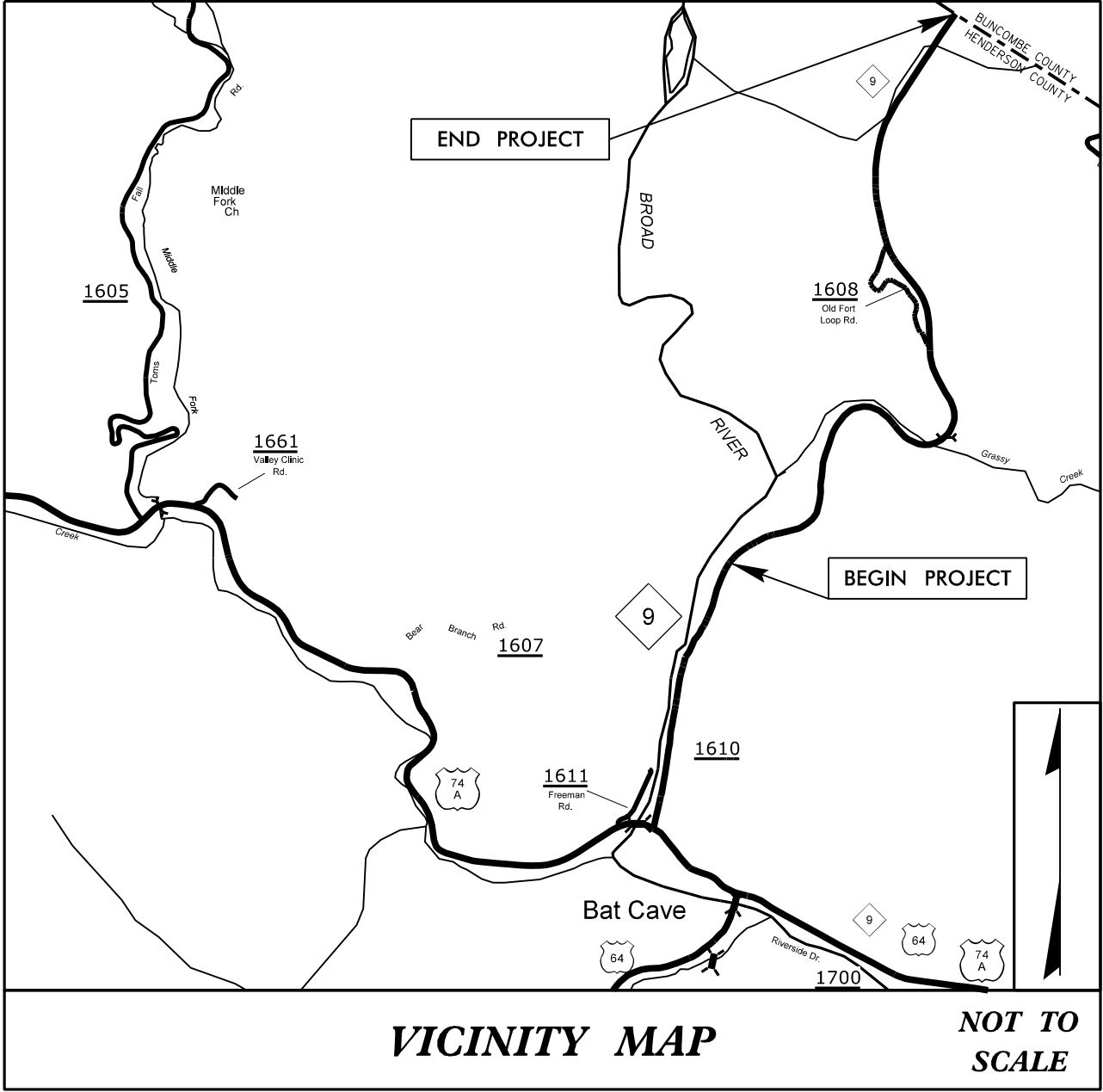


PROJECT: NC-9

CONTRACT: C205121

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



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HENDERSON COUNTY

LOCATION: NC-9 FROM 2700' NORTH OF THE
US 74A /NC-9 INTERSECTION TO THE
BUNCOMBE COUNTY LINE

TYPE OF WORK: GRADING, DRAINAGE,
PAVING, AND RETAINING WALLS

END WBS SITE 333
BEGIN WBS SITE 334
-L- STATION 74+00.00

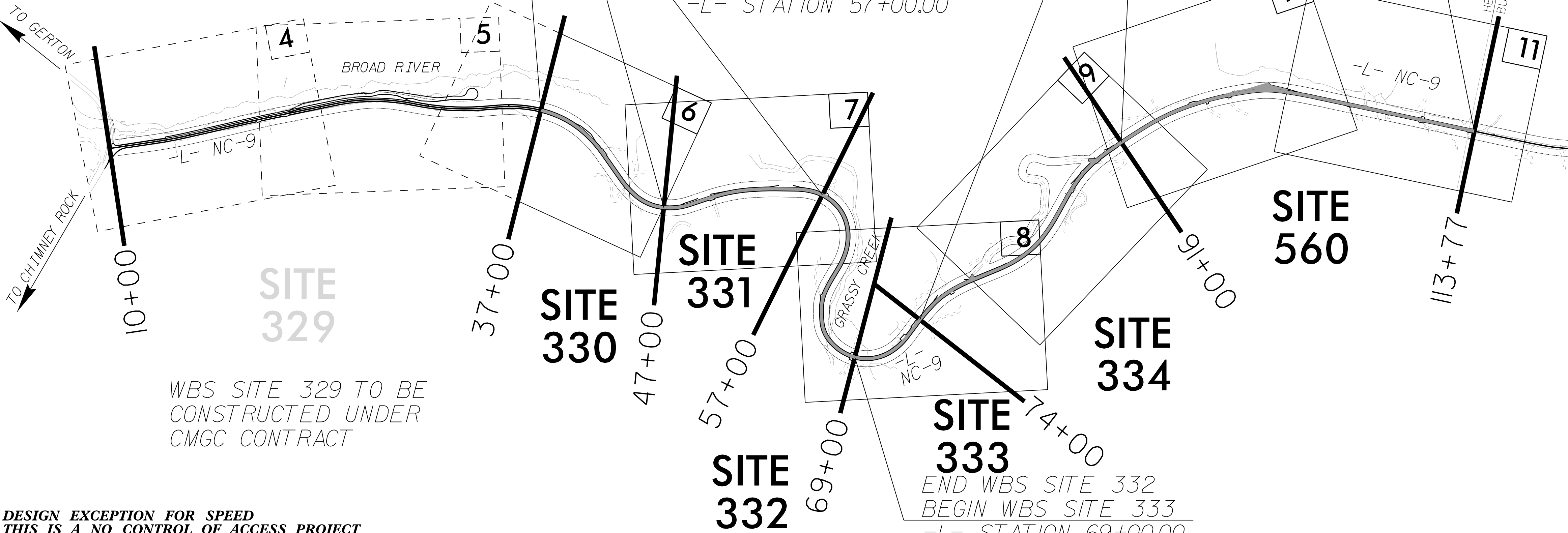
END WBS SITE 334
BEGIN WBS SITE 560
-L- STATION 91+00.00

END WBS SITE 560
-L- STATION 113+77.00

BEGIN WBS SITE 330
-L- STATION 37+00.00
END WBS SITE 330
BEGIN WBS SITE 331
-L- STATION 47+00.00

END WBS SITE 331
BEGIN WBS SITE 332
-L- STATION 57+00.00

END WBS SITE 332
BEGIN WBS SITE 333
-L- STATION 69+00.00

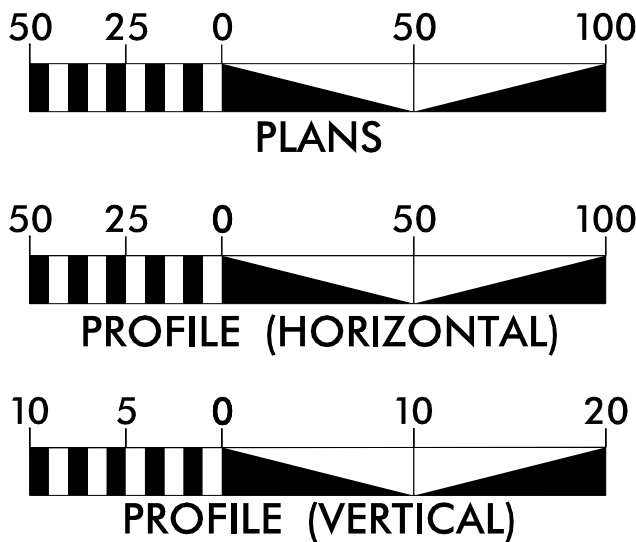


WBS SITE 329 TO BE
CONSTRUCTED UNDER
CMGC CONTRACT

DESIGN EXCEPTION FOR SPEED
THIS IS A NO CONTROL OF ACCESS PROJECT

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 1000
K = N/A
D = N/A
T = 7%
V = 45 MPH

FUNC CLASSIFICATION =
MAJOR COLLECTOR
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT NC-9 = 1.454 MILES
TOTAL LENGTH PROJECT NC-9 = 1.454 MILES

PREPARED IN THE OFFICES OF:



SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL. (919) 858-2243
ENG. FIRM LICENSE NO. C-490

8848 RED OAK BLVD
SUITE A
CHARLOTTE, NC 28217
(704) 523-4726

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2024 STANDARD SPECIFICATIONS
3R GUIDELINES

RIGHT OF WAY DATE:
FEBRUARY 6, 2025

LETTING DATE:
AUGUST 19, 2025

A. DEAN SARVIS, P.E.
PROJECT ENGINEER

JOSH B DEYTON, P.E.
NCDOT DIVISION 14 CONTACT

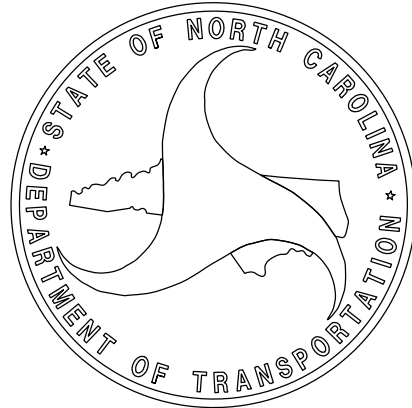
HYDRAULICS ENGINEER

Signed by:
Joshua G. Dalton
SIGNATURE: 7/14/2025



ROADWAY ENGINEER

DocuSigned by:
A. Dean Sarvis
SIGNATURE: 7/14/2025



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)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel / Sequence Number	

5/14/99

7/1/2025
U:\Road\2025\Proj\NC-9_rdlj_tup.dgn
10:01 AM

GENERAL NOTES
THROUGHOUT PROJECT CLEAR STORM DEBRIS:
-WITHOUT GUARDRAIL
16 FEET BEHIND EOT OR TO BACK OF MOUNTAINSIDE DITCH
-WITH GUARDRAIL
5 FEET BEHIND FACE OF EXISTING OR PROPOSED GUARDRAIL

FINAL PAVEMENT SCHEDULE			
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	J	PROPOSED 6" AGGREGATE BASE COURSE
C2	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.	R1	PORTABLE CONCRETE BARRIER (ANCHORED)
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.		

GENERAL NOTES
THROUGHOUT PROJECT CLEAR STORM DEBRIS:
-WITHOUT GUARDRAIL
16 FEET BEHIND EOT OR TO BACK OF MOUNTAINSIDE DITCH
-WITH GUARDRAIL
5 FEET BEHIND FACE OF EXISTING OR PROPOSED GUARDRAIL

PROJECT REFERENCE NO.
NC-9

SHEET NO.
2A-2

ROADWAY DESIGN ENGINEER
A. Dean Davis

PAVEMENT DESIGN ENGINEER
Burt T. Holland

7/3/2025

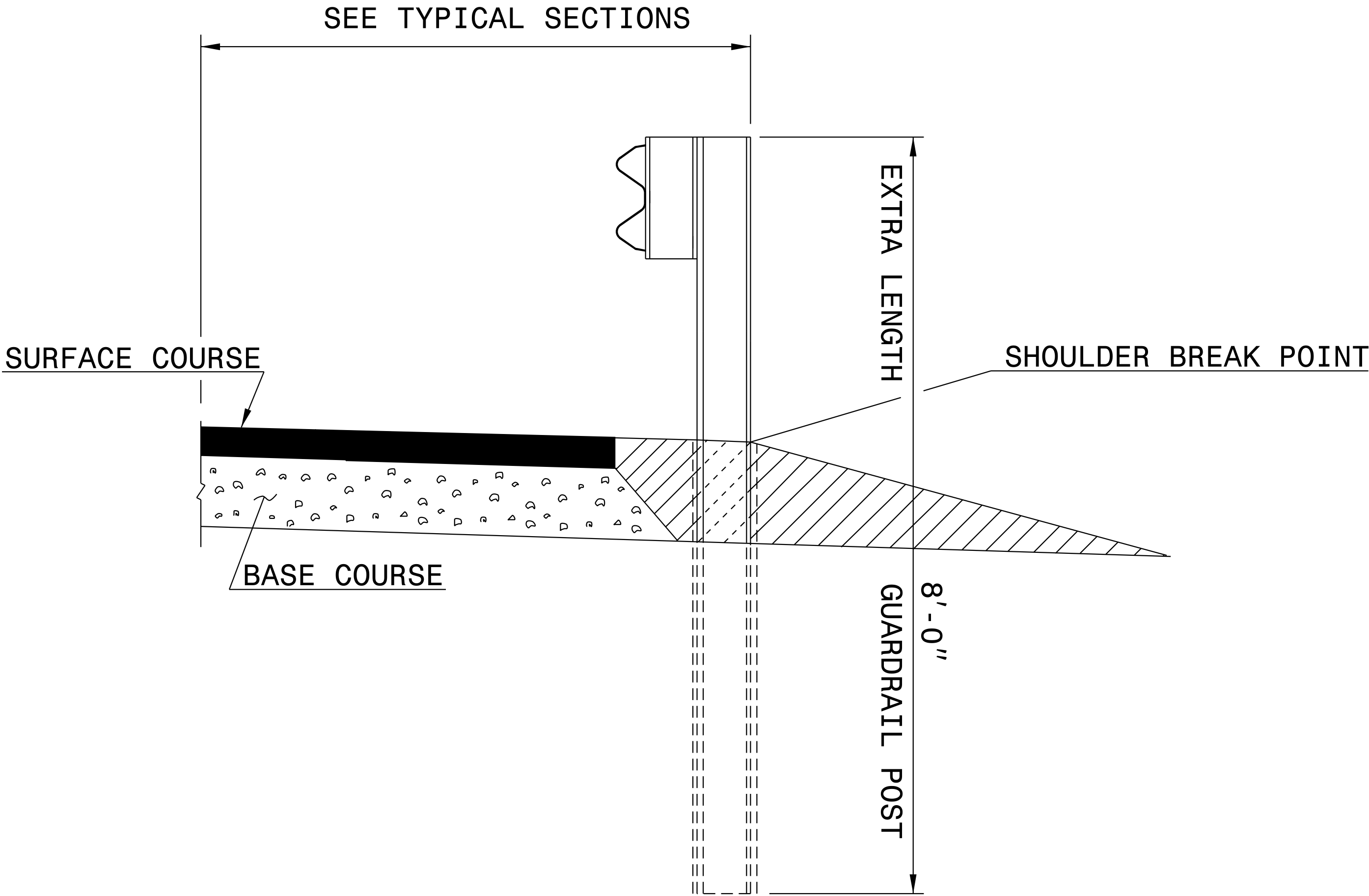
7/3/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Stantec

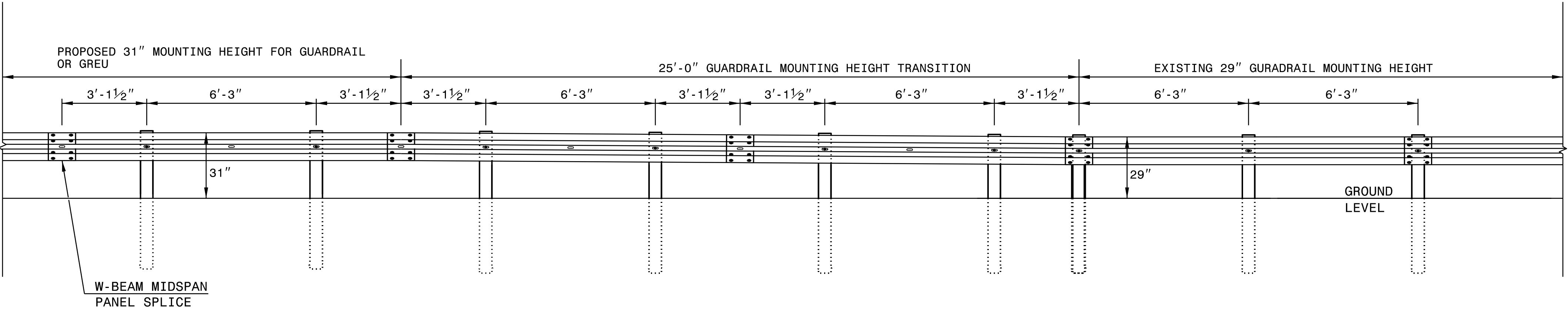
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.	SHEET NO.
NC-9	2C-3

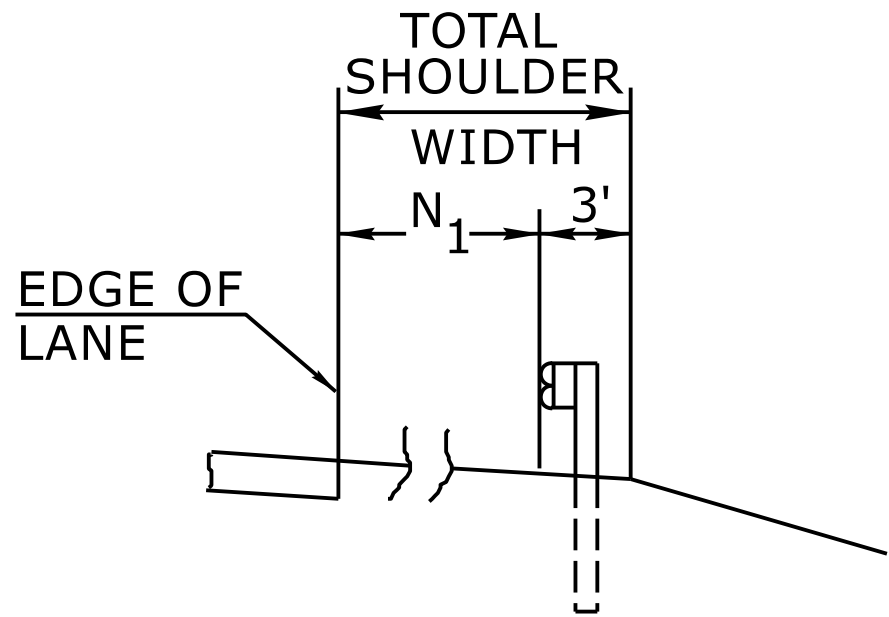


PROJECT REFERENCE NO.	SHEET NO.
NC-9	2C-4

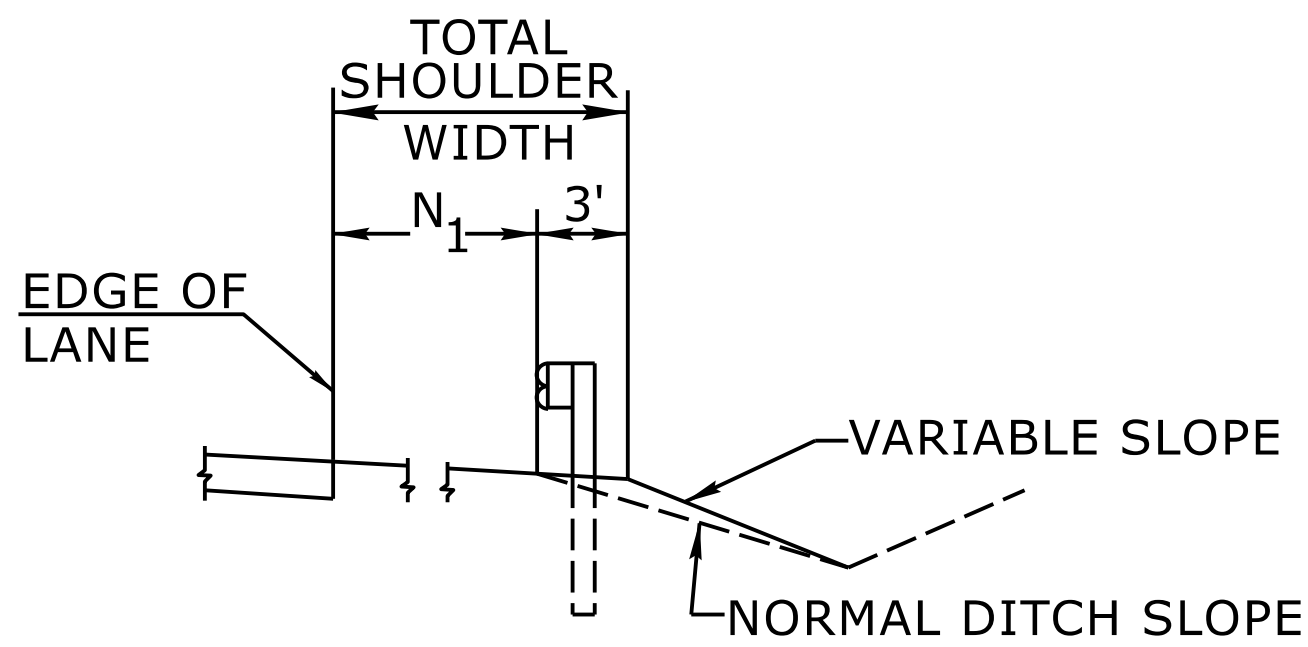
NOTE: IF EXISTING GUARDRAIL IS LOWER THAN 29", USE AN ADDITIONAL 12'-6" LONG SECTION OF GUARDRAIL,
FOR EVERY 1" OF HEIGHT DIFFERENCE, TO TRANSITION FROM EXISTING GUARDRAIL TO PROPOSED 31" GUARDRAIL.



PROJECT REFERENCE NO.	SHEET NO.
NC-9	2C-5

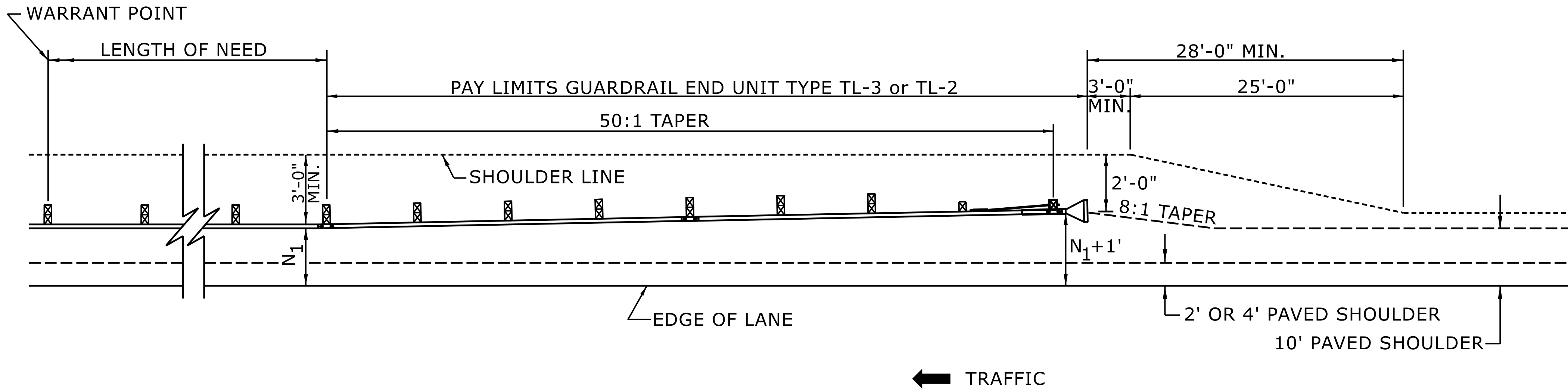


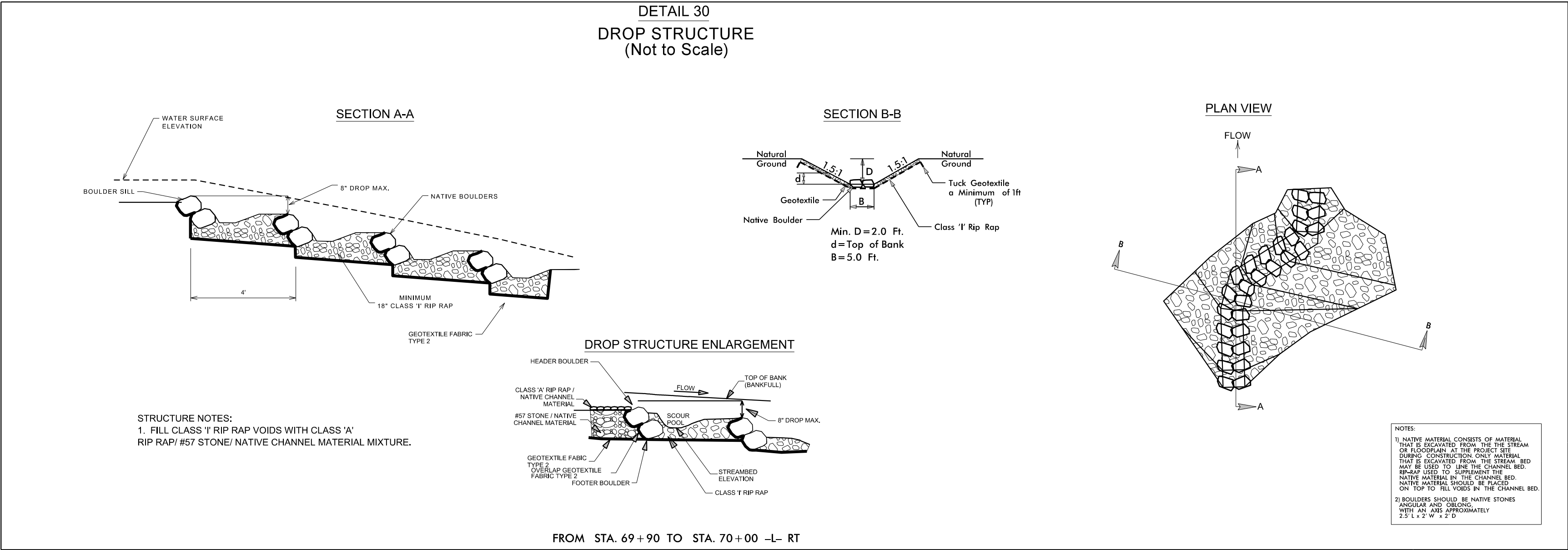
FILL SECTION



CUT SECTION

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





PROJECT REFERENCE NO.
NC-9

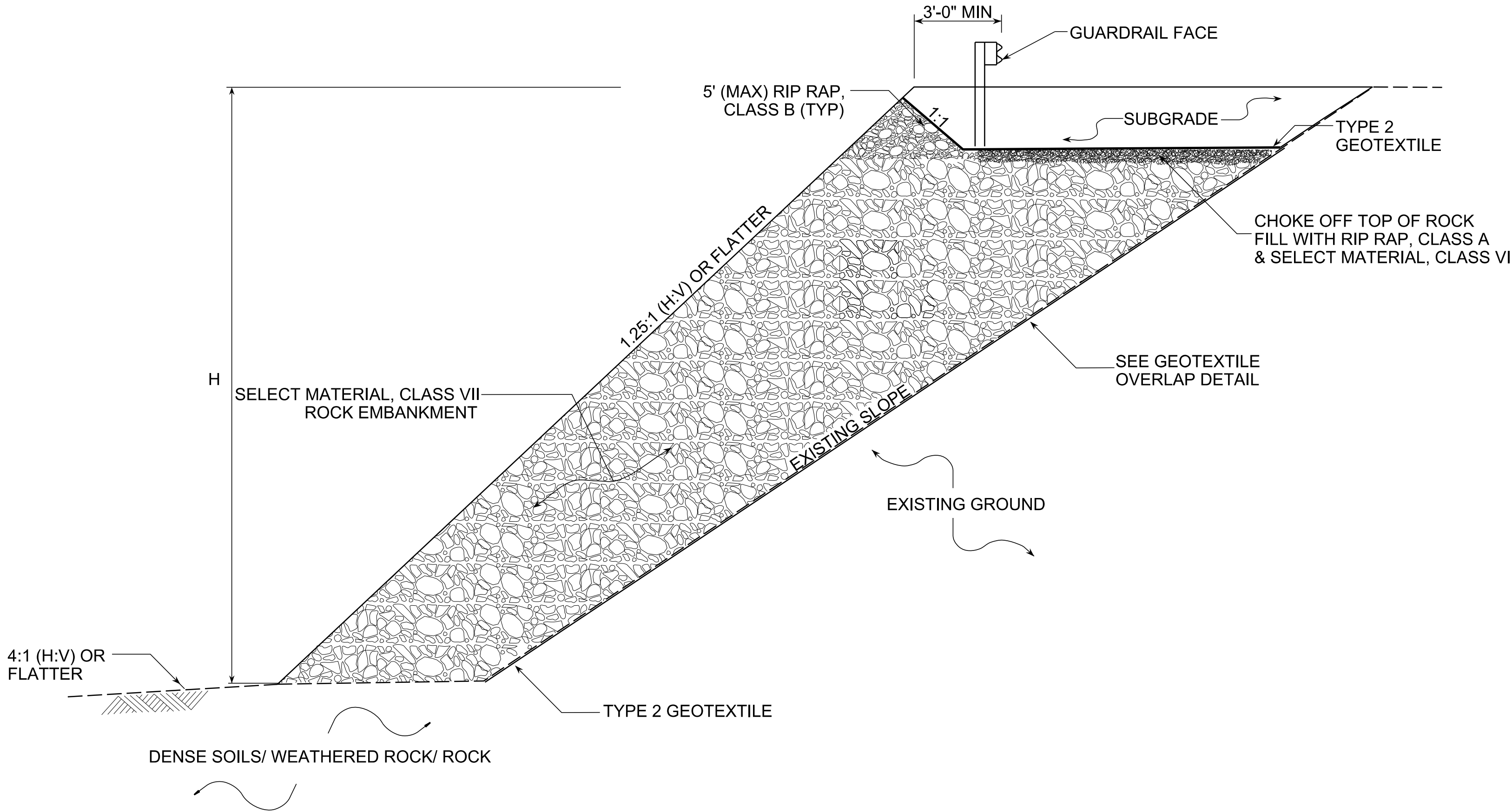
SHEET NO.
2G-1

GEOTECHNICAL
ENGINEER

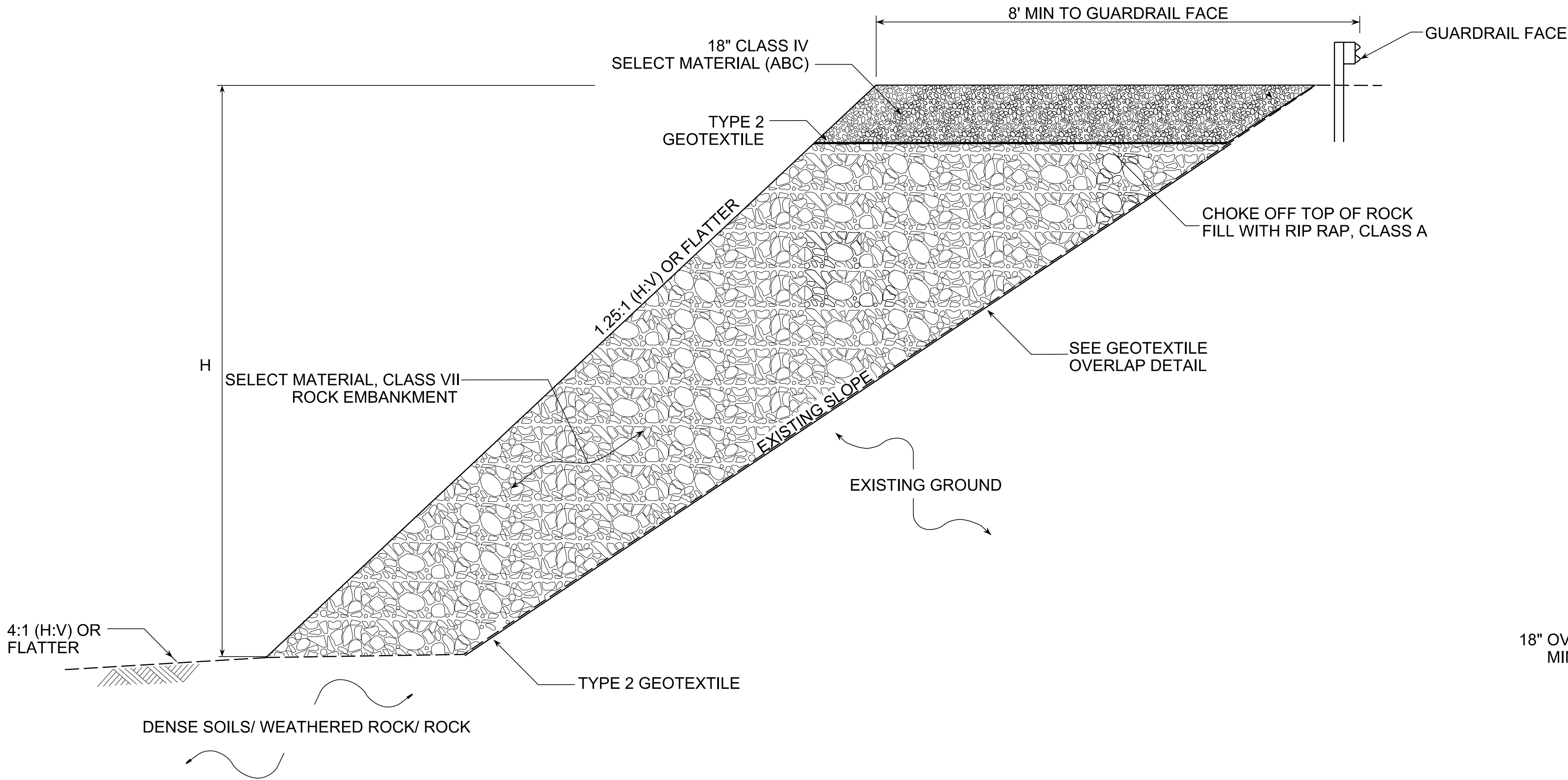
SEAL
037845

ENGINEER
JAMES A. CANPUS

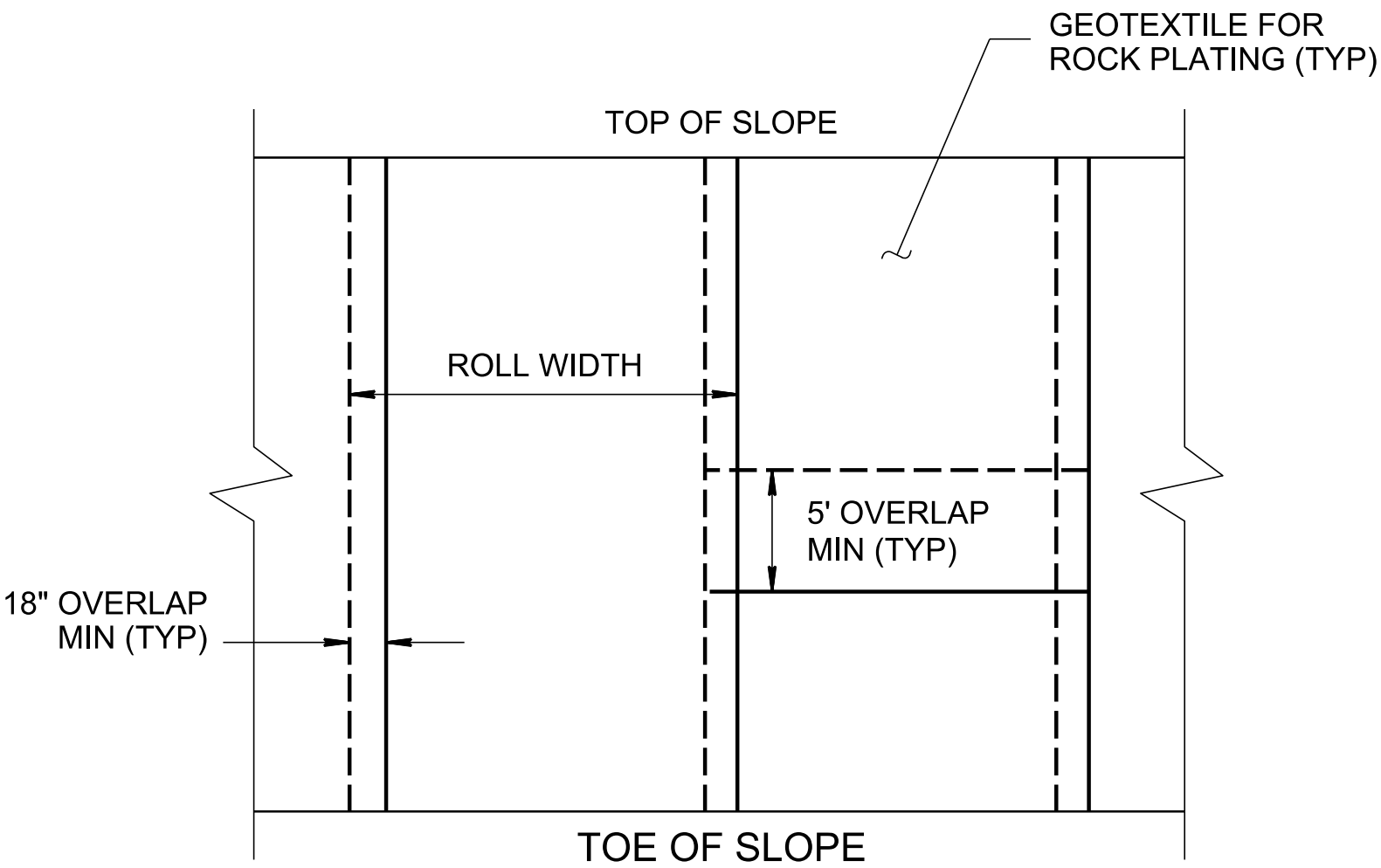
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PROJECT REFERENCE NO.	SHEET NO.
NC-9	2G-2
	GEOTECHNICAL ENGINEER
	Professional Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 037845, dated 06/25/2024, for David A. Canpro
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



ROCK EMBANKMENT DETAIL
STA -L- 65+25 TO 65+80
(NO GUARDRAIL CONFLICTS)



PROJECT REFERENCE NO.
NC-9

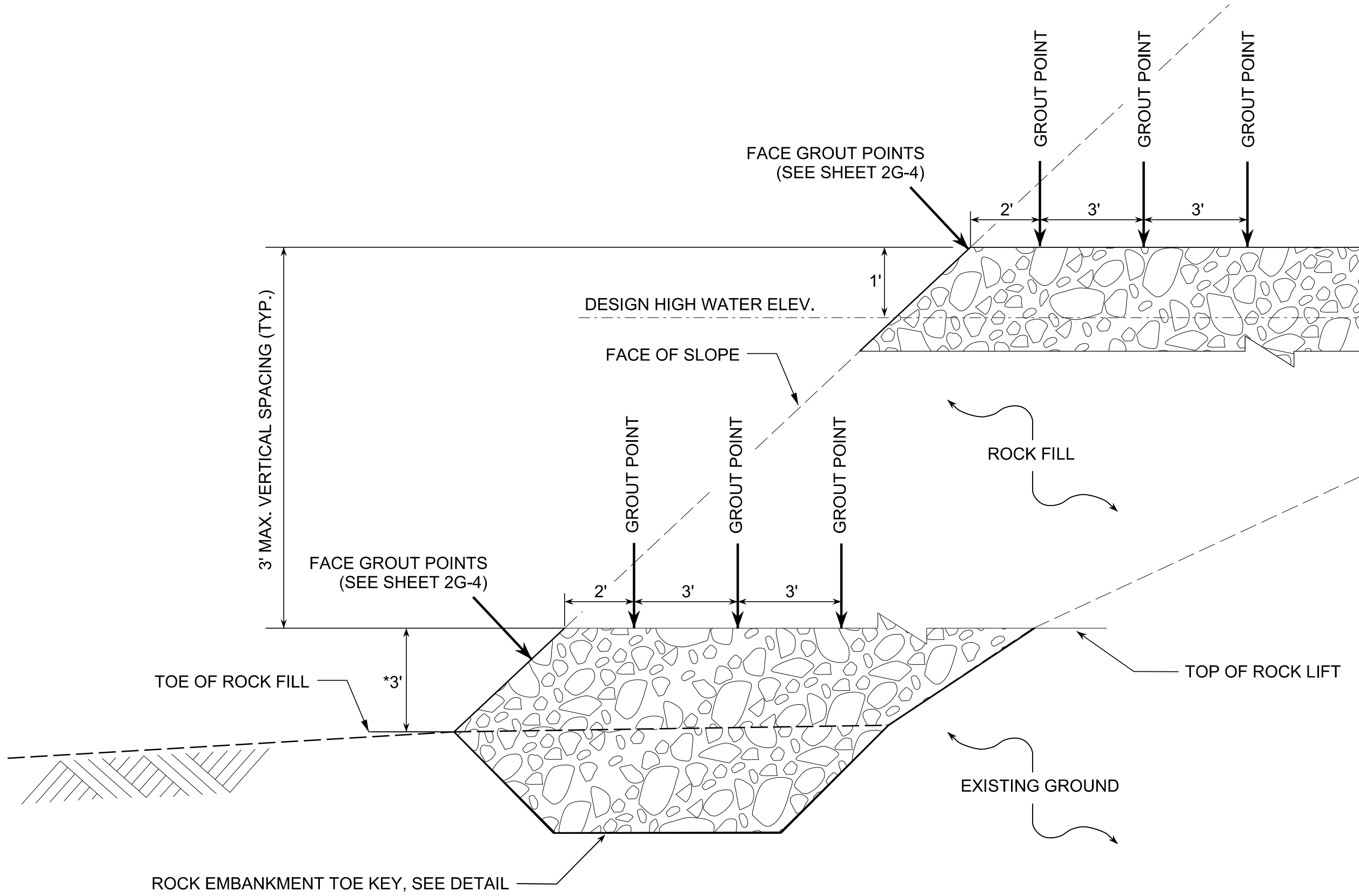
SHEET NO.
2G-3

GEOTECHNICAL
ENGINEER

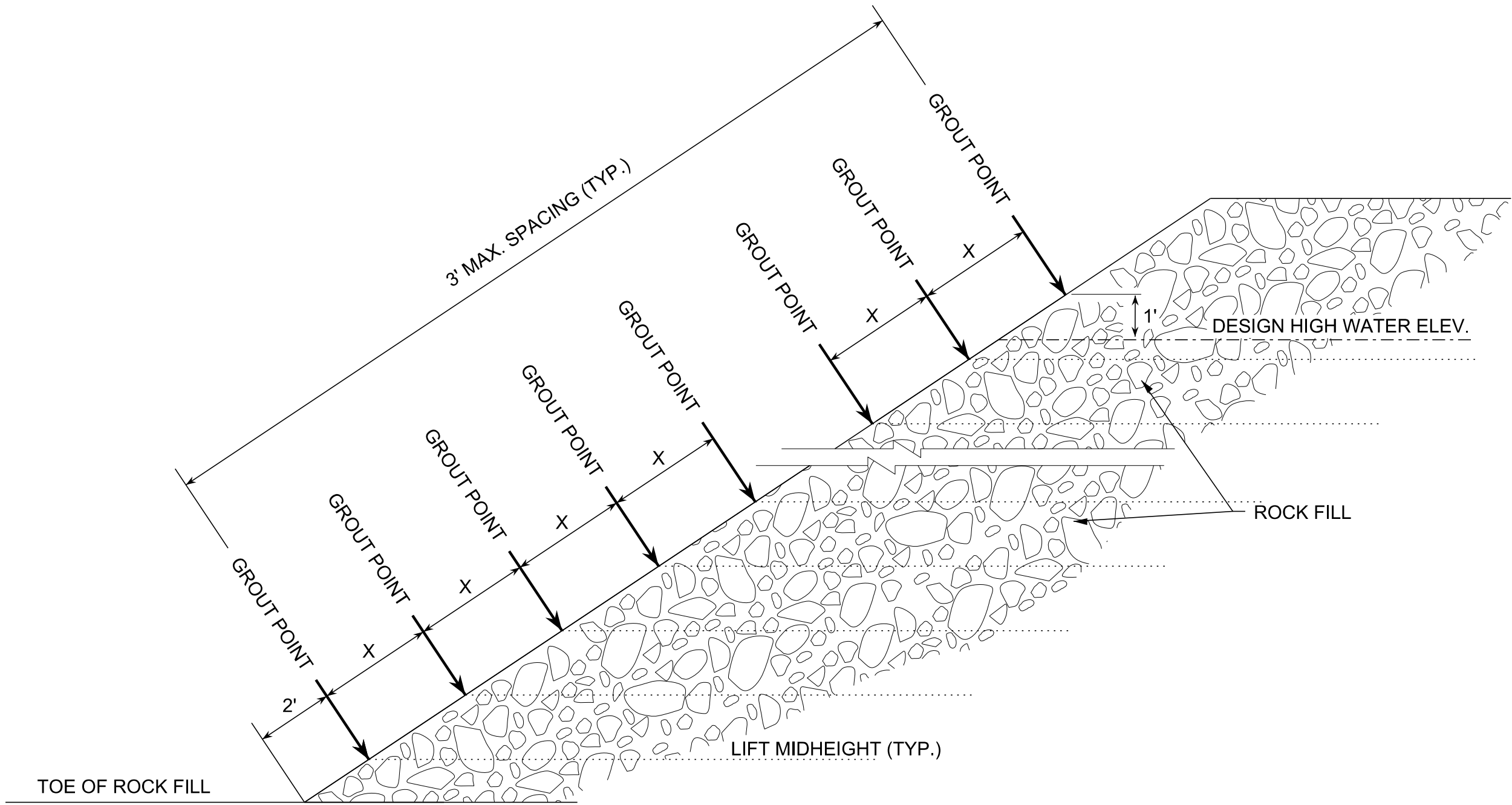
NORTH CAROLINA
PROFESSIONAL
SEAL
037845
ENGINEER
DAVID A. CAMPOS

06/25/2025
72275FD8BA38457

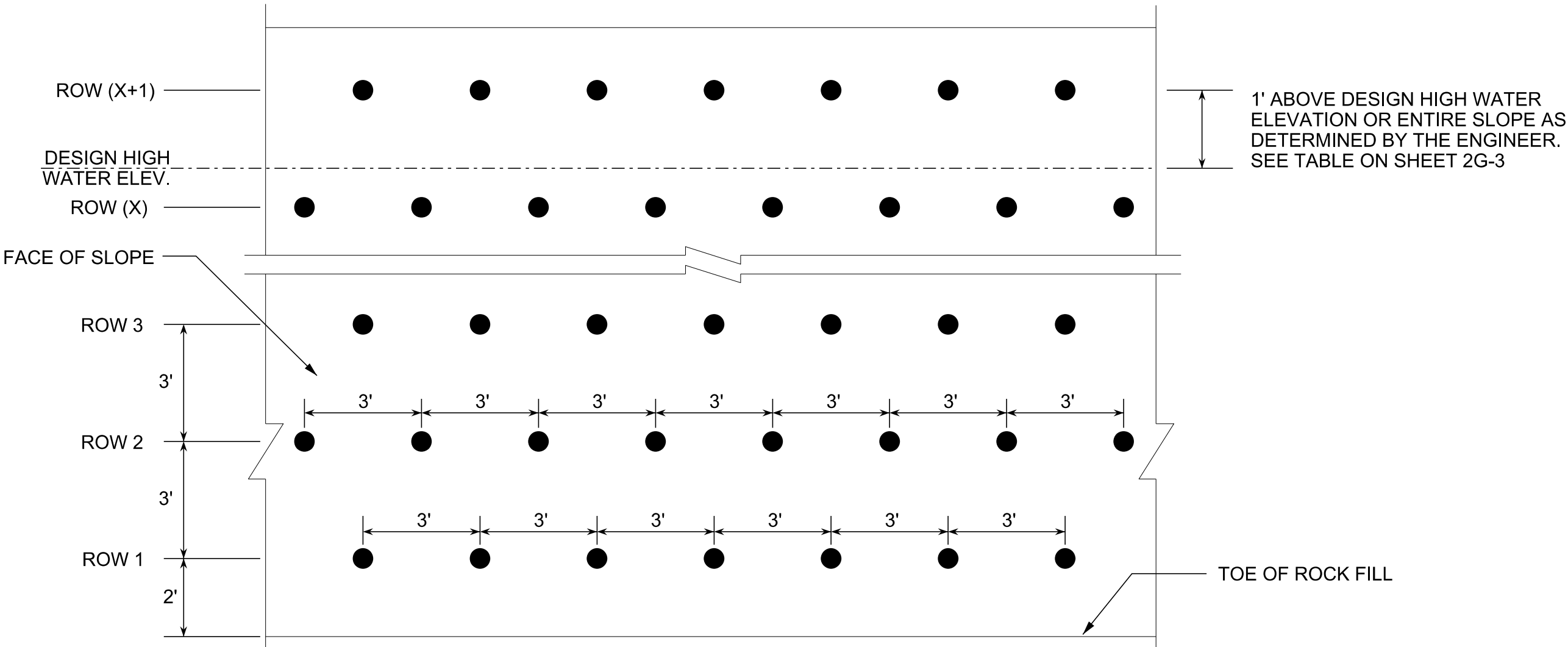
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PROJECT REFERENCE NO.	SHEET NO.
NC-9	2G-4
	GEOTECHNICAL ENGINEER
	Professional Engineer Seal: North Carolina, License No. 037845, Geotechnical Engineering
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PARTIALLY GROUTED ROCK FILL - SLOPE FACE DETAIL
GROUT POINTS AT ROCK LIFT MIDHEIGHT OR 3' MAX., WHICHEVER IS LESS



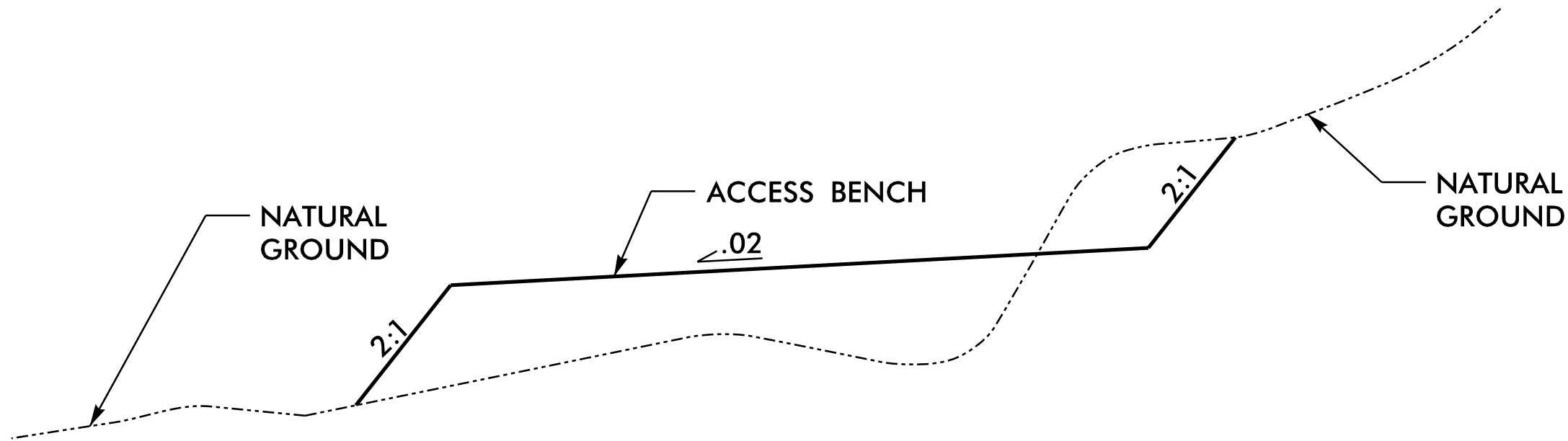
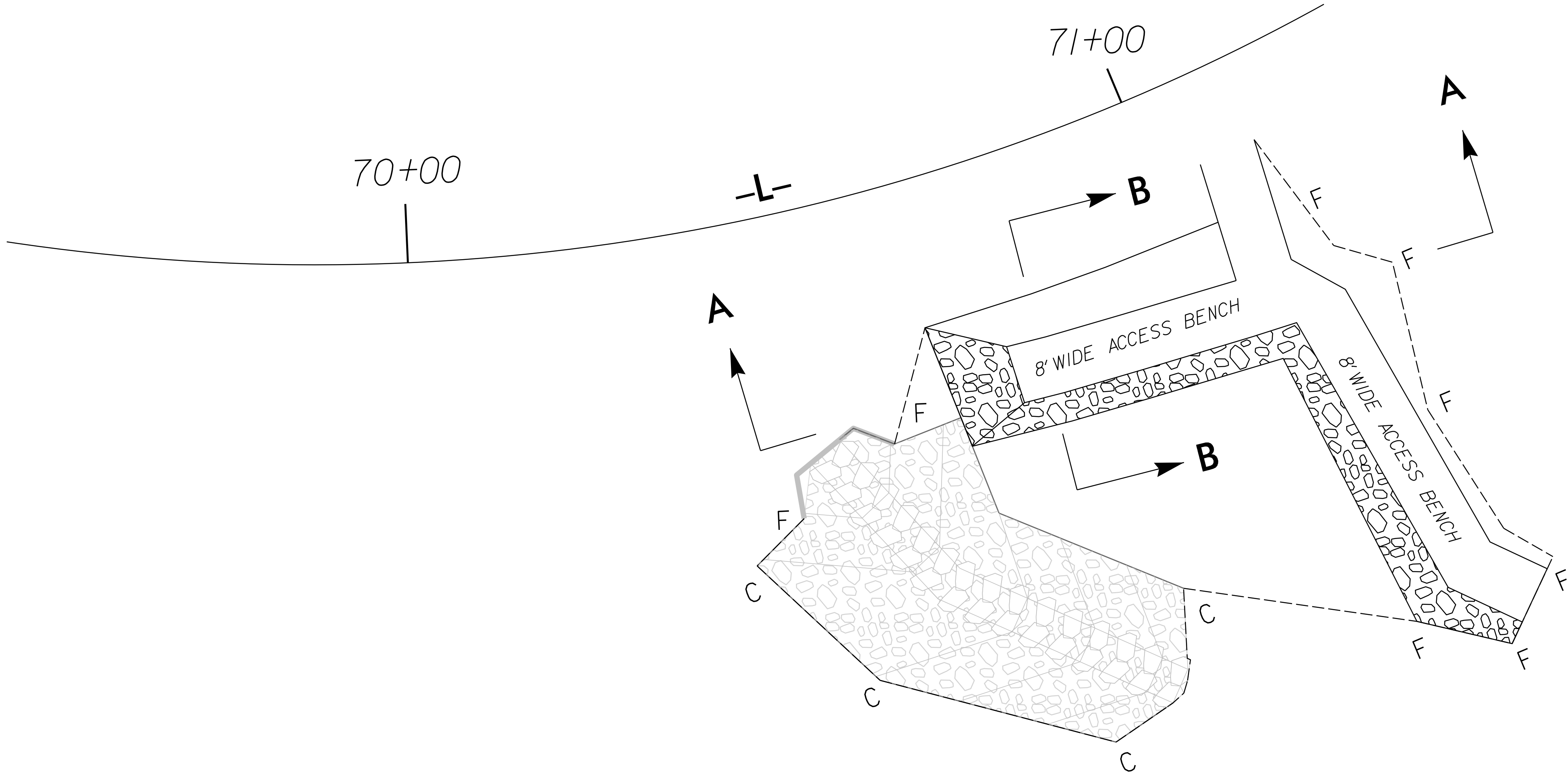
PROJECT REFERENCE NO.
NC-9

SHEET NO.
2G-5

GEOTECHNICAL
ENGINEER

NORTH CAROLINA
PROFESSIONAL
SEAL
037845
ENGINEER
JAMES A. CANPOS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



COMPUTED BY: TJ DATE: 5/4/2025
CHECKED BY: SS DATE: 5/4/2025

PROJECT REFERENCE NO.	SHEET NO.
NC-9	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT TOTALS		EXCAVATION	BORROW	WASTE
		TOTAL UNCLASS.		
SITE	WBS			
SITE 330	18314.1045035	700		358
SITE 331	18314.1045063	800		502
SITE 332	18314.1045062	900		265
SITE 333	18314.104			

COMPUTED BY: TJ DATE: 5/4/2025
CHECKED BY: SS DATE: 5/4/2025

PROJECT REFERENCE NO. SHEET NO.
NC-9 3B-2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Note: Earthwork quantities are calculated by Stantec. These earthwork quantities are based in part on subsurface data provided by S&ME.

Note: Approximate quantities only. Unclassified Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

SITE 330 (WBS 18314.1045035)					
STATION	STATION	EXCAVATION			WASTE TOTAL

COMPUTED BY: TJ DATE: 5/4/2025
CHECKED BY: SS DATE: 5/4/2025

PROJECT REFERENCE NO.	SHEET NO.
NC-9	3B-3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Note: Earthwork quantities are calculated by Stantec. These earthwork quantities are based in part on subsurface data provided by S&ME.

Note: Approximate quantities only. Unclassified Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

Note: Approximate quantities only. Unclassified Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

Note: Approximate quantities only. Unclassified Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

SITE 333 (WBS1

COMPUTED BY: <u> TJ </u> DATE: <u> 5/4/2025 </u> CHECKED BY: <u> SS </u> DATE: <u> 5/4/2025 </u>										DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA										PROJECT REFERENCE NO. <u> NC-9 </u>		SHEET NO. <u> 3B-4 </u>	
IN" = 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																							

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT REMOVAL SUMMARY				
LINE / SITE	STATION	STATION	LOCATION	AREA SY
L 330	40+00	45+00	LT,RT	1230
L 331	50+00	54+50	LT,RT	1000
L 332	68+00	69+00	LT, RT	230
L 333	68+00	71+50	LT,RT	960
L 334	76+00	85+00	LT,RT	2310
L 560	91+00	113+77	LT,RT	5600
			TOTAL	11330

||
||
||

SDG-STANOVICH

COMPUTED BY:	Jake Stanovich	DATE:	06/25/2025
CHECKED BY:	Joshua G. Dalton, PE	DATE:	06/25/2025

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)

LINE & STATION	OFFSET	STRUCTURE NUMBER		TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED S
-------------------	--------	------------------	--	----------------------	-------------------------	-------------------------	--------------------

COMPUTED BY: L. Campos DATE: 6/11/2025
CHECKED BY: S. Mitchell DATE: 6/11/2025

(9-17-24)

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PROJECT NO.
NC-9 - SITE 331

SHEET NO.
3G-2

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
				TOTAL LF:	200

COMPUTED BY: L. Campos DATE: 6/23/2025
CHECKED BY: S. Mitchell DATE: 6/24/2025

(9-17-24)

PROJECT NO.	SHEET NO.
NC-9 - SITE 332	3G-3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
				TOTAL LF:	200

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PROJ. REFERENCE NO.	SHEET NO.
NC-9	3P-1

PARCEL No.	SHEET No.	WBS Site	PROPERTY OWNER NAME
8	5,6,7	330	SOCIETY OF THE TRANSFIGURATION
9	6,7	330	SOCIETY OF THE TRANSFIGURATION
9A	7,8	332	OMEGA VENTURE LLC
10	7,8	332	GAMMA LLC
11	8	332	PHILLIPS, JONATHAN; CHOW, JENNIFER
12	8	332	THE SOCIETY OF TRANSFIGURATION
13	8	333	THE SOCIETY OF TRANSFIGURATION
14	8	333	ELLIOTT, GLENN R.
15	8	33	

