

EARTHWORK SUMMARY

Volumes in Cubic Yards

PROJECT: U-5896

COUNTY

DATE 11/30/2021

SHEET 1 OF 3 SHEETS

RD10S01C

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 I															
-L- LT	7+70.00	15+00.00	76				76	303		303	364	288			
-L- LT	32+08.00	41+25.00	852				852	464		464	557		295		295
-L- RT	35+47.00	44+25.00	5,314				5,314	334		334	401		4,913		4,913
-L- MED	34+00.00	44+25.00	184				184	22		22	26		158		158
-RPA-	16+50.00	23+68.33	34,764				34,764	28		28	34		34,730		34,730
*-RPB-	16+00.00	20+98.86	994				994	1,885		1,885	2,262	1,268			
**RPC-	16+50.00	20+95.00	16,141		505		16,141	505		505	606		16,141	505	16,646
-RPD-	16+00.00	25+75.57	30,915	200	409		30,715	409		409	491		30,715	609	31,324
-Y- RT	12+88.00	14+24.00	169				169	5		5	6		163		163
-RPB- (-DET_RPB-)	15+98.28 (15+96.77)	21+13.31 (21+13.31)	453				453	1,264		1,264	1,517	1,064			
-DR1-	10+80.00	14+25.00	177				177	96		96	115		62		62
SUBTOTAL			90,039	200	914		89,839	5,315		5,315	6,379	2,620	87,177	1,114	88,291
Phase II															
-L- RT	6+40.00	15+00.00	1,030				1,030	958		958	1,150	120			
-L- LT	15+00.00	17+78.00	623				623	120		120	144		479		479
-RPC-	16+00.00	16+50.00	1,201				1,201						1,201		1,201
-RPC-	20+95.00	23+72.96	7,520				7,520						7,520		7,520
-Y- RT	10+55.00	12+88.00	41				41	46		46	55	14			
-Y- RT	14+24.00	16+15.00	187				187	10		10	12		175		175
-Y- RT	18+41.00	25+85.00	759				759	31		31	37		722		722
-Y1-	13+90.00	15+16.74	160				160	13		13	16		144		144
-L- (-DET-)	14+05.81 (7+06.47)	22+95.82 (16+00.00)	332				332	5,794		5,794	6,953	6,621			
-L- (-DET-)	24+45.82 (17+50.00)	35+57.20 (28+64.30)	2,015				2,015	5,519		5,519	6,623	4,608			
-L- (-DET-XOVER-)	15+14.97 (10+24.86)	22+54.24 (17+65.00)	125				125	71		71	85		40		40
-L- (-DET-XOVER-)	24+69.24 (19+80.00)	33+29.55 (28+41.08)	115				115	53		53	64		51		51
SUBTOTAL			14,108				14,108	12,615		12,615	15,139	11,363	10,332		10,332
SHEET 1 SUBTOTAL			104,147	200	914		103,947	17,930		17,930	21,518	13,983	97,509	1,114	98,623

*-RPB- EARTHWORK INCLUDES REMOVAL OF -DET-RPB- ; -DET-RPB- IS DEPICTED AS EXISTING GROUND IN -RPB- CROSS SECTIONS.

**UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3 FT OF EMBANKMENT OR BACKFILL -RPC- 16+75 TO 20+25 (10,000 CY)

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SHEET 2 OF 3 SHEETS

RD10S01C

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Phase III															
-L- LT	17+78.00	23+05.37	96				96	6,074		6,074	7,289	7,193			
-L- LT	24+21.37	32+08.00	597				597	7,351		7,351	8,821	8,224			
-Y- LT	12+71.00	13+08.00						40		40	48	48			
	SUBTOTAL		693				693	13,465		13,465	16,158	15,465			
Phase IV															
-L- RT	16+27.00	23+04.37	1,737				1,737	4,432		4,432	5,318	3,581			
-L- RT	24+21.37	31+82.00	295				295	3,787		3,787	4,544	4,249			
-L- MED	10+75.00	16+27.00	23				23	16		16	19		4		4
-L- MED	31+82.00	34+00.00	3				3	4		4	5	2			
-Y- RT	16+15.00	18+41.00	200				200	835		835	1,002	802			
-Y- LT	10+55.00	12+71.00	34				34	27		27	32		2		2
	SUBTOTAL		2,292				2,292	9,101		9,101	10,920	8,634	6		6
Phase V															
-L- RT	15+00.00	16+27.00	1,861				1,861	16		16	19		1,842		1,842
-L- RT	31+82.00	35+47.00	1,299				1,299	465		465	558		741		741
-Y- LT	13+08.00	25+85.00	1,444				1,444	2,807		2,807	3,368	1,924			
-DET-XOVER-REMOVAL	15+14.97 (10+24.86)	22+54.24 (17+65.00)	71				71	125		125	150	79			
-DET-XOVER-REMOVAL	24+69.24 (19+80.00)	33+29.55 (28+41.08)	53				53	115		115	138	85			
	SUBTOTAL		4,728				4,728	3,528		3,528	4,233	2,088	2,583		2,583
	SHEET 2 SUBTOTAL		7,713				7,713	26,094		26,094	31,311	26,187	2,589		2,589

-L- EARTHWORK INCLUDES REMOVAL OF -DET-; -DET- IS DEPICTED AS EXISTING GROUND IN -L- CROSS SECTIONS.

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SHEET 3 OF 3 SHEETS

RD10S01C

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
	SHEET 1 SUBTOTAL		104,147	200	914		103,947	17,930		17,930	21,518	13,983	97,509	1,114	98,623
	SHEET 2 SUBTOTAL		7,713				7,713	26,094		26,094	31,311	26,187	2,589		2,589
	PROJECT SUBTOTAL		111,860	200	914		111,660	44,024		44,024	52,829	40,170	100,098	1,114	101,212
ADDITIONAL UNDERCUT					850			850		850	1,020	1,020		850	850
SUBGRADE STABILITY UNDERCUT					3,721			3,721		3,721	4,465	4,465		3,721	3,721
UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE			9,200			9,200								9,200	9,200
WASTE IN LIEU OF BORROW												-45,655	-45,655		-45,655
LOSS DUE TO CLEARING & GRUBBING			-250				-250						-250		-250
	PROJECT TOTAL		120,810	200	5,485	9,200	111,410	48,595		48,595	58,314		54,193	14,885	69,078
	GRAND TOTAL:		120,810	200	5,485	9,200	111,410	48,595		48,595	58,314		54,193	14,885	69,078
	SAY:		133,000		7,000										

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

EST. SHOULDER BORROW - 1,270 CY

EST. DDE - 10,877 CY

EST. SHALLOW UNDERCUT = 650 CY

EST. PAVEMENT STRUCTURE VOLUME = 49,320 CY