

# Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: R-3833C

COUNTY: Iredell

DATE: 3/25/2023

COMPILED BY: LRS / ADS

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	
L_LT1 18+50.00	48+00.00	403			150	253	35,981		35,981	41,378		41,125			150	150
DRY DETENTION BASIN		19,500			19,500		22,500		22,500	25,875		25,875			19,500	19,500
Y1_NORTH 13+00.00	14+25.00	65				65			10	12				54		54
Y2 13+00.00	13+50.00	29				29			65	75		46				
Y3 12+22.00	13+00.00	49				49			2	2				47		47
	<b>SUBTOTAL</b>	<b>20,046</b>			<b>19,650</b>	<b>396</b>	<b>58,558</b>		<b>58,558</b>	<b>67,341</b>		<b>67,045</b>		<b>100</b>	<b>19,650</b>	<b>19,750</b>
L_LT2 48+50.00	61+50.00	198				198			11,250	12,938		12,740				
Y6 11+70.00	12+50.00	90				90			52	60				30		30
	<b>SUBTOTAL</b>	<b>288</b>				<b>288</b>	<b>11,302</b>		<b>11,302</b>	<b>12,997</b>		<b>12,739</b>		<b>30</b>		<b>30</b>
Y_LT1 14+00.00	34+49.00	361			110	251	3,313		3,313	3,810		3,559			110	110
DRWY5 10+50.00	11+50.00						568		568	653		653				
	<b>SUBTOTAL</b>	<b>361</b>			<b>110</b>	<b>251</b>	<b>3,881</b>		<b>3,881</b>	<b>4,463</b>		<b>4,212</b>			<b>110</b>	<b>110</b>
Y_LT3 40+87.00	56+00.00	3,516				3,516	488		488	561				2,955		2,955
DRWY7 10+84.67	11+50.00	253				253	1		1	1				252		252
DRWY8 10+25.00	11+50.00	144				144	83		83	95				49		49
	<b>SUBTOTAL</b>	<b>3,913</b>				<b>3,913</b>	<b>572</b>		<b>572</b>	<b>657</b>				<b>3,255</b>		<b>3,255</b>
L_LT_RT 63+00.00	75+50.00	520			250	270	41,690		41,690	47,944		47,674			250	250
Y_LT2 34+50.00	40+87.00	289				289	4,012		4,012	4,614		4,325				
DRWY3 10+50.00	11+00.00						302		302	347		347				
DRWY4 10+50.00	11+00.00	6				6	115		115	132		126				
DRWY6 10+75.00	11+24.06	25				25	372		372	428		403				
	<b>SUBTOTAL</b>	<b>840</b>			<b>250</b>	<b>590</b>	<b>46,491</b>		<b>46,491</b>	<b>53,464</b>		<b>52,874</b>			<b>250</b>	<b>250</b>
L_RT1 18+50.00	48+00.00	6,530			450	6,080	15,698		15,698	18,053		11,973			450	450
Y1_SOUTH 15+50.00	18+75.00	96				96	120		120	138		42				
DRWY1 10+50.00	11+00.00	53				53	13		13	15				38		38
DRWY2 11+00.00	11+60.00	10				10	392		392	451		441				
Y4 10+50.00	11+50.00	9				9	284		284	327		318				
	<b>SUBTOTAL</b>	<b>6,698</b>			<b>450</b>	<b>6,248</b>	<b>16,507</b>		<b>16,507</b>	<b>18,983</b>		<b>12,773</b>		<b>38</b>	<b>450</b>	<b>488</b>
L_RT2 48+50.00	61+50.00	996				996	6,316		6,316	7,263		6,267				
Y_RT2 38+00.00	57+00.00	1,366				1,366	1,675		1,675	1,926		560				
Y5 11+00.00	17+50.00	233			100	133	375		375	431		298			100	100
Y7 15+50.00	16+00.00	19				19	20		20	23		4				
	<b>SUBTOTAL</b>	<b>2,614</b>			<b>100</b>	<b>2,514</b>	<b>8,386</b>		<b>8,386</b>	<b>9,643</b>		<b>7,129</b>			<b>100</b>	<b>100</b>
Y_RT1 14+00.00	38+00.00	1,997			140	1,857	1,204		1,204	1,385				472	140	612
	<b>SUBTOTAL</b>	<b>1,997</b>			<b>140</b>	<b>1,857</b>	<b>1,204</b>		<b>1,204</b>	<b>1,384</b>				<b>472</b>	<b>140</b>	<b>612</b>
<b>TOTAL</b>		<b>36,757</b>			<b>20,700</b>	<b>16,057</b>	<b>146,901</b>		<b>146,901</b>	<b>168,932</b>		<b>156,772</b>		<b>3,895</b>	<b>20,700</b>	<b>24,595</b>
MATERIAL FOR SHOULDER CONSTRUCTION							590		590	679		679				
LOSS DUE TO CLEARING & GRUBBING		-600				-600						600				
WASTE IN LIEU OF BORROW												-3,895		-3,895		-3,895
<b>PROJECT TOTAL</b>		<b>36,157</b>			<b>20,700</b>	<b>15,457</b>	<b>147,491</b>		<b>147,491</b>	<b>169,610</b>		<b>154,155</b>			<b>20,700</b>	<b>20,700</b>
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT												7,708				
<b>GRAND TOTAL</b>		<b>36,157</b>			<b>20,700</b>	<b>15,457</b>	<b>147,491</b>		<b>147,491</b>	<b>169,610</b>		<b>161,862</b>			<b>20,700</b>	<b>20,700</b>
SAY		36,200										161,900				

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 = 1210 CUBIC YARDS  
 EST. SHALLOW UNDERCUT = 400 CUBIC YARDS  
 EST. SHALLOW UNDERCUT BY STATIONS = 1,550 CUBIC YARDS  
 TOTAL SHALLOW UNDERCUT = 1,950 CUBIC YARDS  
 PER GEOTECH RECOMMENDATION, ESTIMATED 9,350 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.  
 PSV = 21,430 CUBIC YARDS

BALANCE EARTHWORK CHECK			
TOTAL UNCL. EXC:	36,157	EMB + %:	169,610
UNDERCUT EXC:		TOTAL WASTE:	20,700
BORROW EXC:	154,155		
<b>TOTAL:</b>	<b>190,312</b>	<b>TOTAL:</b>	<b>190,310</b>