

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT R-1015

COUNTY: Craven

DATE: 11/29/2018

COMPILED BY: ZL

SHEET 1 OF 3 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNSUIT.	TOTAL
-L- 32+80.83	64+50.00	12,241				12,241	59,229		59,229	71,075	58,834				
	SUBTOTAL	12,241				12,241	59,229		59,229	71,075	58,834				
-L- 64+50.00	94+50.00	5,312				5,312	92,839		92,839	111,407	106,095				
-LP1B- 2+23.34	6+50.00			4,015			9,768		9,768	11,722	11,722			4,015	4,015
-RP1B- 5+20.31	25+50.60	3,022		18,930		3,022	60,745		60,745	72,894	69,872			18,930	18,930
-RP1CD- 2+95.59	32+53.25	13,793				13,793	27,561		27,561	33,073	19,280				
	SUBTOTAL	22,127		22,945		22,127	190,913		190,913	229,096	206,969			22,945	22,945
-L- 94+50.00	107+00.00						46,160		46,160	55,392	55,392				
-RP1AB- 4+89.37	10+00.00			20,438			121,914		121,914	146,297	146,297			20,438	20,438
-RP1AB- 13+50.00	45+00.00	4,363				4,363	115,221		115,221	138,265	133,902				
-RP1A- 2+99.97	7+54.62						6,794		6,794	8,153	8,153				
	SUBTOTAL	4,363		20,438		4,363	290,089		290,089	348,107	343,744			20,438	20,438
-L- 107+00.00	136+50.00						453,702		453,702	544,442	544,442				
	SUBTOTAL						453,702		453,702	544,442	544,442				
-L- 141+50.00	169+50.00						252,359		252,359	302,831	302,831				
	SUBTOTAL						252,359		252,359	302,831	302,831				
-L- 186+00.00	216+00.00						406,729		406,729	488,075	488,075				
	SUBTOTAL						406,729		406,729	488,075	488,075				
-L- 216+00.00	226+00.00						300,403		300,403	360,484	360,484				
	SUBTOTAL						300,403		300,403	360,484	360,484				
-L- 228+70.94	258+50.00	137				137	298,924		298,924	358,709	358,572				
-Y3- 35+00.00	51+00.00	515		594		515	67,284		67,284	80,741	80,226			594	594
-Y3RPB- 6+41.92	20+06.96						112,268		112,268	134,722	134,722				
-Y3RPC- 10+27.15	17+04.29						61,861		61,861	74,233	74,233				
	SUBTOTAL	652		594		652	540,337		540,337	648,405	647,753			594	594
-L- 258+50.00	282+50.00			4,561			167,645		167,645	201,174	201,174			4,561	4,561
-Y3- 53+50.00	73+50.00	1,375		1,322	95	1,280	94,984		94,984	113,981	112,701			1,417	1,417
-Y3RPA- 7+50.00	17+30.74						33,902		33,902	40,682	40,682				
-Y3RPD- 6+50.00	25+23.59						87,405		87,405	104,886	104,886				
-Y3DET- 36+50.00	69+00.00	2,256		2,123		2,256	14,030		14,030	16,836	14,580			2,123	2,123
	SUBTOTAL	3,631		8,006	95	3,536	397,966		397,966	477,559	474,023			8,101	8,101
	SHEET TOTAL	43,014		51,983	95	42,919	2,891,727		2,891,727	3,470,074	3,427,155			52,078	52,078

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.

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SHEET 2 OF 3 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE				
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNSUIT.	TOTAL	
-L- 292+50.00	322+50.00	948		1,457		948	79,226		79,226	95,071	94,123			1,457	1,457	
	SUBTOTAL	948		1,457		948	79,226		79,226	95,071	94,123			1,457	1,457	
-L- 322+50.00	352+50.00	2,231		319		2,231	112,705		112,705	135,246	133,015			319	319	
-Y4- 34+40.00	43+50.00	988				988	37,611		37,611	45,133	44,145					
-Y4- 46+00.00	59+12.29	647		1,064		647	66,436		66,436	79,723	79,076			1,064	1,064	
-Y4DET- 34+60.97	58+70	435		3,511		435	12,827		12,827	15,392	14,957			3,511	3,511	
-Y4DR- 10+50.00	16+00.00	488		589		488	1,414		1,414	1,697	1,209			589	589	
	SUBTOTAL	4,789		5,483		4,789	230,993		230,993	277,191	272,402			5,483	5,483	
-L- 352+50.00	382+50.00	921		1,880		921	127,501		127,501	153,001	152,080			1,880	1,880	
	SUBTOTAL	921		1,880		921	127,501		127,501	153,001	152,080			1,880	1,880	
-L- 382+50.00	412+50.00						106,639		106,639	127,967	127,967					
-DR1- 10+00.00	13+78.96	440				440	276		276	331			109		109	
	SUBTOTAL	440				440	106,915		106,915	128,298	127,967		109		109	
-L- 412+50.00	442+50.00						91,344		91,344	109,613	109,613					
	SUBTOTAL						91,344		91,344	109,613	109,613					
-L- 442+50.00	472+50.00	20		2,285		20	82,604		82,604	99,125	99,105			2,285	2,285	
	SUBTOTAL	20		2,285		20	82,604		82,604	99,125	99,105			2,285	2,285	
-L- 472+50.00	505+00.00			76			150,696		150,696	180,835	180,835			76	76	
-G12- 11+00.00	13+47.00						504		504	605	605					
	SUBTOTAL			76			151,200		151,200	181,440	181,440			76	76	
-L- 507+50.00	515+50.00			6,811			305,147		305,147	366,176	366,176			6,811	6,811	
-RP2C- 5+87.11	10+71.91			102			61,986		61,986	74,383	74,383			102	102	
	SUBTOTAL			6,913			367,133		367,133	440,559	440,559			6,913	6,913	
-L- 518+07.32	548+00.00	2,101		1,083		2,101	176,283		176,283	211,540	209,439			1,083	1,083	
-LP2A- 81+29.61	86+00.00	28		313		28	4,453		4,453	5,344	5,316			313	313	
-RP2A- 79+22.74	92+00.00	7		17		7	24,776		24,776	29,731	29,724			17	17	
-RP2AC- 38+30.60	67+00.00	1,439		18	35	1,404	36,187		36,187	43,424	42,020			53	53	
-RP2AC- 67+00.00	79+22.74						41,863		41,863	50,236	50,236					
-RP2CD- 5+39.89	15+00.00	1,678				1,678	25,227		25,227	30,272	28,594					
	SUBTOTAL	5,253		1,431	35	5,218	308,789		308,789	370,547	365,329			1,466	1,466	
-L- 548+00.00	579+00.00	2,763		673		2,763	21,362		21,362	25,634	22,871			673	673	
	SUBTOTAL	2,763		673		2,763	21,362		21,362	25,634	22,871			673	673	
DETOUR REMOVAL																
-Y3DET- 36+50.00	69+00.00	14,030				14,030							14,030		14,030	
-Y4DET- 34+60.97	58+70	12,827				12,827							12,827		12,827	
	SUBTOTAL	26,857				26,857							26,857		26,857	
	SHEET TOTAL	41,991		20,198	35	41,956	1,567,067		1,567,067	1,880,479	1,865,489			26,966	20,233	47,199

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SHEET 3 OF 3 SHEETS

STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%		ROCK	SUITABLE	UNUIT.	TOTAL
	TOTAL FROM SHEET 1	43,014		51,983	95	42,919	2,891,727		2,891,727	3,470,074	3,427,155			52,078	52,078
	TOTAL FROM SHEET 2	41,991		20,198	35	41,956	1,567,067		1,567,067	1,880,479	1,865,489		26,966	20,233	47,199
TOTAL		85,005		72,181	130	84,875	4,458,794		4,458,794	5,350,553	5,292,644		26,966	72,311	99,277
MATERIAL FOR SHOULDER CONSTRUCTION							53,980		53,980	64,776	64,776				
ADDITIONAL UNDERCUT				18,000			18,000		18,000	21,600	21,600			18,000	18,000
GRADE POINT UNDERCUT				2,900			2,900		2,900	3,480	3,480			2,900	2,900
WASTE IN LIEU OF BORROW												-26,966		-26,966	-26,966
PROJECT TOTAL		85,005		93,081	130	84,875	4,533,674		4,533,674	5,440,409	5,355,534			93,211	93,211
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											267,777				
GRAND TOTAL		85,005		93,081	130	84,875	4,533,674		4,533,674	5,440,409	5,623,311			93,211	93,211
SAY		88,000		96,000							5,793,000				

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NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

EST. DDE = 1,560 CUBIC YARDS

CLASS IV SUBGRADE STABILIZATION = 2,550 TONS

TOTAL EST SHALLOW UNDERCUT = 1,000 CY (CONTINGENCY)

SELECT GRANULAR MATERIAL = 144,000 CY

GEOTEXTILE FOR SOIL STABILIZATION = 62,500 SY