

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT I-2513AB (I-40)

COUNTY: Buncombe

DATE: 2/9/2024

COMPILED BY: T. CAREY

SHEET 1 OF 1 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +15%		ROCK	SUITABLE	UNSUIT.	TOTAL
-Y5RPA- 21+24.50	27+49.45	2,703		333		2,703	8,687		8,687	9,990	7,287			333	333
	SUBTOTAL	2,703		333		2,703	8,687		8,687	9,990	7,287			333	333
-RPC- 10+00.00	40+00.00	96,202		2,496		96,202	70,780		70,780	81,397			14,805	2,496	17,301
	SUBTOTAL	96,202		2,496		96,202	70,780		70,780	81,397			14,805	2,496	17,301
-L1 EB- 37+52.34	66+10.00	35,845		2,071		35,845	12,462		12,462	14,331			21,514	2,071	23,585
	SUBTOTAL	35,845		2,071		35,845	12,462		12,462	14,331			21,514	2,071	23,585
-L1 WB- 37+17.52	66+00.00	13,296		2,254		13,296	1,349		1,349	1,551			11,745	2,254	13,999
	SUBTOTAL	13,296		2,254		13,296	1,349		1,349	1,551			11,745	2,254	13,999
	SUBTOTAL														
	TOTAL	148,046		7,154		148,046	93,278		93,278	107,270	7,287		48,063	7,154	55,217
SHOULDER MATERIAL TO BE USED IN LIEU OF SHOULDER BORROW							2,100		2,100	2,415	2,415				
LOSS DUE TO CLEARING & GRUBBING		-4,817				-4,817							-4,817		-4,817
ADDITIONAL UNDERCUT				2,050			2,050		2,050	2,358	2,358			2,050	2,050
ROCK WASTE TO REPLACE BORROW															
SELECT GRANULAR MATERIAL IN LIEU OF BORROW							-650		-650	-748	-748				
WASTE IN LIEU OF BORROW													-11,312		-11,312
	PROJECT TOTAL	143,229		9,204		143,229	96,778		96,778	111,295			31,934	9,204	41,138
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT															
	GRAND TOTAL	143,229		9,204		143,229	96,778		96,778	111,295			31,934	9,204	41,138
	SAY	143,250		9,210											
Pavement Structure Volume -RPC- 5,000 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.

UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3FT OF EMBANKMENT OR BACKFILL (PER GEOTECH RECS LETTER 8/26/2022: -L1- 64+75 to 65+75 = 550CY, -Y5RPA- 25+00 to 27+19 = 1,175CY, -RPC- 38+75 to 39+50 = 275CY) EST. DDE = 3,280 CUBIC YARDS (PER GEOTECH RECOMMENDATIONS - 475 CY IS UNSUITABLE WASTE MATERIAL)