

# EARTHWORK SUMMARIES

Volumes in Cubic Yards

PROJECT   R-5726  

COUNTY   Moore  

DATE   7/23/2024  

SHEET   1   OF   5   SHEETS

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMBANK. 20%	BORROW	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
<b>PHASE I</b>															
-L- LT	9+00.00	18+47.00	735				735	758		758	910	175			
-L- LT	18+47.00	29+91.00	3702				3702	3535		3535	4242	540			
-L- LT	29+91.00	36+19.00	3159				3159	519		519	623		2536		2536
-Y1-	16+70.00	17+49.76	144				144	41		41	49		95		95
-Y3-	13+10.00	14+57.29	790				790						790		790
-Y8A-	10+00.00	11+20.93	753				753						753		753
<b>SUBTOTAL</b>			9283				9283	4853		4853	5824	715	4174		4174
-L- LT	36+19.00	55+77.00	2031				2031	3501		3501	4201	2170			
-L- LT	55+77.00	62+40.00	1013				1013	75		75	90		923		923
-Y12-	11+75.00	12+71.74	272				272						272		272
<b>SUBTOTAL</b>			3316				3316	3576		3576	4291	2170	1195		1195
-L- RT	59+15.00	89+00.00	1201				1201	26866		26866	32239	31038			
-L- RT	89+00.00	98+90.00	68				68	4110		4110	4932	4864			
<b>SUBTOTAL</b>			1269				1269	30976		30976	37171	35902			
-L-RT	98+90.00	128+00.00	32				32	10661		10661	12793	12761			
-Y14-	10+38.80	16+70.00	81				81	1018		1018	1222	1141			
BASIN 1	119+00.00		4278				4278						4278		4278
<b>SUBTOTAL</b>			4391				4391	11679		11679	14015	13902	4278		4278
-L- RT	128+00.00	131+50.00	109				109	265		265	318	209			
-L- RT	131+50.00	151+44.00	595				595	4716		4716	5659	5064			
-L- RT	151+44.00	168+00.00	78				78	16015		16015	19218	19140			
-ACC1-	10+37.67	14+24.60	204				204	290		290	348	144			
-Y16-	10+37.50	17+25.00	271				271	865		865	1038	767			
-Y17-	10+37.58	12+00.00	7				7	880		880	1056	1049			
<b>SUBTOTAL</b>			1264				1264	23031		23031	27637	26373			
<b>SHEET 1 TOTALS:</b>			19523				19523	74115		74115	88938	79062	9647		9647

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SHEET   2   OF   5   SHEETS

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMBANK. +20%	BORROW	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
<b>PHASE I</b>															
-L- RT	168+00.00	180+00.00	22393				22393	1840		1840	2208		20185		20185
-L- RT	180+00.00	195+15.00	4342				4342	83061		83061	99673	95331			
-Y18-	10+50.00	12+74.71	97				97	440		440	528	431			
<b>SUBTOTAL</b>			26832				26832	85341		85341	102409	95762	20185		20185
-L- RT	195+15.00	225+00.00	18613				18613	5799		5799	6959		11654		11654
-L- MED	194+75.00	196+00.00	35				35	20		20	24		11		11
-L- MED	196+00.00	206+50.00	413				413	28		28	34		379		379
-Y19-	10+47.11	11+40.00	8				8	286		286	343	335			
-DR1-	10+61.28	11+45.00	1				1	97		97	116	115			
<b>SUBTOTAL</b>			19070				19070	6230		6230	7476	450	12044		12044
-L- RT	225+00.00	234+40.00	2349				2349	1018		1018	1222		1127		1127
-Y21-	10+47.05	12+50.00	122				122	333		333	400	278			
BASIN 2	215+50.00		3358				3358						3358		3358
<b>SUBTOTAL</b>			5829				5829	1351		1351	1622	278	4485		4485
-L- RT	234+40.00	262+75.00	2962				2962	7822		7822	9386	6424			
<b>SUBTOTAL</b>			2962				2962	7822		7822	9386	6424			
<b>SHEET 2 TOTAL</b>			54693				54693	100744			120893	102914	36714		36714
<b>SHEET 1 TOTAL</b>			19523				19523	74115			88938	79062	9647		9647
<b>PHASE I TOTAL</b>			74216				74216	174859			209831	181976	46361		46361

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SHEET   3   OF   5   SHEETS

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMBANK. 20%	BORROW	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
<b>PHASE II</b>															
-L- RT	9+00.00	27+50.00	34				34	1201		1201	1441	1407			
-L- RT	27+50.00	30+00.00						90		90	108	108			
-L- RT	30+00.00	36+00.00	3				3	226		226	271	268			
-Y4-	10+38.39	18+25.00	346				346	423		423	508	162			
<b>SUBTOTAL</b>			<b>383</b>				<b>383</b>	<b>1940</b>		<b>1940</b>	<b>2328</b>	<b>1945</b>			
-L- RT	36+00.00	39+95.00	53				53	600		600	720	667			
-L- RT	39+95.00	43+95.00	111				111	502		502	602	491			
-L- RT	43+95.00	47+38.00	7				7	282		282	338	331			
-L- RT	47+38.00	59+15.00	2835				2835	453		453	544		2291		2291
-Y8-	10+37.51	12+00.00	37				37	153		153	184	147			
-Y9-	10+38.08	11+65.00	318				318	1		1	1		317		317
-Y10-	10+37.50	11+25.00	12				12	110		110	132	120			
-Y11-	10+37.50	11+25.00	17				17	73		73	88	71			
<b>SUBTOTAL</b>			<b>3390</b>				<b>3390</b>	<b>2174</b>		<b>2174</b>	<b>2609</b>	<b>1827</b>	<b>2608</b>		<b>2608</b>
-L- LT	62+40.00	86+26.00	1074				1074	1383		1383	1660	586			
<b>SUBTOTAL</b>			<b>1074</b>				<b>1074</b>	<b>1383</b>		<b>1383</b>	<b>1660</b>	<b>586</b>			
-L-LT	86+26.00	115+00.00	485				485	2120		2120	2544	2059			
-L-LT	115+00.00	131+54.00	90				90	1332		1332	1598	1508			
-Y13-	12+55.00	13+01.73	30				30	32		32	38	8			
<b>SUBTOTAL</b>			<b>605</b>				<b>605</b>	<b>3484</b>		<b>3484</b>	<b>4180</b>	<b>3575</b>			
-L- LT	131+54.00	160+00.00	429				429	850		850	1020	591			
-L- LT	160+00.00	165+00.00	440				440	146		146	175		265		265
-L- LT	165+00.00	168+00.00	21				21	2		2	2		19		19
-Y15-	13+40.00	13+68.41	12				12	32		32	38	26			
<b>SUBTOTAL</b>			<b>902</b>				<b>902</b>	<b>1030</b>		<b>1030</b>	<b>1235</b>	<b>617</b>	<b>284</b>		<b>284</b>
-L- LT	168+00.00	195+00.00	11797				11797	9185		9185	11022		775		775
<b>SUBTOTAL</b>			<b>11797</b>				<b>11797</b>	<b>9185</b>		<b>9185</b>	<b>11022</b>		<b>775</b>		<b>775</b>
<b>SHEET 3 TOTALS:</b>			<b>18151</b>				<b>18151</b>	<b>19196</b>		<b>19196</b>	<b>23034</b>	<b>8550</b>	<b>3667</b>		<b>3667</b>

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SHEET   4   OF   5   SHEETS

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMBANK. +20%	BORROW	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
<b>PHASE II</b>															
-L- LT	195+00.00	207+28.00	4213				4213	20		20	24		4189		4189
-Y20-	13+50.00	14+38.74	51				51	10		10	12		39		39
<b>SUBTOTAL</b>			4264				4264	30		30	36		4228		4228
-L- LT	207+28.00	237+00.00	1532				1532	1455		1455	1746	214			
<b>SUBTOTAL</b>			1532				1532	1455		1455	1746	214			
-L- LT	237+00.00	262+75.00	687				687	630		630	756	69			
<b>SUBTOTAL</b>			687				687	630		630	756	69			
<b>SHEET 4A TOTAL</b>			6483				6483	1347		2115	2538	283	4228		4228
<b>SHEET 3 TOTAL</b>			18151				18151	19196		19196	23034	8550	3667		3667
<b>PHASE II TOTAL</b>			24634				24634	20543		21311	25572	8833	7895		7895
<b>PHASE III</b>															
-L- MED	9+00.00	18+50.00	144				144	368		368	442	298			
-L- MED	18+50.00	30+00.00	124				124	1154		1154	1385	1261			
<b>SUBTOTAL</b>			268				268	1522		1522	1827	1559			
-L- MED	30+00.00	60+00.00	358				358	1593		1593	1912	1554			
<b>SUBTOTAL</b>			358				358	1593		1593	1912	1554			
-L- MED	60+00.00	90+00.00	434				434	498		498	598	164			
<b>SUBTOTAL</b>			434				434	498		498	598	164			
-L- MED	90+00.00	99+00.00	457				457						457		457
-L- MED	99+00.00	131+40.00	855				855	708		708	850		5		5
<b>SUBTOTAL</b>			1312				1312	708		708	850		462		462
-L- MED	131+40.00	160+00.00	521				521	476		476	571	50			
-L- MED	160+00.00	165+00.00	178				178	108		108	130		48		48
-L- MED	165+00.00	168+00.00	54				54						54		54
<b>SUBTOTAL</b>			753				753	584		584	701	50	102		102
<b>SHEET 4B TOTAL</b>			3125				3125	4905		4905	5888	3327	564		564

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SHEET   5   OF   5   SHEETS

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMBANK. +20%	BORROW	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
PHASE III															
-L- MED	168+00.00	169+50.00	54				54						54		54
-L- MED	169+50.00	194+75.00	395				395	2136		2136	2563	2168			
SUBTOTAL			449				449	2136		2136	2563	2168	54		54
-L- MED	206+50.00	207+65.00	45				45						45		45
-L- MED	207+65.00	234+00.00	558				558	69		69	83		475		475
SUBTOTAL			603				603	69		69	83		520		520
-L- MED	234+00.00	235+15.00	27				27	3		3	4		23		23
-L- MED	235+15.00	241+50.00	254				254						254		254
-L- MED	241+50.00	242+65.00	50				50						50		50
-L- MED	242+65.00	262+75.00	183				183	20		20	24		159		159
SUBTOTAL			514				514	23		23	28		486		486
SHEET 5 TOTAL			1566				1566	2228		2228	2674	2168	1060		1060
SHEET 4B TOTAL			3125				3125	4905		4905	5888	3327	564		564
PHASE III TOTAL			4691				4691	7133		7133	8562	5495	1624		1624
PHASE I TOTAL			74216				74216	174859			209831	181976	46361		46361
PHASE II TOTAL			24634				24634	20543		21311	25572	8833	7895		7895
GRAND SUBTOTAL			103541				103541	202535		28444	243965	196304	55880		55880
Per Geotech Recommendations															
Loss Due to Clearing and Grubbing			-13500				-13500					13500			
Material for Shoulder Construction								9760		9760	11712	11712			
WASTE IN LIEU OF BORROW (P I)												-46361	-46361		-46361
WASTE IN LIEU OF BORROW (P II)												-7895	-7895		-7895
WASTE IN LIEU OF BORROW (P III)												-1624	-1624		-1624
Estimated 5% to Replace Topsoil on Borrow Pits												8282			
GRAND TOTAL			90041				90041			38204	255677	173918			
<b>SAY:</b>			<b>91,000</b>									<b>174,000</b>			

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

EST. DDE = 1,520 CY

EST. UNDERCUT EXCAVATION CONTINGENCY = 3,950 CY

EST. PAVEMENT STRUCTURE VOLUME = 68,250 CY