

Earthwork Balance Sheet

PROJECT: R-5799

COUNTY: Transylvania

Volumes in Cubic Yards
DATE: 5/2/2023

COMPILED BY: RS&H

SHEET __ OF __ 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															
-Y2- 12+00.00 RT	-Y2- 27+10.00 RT	53				53	3,516		3,516	4,043	3,990				
-Y2- 12+00.00 LT	-Y2- 27+10.00 LT	303				303	4,287		4,287	4,930	4,627				
	SUBTOTAL	356				356	7,803		7,803	8,973	8,617				
PHASE II STEP 1															
-L- 9+32.51 MED & LT	-L- 14+30.66 MED & LT	31				31	318		318	366	335				
-Y1- 10+37.18 RT	-Y1- 16+80.00 RT	130				130	317		317	365	235				
	SUBTOTAL	161				161	635		635	731	570				
PHASE II STEP 2															
-L- 14+28.63 LT	-L- 14+88.93 LT	2				2	4		4	5	3				
-Y1- 10+37.18 LT	-Y1- 16+80.00 LT	9				9	1,141		1,141	1,312	1,303				
	SUBTOTAL	11				11	1,145		1,145	1,317	1,306				
PHASE III															
-L- 7+00.00 MED	-L- 12+87.58 MED	74				74	168		168	193	119				
-L- 14+50.00 MED	-L- 18+05.93 MED	47				47	256		256	294	247				
-L- 19+24.22 MED	-L- 22+65.00 MED	51				51	494		494	568	517				
-L- 23+82.00 MED	-L- 26+04.28 MED						122		122	140	140				
-Y3- 10+85.01 LT	-Y3- 11+85.34 LT	31				31	54		54	62	31				
	SUBTOTAL	203				203	1,094		1,094	1,257	1,054				
PHASE IV															
-L- 7+00.00 RT	-L- 18+21.73 RT	75				75	706		706	812	737				
-L- 19+56.61 RT	-L- 21+00.00 RT	8				8	144		144	166	158				
-L- 23+86.93 RT	-L- 27+91.03 RT	2				2	1,151		1,151	1,324	1,322				
-L- 29+31.05 RT	-L- 32+66.00 RT	55				55	707		707	813	758				
-Y2- 10+85.01 LT	-Y2- 12+00.00 LT						142		142	163	163				
-Y2- 10+85.01 RT	-Y2- 11+73.42 RT	1				1	301		301	346	345				
-Y4- 10+84.87	-Y4- 12+85.00	10				10	1,556		1,556	1,789	1,779				
-SL1- 10+16.80	-SL1- 11+94.72	2				2	186		186	214	212				
	SUBTOTAL	153				153	4,893		4,893	5,627	5,474				
PHASE V															
-L- 7+00.00 LT	-L- 17+76.80 LT	257				257	1,041		1,041	1,197	940				
-L- 19+09.66 LT	-L- 22+46.93 LT	33				33	232		232	267	234				
-L- 23+86.93 LT	-L- 27+91.03 LT	1,110				1,110	34		34	39		1,071		1,071	
-L- 29+31.05 LT	-L- 32+66.00 LT	121				121	6		6	7		114		114	
-Y3- 10+85.01 RT	-Y3- 17+20.00 RT	273				273	368		368	423	150				
-Y3- 10+85.01 LT	-Y3- 17+20.00 LT	197				197	420		420	483	286				
-Y5- 10+84.78	-Y5- 12+75.00	1,770				1,770	8		8	9		1,761		1,761	
-SL2- 10+29.91	-SL2- 12+07.60	94				94	304		304	350	256				
	SUBTOTAL	3,855				3,855	2,413		2,413	2,775	1,866		2,946		2,946
PHASE VI STEP 3															
-L- 24+58.89 MED	-L- 27+43.39 MED						171		171	197	197				
-RA1- 10+00.00 MED	-RA1- 13+45.58 MED						1,466		1,466	1,686	1,686				
-RA2- 10+00.00 MED	-RA2- 13+45.57 MED						1,468		1,468	1,688	1,688				
	SUBTOTAL						3,105		3,105	3,571	3,571				
TOTAL		4,739				4,739	21,088		21,088	24,251	22,458		2,946		2,946
MATERIAL FOR SHOULDER CONSTRUCTION LOSS DUE TO CLEARING & GRUBBING		-150				-150					150				
ADDITIONAL UNDERCUT															
ROCK WASTE TO REPLACE BORROW															
ADJUST FOR ROCK WASTE															
WASTE IN LIEU OF BORROW											-2,946		-2,946		-2,946
PROJECT TOTAL		4,589				4,589	21,088		21,088	24,251	19,662				
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											983				
GRAND TOTAL						4,589	21,088		21,088	24,251	20,645				
SAY						5,280					23,750				

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.

EST. SHALLOW UNDERCUT = 500 CY
 CLASS IV SUBGRADE STABILIZATION = 1,000 TONS
 PER GEOTECH RECOMMENDATION, ESTIMATED 1,450 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.