

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5956

COUNTY: Cabarrus

DATE: 11/4/2025

COMPILED BY: F.MASTERSON

SHEET _ OF _ SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNSUIT.	TOTAL
PHASE 1															
-L- 14+00.00 (LT)	18+00.00	486		45		486	170		170	204			282	45	327
-L- 18+00.00 (LT/RT)	21+75.00	82				82	3,318		3,318	3,982	3,900				
-Y1- 35+50.00 (RT)	50+00.00	313				313	808		808	970	657				
	SUBTOTAL	881		45		881	4,296		4,296	5,156	4,557		282	45	327
PHASE 2															
-L- 8+40.00 (RT)	12+50.00	127				127	24		24	29			98		98
-L- 14+20.00 (RT)	18+00.00	107				107	451		451	541	434				
-Y1- 39+99.00 (LT)	47+00.00	103				103	52		52	62			41		41
-DW1- 10+21.50 (LT/RT)	10+80.00	11				11	11		11	13	2				
-DW2- 10+21.50 (LT/RT)	11+00.00	1				1	254		254	305	304				
	SUBTOTAL	349				349	792		792	950	740		139		139
PHASE 3															
-Y1- 4+97.64 (RT/MED)	9+50.00	268		400		268	924		924	1,109	841			400	400
-Y1-17+50.00 (RT/MED)	41+00.00	1,506				1,506	701		701	841			665		665
-Y1- 42+00.00 (RT/MED)	53+65.00	837				837	548		548	658			179		179
	SUBTOTAL	2,611		400		2,611	2,173		2,173	2,608	841		844	400	1,244
PHASE 4															
-L- 21+75.00 (LT/RT)	50+00.00	30,165		6,870		30,165	17,828		17,828	21,394			8,771	6,870	15,641
-L- 50+00.00 (RT)	52+98.19	1,026				1,026	10		10	12			1,014		1,014
-Y2- 10+21.50 (LT/RT)	13+50.00	1,107				1,107	929		929	1,115	8				
-Y2- 13+50.00 (LT)	16+22.00	35				35	167		167	200	165				
-Y3- 10+16.00 (LT/RT)	10+77.00	15				15	195		195	234	219				
-Y3- 10+77.00 (RT)	12+21.88	27				27	110		110	132	105				
	SUBTOTAL	32,375		6,870		32,375	19,239		19,239	23,087	497		9,785	6,870	16,655
PHASE 5															
-L- 50+00.00 (LT)	53+85.00	378				378	90		90	108			270		270
-L-52+98.19 (RT)	53+85.00	35				35	9		9	11			24		24
-Y2- 13+50.00 (LT/RT)	16+22.00	23				23	178		178	214	191				
-Y3- 10+77.00 (LT)	12+21.88	6				6	92		92	110	104				
	SUBTOTAL	442				442	369		369	443	295		294		294
TOTAL		36,658		7,315		36,658	26,869		26,869	32,244	6,930		11,344	7,315	18,659
MATERIAL FOR SHOULDER CONSTRUCTION							183		183	220	220				
LOSS DUE TO CLEARING & GRUBBING		-2,250				-2,250							-2,250		-2,250
ADDITIONAL UNDERCUT				1,950			1,950		1,950	2,340	2,340			1,950	1,950
UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE		3,720			3,720		3,720		3,720	4,464	4,464			3,720	3,720
WASTE IN LIEU OF BORROW											-9,094		-9,094		-9,094
PROJECT TOTAL		38,128		9,265	3,720	34,408	32,722		32,722	39,268	4,860			12,985	12,985
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											243				
GRAND TOTAL		38,128		9,265	3,720	34,408	32,722		32,722	39,268	5,103			12,985	12,985
SAY		38,200		9,265							5,200				

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. CONTINGENCY ITEMS PER NCDOT GEOTECHNICAL REPORT, DATED 8/20/2019, REVISED RECOMMENDATIONS FOR PAVEMENT AND SUBGRADE DATED 5/13/25, -Y1- SUPPLEMENTAL GEOTECHNICAL ROADWAY DESIGN AND CONSTRUCTION RECOMENDATION DATED 5/16/25

EST. DDE = 75 CUBIC YARDS
EST. SHALLOW UNDERCUT = 100 CUBIC YARDS
EST. SHALLOW UNDERCUT BY STATIONS = 130 CUBIC YARDS
TOTAL SHALLOW UNDERCUT = 230 CUBIC YARDS
EST. UNCLASSIFIED EXCAVATION - ACCEPTABLE MATERIAL*, = 1960 CUBIC YARDS (-L- STA 21+25.00-23+25.00, -L- STA 42+75.00-48+75.00, -L- STA 49+25.00-53+85.00)

*PER GEOTECH RECOMMENDATION, UNCLASSIFIED EXCAVATION-ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL - 1,960 CUBIC YARDS, STA -L- 21+25.00-23+25.00, -L- STA 42+75.00-48+75.00, -L- STA 49+25.00-53