

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: I-5972

COUNTY: Johnston

DATE: 7/7/2023

COMPILED BY: Anton Gneushev

CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)25%		ROCK	SUITABLE	UNSUIT.	TOTAL
SUMMARY 1																
-L- LT	28+00.00	58+00.00	2,289			40	2,249	2,477		2,477	3,096	847			40	40
-L- LT	58+00.00	77+11.40	2,709			1,120	1,589	1,051		1,051	1,314		275	1,120	1,395	
-Y1-	21+70.00	36+75.00	1,082			680	402	33,879		33,879	42,349	41,947		680	680	
-RPB-	12+00.00	26+50.00	2,483			1,000	1,483	15,011		15,011	18,764	17,281		1,000	1,000	
-RPC-	10+00.00	24+50.00	915			650	265	15,863		15,863	19,829	19,564		650	650	
SUBTOTAL			9,478			3,490	5,988	68,281		68,281	85,351	79,639		275	3,490	3,765
SUMMARY 2																
-L- RT	33+50.00	63+50.00	3,473			570	2,903	2,064		2,064	2,580		323	570	893	
-L- RT	63+50.00	82+00.00	2,598			990	1,608	1,272		1,272	1,590		18	990	1,008	
-Y1-	38+04.00	56+50.00	3,148				3,148	31,579		31,579	39,474	36,326				
-RPA-	14+00.00	21+50.00	837			80	757	4,434		4,434	5,543	4,786		80	80	
-RPD-	10+00.00	30+50.00	5,784			310	5,474	3,523		3,523	4,404		1,070	310	1,380	
SUBTOTAL			15,840			1,950	13,890	42,872		42,872	53,590	41,111		1,411	1,950	3,361
SUMMARY 3																
-Y2-	10+50.00	33+50.00	7,683		2,169	2,160	5,523	13,060		13,060	16,325	10,802			4,329	4,329
SUBTOTAL			7,683		2,169	2,160	5,523	13,060		13,060	16,325	10,802			4,329	4,329
SUMMARY 4																
-TEMPRPB-	11+00.00	17+50.00	138				138	10,585		10,585	13,231	13,093				
-TEMPRPC-	11+50.00	22+00.00	128				128	15,294		15,294	19,118	18,990				
-TEMPRPC-REMOVE	12+00.00	16+00.00	90				90						90			
SUBTOTAL			356				266	25,879		25,879	32,349	32,083				
SHEET TOTALS																
			33,357		2,169	7,600	25,667	150,092		150,092	187,615	163,635		1,777	9,769	11,456

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

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CUMULATIVE TOTALS	EXCAVATION					EMBANKMENT				BORROW	WASTE			
	TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+)25%		ROCK	SUITABLE	UNSUIT.	TOTAL
SHEET 1 SUMMARY	33,357		2,169	7,600	25,667	150,092		150,092	187,615	163,635		1,777	9,769	11,456
SHEET TOTALS	33,357		2,169	7,600	25,667	150,092		150,092	187,615	163,635		1,777	9,769	11,456
MATERIAL FOR SHOULDER CONSTRUCTION						8,537		8,537	10,671					
GRADE POINT UNDERCUT CONTINGENCY			150			150		150	188	188			150	150
CONTINGENCY UNDERCUT FOR SUBGRADE			500											
ADDITIONAL UNDERCUT CONTINGENCY			500											
EARTH WASTE IN LIEU OF BORROW										-1,777		-1,777		-1,777
PROJECT TOTAL	33,357		3,319	7,600	25,667	158,779		158,779	198,474	162,046			9,919	9,829
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT										8,102				
GRAND TOTAL	33,357									170,148				
SAY	33,360									170,150				
DRAINAGE DITCH EXCAVATION	6,790													
SHALLOW UNDERCUT	10,300													
*UNCLASSIFIED EXCAVATION - ACCEPTABLE BUT NOT TO BE USED IN THE TOP 3' OF EMBANKMENT OR BACKFILL (5,100 CY) SEE LOCATIONS BELOW														
-L- 43+75 - 45+75 (150 CY)														
-Y1- 47+25 - 54+00 (1950 CY)														
-RPB- 15+25 - 18+75 (630 CY)														
-RPC- 16+75 - 20+75 (420 CY)														
-RPD- 13+00 - 18+50 (930 CY)														
-RPD- 24+75 - 29+60 (960 CY)														

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