

09/08/99

5:42:00 PM R:\Projects\22-118 All American Freeway Replacement\NCDOT\Roadway\Proj\Plansheets\AAF_RDY_TSH.dgn kyle.hagan

TIP PROJECT: 49218.6

CONTRACT: C205187

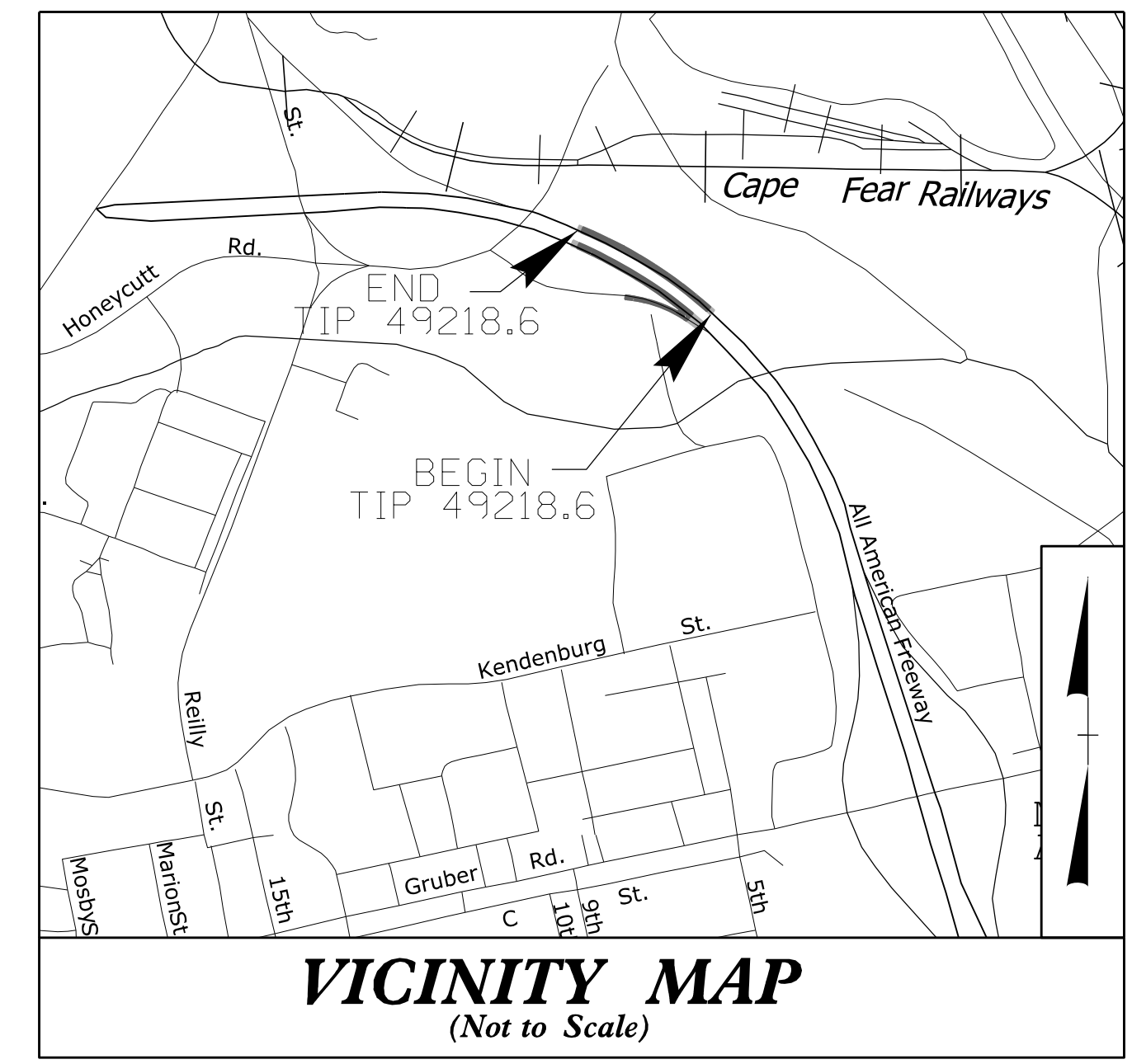
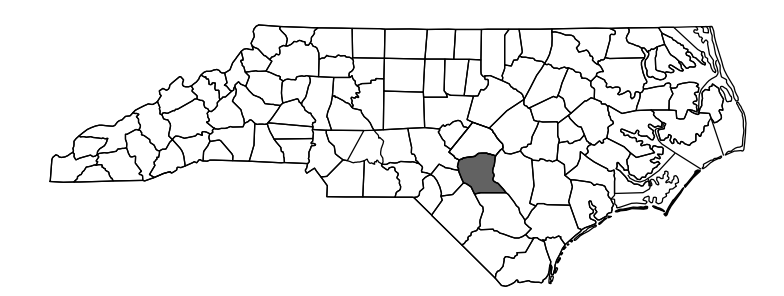
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CUMBERLAND COUNTY

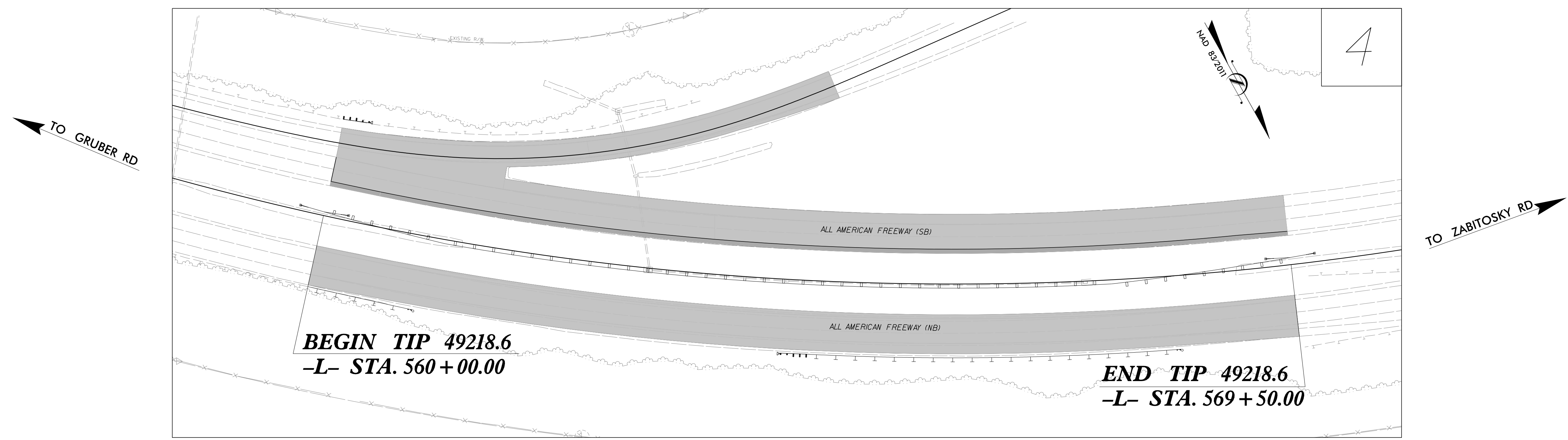
LOCATION: ALL AMERICAN FREEWAY NEAR HONEYCUTT RD ON FORT BRAGG

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

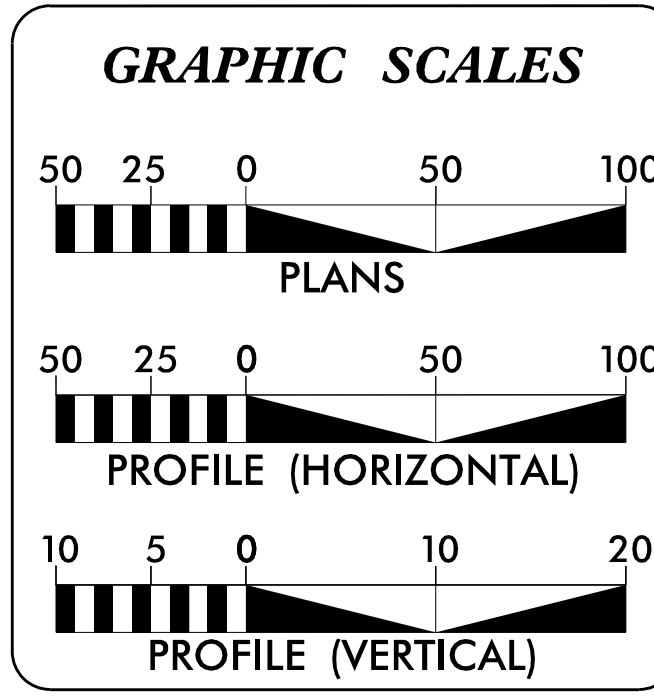
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49218.6	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49218.6	-	PE, CONST.	



PART 2



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2025 =	N/A
ADT 2045 =	N/A
K =	N/A
D =	N/A
T =	N/A
V =	40 MPH
*TTST =	N/A
*DUAL =	N/A
FUNC CLASS =	FREWAY
REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT -	=	0.180 MILES
LENGTH STRUCTURE TIP PROJECT -	=	0.000 MILES
TOTAL LENGTH TIP PROJECT -	=	0.180 MILES

Prepared in the Office of:
INFRASTRUCTURE CONSULTING & ENGINEERING
4505 Falls of Neuse Road, Suite 110
Raleigh, North Carolina 27609
Phone: 919-255-0410
License #: T-1523

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
MAY 19, 2026

Prepared for:
DIVISION OF HIGHWAYS
HIGHWAY DIVISION 6
558 GILLESPIE ST.
FAYETTEVILLE, NC 28301

BRIAN LUSK, P.E.
PROJECT ENGINEER

KYLE HAGAN, P.E.
PROJECT DESIGN ENGINEER

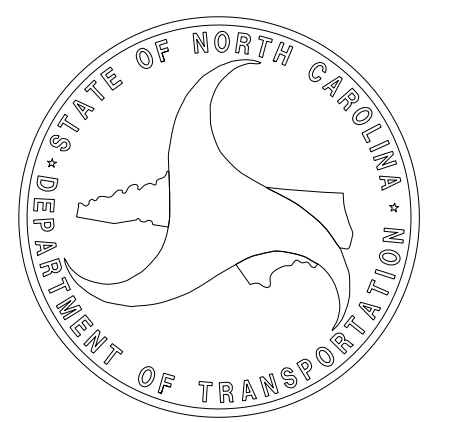
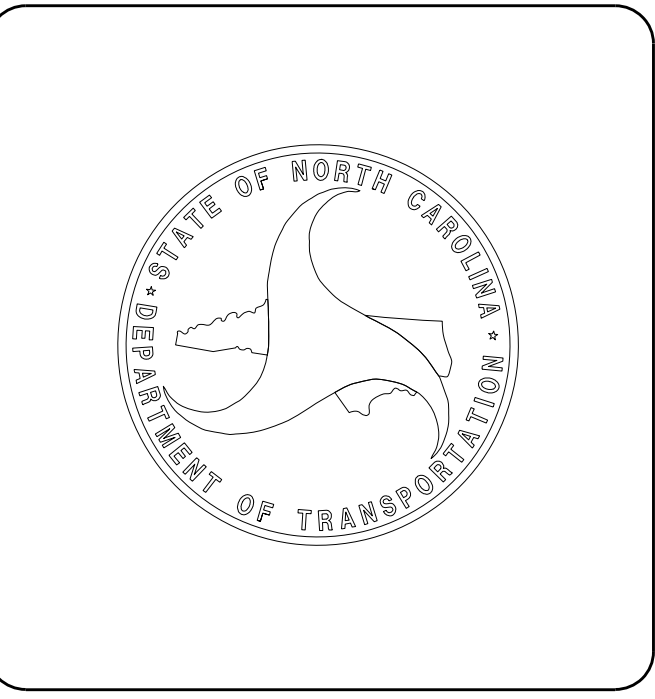
CHRISTY HUFF, P.E.
NCDOT PROJECT MANAGER


HYDRAULICS ENGINEER

Signed by: *Jeffrey King*
SIGNATURE:

ROADWAY DESIGN ENGINEER

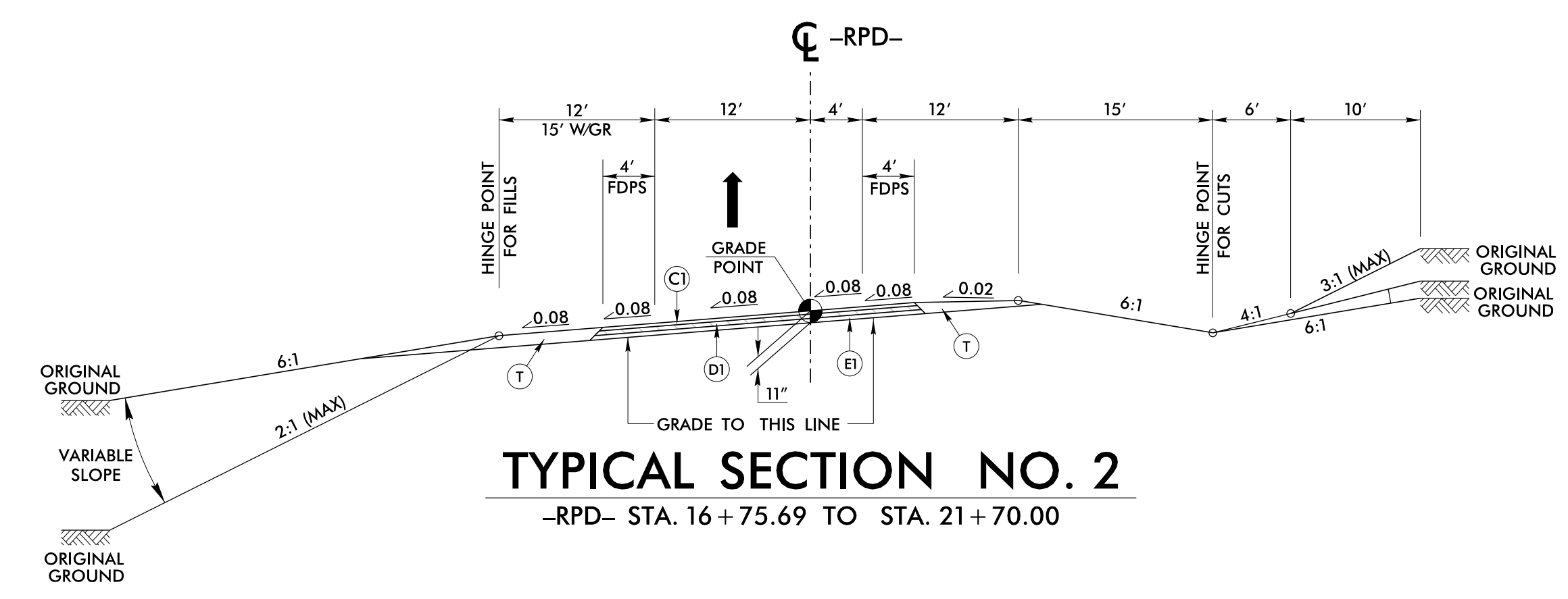
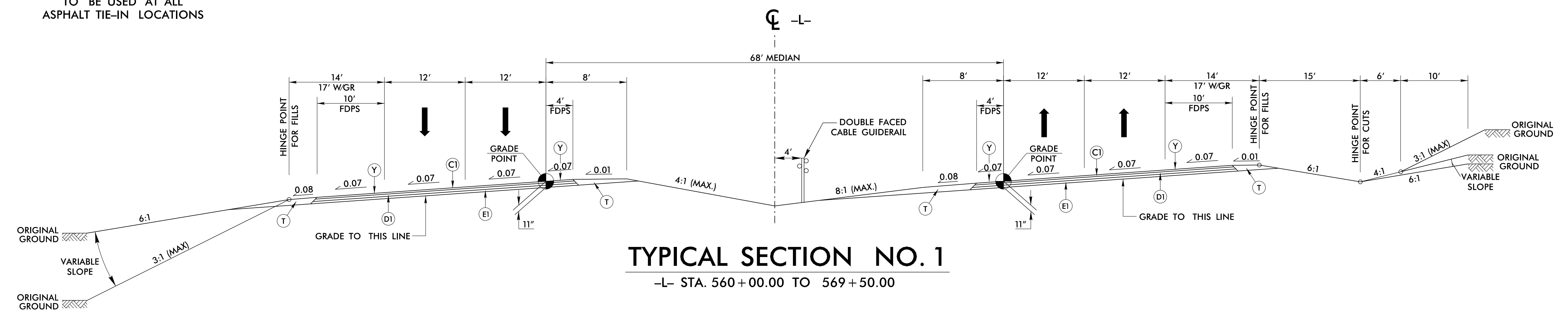
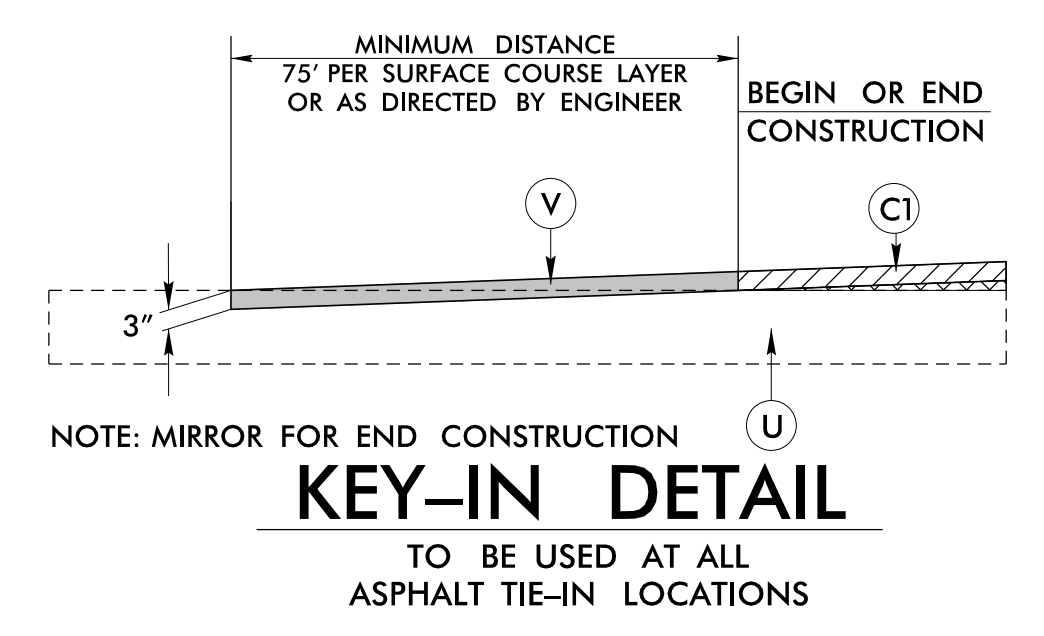
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SIGNATURE:

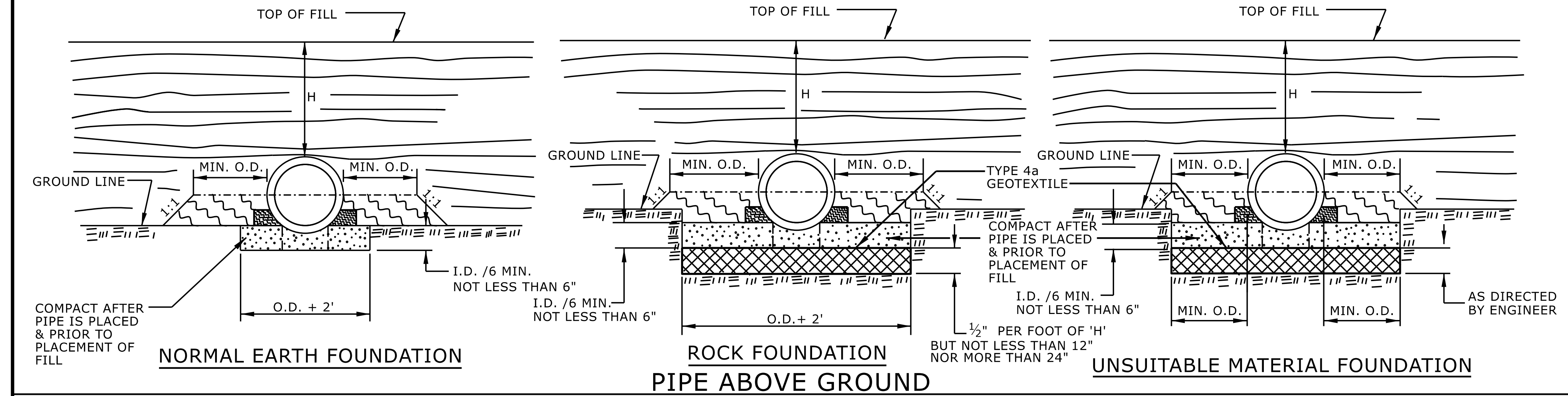
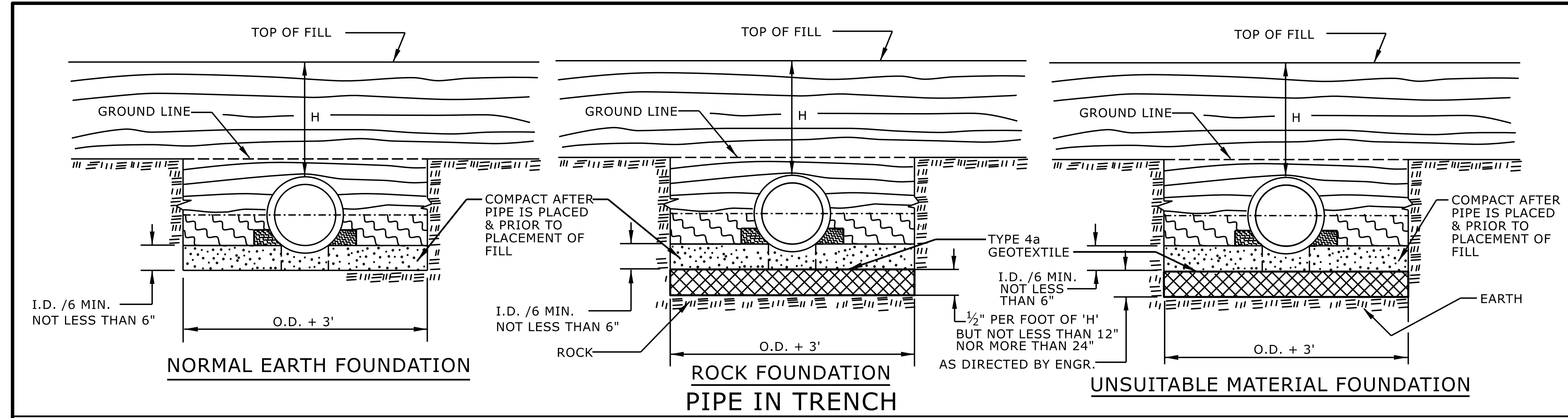


PROJECT REFERENCE NO. 49218.6	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 059828 3/16/2026	PAVEMENT DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 054334 3/16/2026
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 INFRASTRUCTURE CONSULTING & ENGINEERING Infrastructure Consulting & Engineering, LLC 4505 Falls of Neuse Road, Suite 110 Raleigh, North Carolina 27609 Phone: 919-255-0410 License #: F-1528	



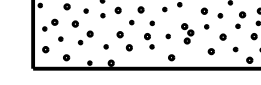
FINAL PAVEMENT SCHEDULE			
C1	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS	T	EARTH MATERIAL.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	V	INCIDENTAL MILLING
		Y	PROPOSED MILLED RUMBLE STRIPS.

NOTES:
ALL PAVEMENT SLOPES 1:1 UNLESS NOTED OTHERWISE.



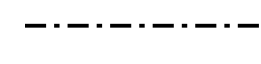

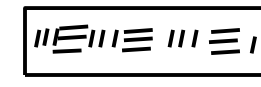



GENERAL NOTES:
 I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

-  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



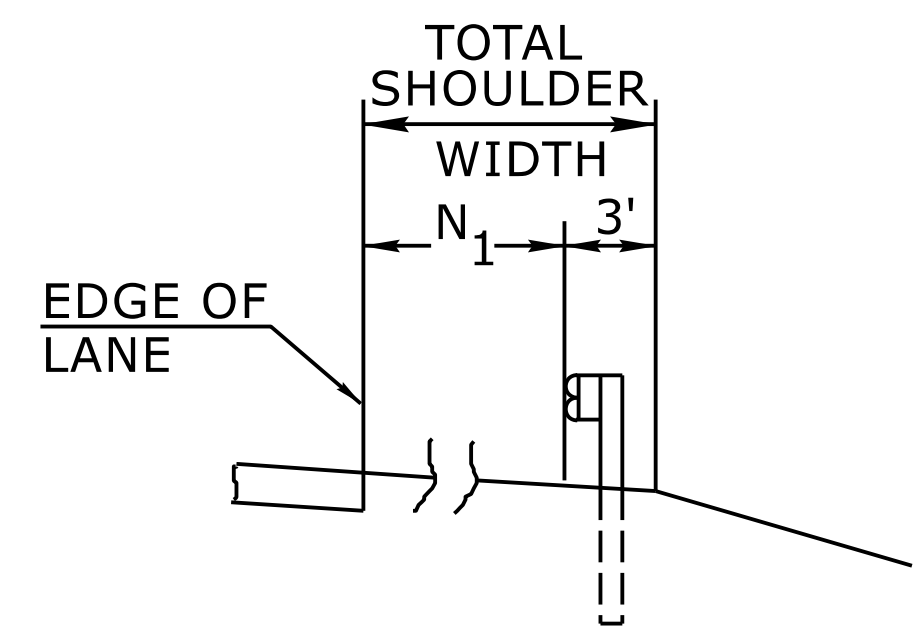
Signed by:
 Nicole M. Hekler
 588432034164CS.
 3/16/2026

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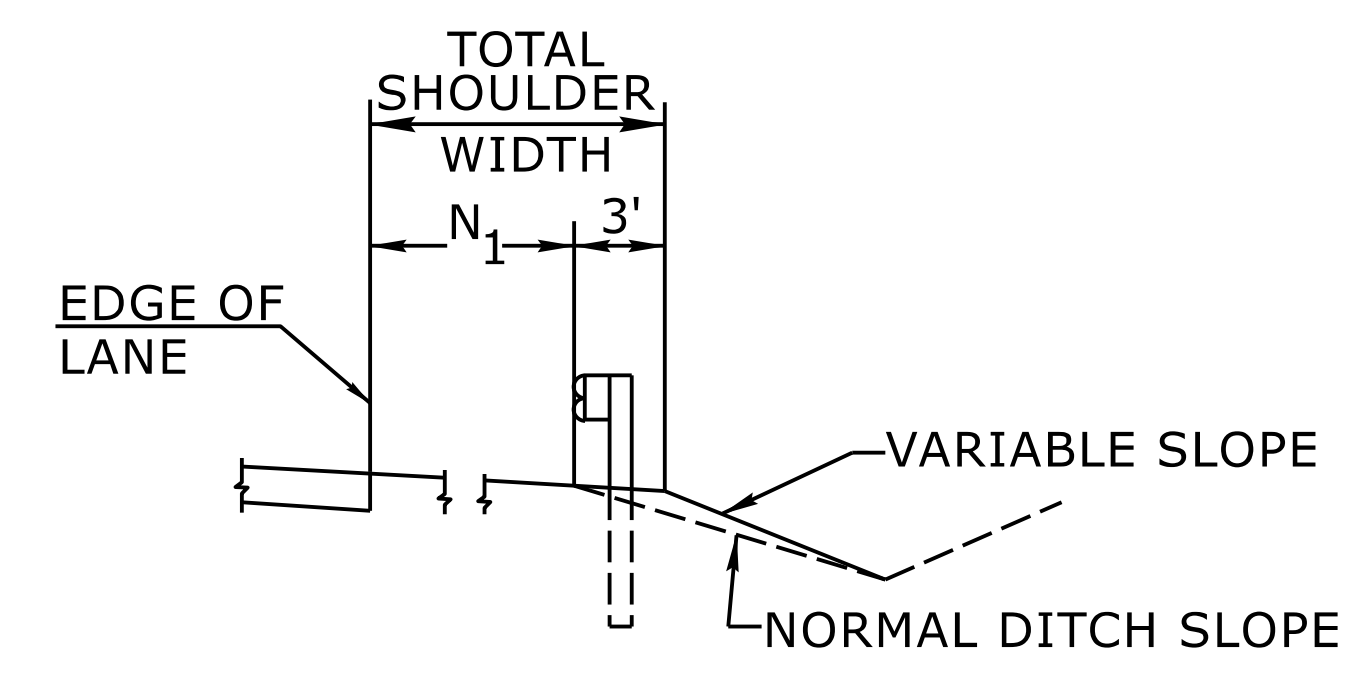
**CONTRACTS STANDARDS
 AND DEVELOPMENT UNIT**
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

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

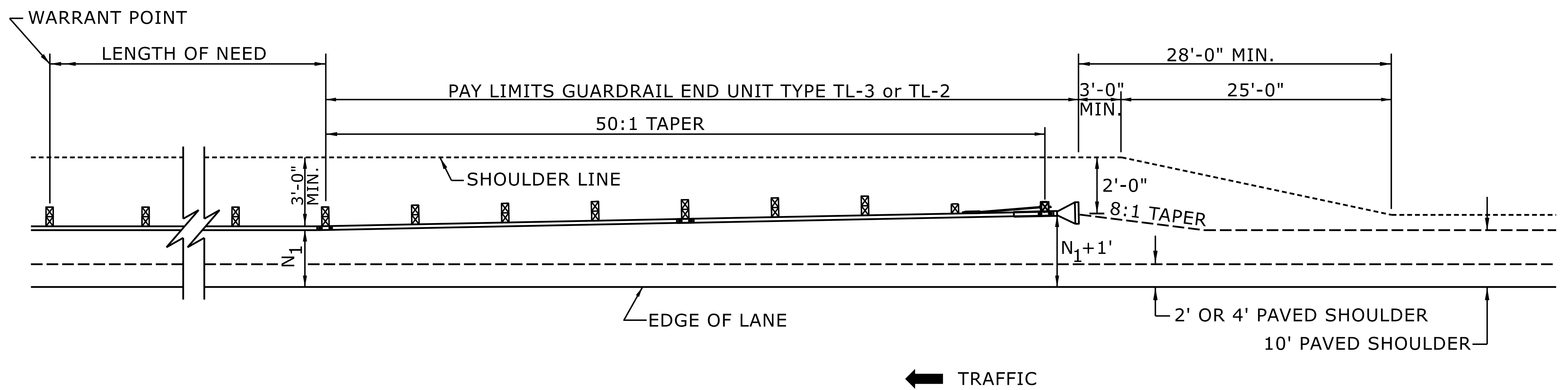


FILL SECTION



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. Hacker
588432034184CS
3/16/2026

SHEET 6 OF 15
862D01

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UNLESS ALL SIGNATURES COMPLETED

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

SEE TITLE BLOCK

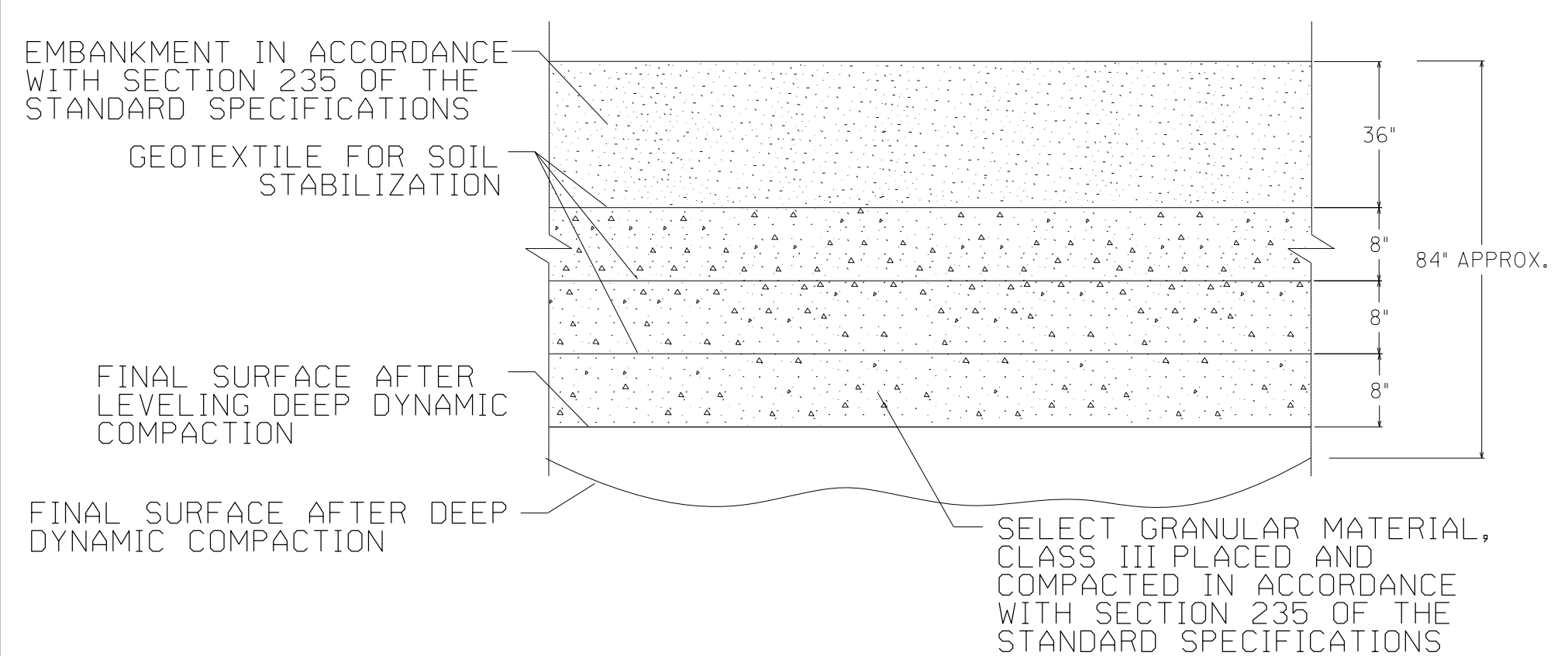
ORIGINAL BY: S.CALHOUN	DATE: 7-25-2024
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	

5/14/2026
12:00:17
Rep:\placements\Geotech\Geotech_Sheet\Plansheets\For_f_inal_plans\AAF_GEO_Plansheets.dgn

GEOTECHNICAL NOTES:

1. SEE DEEP DYNAMIC COMPACTION PROVISION
2. ADJUST WORKING PAD ELEVATIONS AS NECESSARY TO MAINTAIN 3-FT COVER OVER BURIED LANDFILL. IF LANDFILL WASTE IS ENCOUNTERED, PLACE FILL MATERIAL OVER THE EXPOSED MATERIAL AND NOTIFY THE ENGINEER.
3. MINIMUM DROP WEIGHT SHALL BE NO LESS THAN 25 TONS
4. MINIMUM DROP HEIGHT SHALL BE NO LESS THAN 80 FEET
5. APPLY A MINIMUM OF 10 BLOWS PER IMPACT LOCATION, BACKFILLING CRATERS WITH SELECT GRANULAR MATERIAL, CLASS III IF THEY EXCEED 4 FOOT DEPTH.
4. BACKFILL CRATERS WITH SELECT GRANULAR MATERIAL, CLASS III, AFTER COMPLETING DEEP DYNAMIC COMPACTION
5. CONSTRUCT LOAD TRANSFER PLATFORM CONSISTING OF THREE LAYERS OF SOIL STABILIZATION FABRIC SEPARATED BY 8 INCHES OF SELECT GRANULAR MATERIAL CLASS III

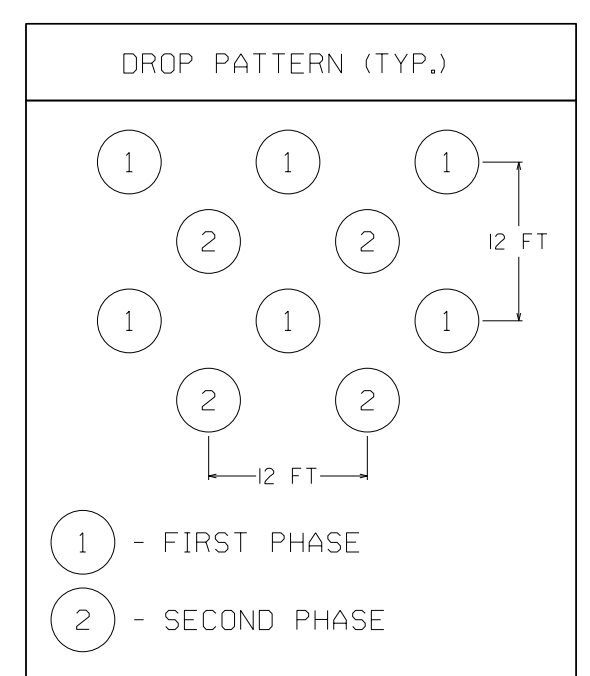
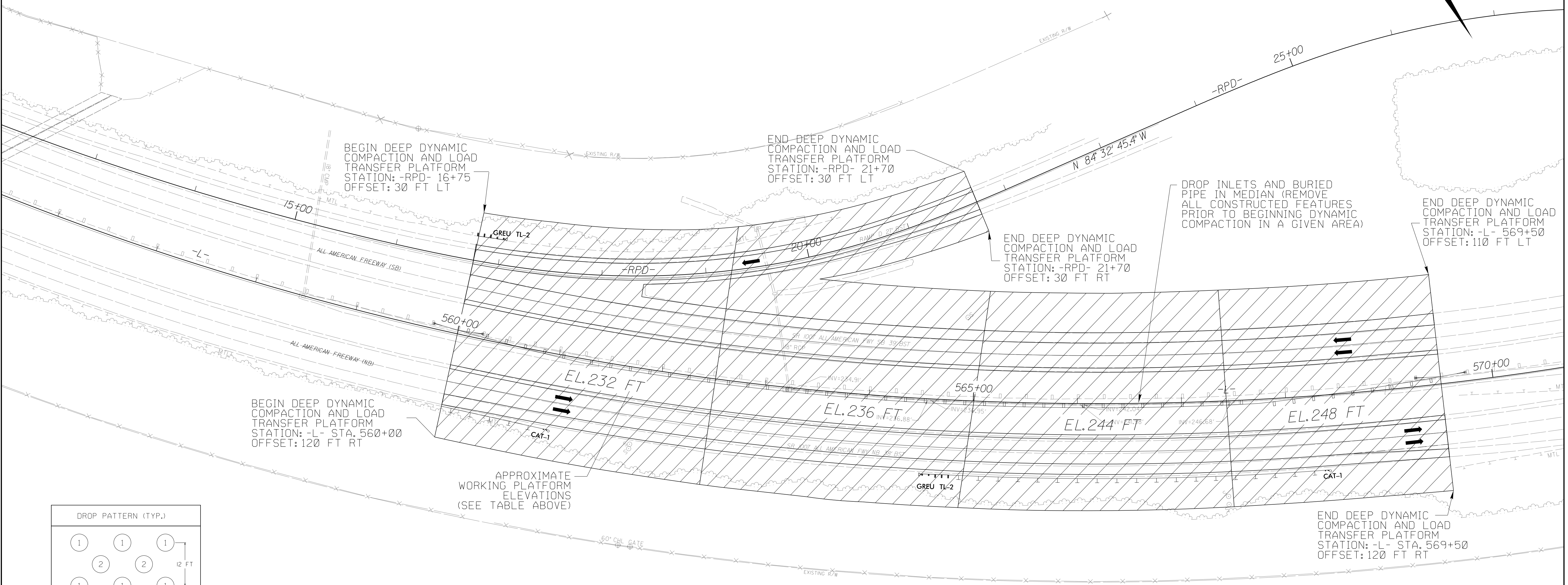
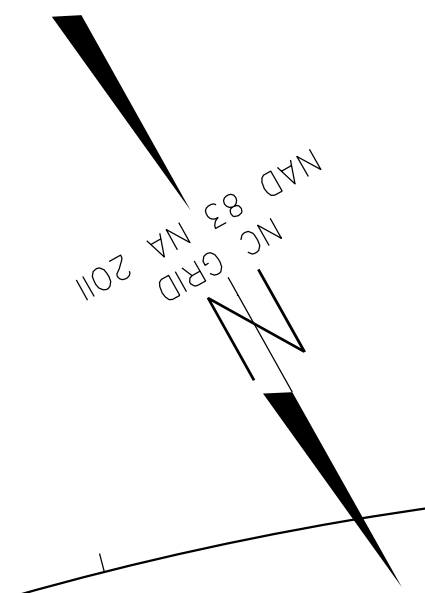
WORKING PLATFORM ELEVATION (INCLUDES RAMP)				
STATIONS (-L-):	560+00 TO 562+50	562+50 TO 565+00	565+00 TO 567+50	567+50 TO 569+50
ELEVATION:	232 FT	236 FT	244 FT	248 FT



LOAD TRANSFER PLATFORM DETAIL

(NOT TO SCALE)

PROJECT REFERENCE NO. 49218.6	SHEET NO. 26-1
RW SHEET NO.	
GEOTECHNICAL ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Infrastructure Consulting & Engineering, LLC 4505 Falls of Neuse Road, Suite 110 Raleigh, North Carolina 27609 Phone: 919-235-0410 License #: F-1528	



DEEP DYNAMIC COMPACTION PLAN

(NOT TO SCALE)

PAY ITEMS		
ITEM	MEASUREMENT	QUANTITY
DEEP DYNAMIC COMPACTION	SQUARE YARD	27,000
SELECT GRANULAR MATERIAL, CLASS III	CUBIC YARD	63,000
GEOTEXTILE FOR SOIL STABILIZATION	SQUARE YARD	81,000

5/11/2024

COMPUTED BY: JSK DATE: 07/16/2025
CHECKED BY: WTS DATE: 07/17/2025

PROJECT NO. SHEET NO.
49218.6 3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

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

Table with columns for Line & Station, Offset, Structure Number, Invert Elevation, Minimum Required Slope, Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP Pipe), R.C. Pipe Class III, R.C. Pipe Class IV, R.C. Pipe Class V, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing codes like C.A.A., C.B., C.S., D.I., G.D.I., H.D.P.E., J.B., M.H., N.S., P.V.C., R.C., T.B.D.I., T.B.J.B., W.S. and their corresponding material descriptions.

SHEET TOTALS

40 424 200 60 7 3.0 2 5 1 7

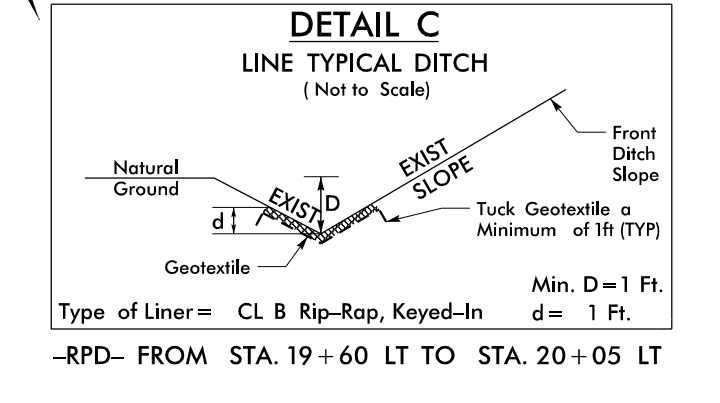
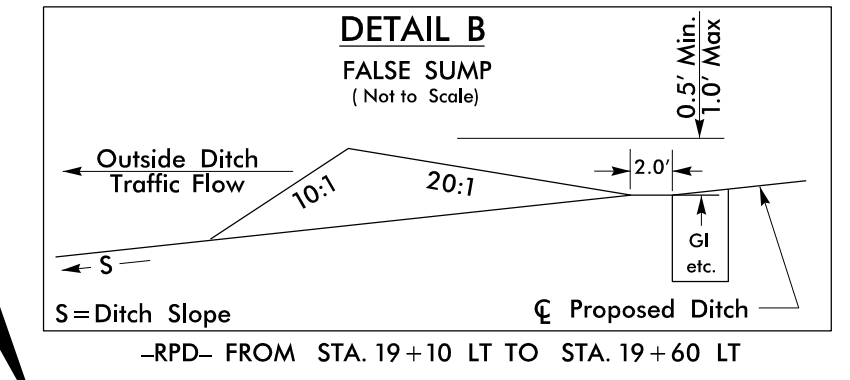
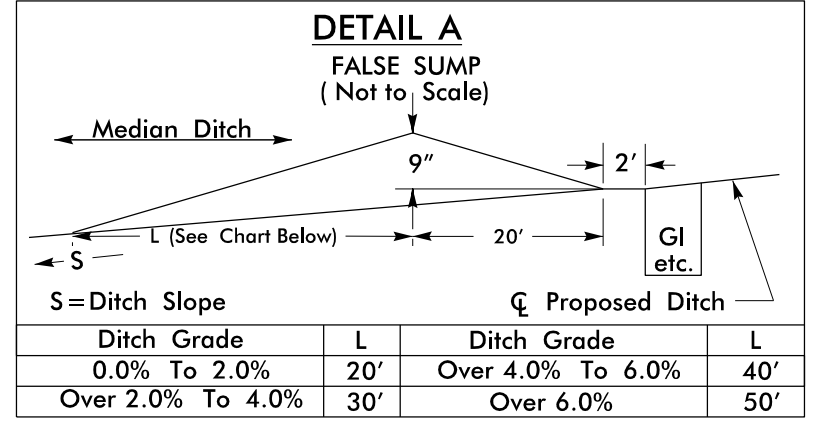
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K.L.Hagan

-RPD- CURVE DATA

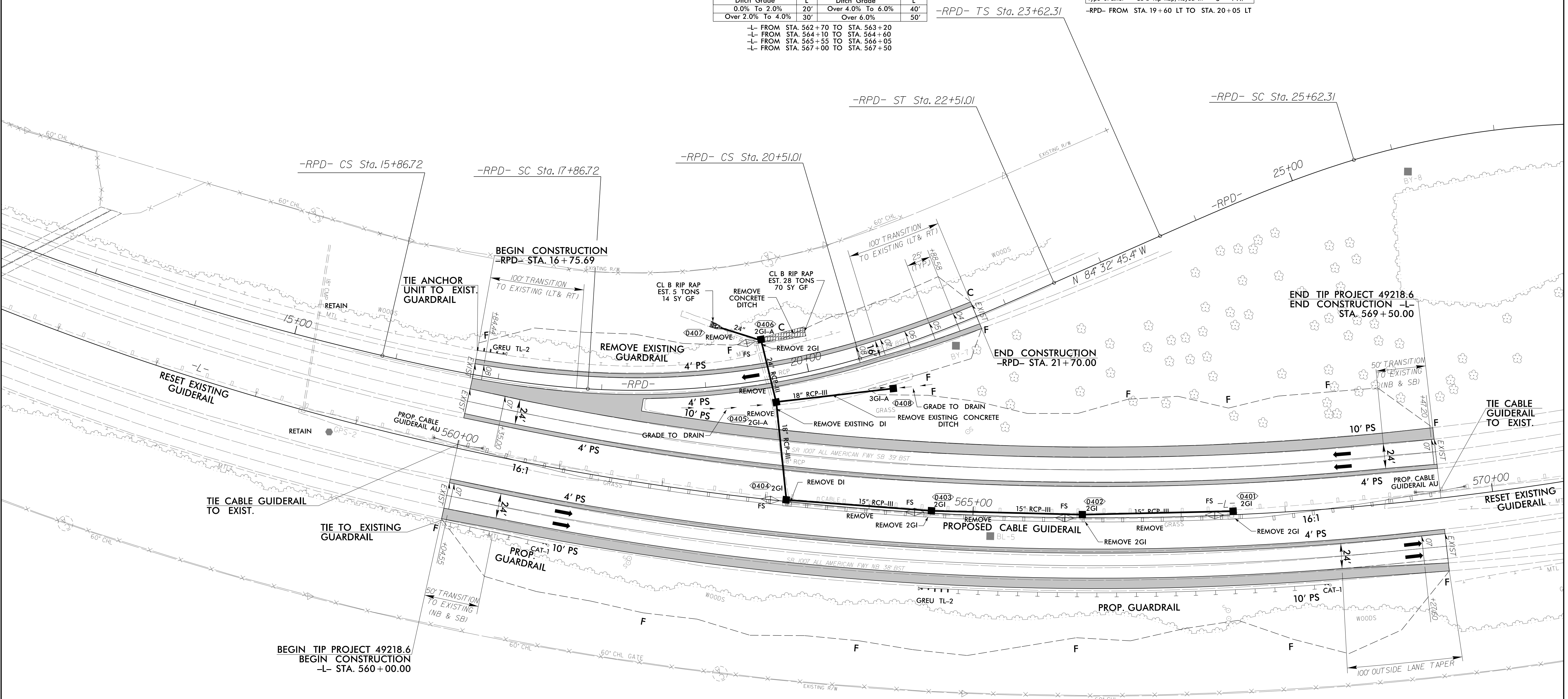
PI Sta 12+94.44 Δ = 12° 00' 21.5" (LT) D = 2° 02' 46.6" L = 586.72' T = 294.44' R = 2,799.98' DS = EXIST. SE = EXIST.	PIs Sta 17+05.99 Θs = 2° 02' 34.4" Δ = 7° 30' 12.2" Ls = 200.00' LT = 119.27' R = 763.94' ST = 81.7'	PI Sta 19+20.20 Δ = 19° 49' 18.3" (LT) D = 7° 30' 00.0" L = 264.29' T = 133.48' R = 763.94' DS = 40 MPH SE = 0.08	PIs Sta 21+17.78 Θs = 7° 30' 00.0" Δ = 7° 30' 00.0" Ls = 200.00' LT = 133.45' R = 763.94' ST = 66.78'	PIs Sta 24+95.75 Θs = 7° 00' 00.0" Δ = 7° 00' 00.0" Ls = 200.00' LT = 133.44' R = 818.51' DS = EXIST. SE = EXIST.	PI Sta 26+70.22 Δ = 15° 01' 16.7" (RT) D = 7° 00' 00.0" L = 214.59' T = 107.91' R = 818.51' DS = EXIST. SE = EXIST.
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-L- CURVE DATA

PI Sta 566+01.91 Δ = 70° 22' 48.0" (LT) D = 2° 00' 00.0" L = 3,519.00' T = 2,020.14' R = 2,864.79' DS = 50 MPH SE = 0.07



PROJECT REFERENCE NO. 49218.6	SHEET NO. 04
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 059828 Signed by: <i>Edna P. Hagan</i> 3/16/2026	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 056368 Signed by: <i>John P. Hagan</i> 3/16/2026
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Infrastructure Consulting & Engineering, LLC 4505 Falls of Neuse Road, Suite 110 Raleigh, North Carolina 27609 Phone: 919-255-0410 License #: F-1528	



NOTE:
FOR -L- PROFILE SEE SHT. 5
FOR -RPD- PROFILE SEE SHT. 6
FOR RESETTING EXISTING CABLE GUIDERAIL, REMOVE TENSION FROM EXISTING GUIDERAIL, INSTALL NEW ANCHOR, AND RE-TENSION EXISTING CABLE GUIDERAIL USING EXISTING POSTS (REPLACE EXISTING POSTS AS NEEDED PER THE ENGINEER).

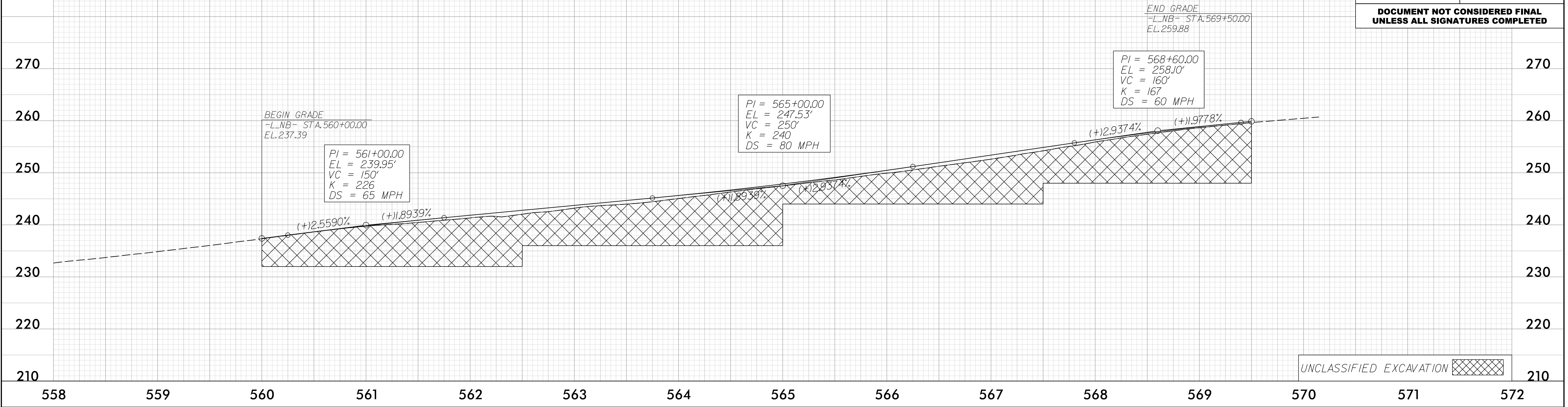
5/28/2026

I INFRASTRUCTURE
 CONSULTING & ENGINEERING
 Infrastructure Consulting & Engineering, LLC
 4505 Falls of Neuse Road, Suite 110 | Raleigh, North Carolina 27609
 Phone: 919-255-0410
 License #: F-1528

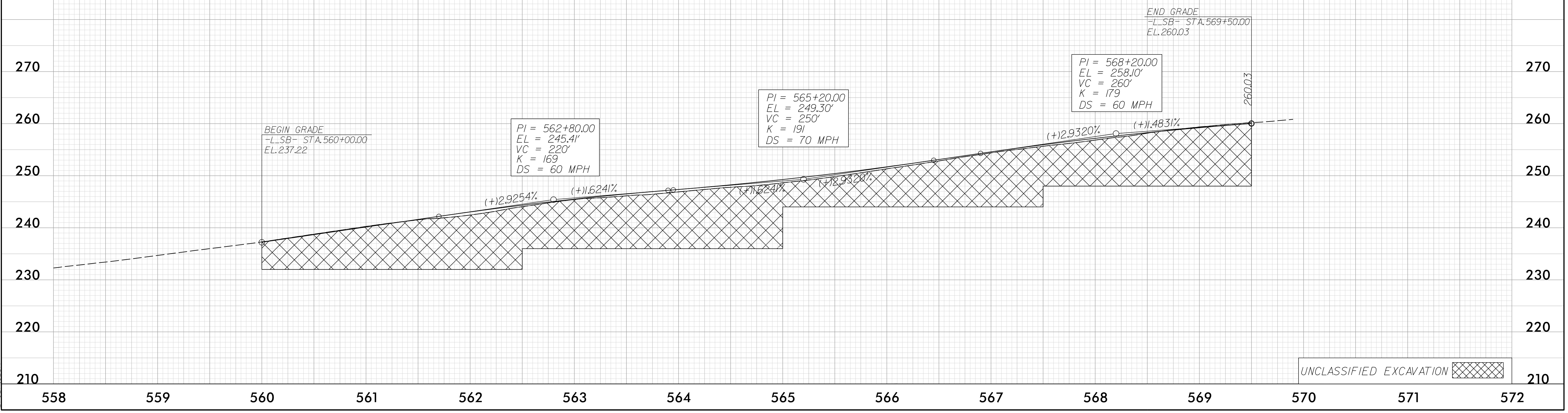
PROJECT REFERENCE NO. 49218.6	SHEET NO. 05
ROADWAY DESIGN ENGINEER SEAL 059828 3/16/2026	HYDRAULICS ENGINEER SEAL 056368 3/16/2026

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-L_NB-



-L_SB-



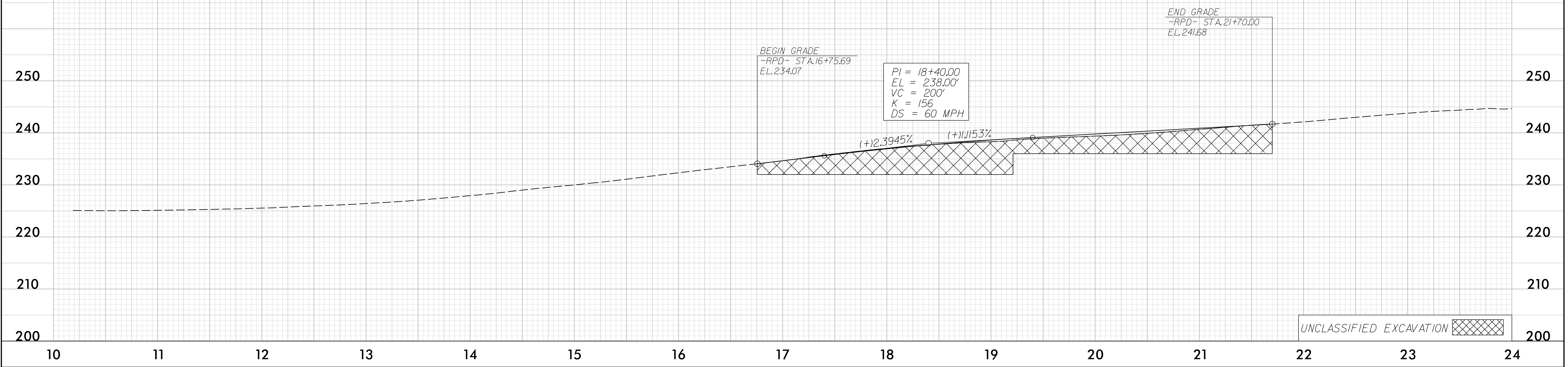
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5/28/26

-RPD-

INFRASTRUCTURE
CONSULTING & ENGINEERING
Infrastructure Consulting & Engineering, LLC
4505 Falls of Neuse Road, Suite 110 | Raleigh, North Carolina 27609
Phone: 919-255-0410
License #: F-1528

PROJECT REFERENCE NO. 49218.6	SHEET NO. 06
ROADWAY DESIGN ENGINEER SEAL 059828 3/16/2026	HYDRAULICS ENGINEER SEAL 056368 3/16/2026
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blanc,lusk