINGS AND MARKERS HAVE BEEN PLACED, OPEN -L- (EDNEY RD) AND PLACE TRAFFIC IN THE FINAL PATTERN.

PHASE II STEP 2:

WITH TRAFFIC PLACED ON -L- (EDNEY RD), CLOSE DETOUR AND USE RSD 1101.02 (SHEET 1 OF 19) TO REMOVE GRAVEL AND TEMPORARY STRUCTURE FROM THE EXISTING OFF-SITE DETOUR.

PHASE III:

REMOVE ALL TRAFFIC CONTROL DEVICES FROM THE PROJECT LIMITS.

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

APPROVED: Signed by: Nikki E Avgerinos B7697FCD336548E...

DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKKI E AVGERINOS

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

9/24/2025
R:\Traffic\TrafficControl\74012_tmp_phasing.dgn
User:AvgerinN

T.I.P.: DF18314.2075090

CONTRACT: DN01119

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO.	SHEET NO.
DF18314.2075090	PMP-1

APPROVED: Signed by: Niki E. Avgerinos 67897FCD336548E...

DATE: ~~10/6/2025~~

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKI E AVGERINOS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PAVEMENT MARKING PLAN
POLK COUNTY

LOCATION: BRIDGE 740112 OVER PACOLET RIVER ON EDNEY ROAD

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

INDEX

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND 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 AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	N/A

B) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

C) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

D) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING THERMOPLASTIC PAVEMENT MARKING MATERIAL.

E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

PAVEMENT MARKING SCHEDULE

T1	WHITE EDGELINE	THERMOPLASTIC (4", 90 MIL)
T5	2'-6'/SP WHITE MINISKIP	THERMOPLASTIC (4", 90 MIL)
T13	YELLOW DOUBLE CENTER	THERMOPLASTIC (4", 90 MIL)
T61	WHITE STOPBAR	THERMOPLASTIC (24", 90 MIL)

PLAN SUBMITTED TO: NCDOT WESTERN REGION

KELVIN L. JORDAN SIGNING AND DELINEATION REGIONAL ENGINEER

ASHLEY K. MATTHEWS, PE SIGNING AND DELINEATION PROJECT DESIGN ENGINEER

PLAN PREPARED BY: RS&H

NIKI AVGERINOS, PE PROJECT ENGINEER

REBECCA WRIGHT, PE PROJECT DESIGNER

RS&H

NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615

7/31/2025
R:\TIP\DF18314\Delineation\740112_pmp_tsh.dgn
User:AvgerinN

TIP NO.	SHEET NO.
DF18314.2075090	PMP-2

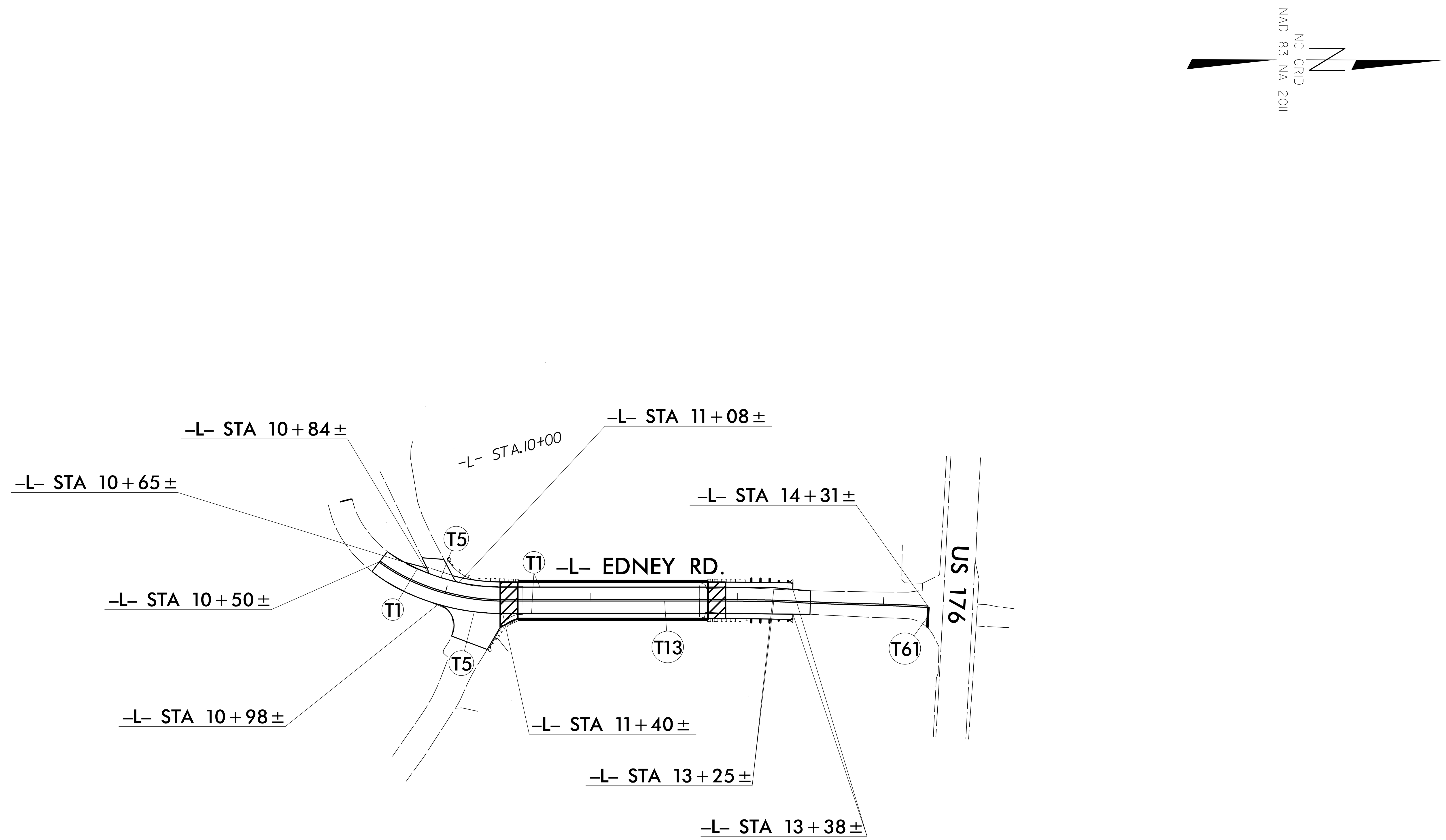
APPROVED: Signed by: Niki E. Avgerinos

DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKI E. AVGERINOS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

PAVEMENT MARKING DETAIL

TIP PROJECT: DF18314.2075090

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18314.2075090	EC-1	7

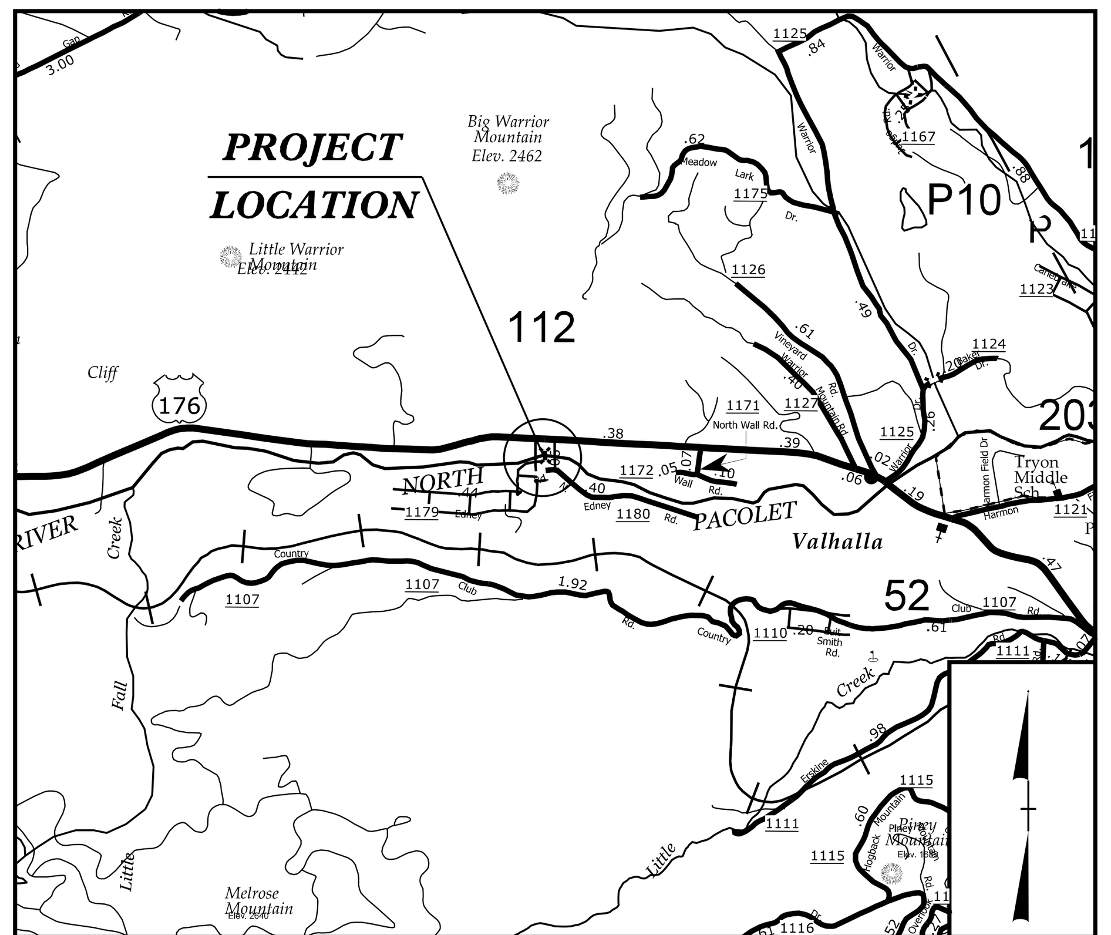
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
DF18314.2075090	N/A	ROW
DF18314.2075090	N/A	CON

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

POLK COUNTY

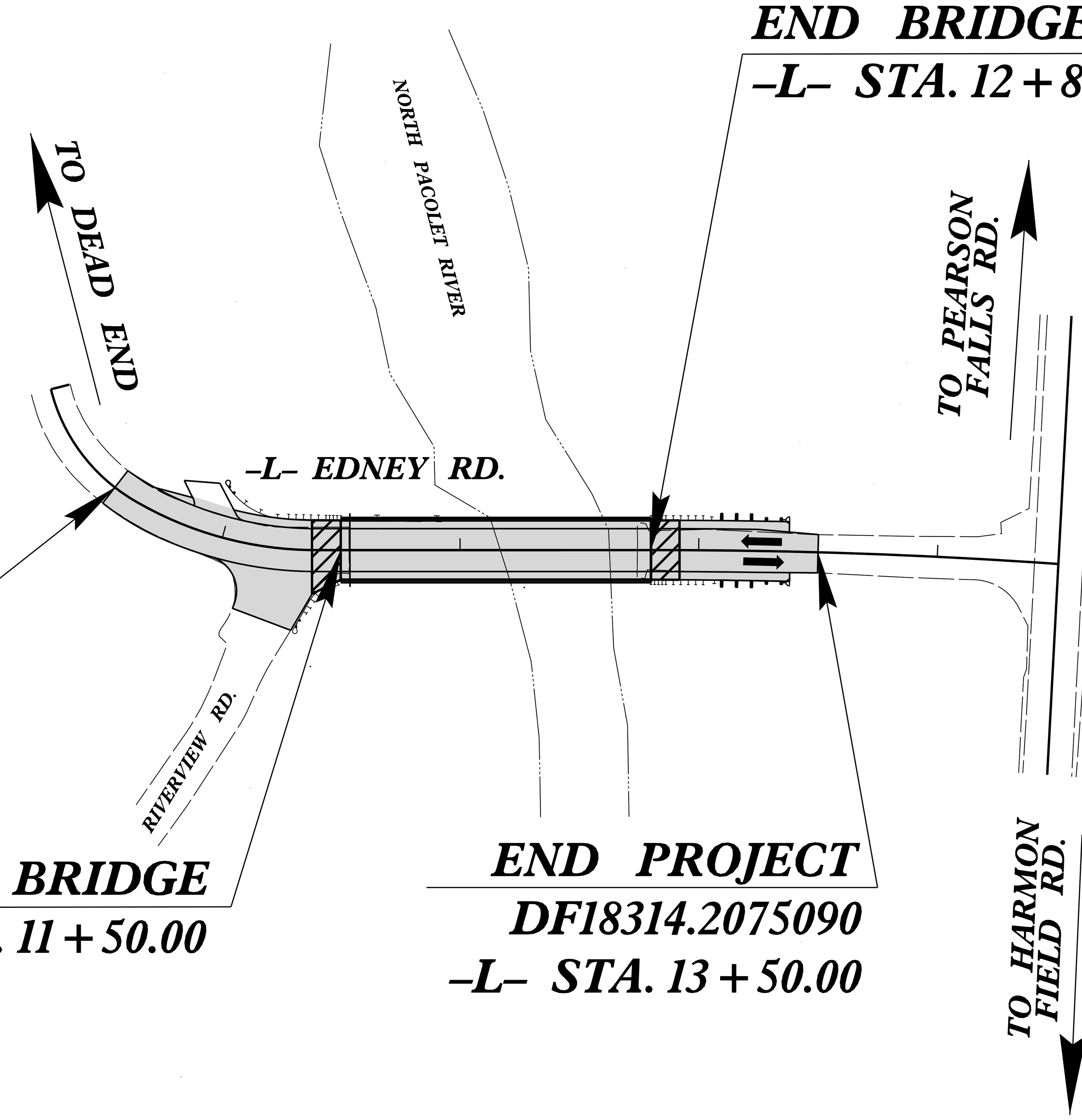
LOCATION: BRIDGE 740112 OVER NORTH PACOLET RIVER ON SR 1179 (EDNEY ROAD)
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE



DETOUR

VICINITY MAP N.T.S.

NAD 83/2011

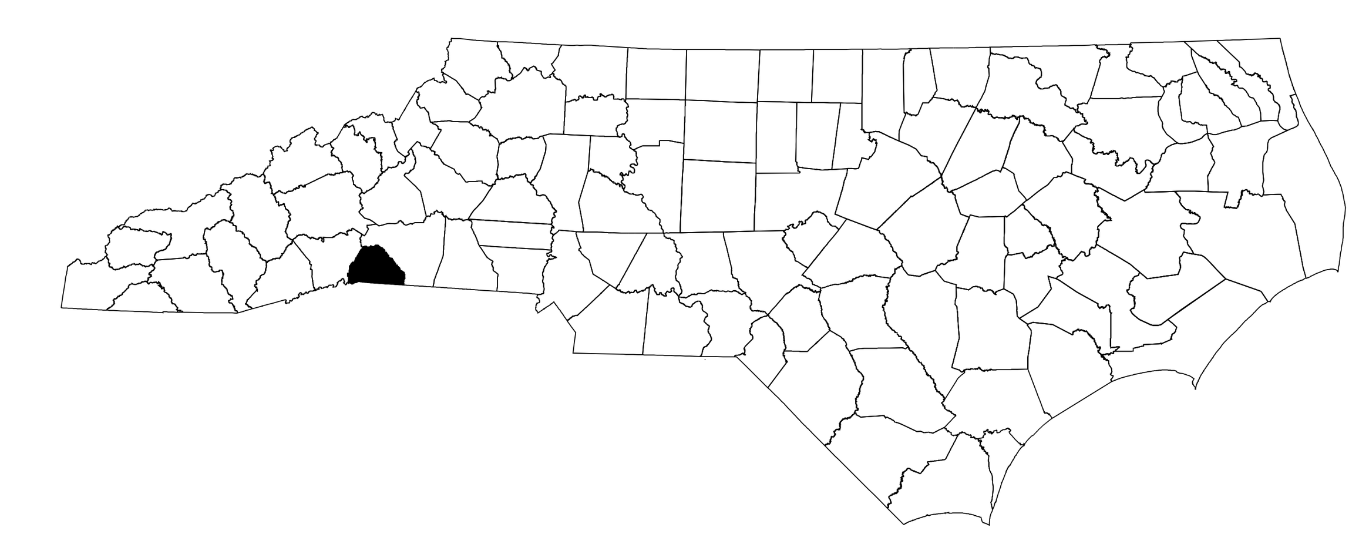


BEGIN PROJECT
DF18314.2075090
-L- STA. 10+50.00

BEGIN BRIDGE
-L- STA. 11+50.00

END BRIDGE
-L- STA. 12+80.00

END PROJECT
DF18314.2075090
-L- STA. 13+50.00



ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

GRAPHIC SCALE

50 25 0 50 100

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

RS&H

Prepared In the Office of:

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

Designed by:

NAME	LEVEL III CERTIFICATION NO.
RYAN WIRBELAUER	4797

Roadway Standard Drawings

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

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	EC-2

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

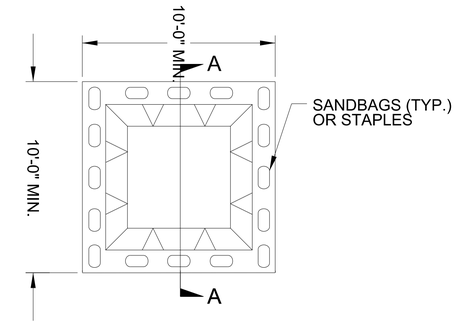
EROSION & SEDIMENT CONTROL LEGEND

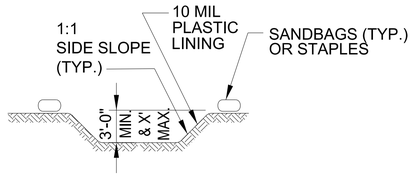
Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
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	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1636.03	Coir Fiber Wattle Barrier	—CFW—CFW—CFW—

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	EC-2A

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER





PLAN

SECTION A-A

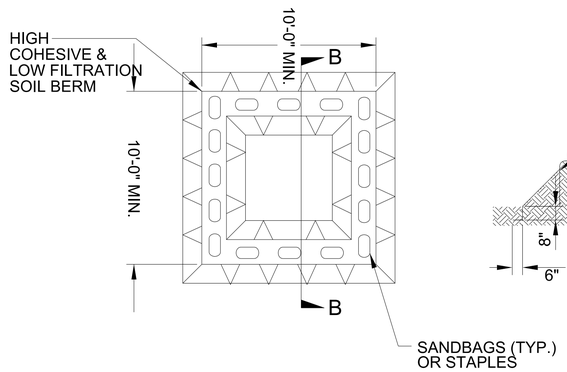
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

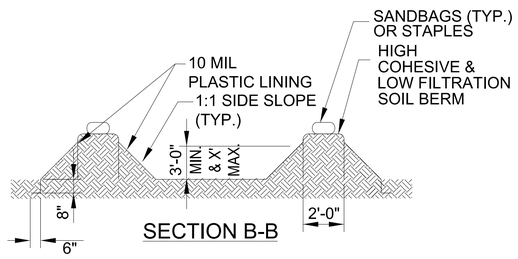
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

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

BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE





SECTION B-B

PLAN

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 CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	EC-3

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

STRAW MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	12+65	12+99	LT	25
				SUBTOTAL	25
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					5
				TOTAL	30
				SAY	30

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	EC-3A

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 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	EC-4/CONST.4

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

8/17/99

REVISIONS

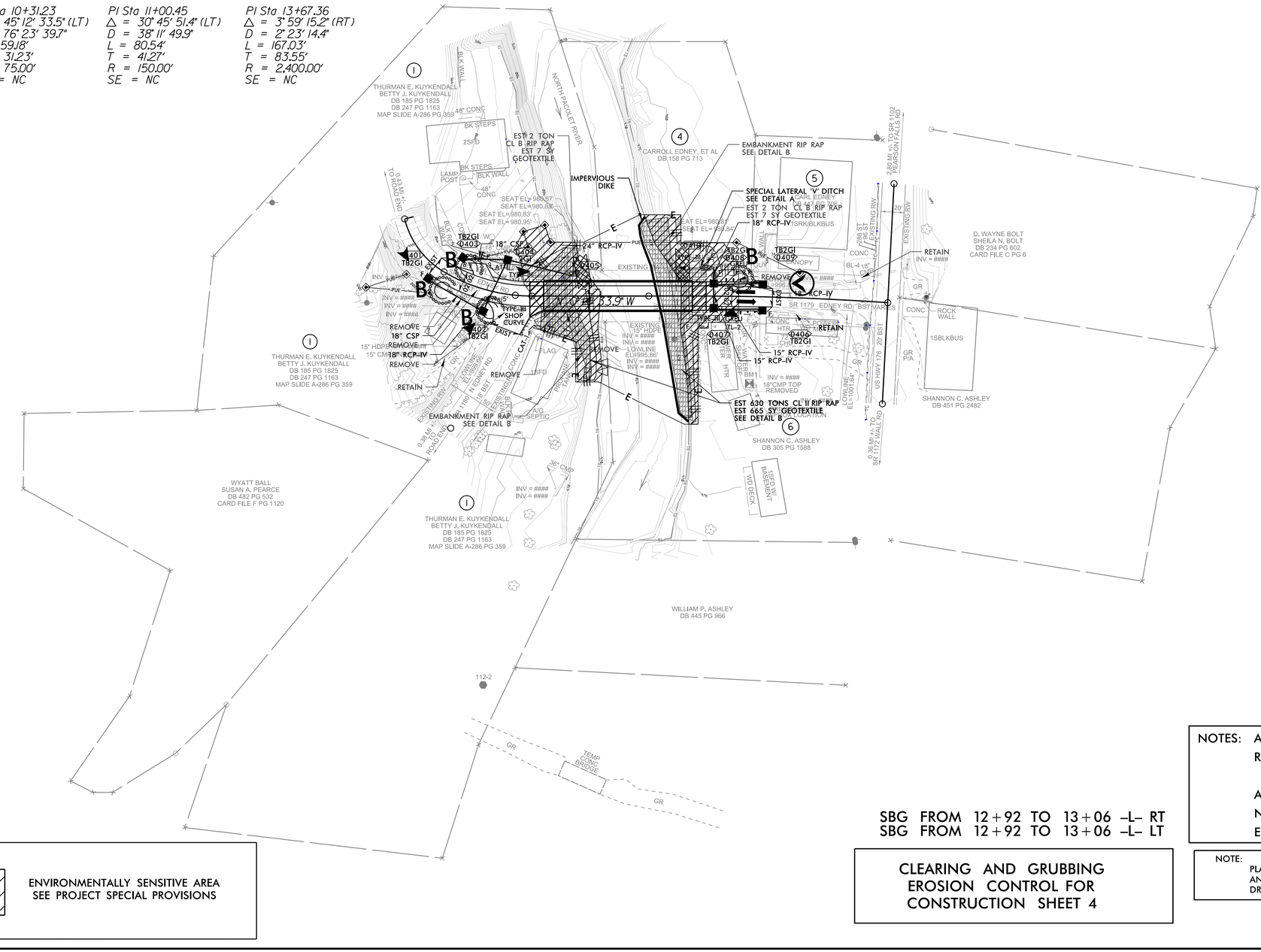
-L- CURVE DATA

PI Sta 10+31.23
△ = 45° 12' 33.5" (LT)
D = 76° 23' 39.7"
L = 59.18'
T = 31.23'
R = 75.00'
SE = NC

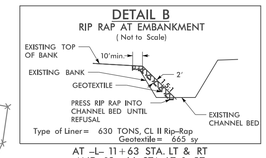
PI Sta 11+00.45
△ = 30° 45' 51.4" (LT)
D = 38° 11' 49.9"
L = 80.54'
T = 41.27'
R = 150.00'
SE = NC

PI Sta 13+67.36
△ = 3° 59' 15.2" (RT)
D = 2° 23' 14.4"
L = 167.03'
T = 83.55'
R = 2,400.00'
SE = NC

NC GRID
NAD 83 NA 2011



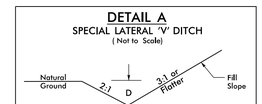
DETAIL B
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner = 630 TONS, CL II Rip-Rap
Geotextile = 665 sy

AT -L- 11+63 STA. LT & RT
AND 12+66 STA. LT & RT

DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM -L- 12+65 STA. TO 12+99 LT

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

SBG FROM 12+92 TO 13+06 -L- RT
SBG FROM 12+92 TO 13+06 -L- LT

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

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

BRIDGE APPROACH SLAB

24-APR-2025 13:05
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PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	EC-5/CONST.4

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

8/17/99

REVISIONS

-L- CURVE DATA

PI Sta 10+31.23
△ = 45° 12' 33.5" (LT)
D = 76° 23' 39.7"
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R = 75.00'
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PI Sta 11+00.45
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L = 80.54'
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D = 2° 23' 14.4"
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T = 83.55'
R = 2,400.00'
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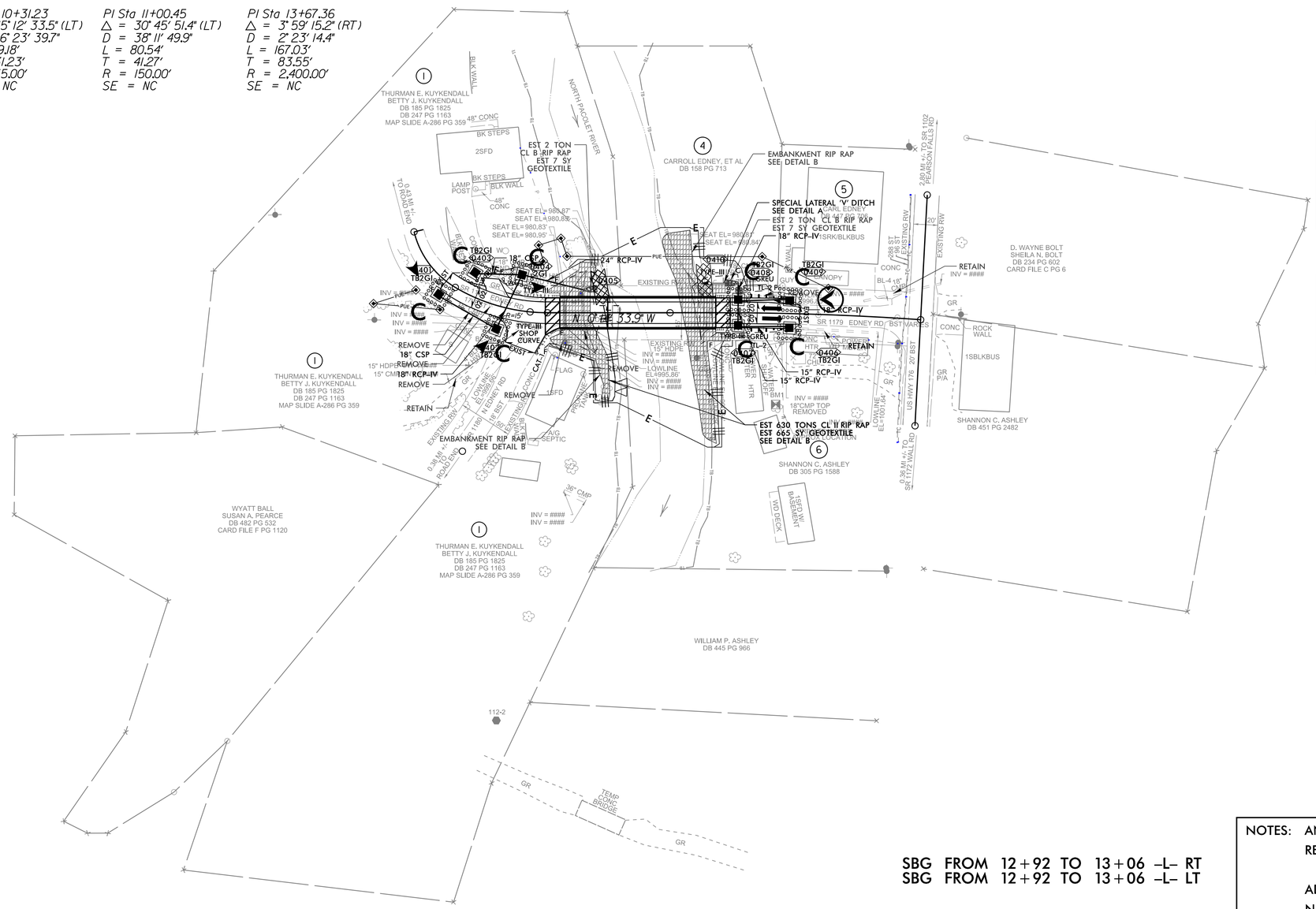
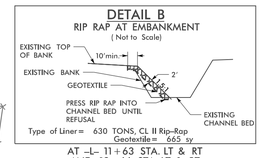
NAD 83 NA 2011 NC GRID



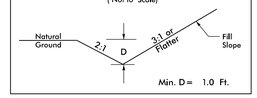
DETAIL B
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= 630 TONS, CL II Rip-Rap
Geotextile= 665 sy

AT -L- 11+63 STA. LT & RT
AND 12+66 STA. LT & RT

DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



Min. D= 1.0 Ft.

FROM -L- 12+65 STA. TO 12+99 LT

SBG FROM 12+92 TO 13+06 -L- RT
SBG FROM 12+92 TO 13+06 -L- LT

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

BRIDGE APPROACH SLAB

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$$$$USERNAME$$$$

T.I.P.: DF18314.2075090

CONTRACT: DN01119 TO

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO.	SHEET NO.
DF18314.2075090	SIGN-1

APPROVED: Signed by: Niki E. Avgerinos 67E97FCD336548E...

DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKI E. AVGERINOS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGNING PLAN
POLK COUNTY

LOCATION: BRIDGE 740112 OVER PACOLET RIVER ON EDNEY ROAD
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- SIGNS FURNISHED BY STATE
- CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

ITEM NO. DESC. NO.	ITEM NO. SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	13	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	20	L.F.
4102000000	904	SIGN ERECTION, TYPE E	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	2	EA.

INDEX

PLAN SUBMITTED TO: NCDOT WESTERN REGION

KELVIN L. JORDAN	SIGNING & DELINEATION REGIONAL ENGINEER
ASHLEY K. MATTHEWS, PE	SIGNING & DELINEATION PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION

PLAN PREPARED BY: RS&H

NIKI AVGERINOS, PE	PROJECT ENGINEER
REBECCA WRIGHT, P.E.	PROJECT DESIGN ENGINEER

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615

9/23/2025
R:\Traffic\Signing\740112_sign_tsh.dgn
User:AVgerinN

401 QUANTITY REQ'D 1

30 X 30
R1-1

ONE "U" POST PER SIGN

402 QUANTITY REQ'D 1

30 X 30
W14-2

ONE "U" POST PER SIGN

TIP NO.	SHEET NO.
DF18314.2075090	SIGN-2

APPROVED Signed by: Nikki E Avgerinos 67897FCD33654BE...

DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKKI E AVGERINOS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

TYPE "E" SIGNS

9/23/2025
R:\Traffic\Signing\740112_sign_E signs.dgn
User:NAvgerinN

TIP NO.	SHEET NO.
DF18314.2075090	SIGN-3

APPROVED: Signed by: Nikki E Hagerman 67697FCD3365A8E...

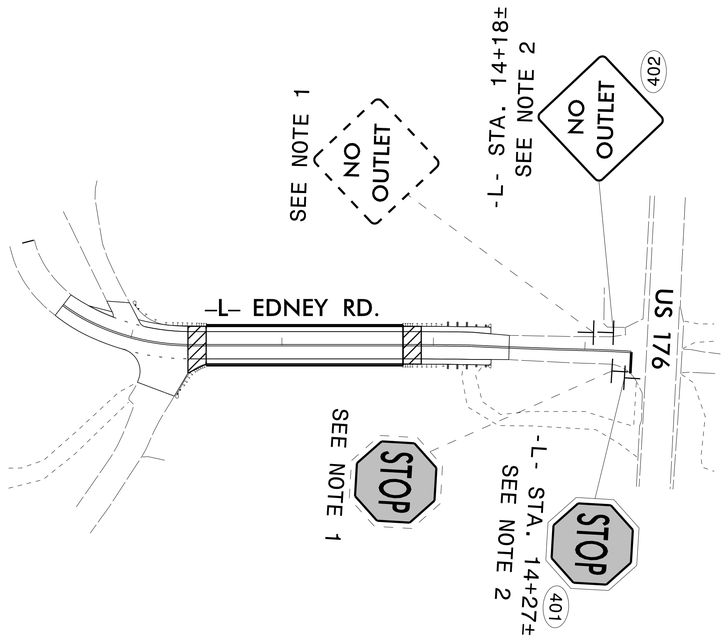
DATE: 10/6/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 058284 ENGINEER NIKKI E. HAGERMAN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NC GRID NAD 83 NA 2011



PROJECT NOTES

1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

2 SIGN ERECTION, TYPE E

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

PROPOSED AND EXISTING SIGNS

10/6/2025
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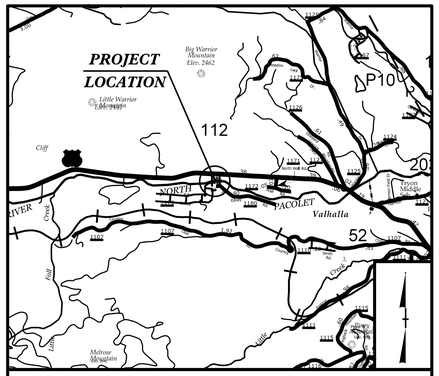
User:Nagerink

09/08/09

CONTRACT: PROJECT TIP: DF18314.2075090



DETOUR

VICINITY MAP N.T.S.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
DF18314.2075090	UO–1

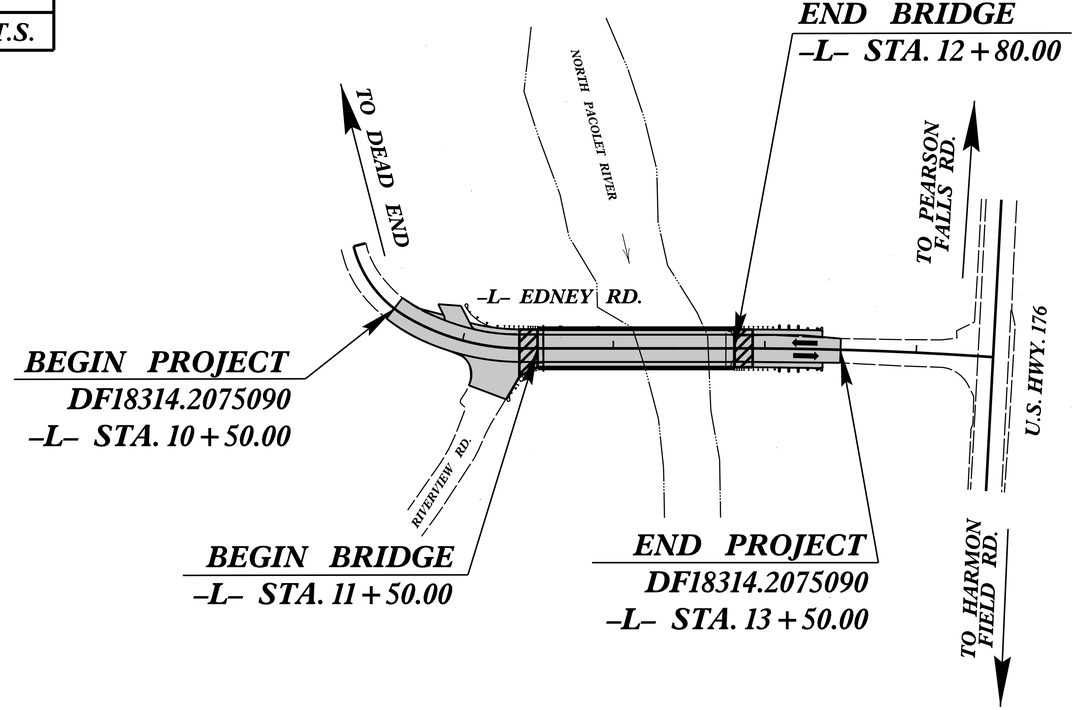
NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

UTILITIES BY OTHERS PLANS
POLK COUNTY

LOCATION: BRIDGE 740112 OVER PACOLET RIVER ON EDNEY ROAD

TYPE OF WORK: POWER (DISTRIBUTION) AND COMMUNICATIONS

NAD 83/2011



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

UTILITY OWNERS WITH CONFLICTS

(A) POWER – DUKE ENERGY
(B) COMMUNICATIONS – SPECTRUM
(C) COMMUNICATIONS – WINDSTREAM

PREPARED IN THE OFFICE OF:

RS&H
1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
NC FIRM LICENSE No: F-0493

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

Freddie Bunn — *UTILITY PROJECT MANAGER*
Brian Long — *PROJECT UTILITY COORDINATOR*

DIVISION OF HIGHWAYS
DIVISION 14
DIV ADDRESS
253 Webster Road
Sylva, NC 28779

Bob Golding — *DIVISION UTILITY ENGINEER*
Robert Dyer — *ASST. DIV. UTILITY ENGINEER*

4/2/2025
...\T40112_RDY_TSH.dgn

8/17/99

REVISIONS

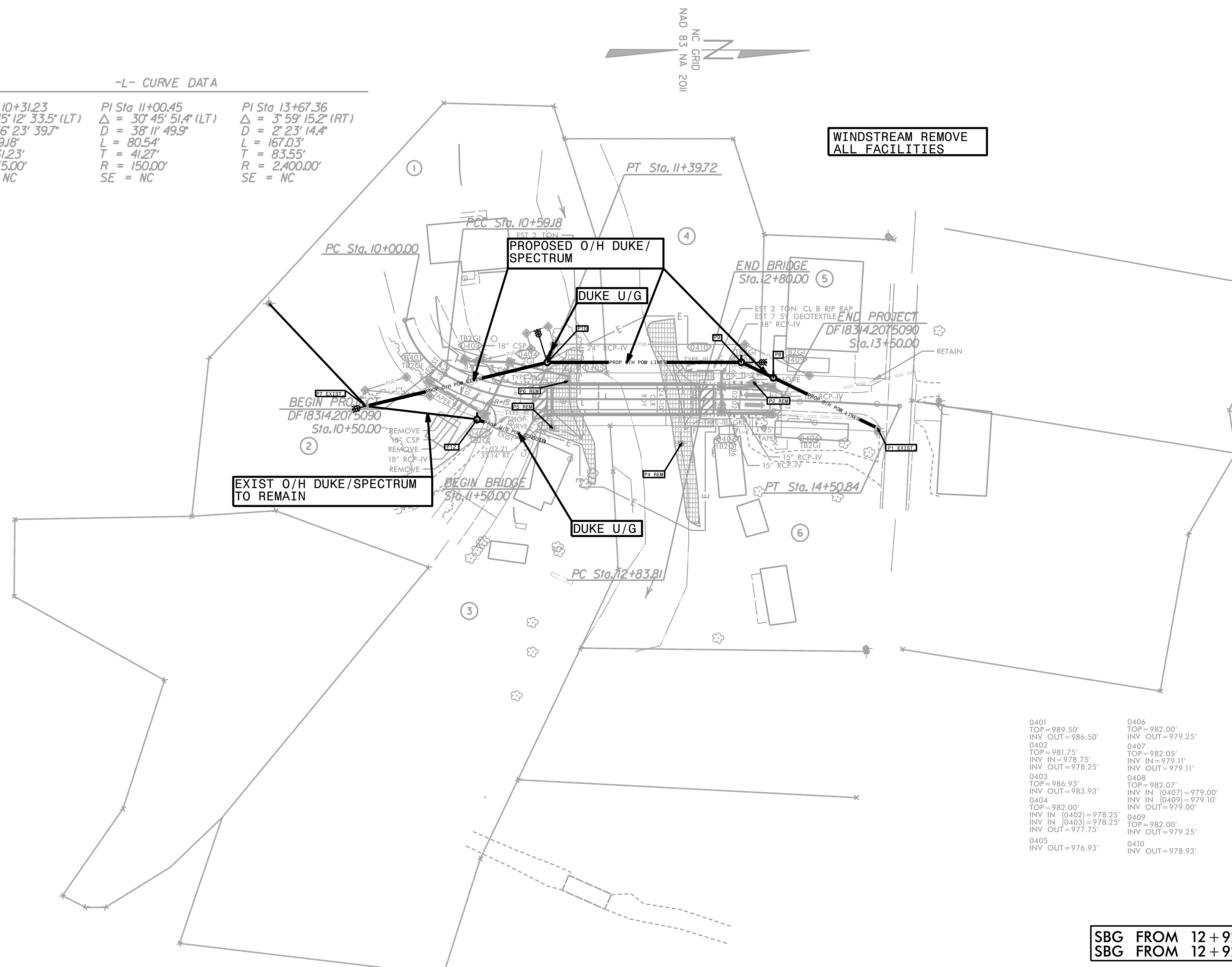
PROJECT REFERENCE NO.	SHEET NO.
DF18314.2075090	UO-02
THIS SHEET CORRESPONDS TO RDY-4	

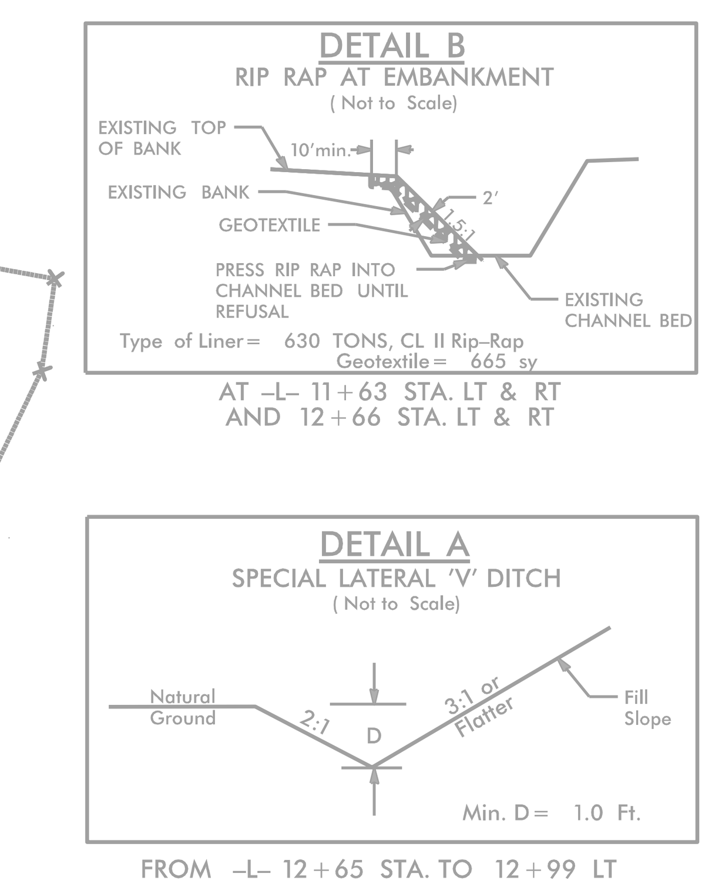
UTILITIES BY OTHERS

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.

-L- CURVE DATA

PI Sta 10+31.23	PI Sta 11+00.45	PI Sta 13+67.36
Δ = 45° 12' 33.5" (LT)	Δ = 30° 45' 51.4" (LT)	Δ = 3° 59' 15.2" (RT)
D = 76° 23' 39.7"	D = 38° 11' 49.9"	D = 2° 23' 14.4"
L = 59.18'	L = 80.54'	L = 167.03'
T = 31.23'	T = 41.27'	T = 83.55'
R = 75.00'	R = 150.00'	R = 2,400.00'
SE = NC	SE = NC	SE = NC





0401
TOP=989.50'
INV OUT=986.50'
0402
TOP=981.75'
INV IN=978.75'
INV OUT=978.25'
0403
TOP=986.93'
INV OUT=983.93'
0404
TOP=982.00'
INV IN (0402)=978.25'
INV IN (0403)=978.25'
INV OUT=977.75'
0405
INV OUT=976.93'

0406
TOP=982.00'
INV OUT=979.25'
0407
TOP=982.05'
INV IN=979.11'
INV OUT=979.11'
0408
TOP=982.07'
INV IN (0407)=979.00'
INV IN (0409)=979.10'
INV OUT=979.00'
0409
TOP=982.00'
INV OUT=979.25'
0410
INV OUT=978.93'

SBG FROM 12+92 TO 13+06 -L- RT
SBG FROM 12+92 TO 13+06 -L- LT

SEE SHEET 5 FOR PROFILE

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-24

4/2/2025
R_RDY_PSH.dgn