

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: R-2561CA

COUNTY: Columbus

DATE: 3/31/2022

COMPILED BY: DWG

SHEET 1 OF 1 SHEETS

LINE	STATION	STATION	EXCAVATION				EMBANKMENT				BORROW	WASTE				
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH		EMBANK. +25%	ROCK	SUITABLE	UNSUIT.	TOTAL
PHASE I (DETOUR)																
SUMMARY NO. 1																
-YDET-	19+69.08	33+75.76	3,493				3,493	1,081	1,081	1,351			2,142		2,142	
-YDET-	34+95.55	53+26.82	1,436		979	450	986	6,535	6,535	8,169	7,183			1,429	1,429	
TOTAL SUMMARY NO. 1			4,929		979	450	4,479	7,616	7,616	9,520	7,183		2,142	1,429	3,571	
PHASE II																
SUMMARY NO. 2 (LT.)																
-L1-	11+00.00	28+31.59	1,593		832	350	1,243	5,679	5,679	7,099	5,856			1,182	1,182	
-Y2-	9+50.00	14+99.03	658		230	100	558	752	752	940	382			330	330	
-Y2A-	10+08.25	19+25.00	191				191	1,758	1,758	2,198	2,007					
TOTAL SUMMARY NO. 2			2,442		1,062	450	1,992	8,189	8,189	10,237	8,245				1,512	1,512
SUMMARY NO. 3 (LT.)																
-L-	28+31.59	59+00.00	4,026		4,541	1,700	2,326	14,354	14,354	17,943	15,617			6,241	6,241	
-RPB-	14+25.98	25+60.41	4,081		1,140	2,750	1,331	21,550	21,550	26,938	25,607			3,890	3,890	
-LPB-	12+76.23	16+18.61	520			200	320	1,105	1,105	1,381	1,061			200	200	
-Y-	34+95.47 (EB)	40+50.00						53,972	53,972	67,465	67,465					
-Y-	40+50.00	49+50.00	981				981	12,553	12,553	15,691	14,710					
TOTAL SUMMARY NO. 3			9,608		5,681	4,650	4,958	103,534	103,534	129,418	124,460				10,331	10,331
SUMMARY NO. 4 (LT.)																
-L-	59+00.00	68+95.62 (BB)	1,413		737	415	998	6,326	6,326	7,908	6,910			1,152	1,152	
TOTAL SUMMARY NO. 4			1,413		737	415	998	6,326	6,326	7,908	6,910				1,152	1,152
SUMMARY NO. 5 (LT.)																
-L-	71+65.62 (EB)	84+16.32	2,762			25	2,737	14,096	14,096	17,620	14,883			25	25	
-L3-	84+16.32	100+50.07	1,774		550	970	804	5,283	5,283	6,604	5,800			1,520	1,520	
-Y4-	12+75.00	14+24.21	184				184	58	58	73			112		112	
-DR1-	10+75.00	11+73.42	7		107		7	23	23	29	22			107	107	
-DR2-	10+75.00	11+78.32	7		104		7	23	23	29	22			104	104	
TOTAL SUMMARY NO. 5			4,734		761	995	3,739	19,483	19,483	24,355	20,727			112	1,756	1,868
PHASE III																
SUMMARY NO. 6 (RT.)																
-L1-	11+00.00	28+31.59	2,262			475	1,787	481	481	601			1,186	475	1,661	
-Y3-	10+12.00	14+50.00	307		50	50	257	981	981	1,226	969			100	100	
TOTAL SUMMARY NO. 6			2,569		50	525	2,044	1,462	1,462	1,827	969			1,186	575	1,761
SUMMARY NO. 7 (RT.)																
-L-	28+31.59	59+00.00	4,800			1,900	2,900	8,996	8,996	11,245	8,345			1,900	1,900	
-RPD-	14+50.00	24+74.89	3,804		406		3,804	28,426	28,426	35,533	31,729			406	406	
-LPD-	12+27.00	15+55.00	728		866	110	618	245	245	306			312	976	1,288	
-Y-	11+00.00	16+48.00 (BB)	1,473			1,300	173	402	402	503	330			1,300	1,300	
-Y-	17+38.00 (EB)	28+00.00	2,496			535	1,961	11,368	11,368	14,210	12,249			535	535	
-Y-	28+00.00	33+07.97 (BB)	346				346	49,498	49,498	61,873	61,527					
-DR3-	9+53.00	12+13.32	113			75	38	2,196	2,196	2,745	2,707			75	75	
-DR4-	10+15.82	11+95.00	25			25		369	369	461	461			25	25	
-DR5-	10+00.00	12+32.15	54		51	50	4	3,664	3,664	4,580	4,576			101	101	
TOTAL SUMMARY NO. 7			13,839		1,323	3,995	9,844	105,164	105,164	131,456	121,924			312	5,318	5,630

SUMMARY NO. 8 (RT)															
-L-	59+00.00	70+34.38 (BB)	6,118		145	5,973	4,161		4,161	5,201			772	145	917
TOTAL SUMMARY NO. 8			6,118		145	5,973	4,161		4,161	5,201			772	145	917
SUMMARY NO. 9 (RT)															
-L-	71+84.38 (EB)	84+16.32	2,112		400	1,712	5,475		5,475	6,844	5,132			400	400
-L3-	84+16.32	100+48.70	2,561		1,175	1,386	1,085		1,085	1,356			30	1,175	1,205
TOTAL SUMMARY NO. 9			4,673		1,575	3,098	6,560		6,560	8,200	5,132		30	1,575	1,605
PHASE IV (DETOUR/REMOVAL)															
SUMMARY NO. 10															
-YDET-	19+69.08	33+75.76	1,056			1,056	3,492		3,492	4,365	3,309				
-YDET-	34+95.55	53+26.82	6,536			6,536	1,257		1,257	1,571			4,965		4,965
TOTAL SUMMARY NO. 10			7,592			7,592	4,749		4,749	5,936	3,309		4,965		4,965
SUMMARY TOTALS			57,917		10,593	13,200	44,717	267,244	267,244	334,058	298,859		9,519	23,793	33,312
WASTE IN LIEU OF BORROW											-4,554		-4,554		-4,554
LOSS DUE TO CLEARING & GRUBBING			-19,700			-19,700					19,700				
UNDERCUT CONTINGENCY				3,800			3,800	3,800	3,800	4,750	4,750			3,800	3,800
SHOULDER MATERIAL							12,500	12,500	12,500	15,625	15,625				
PROJECT TOTALS			38,217	14,393	13,200	25,017	283,544	283,544	354,433	334,380		4,965	27,593	32,558	
EST. 5% TO REPLACE TOPSOIL ON BORROW PIT										16,719					
GRAND TOTALS			38,217	14,393	13,200	25,017	283,544	283,544	354,433	351,099		4,965	27,593	32,558	
SAY			38,500	15,000						351,500					
*UNCLASSIFIED EXCAVATION-ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL:															
-L- Sta. 33+75 to Sta. 35+75, -L- Sta. 37+75 to Sta. 39+75, -RPB- Sta. 14+90 to Sta. 18+75, -LPD- Sta. 12+50 to Sta. 13+75, -RPD- Sta. 14+90 to Sta. 19+75, -YDET- Sta. 45+75 to Sta. 47+25 (TOTAL QUANTITY = 5,025 CY)															

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.

DDE = 4,335 CY

SELECT GRANULAR MATERIAL = 12,980 CY

GEOTEXTILE FOR SOIL STABILIZATION = 23,625 SY

CLASS IV SUBGRADE STABILIZATION = 4,950 TONS

CLASS IV AGGREGATE STABILIZATION = 500 TONS

SHALLOW UNDERCUT = 1,000 CY

SHALLOW UNDERCUT BY STATIONS = 1,350 CY

TOTAL SHALLOW UNDERCUT = 2,350 CY

PAVEMENT STRUCTURE VOLUME (-L1,-L,-L3-) = 3,461 CY

PAVEMENT STRUCTURE VOLUME (-Y-) = 602 CY