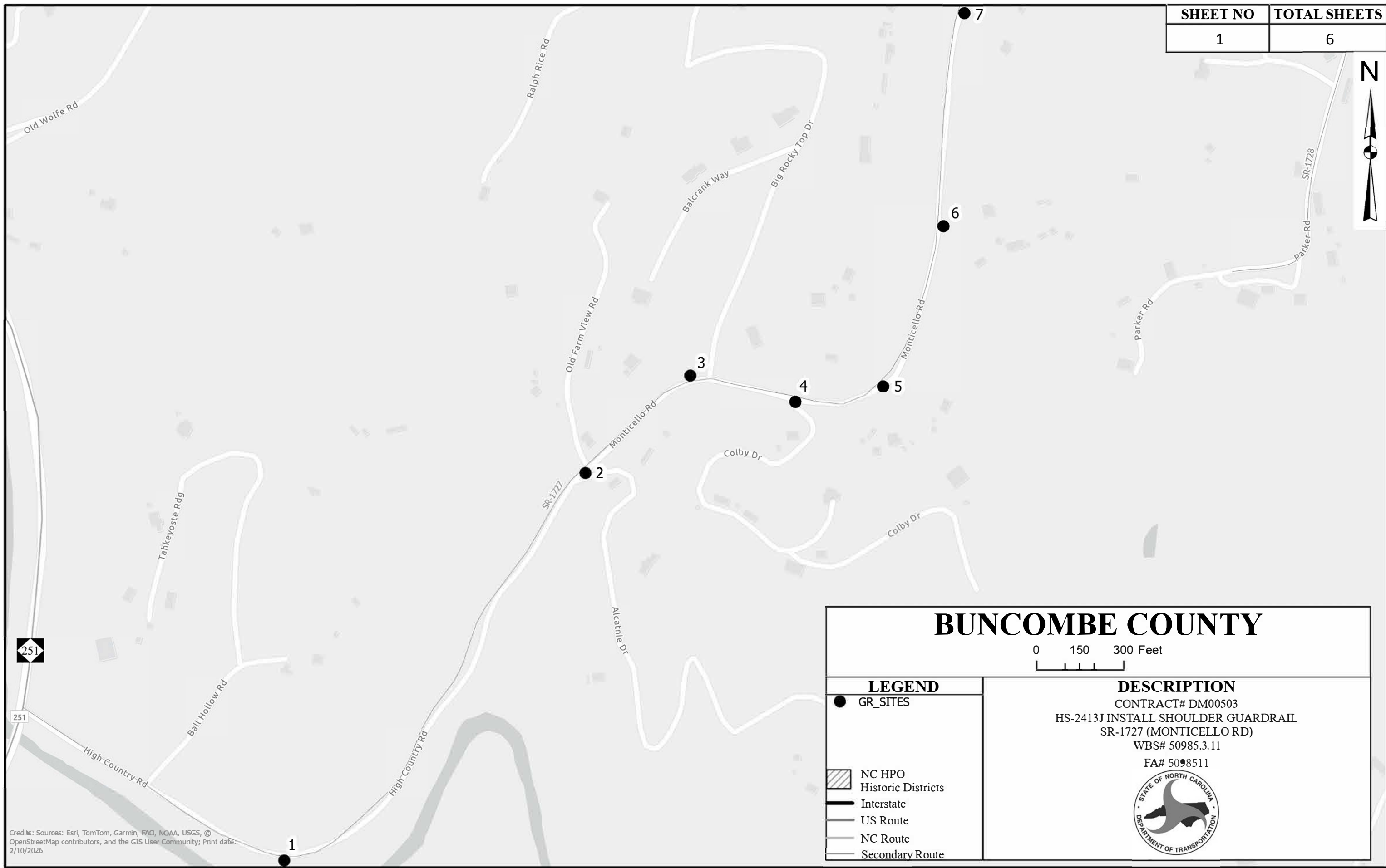
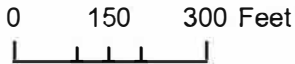


SHEET NO	TOTAL SHEETS
1	6



BUNCOMBE COUNTY



LEGEND

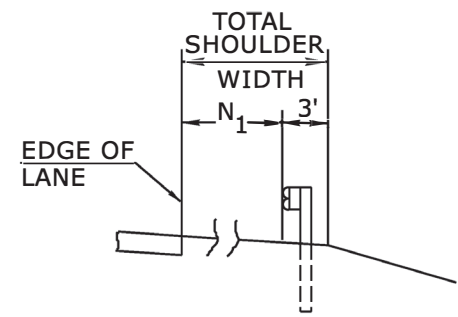
- GR_SITES
- NC HPO Historic Districts
- Interstate
- US Route
- NC Route
- Secondary Route

DESCRIPTION

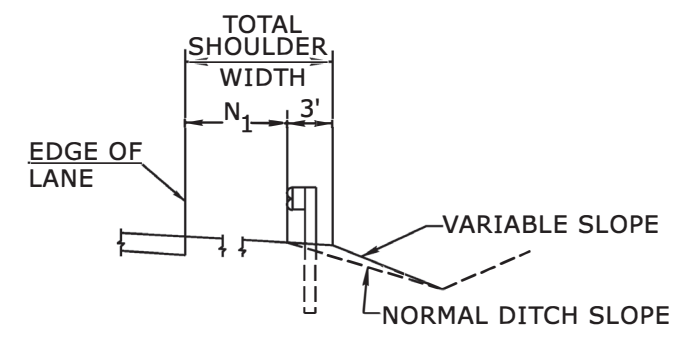
CONTRACT# DM00503
 HS-2413J INSTALL SHOULDER GUARDRAIL
 SR-1727 (MONTICELLO RD)
 WBS# 50985.3.11
 FA# 5098511



Credits: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community; Print date: 2/10/2026

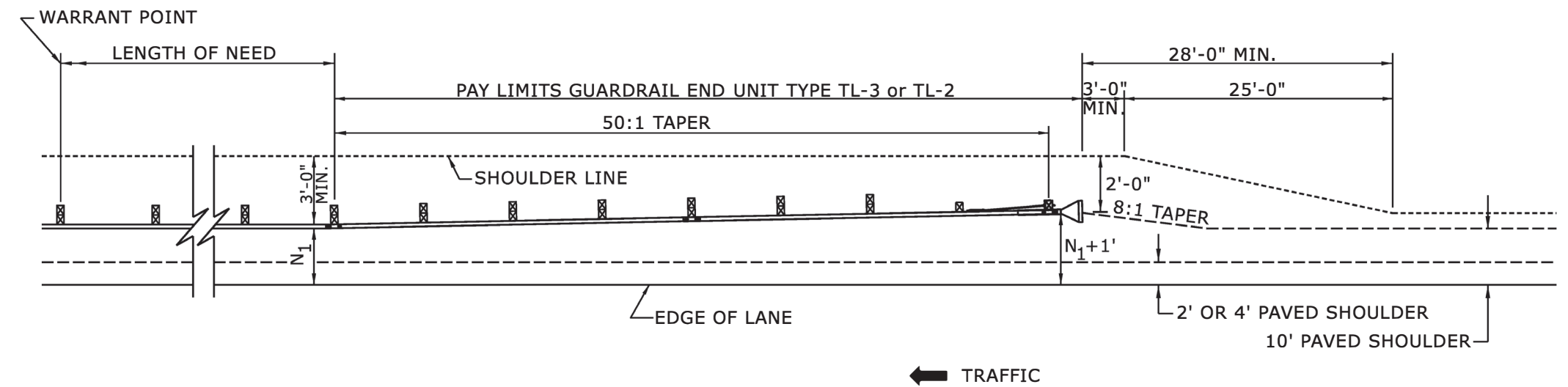


FILL SECTION



CUT SECTION

"N₁" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL WHERE GUARDRAIL IS PARALLEL TO LANE.



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

DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT



Signed by:
Nicole M. Hackler
 1884223054164CS

02/09/2026

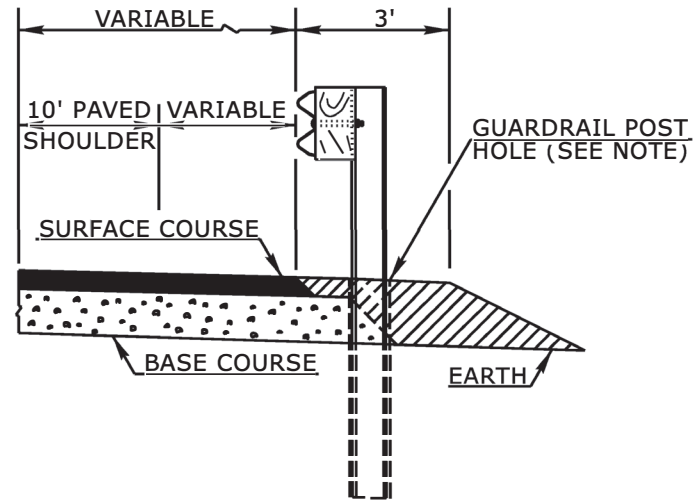
SHEET 6 OF 15
862D01

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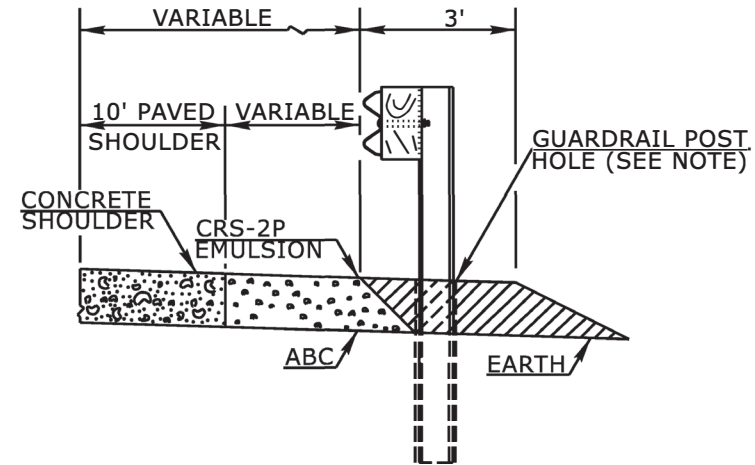
**CONTRACTS STANDARDS
 AND DEVELOPMENT UNIT**
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

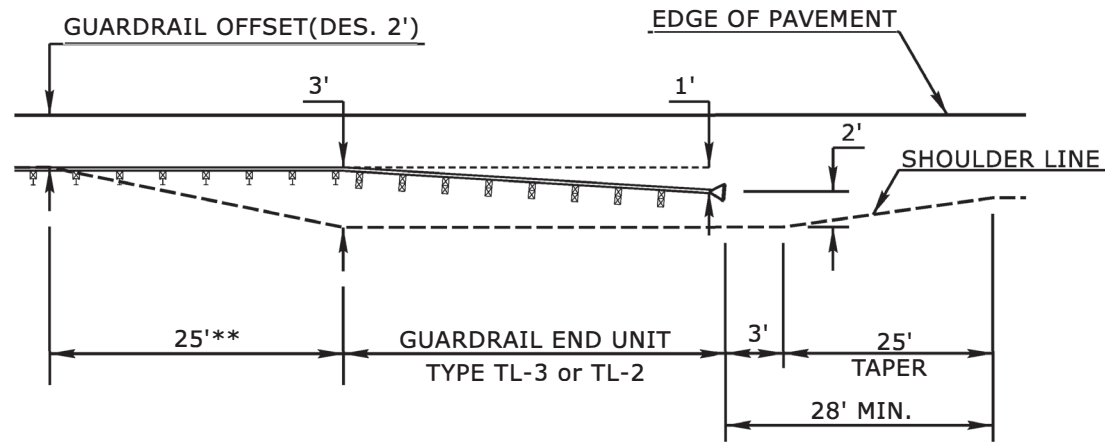
ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 FILE SPEC.: _____



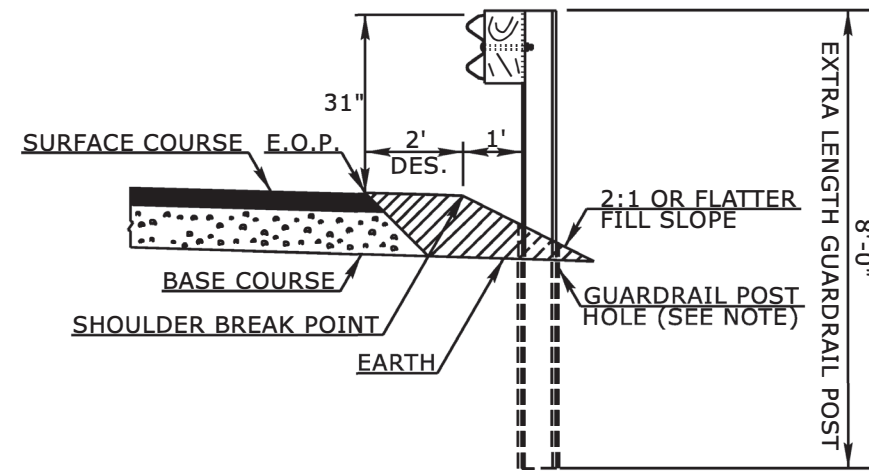
FLEXIBLE PAVED SHOULDER



CONCRETE PAVED SHOULDER



**8' GUARDRAIL POST ON 2:1 SLOPE-END UNIT TRANSITION*
PLAN VIEW**



8' GUARDRAIL POST ON 2:1 SLOPE*

* THE 8' GUARDRAIL POST ON 2:1 SLOPE DETAIL IS INTENDED FOR USE ONLY IN SEVERELY CONSTRAINED AREAS WITH A POSTED SPEED ≤ 60 MPH. GUARDRAIL END UNITS MAY NOT BE PLACED ON THE 2:1 SLOPE AND MUST TRANSITION TO THE SHOULDER.
** 8' GUARDRAIL POST SHOULD BE USED IN THIS RANGE

NOTE:
WHEN WOODEN GUARDRAIL POSTS ARE USED, DRILL HOLES THROUGH EARTH MATERIAL AND BASE COURSE. THE POST MAY THEN BE DRIVEN TO THE PROPER DEPTH. DRILL THE HOLE OF SUFFICIENT SIZE TO ACCOMMODATE THE PARTICULAR POST BEING USED. BACKFILL AND TAMP HOLES USING THE EXCAVATED MATERIAL.

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT



Signed by:
Nicole M. Hucker
58842303416405

02/09/2026

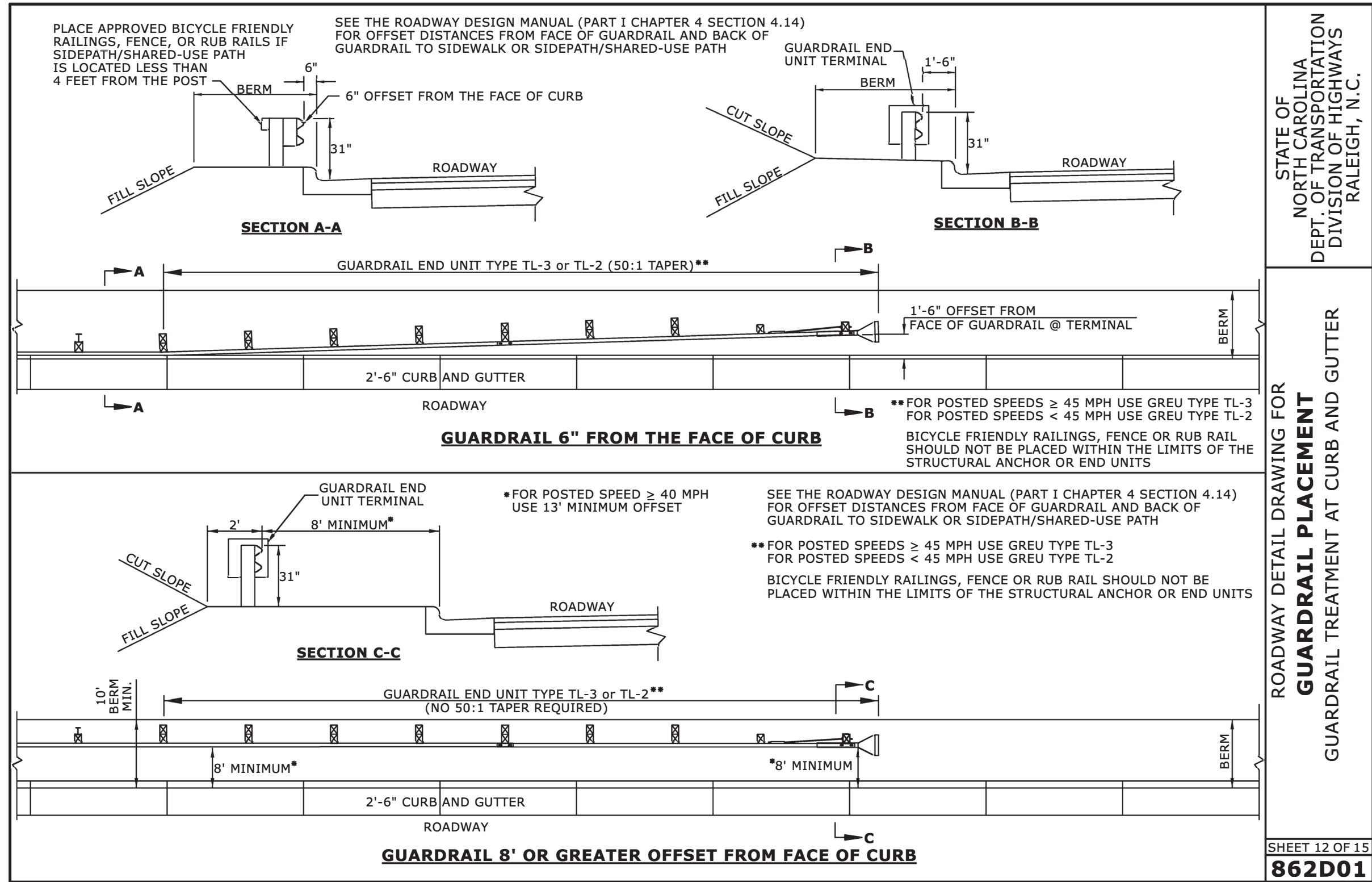
SHEET 11 OF 15
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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT
GUARDRAIL TREATMENT AT CURB AND GUTTER



Signed by:
Nicole M. Hacker
0884323034164CS

02/09/2026

SHEET 12 OF 15
862D01

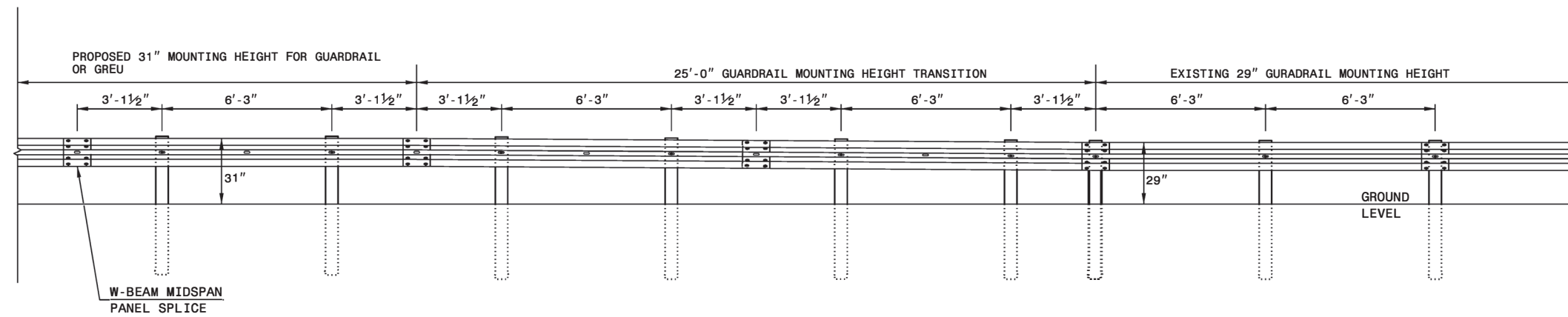
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NOTE: IF EXISTING GUARDRAIL IS LOWER THAN 29", USE AN ADDITIONAL 12'-6" LONG SECTION OF GUARDRAIL, FOR EVERY 1" OF HEIGHT DIFFERENCE, TO TRANSITION FROM EXISTING GUARDRAIL TO PROPOSED 31" GUARDRAIL.



ELEVATION VIEW

TRANSITION FROM 29" TO 31" W-BEAM GUARDRAIL MOUNTING HEIGHT

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 5 OF 9
862D02



Signed by:
Nicole M. Hacker
08841232054104CS

02/09/2026

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AND DEVELOPMENT UNIT**
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ORIGINAL BY: K. Aldridge DATE: 02-25
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

05-FEB-2025 07:53
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\$\$\$\$\$USERNAME\$\$\$\$

PROJECT NO.	SHEET NO.
HS-2413J	6

GUARDRAIL ITEM SUMMARY

SITE NO	ROUTE	DESCRIPTION	APPROXIMATE LAT/LONG	SHOULDER LT/RT	3030000000-E	3045000000-E	3145000000-E	3195000000-N	3288000000-N	NOTES
					STEEL BEAM GUARDRAIL	STEEL BM GUARDRAIL, SHOP CURVED	EXTRA LENGTH GUARDRAIL POST (**' STEEL)	GUARDRAIL END UNITS, TYPE AT-1	GUARDRAIL END UNITS, TYPE TL-2	
					LF	LF	EA	EA	EA	
1	SR 1727 (Monticello Rd)	APPROXIMATELY 0.2 MILES FROM NC 251 (MM 3.58-3.27)	35°41'38"N, 82°36'37"W	RT	1650				2	Leave room for vehicle pulls off where applicable
2	SR 1727 (Monticello Rd)	APPROXIMATELY 0.53 MILES FROM NC 251 (MM 3.25-3.11)	35°41'51"N, 82°36'25"W	RT	750				2	Leave adequate sight distance for driveways
3	SR 1727 (Monticello Rd)	APPROXIMATELY 0.62 MILES FROM NC 251 (MM 3.16-3.15)	35°41'55"N, 82°36'21"W	LT	50	50		2		Leave adequate sight distance for driveways
4	SR 1727 (Monticello Rd)	APPROXIMATELY 0.69 MILES FROM NC 251 (MM 3.09-3.05)	35°41'54"N, 82°36'17"W	RT	250				2	Leave adequate sight distance for driveways
5	SR 1727 (Monticello Rd)	APPROXIMATELY 0.75 MILES FROM NC 251 (MM 3.03-2.96)	35°41'54"N, 82°36'13"W	RT	325				2	Leave adequate sight distance for driveways
6	SR 1727 (Monticello Rd)	APPROXIMATELY 0.86 MILES FROM NC 251 (MM 2.92-2.83)	35°42'00"N, 82°36'11"W	RT	500		5		2	Leave adequate sight distance for driveways
7	SR 1727 (Monticello Rd)	APPROXIMATELY 1.0 MILES FROM NC 251 (MM 2.78- 2.69)	35°42'07"N, 82°36'10"W	RT	450				2	
GRAND TOTAL					3975	50	5	2	12	

NOTES: QUANTITIES ARE ESTIMATED AND MAY CHANGE ACCORDING TO ACTUAL FIELD CONDITIONS.
THE ENGINEER SHALL FIELD MARK ALL PROPOSED GUARDRAIL AND END UNITS PRIOR TO BEGINNING CONSTRUCTION AT EACH LOCATION.

INSTALL EXTRA LENGTH GUARDRAIL POSTS ACCORDING TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.