

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: A-0009CD

COUNTY: Graham

DATE: 2/20/2026

COMPILED BY: SGM

SHEET OF SHEETS

ROCK SWELL = 25%

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +15%		ROCK	SUITABLE	UNSUIT.	TOTAL
-Y2- 89+80.00	-Y2- 100+00.00	102				102	7,149		7,149	8,221	8,119				
-Y3- 10+50.00	-Y3- 14+02.24	2,881				2,881	1,160		1,160	1,334			1,547		1,547
-Y2- 90+75.00	-Y2-99+25.00			2,980										2,980	2,980
	SUBTOTAL 1	2,983		2,980		2,983	8,309		8,309	9,555	8,119		1,547	2,980	4,527
-Y2- 100+00.00	-Y2- 130+00.00	7,170	117			7,053	12,384	117	12,238	14,190	7,020			5,076	5,076
-Y2- 117+75.00	-Y2- 130+00.00			5,076										5,076	5,076
	SUBTOTAL 2	7,170	117	5,076		7,053	12,384	117	12,237	14,190	7,020			5,076	5,076
-Y2- 130+00.00	-Y2- 158+00.00	357,395	130,750			226,645	19,380	15,504		15,504		115,246	226,645		341,891
-Y2- 130+00.00	-Y2- 133+75.00			1,554										1,554	1,554
-Y2- 138+25.00	-Y2- 141+75.00			2,320										2,320	2,320
	SUBTOTAL 3	357,395	130,750	3,874		226,645	19,380	15,504		15,504		115,246	226,645	3,874	345,765
-Y2- 158+00.00	-Y2- 169+60.00	54,499	20,164			34,335	837	670		670		19,494	34,335		53,829
	SUBTOTAL 4	54,499	20,164			34,335	837	669		670		19,494	34,335		53,829
TOTAL		422,047	151,031	11,930		271,016	40,910	16,290	20,546	39,919	15,139	134,740	262,527	11,930	409,197
UNSUITABLE WASTE (PER GEOTECH)					300	-300							-300	300	
LOSS DUE TO CLEARING & GRUBBING		-18,000				-18,000							-18,000		-18,000
ADDITIONAL UNDERCUT (PER GEOTECH)				750										750	750
ADDITIONAL UNDERCUT (PER CFI)				10,000										10,000	10,000
HARD ROCK WASTE TO REPLACE BORROW								10,531	-10,531		-10,531	-10,531			-10,531
ADJUST ROCK SWELL									-2,633	-2,633	-2,633	-2,633			-2,633
ELIMINATE EARTH SHRINKAGE FACTOR										-1,975	-1,975	-1,975			-1,975
HARD ROCK WASTE TO REPLACE EARTH EMBANKMENT								5,905	-5,905			-5,905	5,905		5,905
ADJUST ROCK SWELL									-1,476	-1,476			1,476		1,476
ELIMINATE EARTH SHRINKAGE FACTOR										-1,107			1,107		1,107
APPLY ROCK SWELL FACTOR TO PERMANENTLY WASTED HARD ROCK												29,576			29,576
APPLY ROCK SHRINKAGE TO PERMANENTLY WASTED HARD ROCK												22,182			22,182
GRAND TOTAL		404,047	151,031	22,680	300	252,716	40,910	32,729		32,728		168,372	237,847	22,980	445,757
SAY		410,000		22,680											

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

EST. DDE = 800 CUBIC YARDS

SELECT GRANULAR MATERIAL, CLASS III = 13,630 CY

PAVEMENT STRUCTURE VOLUME: 2,300 CY