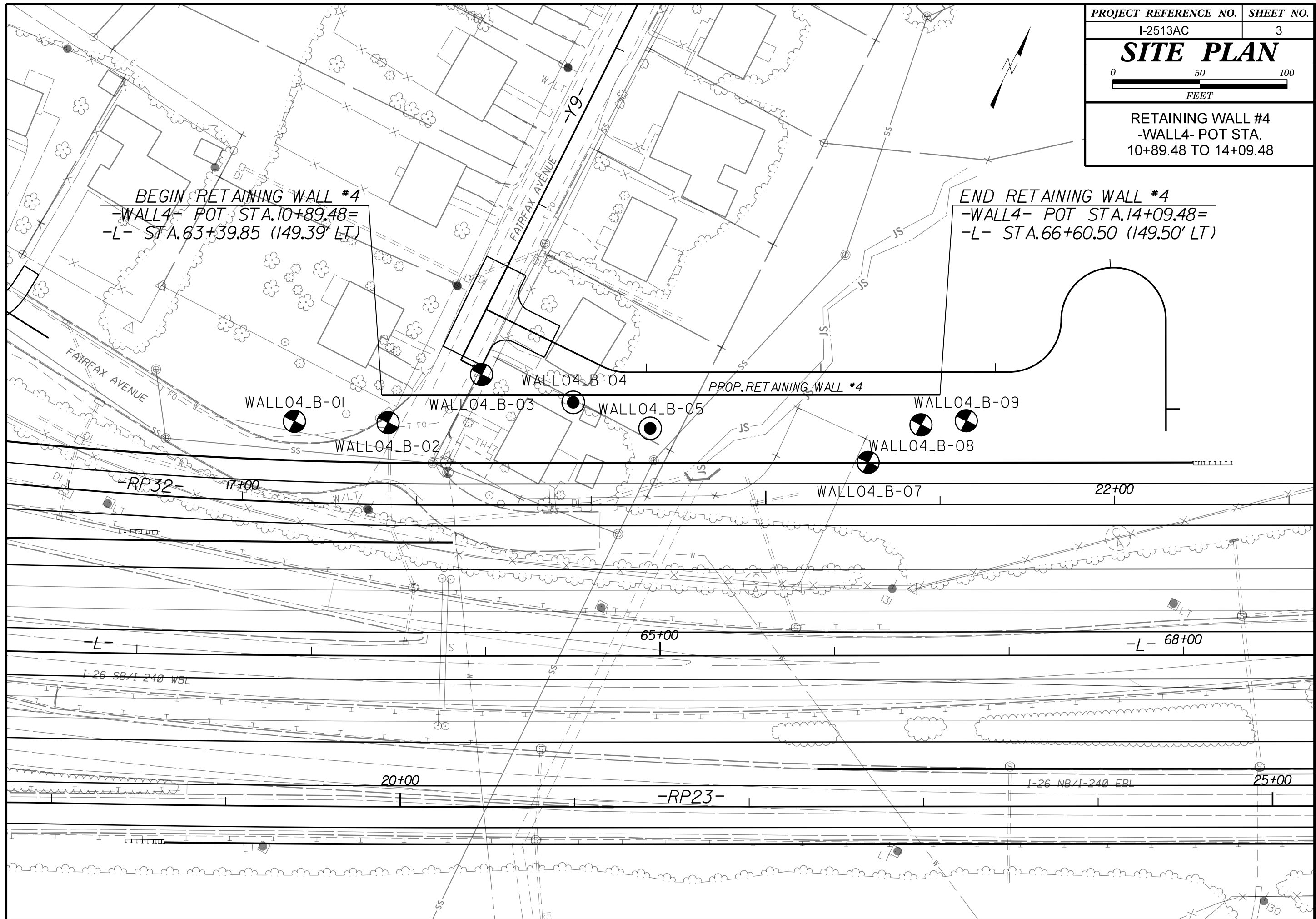


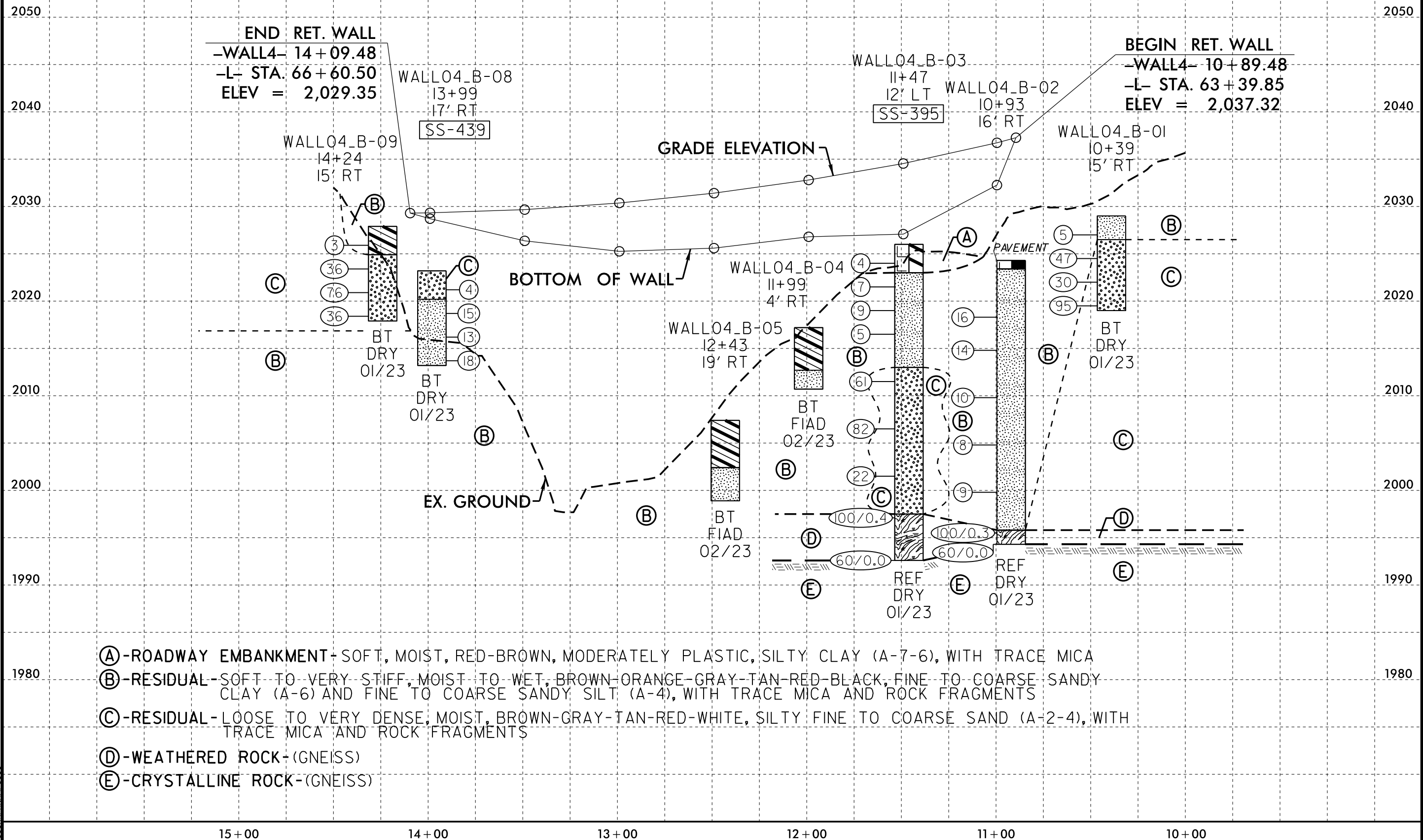
PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	3
SITE PLAN	
0 50 100 FEET	
RETAINING WALL #4 -WALL4- POT STA. 10+89.48 TO 14+09.48	

BEGIN RETAINING WALL #4
-WALL4- POT STA.10+89.48=
-L- STA.63+39.85 (149.39' LT)

END RETAINING WALL #4
-WALL4- POT STA.14+09.48=
-L- STA.66+60.50 (149.50' LT)



-WALL4-



(A)-ROADWAY EMBANKMENT- SOFT, MOIST, RED-BROWN, MODERATELY PLASTIC, SILTY CLAY (A-7-6), WITH TRACE MICA
 (B)-RESIDUAL- SOFT TO VERY STIFF, MOIST TO WET, BROWN-ORANGE-GRAY-TAN-RED-BLACK, FINE TO COARSE SANDY CLAY (A-6) AND FINE TO COARSE SANDY SILT (A-4), WITH TRACE MICA AND ROCK FRAGMENTS
 (C)-RESIDUAL- LOOSE TO VERY DENSE, MOIST, BROWN-GRAY-TAN-RED-WHITE, SILTY FINE TO COARSE SAND (A-2-4), WITH TRACE MICA AND ROCK FRAGMENTS
 (D)-WEATHERED ROCK-(GNEISS)
 (E)-CRYSTALLINE ROCK-(GNEISS)

F-2513AC



PROJECT REFERENCE

SHEET

I-2513AC

5

WBS: 34165.1.13			TIP: I-2513AC			COUNTY: BUNCOMBE			GEOLOGIST: A. Blackmore							
SITE DESCRIPTION: RETAINING WALL NO. 4 FROM -L- STA. 63+39.85 TO -L- STA. 66+60.50											GROUND WTR (ft)					
BORING NO.: WALL04_B-01			STATION: 10+39			OFFSET: 15 ft RT			ALIGNMENT: -WALL4-			0 HR.	Dry			
COLLAR ELEV.: 2,029.0 ft			TOTAL DEPTH: 10.0 ft			NORTHING: 679,887			EASTING: 931,913			24 HR.	Dry			
DRILL RIG/HAMMER EFF./DATE: GEO366 Diedrich D-50 80% 03/18/2022						DRILL METHOD: H.S. Augers			HAMMER TYPE: Automatic							
DRILLER: J. Messick			START DATE: 01/24/23			COMP. DATE: 01/24/23			SURFACE WATER DEPTH: N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
2030																
2025	2,028.0	1.0	2	2	3									2,029.0	LAND SURFACE	0.0
	2,025.5	3.5	7	20	27							M		2,026.5	RESIDUAL Medium Stiff, Brown-Orange, Fine to Coarse Sandy SILT (A-4), with trace mica	2.5
	2,023.0	6.0	24	16	14							M			Dense to Very Dense, Brown-Gray, Silty Fine to Coarse SAND (A-2-4), with trace mica and rock fragments	
2020	2,020.5	8.5	23	40	55							M				
														2,019.0	Boring Terminated at Elevation 2,019.0 ft In Residual Silty SAND (A-2-4)	10.0
															Surficial Organic Soil from 0.0 to 0.3 feet.	

WBS: 34165.1.13			TIP: I-2513AC			COUNTY: BUNCOMBE			GEOLOGIST: A. Blackmore					
SITE DESCRIPTION: RETAINING WALL NO. 4 FROM -L- STA. 63+39.85 TO -L- STA. 66+60.50										GROUND WTR (ft)				
BORING NO.: WALL04_B-02			STATION: 10+93			OFFSET: 16 ft RT			ALIGNMENT: -WALL4-		0 HR. Dry			
COLLAR ELEV.: 2,024.3 ft			TOTAL DEPTH: 30.0 ft			NORTHING: 679,911			EASTING: 931,961		24 HR. FIAD			
DRILL RIG/HAMMER EFF./DATE: GEO366 Diedrich D-50 80% 03/18/2022						DRILL METHOD: H.S. Augers			HAMMER TYPE: Automatic					
DRILLER: J. Messick			START DATE: 01/24/23			COMP. DATE: 01/24/23			SURFACE WATER DEPTH: N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	▼ MOI	L O G	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
2025														
2020	2,019.3	5.0												2,024.3 LAND SURFACE 0.0
														2,023.4 ROADWAY EMBANKMENT 0.9
2015	2,015.8	8.5												Asphalt (0.4'), Stonebase (0.5')
														RESIDUAL
2010	2,010.8	13.5												Medium Stiff to Very Stiff,
														Brown-Orange-Gray-Tan, Fine to Coarse
2005	2,005.8	18.5												Sandy SILT (A-4), with trace mica and rock
														fragments
2000	2,000.8	23.5												
1995	1,995.8	28.5												
	1,994.3	30.0												WEATHERED ROCK 28.5
														Gray-White (GNEISS) 30.0
														Boring Terminated with Standard Penetration
														Test Refusal at Elevation 1,994.3 ft On
														Crystalline Rock (GNEISS)
														Hand Auger Probe from 0.0 to 5.0 feet due to
														close proximity to underground utilities.

NC DOT BORE DOUBLE | 2513AC GEO RWAL WALL04.GPJ ECS GINT DATA-TEMP1.ATE.GDT 6/24/26

F-2513AC



PROJECT REFERENCE

SHEET

I-2513AC

3

WNCDOT BORE DOUBLE I2513AC GEO RWAL_WALL04.GPJ ECS_GINT_DATA-TEMPLATE.GDT 6/24/26

[illegible]

F-2513AC



7

NC DOT BORE DOUBLE | 2513AC GEO RWAL WALL04.GPJ ECS GINT DATA-TEMP1.ATE.GDT 6/24/26

WBS: 34165.1.13			TIP: I-2513AC			COUNTY: BUNCOMBE			GEOLOGIST: A. Blackmore					
SITE DESCRIPTION: RETAINING WALL NO. 4 FROM -L- STA. 63+39.85 TO -L- STA. 66+60.50											GROUND WTR (ft)			
BORING NO.: WALL04_B-07			STATION: 13+68			OFFSET: 39 ft RT			ALIGNMENT: -WALL4-			0 HR.	Dry	
COLLAR ELEV.: 2,023.5 ft			TOTAL DEPTH: 10.0 ft			NORTHING: 680,017			EASTING: 932,216			24 HR.	Dry	
DRILL RIG/HAMMER EFF./DATE: GEO366 Diedrich D-50 80% 03/18/2022						DRILL METHOD: H.S. Augers			HAMMER TYPE: Automatic					
DRILLER: J. Messick			START DATE: 01/27/23			COMP. DATE: 01/27/23			SURFACE WATER DEPTH: N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
2025														
	2,022.5	1.0												2,023.5 LAND SURFACE 0.0
2020	2,020.0	3.5	2	1	2						M			ARTIFICIAL FILL Soft, Brown-Tan, Fine to Coarse Sandy SILT (A-4), with trace rock fragments
	2,017.5	6.0	1	1	1						M			2,018.0 5.5
2015	2,015.0	8.5	7	7	4						M			RESIDUAL Stiff to Very Stiff, Brown-Tan, Fine to Coarse Sandy SILT (A-4)
			9	7	9						M			2,013.5 10.0
														Boring Terminated at Elevation 2,013.5 ft In Residual Sandy SILT (A-4)
														Surficial Organic Soil from 0.0 to 0.3 feet.
														Boring location appears to be along an old abandoned roadbed.

F-2513AC



PROJECT REFERENCE

SHEET

I-2513AC

3

NCDOT BORE DOUBLE I2513AC GEO RWAL WALL04.GPJ ECS GINT DATA-TEMPLATE.GDT 6/24/26

WBS: 34165.1.13			TIP: I-2513AC			COUNTY: BUNCOMBE			GEOLOGIST: A. Blackmore					
SITE DESCRIPTION: RETAINING WALL NO. 4 FROM -L- STA. 63+39.85 TO -L- STA. 66+60.50									GROUND WTR (ft)					
BORING NO.: WALL04_B-09			STATION: 14+25			OFFSET: 15 ft RT			ALIGNMENT: -WALL4-			0 HR. Dry		
COLLAR ELEV.: 2,027.9 ft			TOTAL DEPTH: 10.0 ft			NORTHING: 680,064			EASTING: 932,255			24 HR. Dry		
DRILL RIG/HAMMER EFF./DATE: GEO366 Diedrich D-50 80% 03/18/2022						DRILL METHOD: H.S. Augers			HAMMER TYPE: Automatic					
DRILLER: J. Messick			START DATE: 01/27/23			COMP. DATE: 01/27/23			SURFACE WATER DEPTH: N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
2030														
	2,026.9	1.0												2,027.9 LAND SURFACE 0.0
2025	2,024.4	3.5	1	1	2							M		RESIDUAL Soft, Red-Brown, Fine to Coarse Sandy CLAY (A-6) 3.0
	2,024.4		8	10	26							M		2,024.9 Dense to Very Dense, Red-Brown-White-Tan, Silty Fine to Coarse SAND (A-2-4), with trace mica and rock fragments 3.0
	2,021.9	6.0	16	38	38							M		
2020	2,019.4	8.5	25	20	16							M		2,017.9 10.0
														Boring Terminated at Elevation 2,017.9 ft In Residual Silty SAND (A-2-4)
														Surficial Organic Soil from 0.0 to 0.3 feet.

SOIL TEST RESULTS																		
BORING NO.	SAMPLE NO.	OFFSET	STATION	NORTH	EAST	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING (SIEVES)			% MOISTURE	% ORGANIC
										C. SAND	F. SAND	SILT	CLAY	10	40	200		
WALL04_B-03	SS-395	12' LT	11+47 -WALL4-	679,960	931,996	1.0 - 2.5	A-7-6(10)	52	25	24.9	17.2	16.3	41.6	86.1	71.9	53.1	25.6	-
WALL04_B-08	SS-439	17' RT	13+99 -WALL4-	680,050	932,233	1.0 - 2.5	A-2-4(0)	35	9	32.4	28.8	15.5	23.3	70.8	54.8	31.7	19.5	-

LAB TECHNICIAN: DANIEL REEVE

NCDOT CERTIFICATION NO. 135-03-0816

Dan Reeve