

EARTHWORK

EARTHWORK

EARTHWORK SUMMARY

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

V.C.	K GRADE	GRADES				TOTAL EXCAVATION EARTH AND ROCK		ROCK		EMBANKMENT		BASE	
		STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V.C.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
	-3.6400%	12+00	403.18										
		+50	401.36	401.36	0.00							Begin Bituminous Concrete Overlay	
		13+00	399.54	399.68	+0.14								
		+50	397.72	398.27	+0.55								
		PC 13+94.16 = Rev PC 13+94.16											
		Rev 14+00	396.99	397.13	+0.14								
		Rev +04	396.94	397.06	+0.12								
		Rev +18	396.73	396.79	+0.06								
		Rev +24	396.64	396.68	+0.04								
		Rev +50	396.27	396.27	0.00	67						End Bituminous Concrete Overlay	
		Rev +60	396.12										
		Rev +95.60	395.60										
		Rev 15+00	395.54			50	155					C 404 E 0 F.P.C. 1.15 Ex.C 404	
		Rev +15	395.32	395.32	0.00								
		Rev +20.50	395.24	395.24	0.00								
		Rev +35	395.03	395.01	-0.02	50	249						
		Rev +50	394.81	394.75	-0.06	169						End Approach	
		Rev 16+00	394.09	393.76	-0.33	50	216					356 Begin Project BRS 0229(2)	
		Rev +50	393.36	392.52	-0.84	50	473						
		Rev +50.02	393.36	392.52	-0.84	295							
		Rev +75	392.37	391.81	-0.56								
		Rev +75.04	392.37	391.81	-0.56								
		Rev 17+00	391.38	391.05	-0.33	50	643						
		Rev +00.06	391.38	391.05	-0.33	399							
		Rev +49.86	389.42	389.36	-0.06	49.80	901					C 10017 R 1633 F.P.C. 0.3 F 0	
		Rev +50	389.41	389.35	-0.06								
		Rev +85	388.03	388.03	0.00	49.80	1182					Ex.C 10507	
		Rev +99.66	387.45			704							
		Rev 18+00	387.44										
		Rev +42.51	385.76										
		Rev +43	385.74			49.82	1330						
		Rev +49.48	385.49			738	0						
		Rev +50	385.47			49.84	1416	51					
		Rev +99.32	383.52			796	55						
		Rev 19+00	383.50			49.87	1451	287					
		Rev +49.19	381.55			715	256						
		Rev +50	381.52			49.88	1446	714					
		Rev +99.07	379.59			790	577						
		Rev 20+00	379.55			2995	819	581					
		Rev +29.02	378.40			687	530	0					
		Rev +30	378.37			49.96	469	365	2				
		Rev +48.98	377.62			582	458	5					
		Rev +50	377.58										
		Rev +61.46	377.12										
		Rev +62.50	377.08			49.94	846	604	5				
		Rev +98.92	375.65			333	195	0					

CARRIED FORWARD
COLUMN FOOTINGS 1315 969 7
11736 2602 7

V.C.	K GRADE	GRADES				TOTAL EXCAVATION EARTH AND ROCK		EMBANKMENT		BASE		
		STATION	ELEVATION ON TANGENT	ELEVATION ON V. CURVES	CORR. V.C.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	
	-3.9460%	Rev 198.92	375.65			333	195	0				
		Rev 21+00	375.60			49.96	740	555				
		Rev +48.88	373.67			467	405					
		Rev +50	373.63			49.98	1173	1041				
		Rev +98.86	371.70			800	720					
		Rev 22+00	371.66			24.99	740	666				
		Rev 22+56.3 = 22+16.78 Equation = 7.15										
		+25	370.72			25	798	720				
		+50	369.73			50	370	318	294	0	593	C 4892 R 4006
		23+00	367.76			18	0	0	640	493	R.F.C. 0.3 F 2442	
		+18	367.05			15			840	416	Ex.C 3652	
		+33	366.45			17			659	431		
		+50	365.78			20			710	386		
		+70	364.99			14			333	116		
		+84	364.44						115		Stop Roadway - Begin Bridge	
		+85	364.40									
		24+00	363.81									
		+45	362.03	362.03	0.00							
		+50	361.84	361.84	0.00							
		+58	361.52	361.53	+0.01	4					End Bridge - Resume Roadway	
		+62	361.36	361.38	+0.02	0						
		+74.81	360.86	360.92	+0.06	12.81	5					
		25+00	359.86	360.05	+0.19	25.19	35					
		+50	357.89	358.58	+0.69	50	94			91		
		26+00	355.92	357.41	+1.49	40	80			98	239	
		+50	353.95	356.56	+2.61	95	125			160	227	
		27+00	351.97	356.01	+4.04	75	157			85	1141	
		+35	350.59	355.82	+5.23	144				116	0	
		+50	351.08	355.78	+4.70	80				51	Ex.C 391	
		28+00	352.72	355.87	+3.15	95	162			15		
		+50	354.35	356.25	+1.90	105	185			3	17	
		29+00	355.99	356.96	+0.97	105	194			3	6	
		+50	357.63	357.98	+0.35	125	213			3	3	
		30+00	359.26	359.30	+0.04	50	125			2	2	
		+25	360.08	360.08	0.00							
		+50	360.90									
		31+00	362.90									
		31+50	365.10									
		End Bituminous Concrete Overlay										
		31+64.90 = Trax 32+13.01 EQ. = -48.11										
		32+50	369.50									End Approach
		33+00	373.00									

CARRIED FORWARD
COLUMN FOOTINGS 4931 3037 3187

STATION TO STATION	SUMMARY OF BALANCES			EXCESSES		ACCUMULATIVE EXCESSES		BASE CU. YARDS
	TOTAL EXCAV. EARTH & ROCK CUBIC YARDS	ROCK EXCAV. CUBIC YARDS	EMBANKMENT CUBIC YARDS	CUT	FILL	CUT	FILL	
Begin Approach	404	0	0	404		404		
Rev 15+50 Rev 20+00	10017	1633	0	10507		10911		
Rev 20+00 25+00	4892	4006	2442	3652		14563		
25+00 29+00	1141	0	750	391		14954		
End Approach	213	0	2	211		15165		
Drives	326	176	1213		834	14331		
Turnout	342	141	631		247	14084		
	17335	5956	5038					

SHEET NO.	COL. NO.	SUMMARY BY COLUMNS				REMARKS
		EXCAVATION TOTAL CU. YDS. ROCK CU. YDS.	EMBANKMENT CUBIC YARDS	BASE CUBIC YARDS		
1	1	11736	2602	7	EARTH AND ROCK EXCAVATION 17335 SOLID ROCK EXCAVATION 5956 EARTH EXCAVATION 11379	
1	2	4931	3037	3187	PLANSIMETERED FILL 5038 FACTORED SOLID ROCK (5956 x 1.3) 7743 LESS DISPLACEMENT OF ANY LARGE STRUCTURES NET-PLANSIMETERED-FILL	
					FACTOR PLANSIMETERED FILL INCLUDING FACTOR Excess Rock 2705	
					MATERIALS AVAILABLE FOR FILLS EARTH EXCAVATION 11379 CHANNEL EXCAVATION 110 UNDERDRY EXCAVATION STRUCTURE EXCAVATION 460 Excess Rock 2705 TOTAL MATERIAL AVAILABLE FOR FILL 14654	
					TOTAL FILL INCLUDING FACTOR TOTAL MATERIAL FOR FILL 14654 BORROW Excess Excavation 14654	

PROJECT FAIRFAX PROJECT BRS NO 0229(2)S SHEET 6 OF 98 SHEETS