Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5789 COUNTY: Onslow DATE: 4/17/2025 COMPILED BY: DAVENPORT SHEET 1 OF 1 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +25%		ROCK	SUITABLE	UNSUIT.	TOTAL
-L- STA 13+00	-L- STA 18+00	44		274	44		996		996	1,245	1,245			318	318
-L- STA 19+50	-L- STA 25+00	58		107	58		388		388	485	485			166	166
-L- STA 27+00	-L- STA 33+00	143		128	143		169		169	211	211			271	271
-L- STA 34+50	-L- STA 43+50	153		293	153		415		415	519	519			445	445
	SUBTOTAL	398		802	398		1,969		1,969	2,460	2,460			1,200	1,200
-Y- 11+00	-Y- 28+00	634			634		1,592		1,592	1,990	1,990			634	634
	SUBTOTAL	634			634		1,592		1,592	1,990	1,990			634	634
-Y1- STA 21+50	-Y1- STA 26+00	340			340		590		590	738	738			340	340
	SUBTOTAL	340			340		590		590	738	738			340	340
-YA2- STA 10+50	-YA2- STA 10+50	56		122	56		13		13	16.00	16			178	178
	SUBTOTAL	56		122	56		13		13	16	16			178	178
TOTAL		1,428		924	1,428		4,163		4,163	5,204	5,204			2,352	2,352
SELECT MATERIAL IN LIEU OF BORROW															
LOSS DUE TO CLEARING & GRUBBING															
ADDITIONAL UNDERCUT															
ROCK WASTE TO REPLACE BORROW															
ADJUST FOR ROCK WASTE															
WASTE IN LIEU OF BORROW															
PROJECT TOTAL		1,428		924	1,428		4,163		4,163	5,204	5,204			2,352	2,352
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											260				
GRAND TOTAL		1,428		924	1,428		4,163		4,163	5,204	5,464			2,352	2,352
SAY		1,500		1,000	1,500		4,000		4,000	5,000	5,500			2,500	2,500

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.

EST. DDE = 1,020 CUBIC YARDS
SHOULDER BORROW = 750 CUBIC YARDS
EST. SHALLOW UNDERCUT = 1710 CUBIC YARDS
EST. SELECT GRANULAR MATERIAL = 1250 CUBIC YARDS
CLASS IV SUBGRADE STABILIZATION =3750 TONS
PER GEOTECH RECOMMENDATION, ESTIMATED 1340 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.