

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: R-2577A

COUNTY: Forsyth

DATE: 8/29/2023

COMPILED BY: Anton Gneushev

CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)15%		ROCK	SUITABLE	UNSUIT.	TOTAL
SUMMARY 1																
-L- LT	0+00.00	30+00.00	235				235	15,200		15,200	17,480	17,245				
-Y1A-	10+00.00	16+61.40	6,794		1,460	3,170	3,624	2,126		2,126	2,445			1,179	4,630	5,809
-Y1C-	10+00.00	11+44.28	120				120	13		13	15			105		105
-Y1E-	12+17.38	16+27.29	1,445				1,445	326		326	375			1,070		1,070
-Y2-	12+00.00	14+11.53	68				68	439		439	505	437				
-D7-	10+08.96	11+25.00	4				4	586		586	674	670				
SUBTOTAL			8,666		1,460	3,170	5,496	18,690		18,690	21,494	18,352		2,354	4,630	6,984
SUMMARY 2																
-L- RT	0+00.00	30+00.00	1,209				1,209	21,985		21,985	25,283	24,074				
-Y1B-	10+40.64	18+00.00	1,336				1,336	4,978		4,978	5,725	4,389				
-Y1D-	12+00.00	13+96.53	275				275	10		10	12			264		264
SUBTOTAL			2,820				2,820	26,973		26,973	31,019	28,462		264		264
SUMMARY 3																
-L- LT	30+00.00	60+00.00	1,470		315		1,470	17,443		17,443	20,059	18,589			315	315
SUBTOTAL			1,470		315		1,470	17,443		17,443	20,059	18,589			315	315
SUMMARY 4																
-L- RT	30+00.00	60+00.00	3,942		315	330	3,612	3,861		3,861	4,440	828			645	645
-Y3-	10+35.51	12+97.48	832				832	28		28	32			800		800
-Y4-	10+35.50	14+00.00	93				93	1,272		1,272	1,463	1,370				
SUBTOTAL			4,867		315	330	4,537	5,161		5,161	5,935	2,198		800	645	1,445
SUMMARY 5																
-L- LT	60+00.00	90+00.00	8,421			1,565	6,856	6,885		6,885	7,918	1,062			1,565	1,565
-Y5-	10+15.82	23+68.65	36,393	740			35,653	131	131		131		609	35,653		36,262
-Y5A-	10+00.00	16+32.00	9,933			2,310	7,623	120		120	138			7,485	2,310	9,795
SUBTOTAL			54,747	740		3,875	50,132	7,136	131	7,005	8,187	1,062	609	43,138	3,875	47,622
SUMMARY 6																
-L- RT	60+00.00	90+00.00	896			315	581	5,684		5,684	6,537	5,956			315	315
-Y6-	10+35.50	12+26.34	331				331	60		60	69			262		262
-Y7-	10+35.55	12+00.00	58				58	719		719	827	769				
-Y8-	10+35.50	12+50.00	20				20	473		473	544	524				
SUBTOTAL			1,305			315	990	6,936		6,936	7,976	7,248		262	315	577
SHEET TOTALS																
			73,875	740	2,090	7,690	65,445	82,339	131	82,208	94,670	75,912	609	46,818	9,780	57,207

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

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DATE: 8/29/2023

COMPILED BY: Anton Gneushev

CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE					
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)15%		ROCK	SUITABLE	UNSUIT.	TOTAL		
SUMMARY 7																		
-L- LT	90+00.00	120+00.00	14,247		410			14,247	24,421		24,421	28,084	13,837				410	410
-Y9-	10+35.75	15+64.40	75		200			75	5,403		5,403	6,213	6,138				200	200
-Y11-	12+00.00	14+91.91	269					269	314		314	361	92					
-D1-	10+14.35	11+38.50	6					6	9		9	10	4					
-D2-	10+40.35	12+23.91	15					15	188		188	216	201					
SUBTOTAL			14,612		610			14,612	30,335		30,335	34,885	20,273				610	610
SUMMARY 8																		
-L- RT	90+00.00	120+00.00	2,002		540	440		1,562	13,165		13,165	15,140	13,578				980	980
-Y10-	10+39.51	12+77.76	125					125	282		282	324	199					
-Y25-	10+35.50	13+00.00	1,524					1,524	24		24	28			1,496			1,496
SUBTOTAL			3,651		540	440		3,211	13,471		13,471	15,492	13,777		1,496		980	2,476
SUMMARY 9																		
-L- LT	120+00.00	139+47.40	11,573					11,573	7,233		7,233	8,318			3,255			3,255
-Y12-	21+50.00	24+23.18	3,072					3,072	286		286	329			2,743			2,743
-Y14-	10+16.01	13+50.00	1,795					1,795	49		49	56			1,739			1,739
SUBTOTAL			16,440					16,440	7,568		7,568	8,703			7,737			7,737
SUMMARY 10																		
-L- RT	120+00.00	139+13.91	78					78	10,146		10,146	11,668	11,590					
SUBTOTAL			78					78	10,146		10,146	11,668	11,590					
SUMMARY 11																		
-L- LT	141+65.09	150+25.00	1,619					1,619	4,663		4,663	5,362	3,743					
-D6-	10+41.50	11+55.00	4					4	371		371	427	423					
SUBTOTAL			1,623					1,623	5,034		5,034	5,789	4,166					
SUMMARY 12																		
-L- RT	141+31.60	150+25.00	2,665					2,665	2,256		2,256	2,594			71			71
-Y13-	10+39.18	13+00.00	138					138	1,053		1,053	1,211	1,073					
SUBTOTAL			2,803					2,803	3,309		3,309	3,805	1,073		71			71
SUMMARY 13																		
-L- LT	172+57.48	202+25.00	10,811		2,510	2,490		8,321	3,972		3,972	4,568			3,753	5,000		8,753
-Y15-	11+25.00	15+36.12	2,135					2,135	46		46	53			2,082			2,082
SUBTOTAL			12,946		2,510	2,490		10,456	4,018		4,018	4,621			5,835	5,000		10,835
SHEET TOTALS			52,153		3,660	2,930		49,223	73,881		73,881	84,963	50,879		15,139	6,590		21,729

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

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CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE				
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)15%		ROCK	SUITABLE	UNSUIT.	TOTAL	
SUMMARY 14																	
-L- RT	172+57.48	202+25.00	1,731			960	771	5,209		5,209	5,990	5,219				960	960
SUBTOTAL			1,731			960	771	5,209		5,209	5,990	5,219				960	960
SUMMARY 15																	
-L2- LT	202+25.00	233+00.00	6,275		1,090	2,310	3,965	8,081		8,081	9,293	5,328				3,400	3,400
-Y17-	12+23.63	14+50.00						808		808	929	929					
-Y17A-	10+50.00	11+64.01	1				1	64		64	74	73					
SUBTOTAL			6,276		1,090	2,310	3,966	8,953		8,953	10,296	6,330				3,400	3,400
SUMMARY 16																	
-L2- RT	202+25.00	233+00.00	5,221		570	2,310	2,911	12,688		12,688	14,591	11,680				2,880	2,880
-Y16-	12+75.00	15+27.14	10				10	354		354	407	397					
-D3-	10+39.16	11+50.00	56				56	196		196	225	169					
SUBTOTAL			5,287		570	2,310	2,977	13,238		13,238	15,224	12,247				2,880	2,880
SUMMARY 17																	
-L2- LT	233+00.00	242+09.26	272				272	4,717		4,717	5,425	5,153					
SUBTOTAL			272				272	4,717		4,717	5,425	5,153					
SUMMARY 18																	
-L2- RT	233+00.00	242+09.26	853				853	489		489	562			291		291	
-Y18-	10+39.00	11+15.00	57				57	7		7	8			49		49	
SUBTOTAL			910				910	496		496	570			340		340	
SUMMARY 19																	
-L- LT	242+08.28	272+00.00	491		280		491	26,791		26,791	30,810	30,319				280	280
-Y20-	96+40.00	98+28.73	2				2	896		896	1,030	1,028					
SUBTOTAL			493		280		493	27,687		27,687	31,840	31,347				280	280
SUMMARY 20																	
-L- RT	242+08.28	272+00.00	263				263	4,758		4,758	5,472	5,209					
-Y19-	10+39.00	11+15.00	46				46	9		9	10			36		36	
-Y19A-	10+51.00	11+36.00	5				5	70		70	81	76					
-Y20-	98+68.84	100+30.60	116				116	63		63	72			44		44	
-Y21-	10+39.00	11+35.00	23				23	8		8	9			14		14	
-Y22-	10+39.00	11+20.00	22				22	21		21	24	2					
SUBTOTAL			475				475	4,929		4,929	5,668	5,286			93		93
SHEET TOTALS			15,444		1,940	5,580	9,864	65,229		65,229	75,013	65,582			433	7,520	7,953

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CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE						
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)15%		ROCK	SUITABLE	UNSUIT.	TOTAL			
SUMMARY 21																			
-L- LT	272+00.00	305+00.00			670													670	670
-Y24-	13+08.65	23+93.99	2,052		140		2,052	3,077		3,077	3,539	1,487						140	140
-D4-	10+41.15	12+10.39	23				23	252		252	290	267							
SUBTOTAL			2,075		810		2,075	3,329		3,329	3,828	1,753						810	810
SUMMARY 22																			
-L- RT	272+00.00	305+00.00	365				365	5,944		5,944	6,836	6,471							
-Y23-	10+41.50	17+03.30	8,617				8,617	70		70	81				8,537				8,537
-Y23A-	10+00.00	11+79.90	540				540	79		79	91				449				449
-D5-	10+41.50	14+05.05	12				12	90		90	104	92							
SUBTOTAL			9,534				9,534	6,183		6,183	7,110	6,562			8,986				8,986
SUMMARY 23																			
-X-OVER1-	305+00.00	306+41.51	38				38	49		49	56	18							
SUBTOTAL			38				38	49		49	56	18							
SHEET TOTALS			11,647		810		11,647	9,561		9,561	10,995	8,334			8,986			810	9,796

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CUMULATIVE TOTALS	EXCAVATION					EMBANKMENT				BORROW	WASTE			
	TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)15%		ROCK	SUITABLE	UNSUIT.	TOTAL
SHEET 1 SUMMARY	73,875	740	2,090	7,690	65,445	82,339	131	82,208	94,670	75,912	609	46,818	9,780	57,207
SHEET 2 SUMMARY	52,153		3,660	2,930	49,223	73,881		73,881	84,963	50,879		15,139	6,590	21,729
SHEET 3 SUMMARY	15,444		1,940	5,580	9,864	65,229		65,229	75,013	65,582		433	7,520	7,953
SHEET 4 SUMMARY	11,647		810		11,647	9,561		9,561	10,995	8,334		8,986	810	9,796
SHEET TOTALS	153,119	740	8,500	16,200	136,179	231,010	131	230,879	265,642	200,707	609	71,375	24,700	96,684
MATERIAL FOR SHOULDER CONSTRUCTION						10,460		10,460	10,460	10,460				
ADDITIONAL UNDERCUT			2,000			2,000		2,000	2,300	2,300			2,000	2,000
GRADE POINT UNDERCUT			2,400			2,400		2,400	2,760	2,760			2,400	2,400
SELECT MATERIAL IN LIEU OF BORROW								-3,400	-3,910	-3,910				
EARTH WASTE IN LIEU OF BORROW										-71,375		-71,375		-71,375
PROJECT TOTAL	153,119	740	12,900	16,200	136,179	245,870	131	242,339	277,252	140,942	609		29,100	29,709
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT										7,047				
GRAND TOTAL	153,119									147,989				
SAY	153,120									147,990				
DRAINAGE DITCH EXCAVATION	18,330													

*UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL (15,400 CY) SEE LOCATIONS BELOW

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| -L- 58+75 - 60+75 (240.0 CY) | -L- 184+75 - 186+75 (860.0 CY) | -Y5- 10+16 - 18+25 (4950.0 CY) |
| -L- 61+25 - 61+75 (120.0 CY) | -L2- 222+75 - 225+25 (510.0 CY) | -Y24- 13+08 - 17+25 (550.0 CY) |
| -L- 62+25 - 62+75 (100.0 CY) | -L2- 234+75 - 237+25 (420.0 CY) | -Y24- 18+75 - 23+80 (1720.0 CY) |
| -L- 63+75 - 70+75 (670.0 CY) | -L- 282+75 - 290+25 (2150.0 CY) | -Y25- 10+40 - 12+75 (1510.0 CY) |
| -L- 89+60 - 94+75 (5000.0 CY) | -Y1B- 12+75 - 16+75 (810.0 CY) | |
| -L- 123+25 - 129+50 (5890.0 CY) | -Y1D- 12+25 - 13+97 (300.0 CY) | |

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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUMMARY OF EARTHWORK

CHAIN	BEGINNING STATION	ENDING STATION	UNCL. EXCA. C.Y.	UNDERCUT C.Y.	EMBANK. +% C.Y.	BORROW C.Y.	WASTE C.Y.
SUMMARY 1							
-L- LT	0+00.00	30+00.00	235		17,480	17,245	
-Y1A-	10+00.00	16+61.40	6,794	1,460	2,445		5,764
-Y1C-	10+00.00	11+44.28	120		15		105
-Y1E-	12+17.38	16+27.29	1,445		375		1,070
-Y2-	12+00.00	14+11.53	68		505	437	
-D7-	10+08.96	11+25.00	4		674	670	
SUBTOTAL			8,666	1,460	21,494	18,352	6,939
SUMMARY 2							
-L- RT	0+00.00	30+00.00	1,209		25,283	24,074	
-Y1B-	10+40.64	18+00.00	1,336		5,725	4,389	
-Y1D-	12+00.00	13+96.53	275		12		264
SUBTOTAL			2,820		31,019	28,462	264
SUMMARY 3							
-L- LT	30+00.00	60+00.00	1,470	315	20,059	18,589	291
SUBTOTAL			1,470	315	20,059	18,589	291
SUMMARY 4							
-L- RT	30+00.00	60+00.00	3,942	315	4,440	828	536
-Y3-	10+35.51	12+97.48	832		32		800
-Y4-	10+35.50	14+00.00	93		1,463	1,370	
SUBTOTAL			4,867	315	5,935	2,198	1,336
SUMMARY 5							
-L- LT	60+00.00	90+00.00	8,421		7,918	1,062	1,565
-Y5-	10+15.82	23+68.65	35,653		151		35,502
-Y5A-	10+00.00	16+32.00	9,933		138		9,795
SUBTOTAL			54,007		8,206	1,062	46,862
SUMMARY 6							
-L- RT	60+00.00	90+00.00	896		6,537	5,956	315
-Y6-	10+35.50	12+26.34	331		69		262
-Y7-	10+35.55	12+00.00	58		827	769	
-Y8-	10+35.50	12+50.00	20		544	524	
SUBTOTAL			1,305		7,976	7,248	577
SUMMARY 7							
-L- LT	90+00.00	120+00.00	14,247	410	28,084	13,837	351
-Y9-	10+35.75	15+64.40	75	200	6,213	6,138	152
-Y11-	12+00.00	14+91.91	269		361	92	
-D1-	10+14.35	11+38.50	6		10	4	
-D2-	10+40.35	12+23.91	15		216	201	
SUBTOTAL			14,612	610	34,885	20,273	503
SUMMARY 8							
-L- RT	90+00.00	120+00.00	2,002	540	15,140	13,578	980
-Y10-	10+39.51	12+77.76	125		324	199	
-Y25-	10+35.50	13+00.00	1,524		28		1,496
SUBTOTAL			3,651	540	15,492	13,777	2,476
SUMMARY 9							
-L- LT	120+00.00	139+47.40	11,573		8,318		3,255
-Y12-	21+50.00	24+23.18	3,072		329		2,743
-Y14-	10+16.01	13+50.00	1,795		56		1,739
SUBTOTAL			16,440	3,240	8,703		7,737

CHAIN	BEGINNING STATION	ENDING STATION	UNCL. EXCA. C.Y.	UNDERCUT C.Y.	EMBANK. +% C.Y.	BORROW C.Y.	WASTE C.Y.
SUMMARY 10							
-L- RT	120+00.00	139+13.91	78		11,668	11,590	
SUBTOTAL			78		11,668	11,590	
SUMMARY 11							
-L- LT	141+65.09	150+25.00	1,619		5,362	3,743	
-D6-	10+41.50	11+55.00	4		427	423	
SUBTOTAL			1,623		5,789	4,166	
SUMMARY 12							
-L- RT	141+31.60	150+25.00	2,665		2,594		71
-Y13-	10+39.18	13+00.00	138		1,211	1,073	
SUBTOTAL			2,803		3,805	1,073	71
SUMMARY 13							
-L- LT	172+57.48	202+25.00	10,811	2,510	4,568		8,616
-Y15-	11+25.00	15+36.12	2,135		53		2,082
SUBTOTAL			12,946	2,510	4,621		10,698
SUMMARY 14							
-L- RT	172+57.48	202+25.00	1,731		5,990	5,219	960
SUBTOTAL			1,731		5,990	5,219	960
SUMMARY 15							
-L2- LT	202+25.00	233+00.00	6,275	1,090	9,293	5,328	3,611
-Y17-	12+23.63	14+50.00			929	929	
-Y17A-	10+50.00	11+64.01	1		74	73	
SUBTOTAL			6,276	1,090	10,296	6,330	3,611
SUMMARY 16							
-L2- RT	202+25.00	233+00.00	5,221	570	14,591	11,680	2,628
-Y16-	12+75.00	15+27.14	10		407	397	
-D3-	10+39.16	11+50.00	56		225	169	
SUBTOTAL			5,287	570	15,224	12,247	2,628
SUMMARY 17							
-L2- LT	233+00.00	242+09.26	272		5,425	5,153	
SUBTOTAL			272		5,425	5,153	
SUMMARY 18							
-L2- RT	233+00.00	242+09.26	853		562		291
-Y18-	10+39.00	11+15.00	57		8		49
SUBTOTAL			910		570		340
SUMMARY 19							
-L- LT	242+08.28	272+00.00	491	280	30,810	30,319	261
-Y20-	96+40.00	98+28.73	2		1,030	1,028	
SUBTOTAL			493	280	31,840	31,347	261
SUMMARY 20							
-L- RT	242+08.28	272+00.00	263		5,472	5,209	36
-Y19-	10+39.00	11+15.00	46		10		
-Y19A-	10+51.00	11+36.00	5		81	76	
-Y20-	98+68.84	100+30.60	116		72		44
-Y21-	10+39.00	11+35.00	23		9		14
-Y22-	10+39.00	11+20.00	22		24	2	
SUBTOTAL			475	4,450	5,668	5,286	93

RD.

