

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: B-5833

COUNTY: Yadkin

DATE: 8/3/2023

COMPILED BY: VML

SHEET 1 OF 1 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +15%		ROCK	SUITABLE	UNSUIT.	TOTAL
PHASE I															
-L- 20+00.00	-L-26+51.48(Begin Bridge)	1,026				1,026	8,498		8,498	9,773	8,747				
-L-29+01.48 (End Bridge)	-L-35+00.00	1,226				1,226	9,107		9,107	10,473	9,247				
-LDET- Construction		142				142	728		728	837	695				
-DRW1-10+50.00	-DRW1-15+26.56	8				8	4,987		4,987	5,735	5,727				
-RAMPD-12+00.00	-RAMPD-16+00.00	12				12	20,083		20,083	23,095	23,083				
-LOOPD-12+50.00	-LOOPD-14+00.00	2,188				2,188	2,740		2,740	3,151	963				
-LDET- Removal		728				728	142		142	163			565		565
		5,330				5,330	46,285		46,285	53,228	48,462			564	564
PHASE II															
-L- 10+50.00	-L- 20+00.00	834				834	2,588		2,588	2,976	2,142				
-L- 35+00.00	-L- 41+50.00	331				331	540		540	621	290				
-Y1-11+00.00	-Y1-11+94.74	90				90	4		4	5			85		85
-Y2-10+12.00	-Y2-11+60.00	1				1	315		315	362	361				
-Y4-12+30.00	-Y4-13+61.91	9				9	48		48	55	46				
-RAMPD-10+15.19	-RAMPD-12+00.00						4,646		4,646	5,343	5,343				
-RAMPD-16+00.00	-RAMPD-18+00.00	289				289	738		738	849	560				
-LOOPD-10+15.27	-LOOPD-12+50.00	922				922	1,180		1,180	1,357	435				
-LOOPD-14+00.00	-LOOPD-17+50.00	1,666				1,666	821		821	944			722		722
	SUBTOTAL	4,142				4,142	10,880		10,880	12,512	9,177			807	807
PHASE III															
-Y3-11+93.37 RT	-Y3-16+75.99 RT	412				412	35		35	40			372		372
-Y3-13+86.88 LT	-Y3-18+95.12 LT	362				362	4		4	5			357		357
-LOOPA-10+14.76	-LOOPA-14+50.00	155				155	1,056		1,056	1,214	1,059				
-RAMPA-10+14.77	-RAMPA-15+50.00	1,210				1,210	1,149		1,149	1,321	111				
	SUBTOTAL	2,139				2,139	2,244		2,244	2,581	1,171			729	729
SUBTOTAL															
	TOTAL	11,611				11,611	59,409		59,409	68,320	58,810			2,100	2,100
MATERIAL FOR SHOULDER CONSTRUCTION							1,237		1,237	1,423	1,423				
LOSS DUE TO CLEARING & GRUBBING		-400				-400					400				
ADDITIONAL UNDERCUT															
ROCK WASTE TO REPLACE BORROW															
ADJUST FOR ROCK WASTE															
WASTE IN LIEU OF BORROW											-2,100		-2,100		-2,100
PROJECT TOTAL		11,211				11,211	60,646		60,646	69,743	58,532				
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											2,927				
GRAND TOTAL		11,211				11,211	60,646		60,646	69,743	61,458				
SAY		11,780									64,540				

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.

Per "Geotechnical Report - Design and Construction Recommendations":

Estimated Undercut = 1000 CY (Contingency, As Directed by the Engineer)

Estimated Select Granular Material = 1350 CY (Contingency, As Directed by the Engineer)

Estimated Geotextile for Soil Stabilization = 1350 SY (Contingency, As Directed by the Engineer)