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ROUTE	SITE #	SITE LATITUDE	SITE LONGITUDE	<b>REPAIR OPTION 1</b>	<b>REPAIR OPTION 2</b>	<b>REPAIR OPTION 3</b>
US 64	330	35.13645286	-82.8592656	1.25:1 Rock Embankment with Toe Key		
NC 215	707	35.15729254	-82.83155174	Shotcrete Slope Stabilization		

WHEN MULTIPLE REPAIR OPTIONS ARE AVAILABLE THE CONTRACTOR SHALL PROCEED IN SEQUENT CHOOSE THE FIRST OPTION THAT FITS WITHIN SI	TIAL OR
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## $\mathbf{O}$ 0 DNO M Z

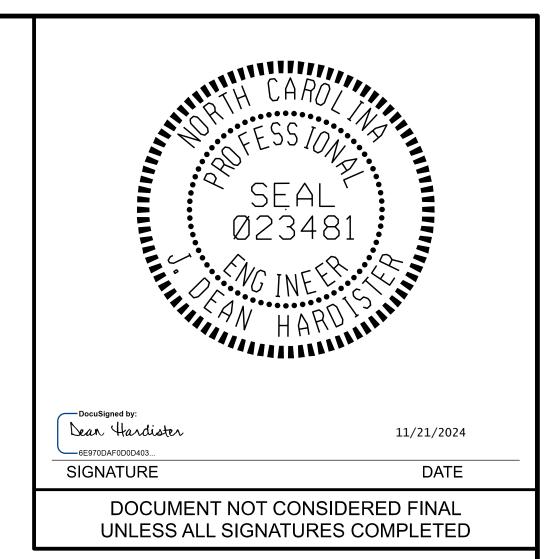
## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT**

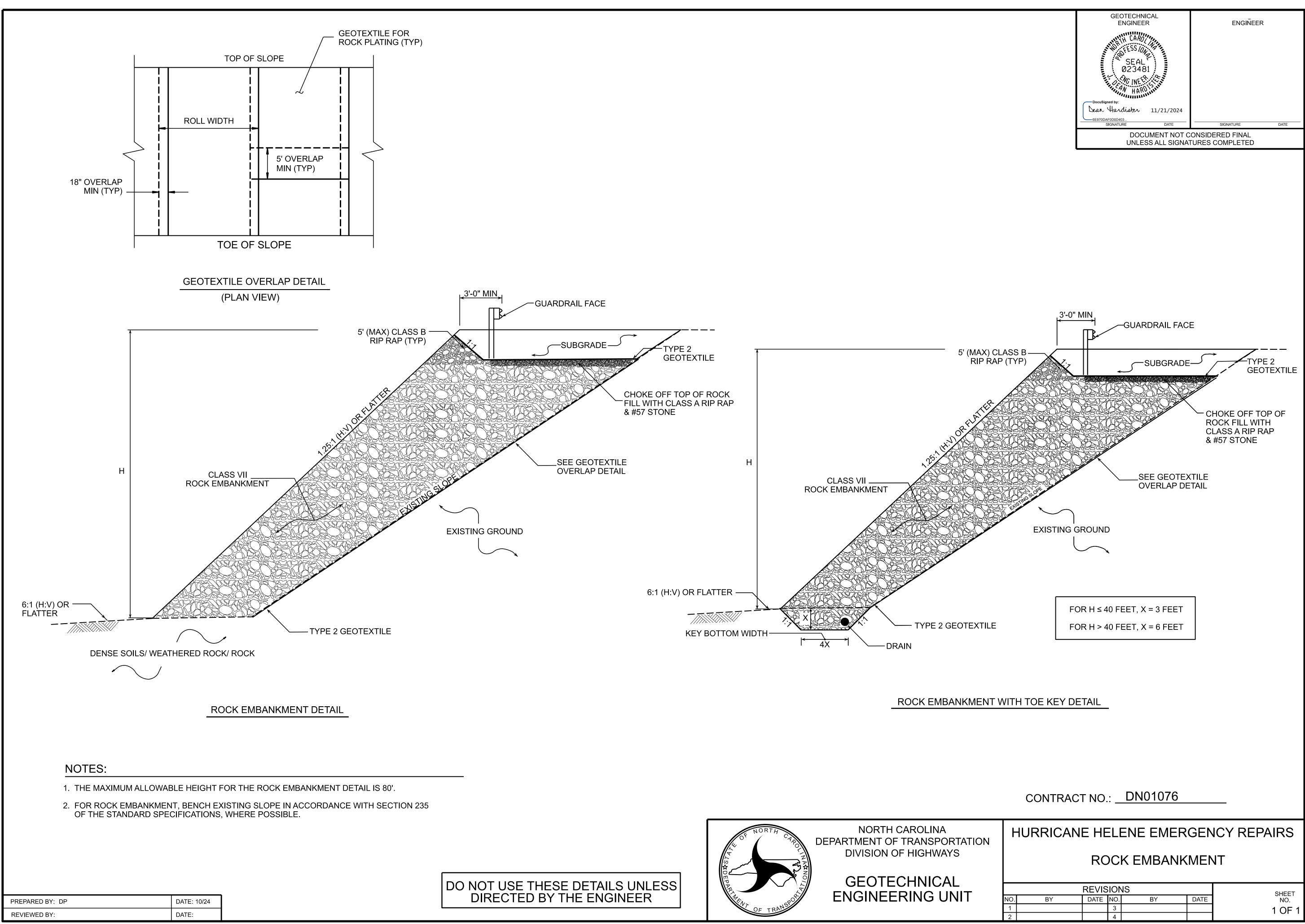
## HELENE EMERGENCY REPAIRS

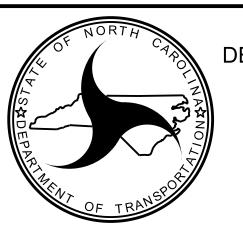
COUNTY TRANSYLVANIA PROJECT DESCRIPTION 1 SITE ON US 64 AND 1 SITE ON NC 215

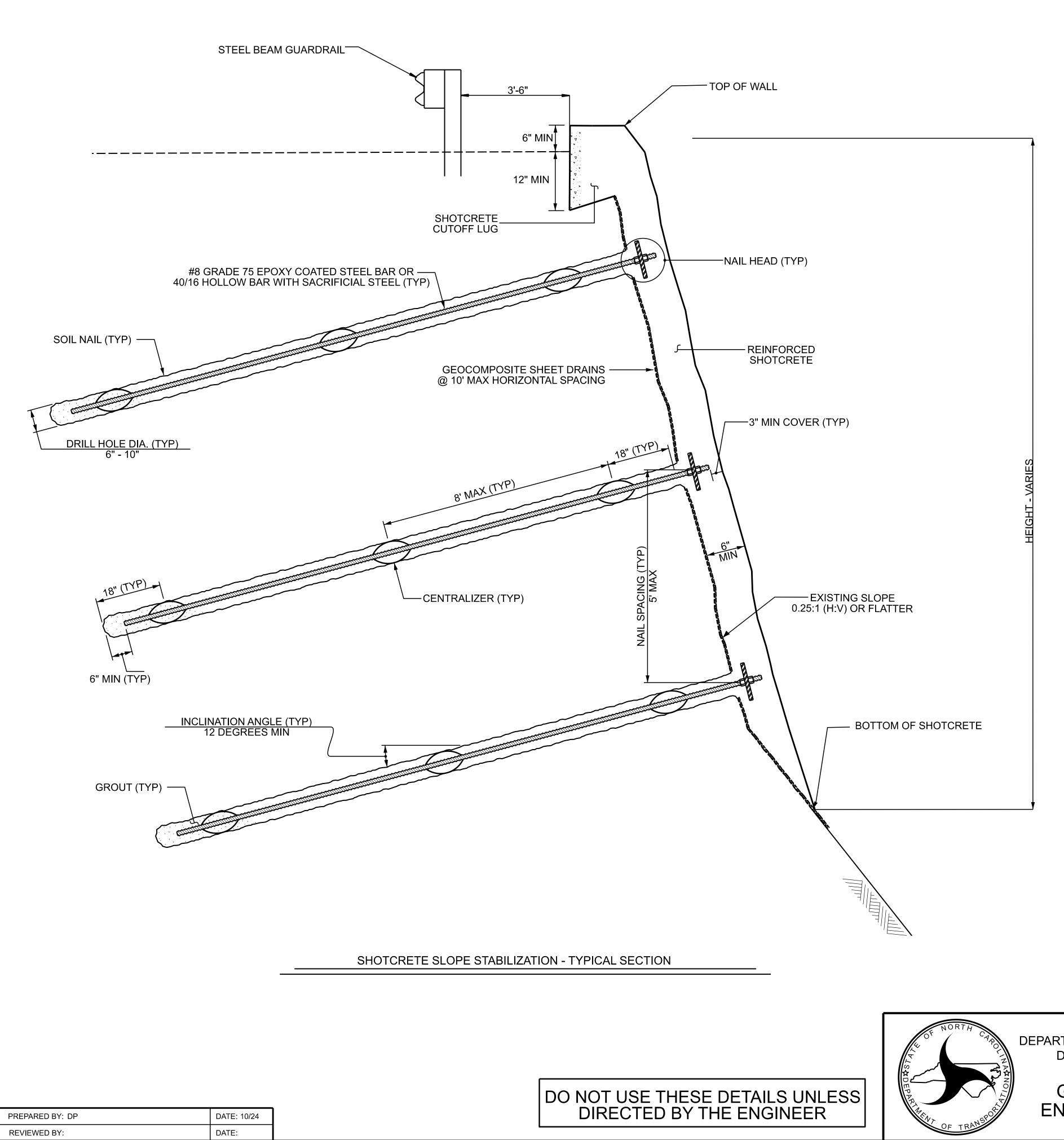


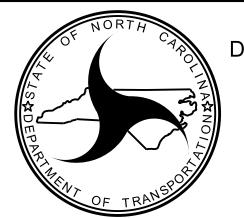
PRIOR TO CONSTRUCTING THE GEOTECHNICAL REPAIRS, AN ON-SITE MEETING WITH THE PRIME CONTRACTOR, THE GEOTECHNICAL SPECIALTY SUBCONTRACTOR (IF APPLICABLE), THE DIVISION CONSTRUCTION REPRESENTATIVE AND THE GEOTECHNICAL OPERATIONS GROUP REPRESENTATIVE SHALL BE CONDUCTED









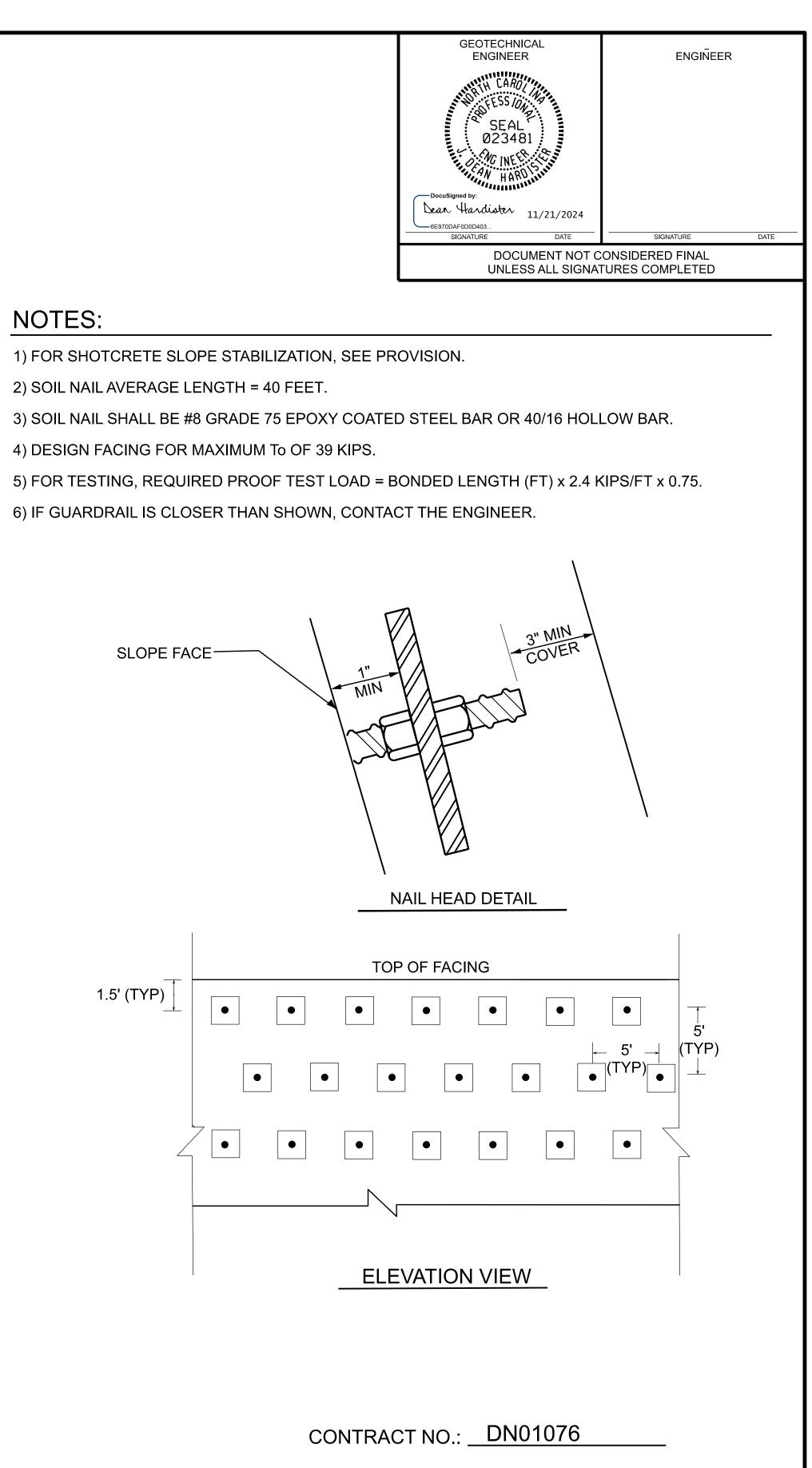


NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

NOTES:

1.5' (TYP)

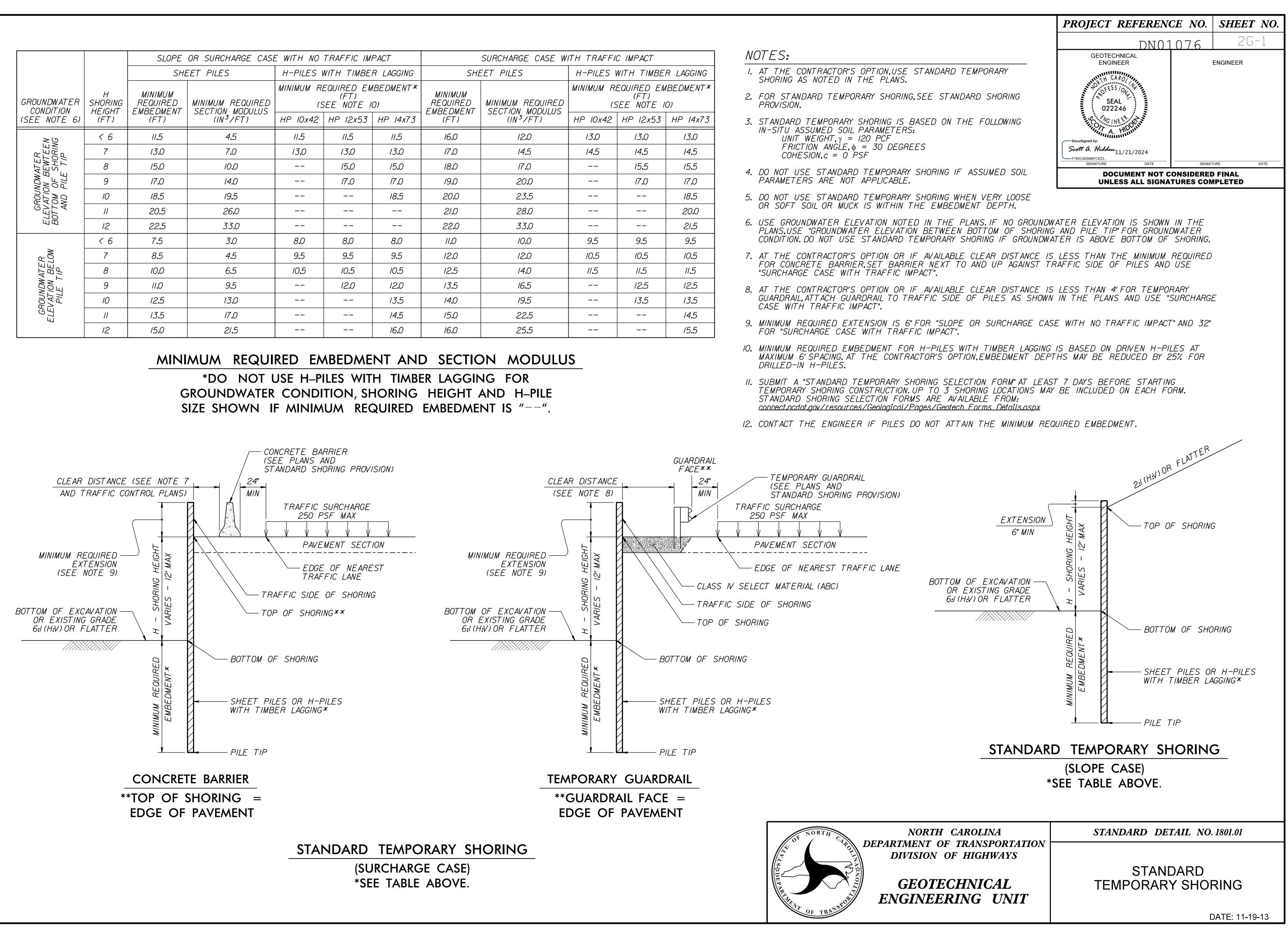


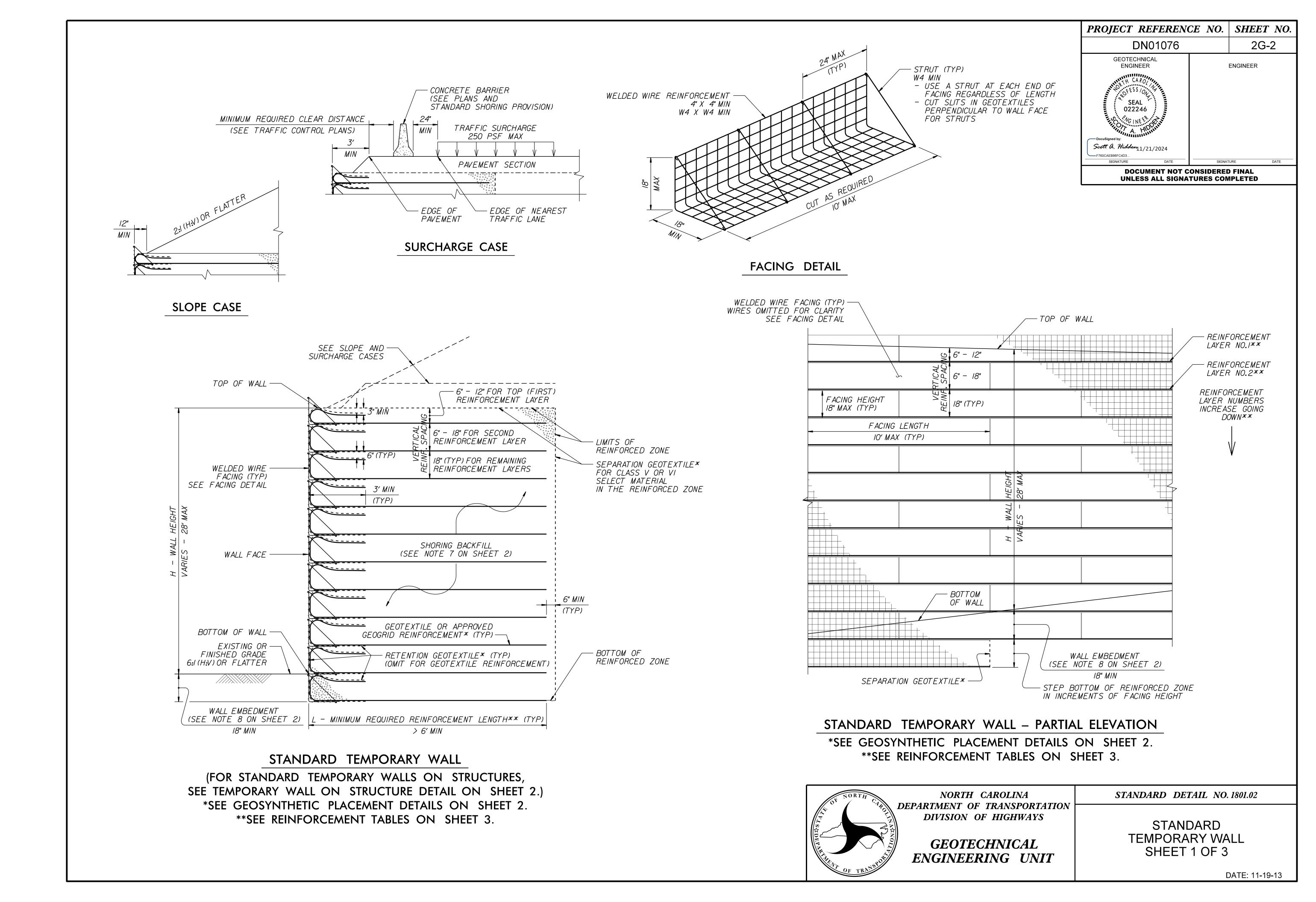
## HURRICANE HELENE EMERGENCY REPAIRS SHOTCRETE SLOPE STABILIZATION

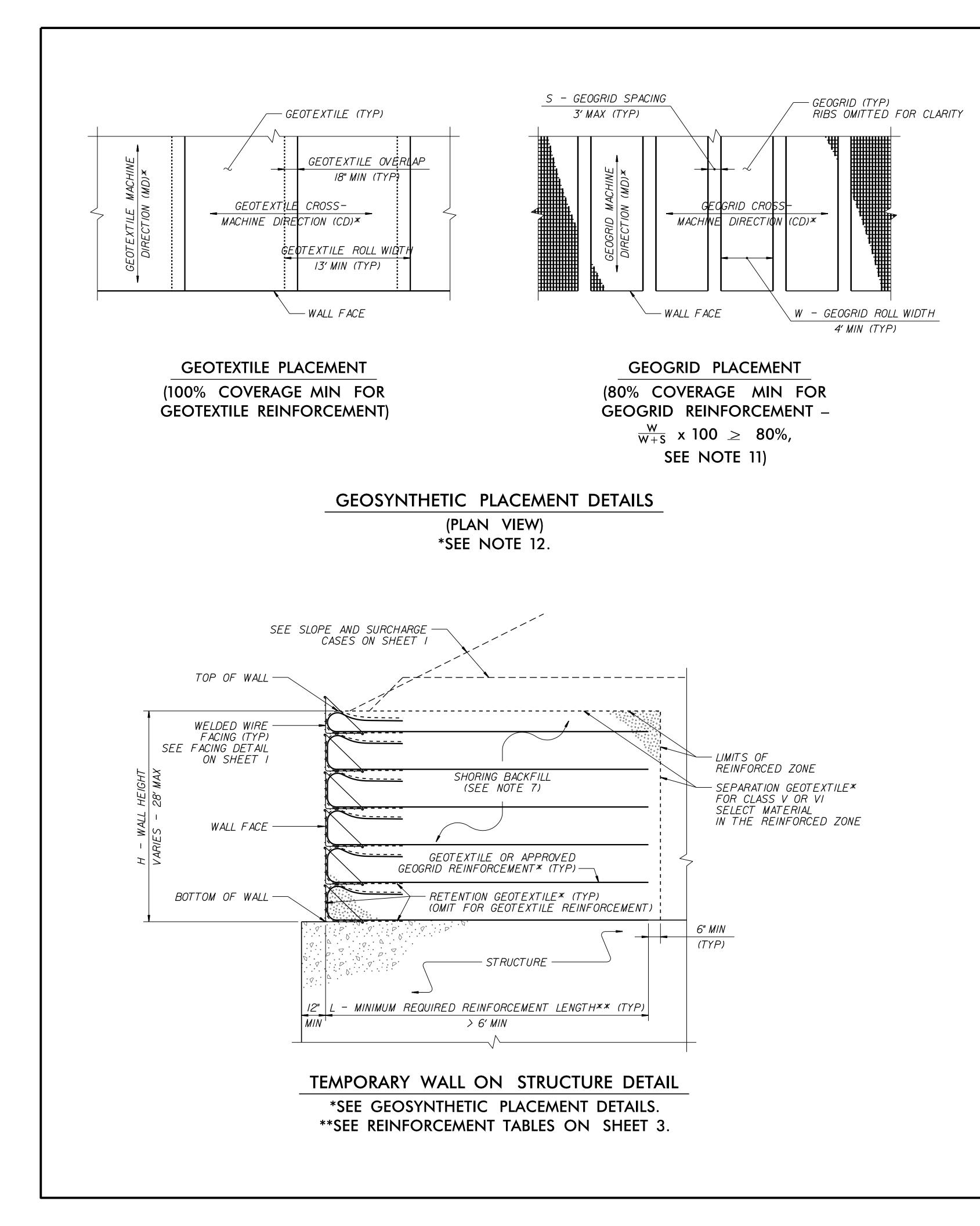
SHEE			IONS	REVIS		
NO.	DATE	BY	NO.	DATE	BY	NO.
1 OF			3			1
			4			2

		SLOPE	OR SURCHARGE CAS	E WITH NO	TRAFFIC IM	PACT		SURCHARGE CASE W	ITH TRAFFI	C IMPACT	
		SHL	EET PILES	H-PILES	WITH TIMBE	R LAGGING	SHI	EET PILES	H-PILES	WITH TIMBE	R LAGGING
GROUNDWATER CONDITION	H SHORING HEIGHT	MINIMUM REQUIRED EMBEDMENT	MINIMUM REQUIRED		EQUIRED EN (FT) SEE NOTE I		MINIMUM REQUIRED EMBEDMENT	MINIMUM REQUIRED		EQUIRED EM (FT) SEE NOTE I	
(SEE NOTE 6)	(FT)	(FT)	SECTION MODULUS (IN <sup>3</sup> /FT)	HP IOx42	HP 12x53	HP 14x73	(FT)	SECTION MODULUS (IN <sup>3</sup> /FT)	HP IOx42	HP 12x53	HP 14x73
N.S.	< 6	//.5	4.5	11.5	11.5	II <b>.</b> 5	16.0	12.0	13.0	13.0	13.0
GROUNDWATER ELEVATION BEWTEEN BOTTOM OF SHORING AND PILE TIP	7	13.0	7.0	13.0	13.0	13.0	17.0	14.5	14.5	14.5	14.5
ATE BEW SHC	8	15.0	10.0		15.0	15.0	18.0	17.0		/5.5	/5.5
VDW NN E OF PILE	9	17.0	14.0		17.0	17.0	19.0	20.0		17.0	17.0
ATIC MC VD	10	18.5	19.5			<i>18<b>.</b>5</i>	20.0	23.5			18.5
64 01710 AI		20.5	26.0				21.0	28.0			20.0
EI B(	12	22.5	33.0				22.0	33.0			21.5
	< 6	7.5	3.0	8.0	8.0	8.0	11.0	10.0	9.5	9.5	9.5
.R LOW	7	8.5	4.5	9.5	9.5	<b>9.</b> 5	12.0	12.0	10.5	10.5	10.5
ATE BE 'IP	8	10.0	6.5	10.5	10.5	10.5	12.5	14.0	11.5	11.5	//.5
NON NOI E	9	11.0	9.5		12.0	12.0	13.5	16.5		12.5	12.5
ROUI PIL PIL	10	12.5	13.0			13.5	14.0	19.5		/3.5	/3.5
GROUNDWATER ELEVATION BELOW PILE TIP		13.5	17.0			14.5	15.0	22.5			14.5
-	12	15.0	21.5			16.0	16.0	25.5			/5.5

\*DO NOT USE H-PILES WITH TIMBER LAGGING FOR







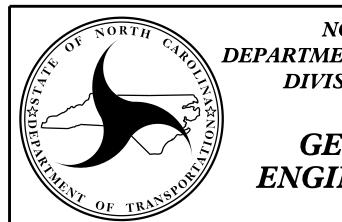
### NOTES:

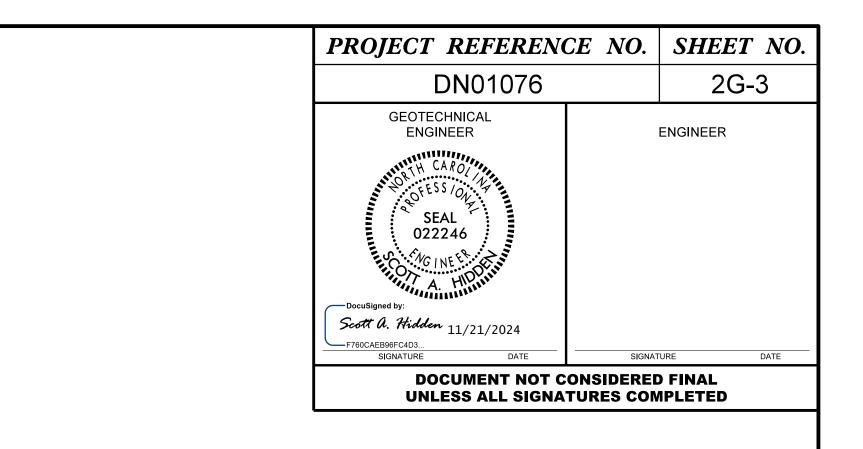
- UNIT WEIGHT,  $\gamma = 120 PCF$ FRICTION ANGLE,  $\phi = 30$  DEGREES COHESION.c = O'PSF

- OF STANDARD TEMPORARY WALLS WITH GEOTEXTILE REINFORCEMENT.
- THE ENGINEER.
- AVAILABLE FROM: connect\_ncdot\_aov/resources/Geological/Pages/Products\_aspx

MATERIAL TYPE	SHORING BACKFILL
BORROW	A-2-4 SOIL
FINE AGGREGATE	CLASS II,TYPE I OR CLASS III SELECT MATERIAL
COARSE AGGREGATE	CLASS V OR VISELECT MATERIAL

- CENTERED OVER GAPS IN THE REINFORCEMENT LAYER BELOW.
- BOTH OF THE FOLLOWING CONDITIONS OCCUR: - REINFORCEMENT STRENGTH IN CD ≥ MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD.
- CONSTRUCTION. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM: connect.ncdot.aov/resources/Geological/Pages/Geotech Forms Details.aspx
- APPROVED.
- REINFORCEMENT AFTER CONSTRUCTING TEMPORARY WALLS.
- OR UTILITIES WILL INTERFERE WITH REINFORCEMENT.
- CORNERS AS DIRECTED BY THE ENGINEER.





I.-AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALLS AS NOTED IN THE PLANS.

2. FOR STANDARD TEMPORARY WALLS.SEE STANDARD SHORING PROVISION.

3. STANDARD TEMPORARY WALLS ARE BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:

4. DO NOT USE STANDARD TEMPORARY WALLS IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.

5. DO NOT USE STANDARD TEMPORARY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW TEMPORARY WALLS.

6. USE GROUNDWATER ELEVATION NOTED IN THE PLANS. IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS, ASSUME GROUNDWATER DEPTH IS LESS THAN 7' BELOW BOTTOM OF REINFORCED ZONE. DO NOT USE STANDARD TEMPORARY WALLS IF GROUNDWATER OR FLOOD ELEVATION IS ABOVE BOTTOM OF REINFORCED ZONE.

7. DO NOT USE A-2-4 SOIL FOR STANDARD TEMPORARY WALLS AROUND CULVERTS OR IN THE REINFORCED ZONE OF STANDARD TEMPORARY WALLS FOR SLOPE CASES. DO NOT USE CLASS VISELECT MATERIAL IN THE REINFORCED ZONE

8. WALL EMBEDMENT IS NOT REQUIRED FOR STANDARD TEMPORARY WALLS ON STRUCTURES OR ROCK AS DETERMINED BY

9. DO NOT USE MORE THAN 4 DIFFERENT REINFORCEMENT STRENGTHS FOR EACH STANDARD TEMPORARY WALL.

IO. GEOGRIDS FOR GEOGRID REINFORCEMENT ARE APPROVED FOR SHORT TERM DESIGN STRENGTHS (3-YEAR DESIGN LIFE) IN THE MD AND CD BASED ON MATERIAL TYPE. THE LIST OF APPROVED GEOGRIDS WITH DESIGN STRENGTHS IS DEFINE MATERIAL TYPE FROM THE WEBSITE ABOVE FOR SHORING BACKFILL AS FOLLOWS:

II. FOR GEOGRID REINFORCEMENT WITH LESS THAN 100% COVERAGE, STAGGER REINFORCEMENT SO GEOGRIDS ARE

12. AT THE CONTRACTOR'S OPTION. REINFORCEMENT MAY BE INSTALLED WITH THE MD PARALLEL TO THE WALL FACE IF

- W (REINFORCEMENT ROLL WIDTH) ≥ (MINIMUM REQUIRED REINFORCEMENT LENGTH) + 4.5' AND

13. SUBMIT A "STANDARD TEMPORARY WALL SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY WALL

14. DO NOT PLACE SHORING BACKFILL OR REINFORCEMENT UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE

15. FOR STANDARD TEMPORARY WALLS WITH PILE FOUNDATIONS IN THE REINFORCED ZONE, DRIVE PILES THROUGH

16. DO NOT SPLICE OR OVERLAP REINFORCEMENT SO SEAMS ARE PARALLEL TO THE WALL FACE.

17. CONTACT THE ENGINEER WHEN EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, PAVEMENTS, PIPES, INLETS

18. FOR STANDARD TEMPORARY WALLS WITH INTERIOR ANGLES LESS THAN 90 DEGREES, WRAP GEOSYNTHETICS AT ACUTE

19. FOR STANDARD TEMPORARY WALLS WITH TOP OF WALL WITHIN 5' OF FINISHED GRADE, REMOVE TOP FACING AND INCORPORATE TOP REINFORCEMENT LAYER INTO FILL WHEN PLACING FILL IN FRONT OF WALL.

> NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

STANDARD DETAIL NO. 1801.02

**GEOTECHNICAL ENGINEERING UNIT** 

STANDARD **TEMPORARY WALL** SHEET 2 OF 3

DATE: 10-19-21

	GROUNDWATER DEPTH BELOW BOTTOM OF REINFORCED ZONE	SHORING BACKFILL TYPE IN THE											Н -	- WAL	L HEI	GHT (	(FT)										
SLOPE OR SURCHARGE CASE	(SEE NOTE 6 ON SHEET 2) (FT)	REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)	< 4	5	6	7	8	9	10	//	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
SLOPE CASE	> 0	CLASS II,TYPE I, CLASS III,CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	8	9	//	12	13	13	14	15	16	17	18	19	20	21	22	23	24	24	25	26	27	27
	> 0 T0 7 FOR H < 20' > 0 T0 10 FOR H ≥ 20'	ALL SHORING BACKFILL TYPES	6	7	7	8	8	9	9	10	//	//	12	12	13	4	14	15	16	17	17	18	19	19	20	21	22
SURCHARGE		A-2-4 SOIL	6	6	7	8	8	9	9	10		//	12	12	13	14	14	15	16	16	17	18	18	19	20	20	21
CASE	> 7 FOR H < 20' > 10 FOR H ≥ 20'	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	6	6	7	7	8	8	9	10	10		11	12	12	13	14	15	15	16	16	17	17	18	18	19	20
		CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	7	7	8	8	9	9	10	10		12	13	13	14	14	15	15	16	17	17	18	19	19

		SHORING BACKFIL (SEE	L TYPE IN THE F NOTE 7 ON SHE	REINFORCED ZONE ET 2)					L TYPE IN THE N NOTE 7 ON SHE	REINFORCED ZONE ET 2)	
	SLOPE	E CASE		SURCHARGE CASE			SLOPE	CASE		SURCHARGE CASE	
REINFORCEMENT LAYER NUMBER*	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL	A-2-4 SOIL	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL	REINFORCEMENT LAYER NUMBER*	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIAL	A-2-4 SOIL	CLASS II,TYPE I OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIA
/	2400	2400	2400	2400	2400	/	240	200	340	290	240
2	2400	2400	2400	2400	2400	2	380	310	520	430	350
3	2400	2400	2400	2400	2400	3	530	420	700	570	460
4	2400	2400	2500	2400	2400	4	690	550	870	720	570
5	2500	2400	3000	2400	2400	5	860	690	1050	860	680
6	3000	2400	3500	2800	2400	6	1030	830	1220	1000	790
7	3500	2700	4000	3200	2600	7	1200	970	1400	//50	900
8	4000	3100	4500	3600	2900	8	1370	1110	1580	1290	1010
9	4500	3500	5000	4000	3200	9	1550	1240	1750	1430	1120
10	5000	3900	5500	4400	3500	10	1720	1380	1930	1580	1230
//	5500	4300	6000	4800	3800		1890	1520	2100	1720	1340
12	6000	4700	6500	5200	4100	12	2060	1660	2280	1860	1450
13	6500	5100	7000	5600	4400	13	2240	1800	2450	2010	1560
14	7000	5400	7500	6000	4700	14	2410	1940	2630	2150	1670
15	7500	5800	8000	6400	5000	15	2580	2080	2800	2290	1780
16	8000	6200	8500	6800	5300	16	2750	2220	2980	2440	1890
17	8500	6600	9000	7200	5600	17	2930	2360	3160	2580	2000
18	9000	7000	9500	7600	5900	18	3100	2500	3330	2720	2110
19	9500	7400	10000	8000	6200	19	3270	2640	3510	2860	2220
20	10000	7800	10500	8400	6500	20	3440	2780	3690	3000	2330

### GEOTEXTILE REINFORCEMENT ULTIMATE TENSILE STRENGTH (LB/FT)

## L – MINIMUM REQUIRED REINFORCEMENT LENGTH (FT)

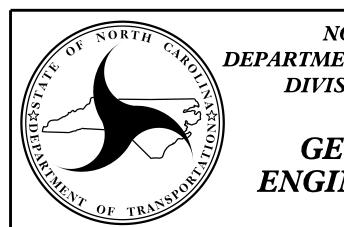
(FOR ALL REINFORCEMENT TYPES)

## GEOGRID REINFORCEMENT SHORT-TERM DESIGN STRENGTH (LB/FT)

(SEE NOTE 10 ON SHEET 2.)

MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD

(SEE NOTE 9 ON SHEET 2.) \*SEE PARTIAL ELEVATION ON SHEET 1 FOR REINFORCEMENT LAYER NUMBERING.



PROJECT REFERENC	CE NO.	SHEET	NO.
DN01076		2G-4	-
GEOTECHNICAL ENGINEER HURTH CARO/ OFESS/OW SEAL 022246 DocuSigned by: Scott A. Hiddlen 1/21/2024		ENGINEER	
SIGNATURE DATE	SIGNAT	TURE D	ATE
DOCUMENT NOT C UNLESS ALL SIGNA			

WALL HEIGHT (H) + WALL EMBEDMENT (FT)	NUMBER OF REINFORCEMENT LAYERS*
2.5 - 4	3
4 - 5.5	4
5.5 - 7	5
7 - 8.5	6
8.5 - 10	7
10 - 11.5	8
11.5 - 13	9
13 - 14.5	10
14.5 - 16	11
16 - 17.5	12
17.5 - 19	13
19 - 20.5	14
20.5 - 22	15
22 - 23.5	16
23.5 - 25	17
25 - 26.5	18
26.5 - 28	19
28 - 29.5	20

\*BASED ON VERTICAL REINFORCEMENT SPACING SHOWN ON SHEET 1.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

**GEOTECHNICAL** ENGINEERING UNIT STANDARD DETAIL NO. 1801.02

STANDARD TEMPORARY WALL SHEET 3 OF 3

DATE: 11-19-13

## SUMMARY OF QUANTITIES

								600000000-E	600600000-E	600900000-E	6012000000-Е	602900000-E	603600000-E	6042000000-Е	6071010000-E	6084000000-E	6117000000-N	6117500000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN	END	TEMPORARY	STONE FOR	STONE FOR	SEDIMENT	SAFETY FENCE	MATTING FOR	1/4"	WATTLE	SEED &	<b>RESPONSE FOR</b>	CONCRETE
						MP	MP	SILT FENCE	EROSION	EROSION	CONTROL		EROSION	HARDWARE		MULCHING	EROSION	WASHOUT
									CONTROL,	CONTROL,	STONE		CONTROL	CLOTH			CONTROL	STRUCTURE
									CLASS A	CLASS B								
				MI	FT			LF	TON	TON	TON	LF	SY	LF	LF	AC	EA	EA
18314.1088011	Transylvania	1	US-64	0.06	22	10.9	10.96	200			15					0.1	1	
то	OTAL FOR MAP N	10.1		0.06				200			15					0.1	1	
	R PROJ NO. 183	14 10000	11	0.06				200			15					0.1	1	
TOTAL FO	NO. 103	14.10000	11															
18314.1088015	Transylvania	2	US-64	0.05	22	6.58	6.63	150	20	20	20		100	20	50	0.1	1	
TO	OTAL FOR MAP N	10.2		0.05				150	20	20	20		100	20	50	0.1	1	
	R PROJ NO. 183	14 10000	16	0.05				150	20	20	20		100	20	50	0.1	1	
TOTAL FO	'N PNOJ NO. 183	14.10000	15															
18314.1088038	Transylvania	3	NC-215	0.06	20	1.32	1.38	100				100					1	1
то	OTAL FOR MAP N	10.3		0.06				100				100					1	1
	R PROJ NO. 183	1/ 10000	20	0.06				100				100					1	1
TOTAL FO		14.10080	30															
	GRAND TOTAL			0.17				450	20	20	35	100	100	20	50	0.2	3	1
ł	GRAND IUTAL	L																

## SUMMARY OF QUANTITIES

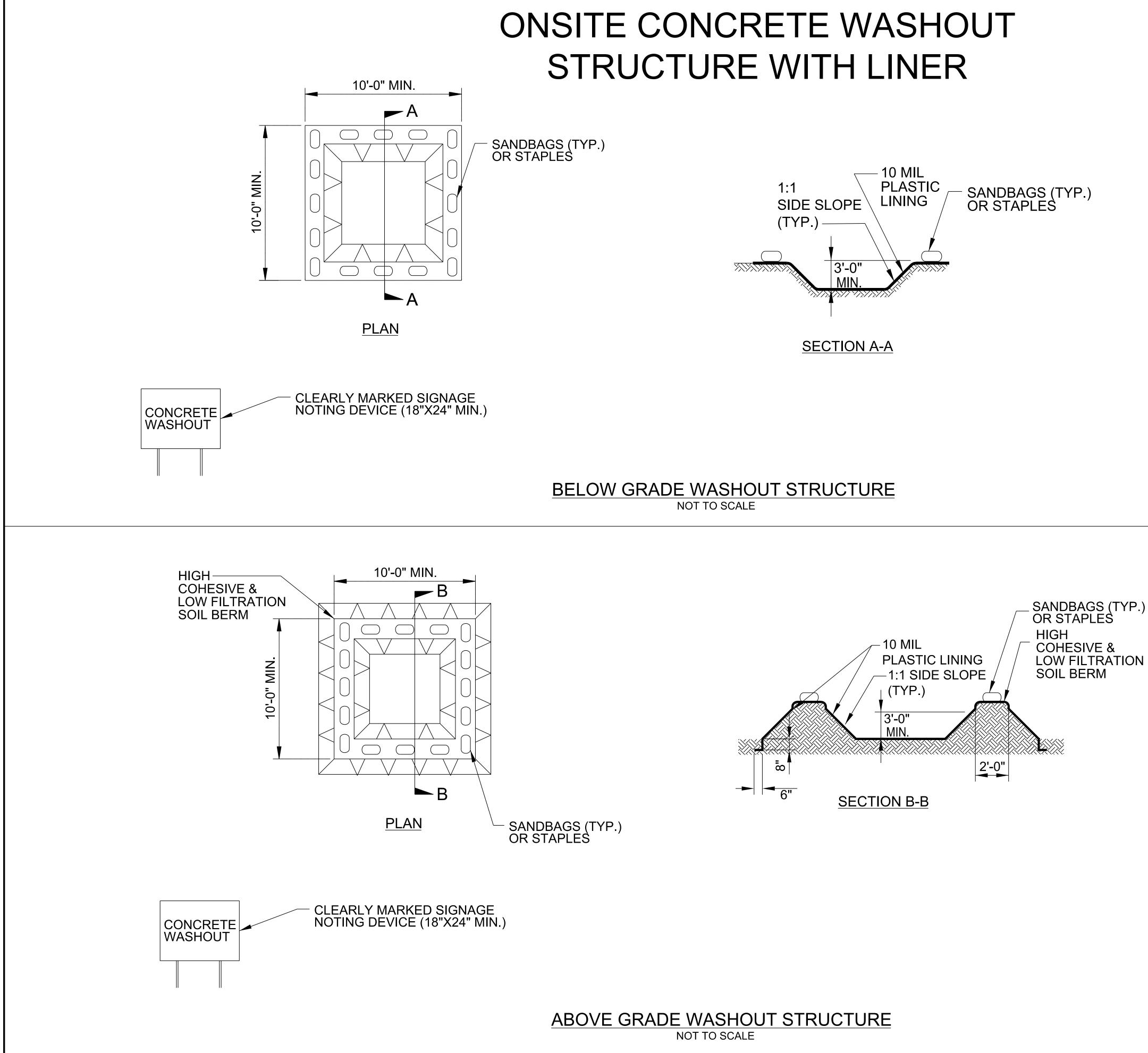
								3642000000-E	3649000000-E	883400	0000-N	8839	900000-Е	8853000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN	END	<b>RIP RAP, CLASS</b>	<b>RIP RAP, CLASS</b>	SOIL NAIL,	SOIL NAIL	SOIL NAIL,	GEOCOMPOSITE	SHOTCRETE
						MP	MP	Α	В	AVERAGE	PROOF	ADDITIONAL	DRAINS	
										LENGTH	TESTS	LENGTH OVER		
												AVERAGE		
				MI	FT			TON	TON	EA	EA	LF	LF	CY
18314.1088011	Transylvania	1	US-64	0.06	22	10.9	10.96	300	300					
то	TAL FOR MAP N	NO. 1		0.06				300	300					
	R PROJ NO. 183	21/ 10220	11	0.06				300	300					
IUTAETO	NT NOJ NO. 103	,14.10000												
18314.1088015	Transylvania	2	US-64	0.05	22	6.58	6.63							
то	TAL FOR MAP N	NO. 2		0.05										
	R PROJ NO. 183	011 10000	15	0.05										
TOTAL FO	N PROJ NO. 183	514.10000	15											
18314.1088038	Transylvania	3	NC-215	0.06	20	1.32	1.38			429	22	858	450	125
то	TAL FOR MAP N	10.3		0.06						429	22	858	450	125
	R PROJ NO. 183	21/ 10200	20	0.06						429	22	858	450	125
	N F NUJ NU. 103	.10000												
	GRAND TOTA			0.17				300	300	429	22	858	450	125
		L												

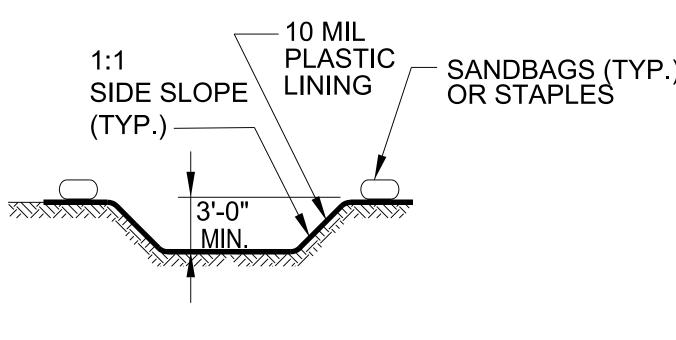
### SUMMARY OF QUANTITIES

											•			1	1			1		
							0000400000-N	004300000-N	0196000000-E	0314000000-E	0222000000-E	0996000000-N	1111000000-E	149100000-E	152300000-E	1575000000-E	2556000000-E	303000000-E	336000000-Е	342000000-E
PROJECT NO COUNTY	MAP NO	ROUTE	LENGTH	WIDTH	BEGIN	END	CONSTRUCTION	GRADING	GEOTEXTILE	SELECT	GEOTEXTILE	PIPE CLEAN	CLASS IV	BASE COURSE,	SURFACE	ASPHALT	SHOULDER	STEEL BEAM	REMOVE	WEATHERING
					MP	MP	SURVEYING		FOR SOIL	MATERIAL,	FOR ROCK	OUT	AGGREGATE	B25.0C	COURSE, S9.5C	<b>BINDER FOR</b>	BERM GUTTER	GUARDRAIL	EXISTING	STEEL BEAM
									STABILIZATION	CLASS VII	EMBANKMENTS		STABILIZATION		,	PLANT MIX			GUARDRAIL	GUARDRAIL
									OTABLEZATION	OLAGO VII	EndAnticitetto		UNDELEATION						OUAIDIAL	OUTIDIAL
				FT			10	10	01/	TON	CY	<b>F</b> 4	TON	TONS	TONS	TONO			15	
			MI				LS	LS	SY	TON	SY	EA	TON	TUNS	TUNS	TONS	LF	LF	LF	LF
18314.1088011 Transylvania	1	US-64	0.06	22	10.9	10.96	0.33	0.33		1,800	200		300					100	100	1
TOTAL FOR MAP	NO. 1		0.06				0.33	0.33		1,800	200		300					100	100	1
			0.06				0.33	0.33		1,800	200		300					100	100	1
TOTAL FOR PROJ NO. 18	314.10880	11																		1
						I							•	•				L		
18314.1088015 Transylvania	2	US-64	0.05	22	6.58	6.63	0.33	0.33	100			1	350	21	9	1	175	200	200	
TOTAL FOR MAP	NO. 2		0.05				0.33	0.33	100			1	350	21	9	1	175	200	200	1
TOTAL FOR PROJ NO. 18	24.4.4.0.0.0	45	0.05				0.33	0.33	100			1	350	21	9	1	175	200	200	
TOTAL FOR PROJ NO. 18	314.10880	15																		
			•	•	•									•						
18314.1088038 Transylvania	3	NC-215	0.06	20	1.32	1.38	0.34	0.34											125	125
TOTAL FOR MAP	NO. 3		0.06				0.34	0.34											125	125
			0.06				0.34	0.34											125	125
TOTAL FOR PROJ NO. 18	314.10880	38																		1
			•	•	•				-				•					•		
GRAND TOTA			0.17				1.00	1.00	100	1,800	200	1	650	21	9	1	175	300	425	125
GRAND TOTA	\L																			1
			•	•	•	• •					•		•	!						

## THERMOPLASTIC AND PAINT QUANTITIES

									4457000000-N	4688000000-E	4688000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	LANES	LENGTH	WIDTH	<b>BEGIN MP</b>	END MP	TEMPORARY	6" X 90 M WHITE	6" X 90 M
									TRAFFIC	THERMO	YELLOW
									CONTROL		THERMO
					MI	FT			LS	LF	LF
18314.1088011	Transylvania	1	US-64	2	0.06	22	10.9	10.96	0.33		
TOTAL FOR MAP NO. 1					0.06				0.33		
TOTAL FOR PROJ NO. 18314.1088011					0.06				0.33		
18314.1088015	Transylvania	2	US-64	2	0.05	22	6.58	6.63	0.33	250	250
TOTAL FOR MAP NO. 2					0.05				0.33	250	250
TOTAL FOR PROJ NO. 18314.1088015					0.05				0.33	250	250
18314.1088038	Transylvania	3	NC-215	2	0.06	20	1.32	1.38	0.34		
TOTAL FOR MAP NO. 3					0.06				0.34		
TOTAL FOR PROJ NO. 18314.1088038					0.06				0.34		
GRAND TOTAL					0.17				1	250	250





PROJECT REFERENCE NO	D. SHEET NO.						
X - X X X X	EC-XX						
RW SHEET NO.							
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER						

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.

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