

EARTHWORKS



TOTAL EXCAVATION EARTH AND ROCK										ROCK EXCAVATION										EMBANKMENT										SUMMARY AND BALANCES										
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION TO STATION	TOT EXC. EARTH & ROCK	ROCK EXCAV	EMBANK	EXCESSES	ACUMULATIVE EXCESSES					
km + m	m	m ²	m ³	m ²	m ³	m ²	m ³	m ²	m ³	km + m	m	m ²	m ³	m ²	m ³	m ²	m ³	m ²	m ³	km + m	m	m ²	m ³	m ²	m ³	m ²	m ³	m ²	m ³	km + m	km + m	m ³	m ³	m ³	CUT	FILL	CUT	FILL		
VT ROUTE 9																																								
1+200	20	2	40	2	30					1+140	20	0				335															ROUTE 9									
1+220	20	2	103	2	30	0				1+160	20	0				316	6518														1+220	1+400	2,667	300	50	2758			2,758	
1+240	20	8	227	2	30	1	10			1+180	20	0				353															1+400	1+600	3,490	300	101	3522			6,280	
1+260	20	14	262	2	30	0				1+200	20	0				476															1+600	1+820	1,796	330	8	1950			8,230	
1+280	20	12	257	2	30	0				1+220	20	0				557															RAMP A									
1+300	20	14	303	2	30	0				1+240	20	0				150															1+045	1+080	269		39	223			8,453	
1+320	20	16	356	2	30	0				1+260	20	0				0															RAMP A SLIP									
1+340	20	19	366	2	30	0				1+280	20	0				0															1+000	1+047	183		180	-24			8,429	
1+360	20	18	369	2	30	0				1+300	20	0				0															RAMP D									
1+380	20	19	386	2	30	1	20			1+320	20	0				0															1+040	1+200	201		33,929	-38,818			-30389	
1+400	20	19	377	2	30	1	22			1+340	20	0				0															1+200	1+400	4,649		17,401	-15,362			-45,751	
1+420	20	19	349	2	30	1	12			1+360	20	0				0															1+400	1+572	69,691		2,180	67,183			21,432	
1+440	20	16	346	2	30	0				1+380	20	43	4215			0															RAMP D SLIP									
1+460	20	18	327	2	30	0				1+400	20	378	11805			0															1+000	1+055	154		165	-35			21,397	
1+480	20	15	331	2	30	1	20			1+420	20	782	14720			0															SB FILL AREA									
1+500	20	19	405	2	30	2	19			1+440	20	690	12545			0															7+000	7+320	0		37213	-42795			-21398	
1+520	20	22	406	2	30	0				1+460	20	565	10056			0															SWALE 6a AND 6b									
1+540	20	19	406	2	30	0	4			1+480	20	441	7747			34	338														10,365		0	10,365					-11033	
1+560	20	15	339	2	30	0				1+500	20	334	5801			50	837																							
1+580	20	13	282	2	30	1	10			1+520	20	246	4102			25	752																							
1+600	20	20	329	2	30	0	10			1+540	20	164	2565																											
1+620	20	12	241	2	30	0	4			1+560	20	92	549																											
1+640	20	12	212	2	30	0				1+572	12	0																												
1+660	20	9	182	2	30	0				RAMP D SLIP																														
1+680	20	9	169	2	30	0				1+000	20	0	77																											
1+700	20	8	150	2	30	0				1+020	20	8	77			3	26																							
1+720	20	7	148	2	30					1+040	20	0	77			11	138																							
1+740	20	8	172	2	30					1+055	20	0																												
1+760	20	10	118	2	30					SB FILL AREA																														
1+780	20	2	43	2	30					7+080	20					0																								
1+800	20	2	40	2	30					7+100	20					89																								
1+820	20	2	2	2	30					7+120	20					143																								
RAMP A																																								
1+045	4					0				7+140	20					0																								
1+060	15	6	74			1	11			7+160	20					0																								
1+080	20	13	195			2	28			7+180	20					0																								
RAMP A SLIP																																								
1+000	0									7+200	20					282	2820																							
1+020	20	9	86			5	48			7+220	20					284	5660																							
1+040	7	1	3			6	111			7+240	20					290	5742																							
1+047	0					0	22			7+260	20					281	5712																							
RAMP D																																								
1+040	0					0				7+280	20					272																								
1+080	20	6	100			6	94			7+300	20					147																								
1+100	20	0	45				225			7+320	20					145																								
1+120	20	0				219	4439																																	
	20						5545																																	

EARTH AND ROCK EXCAVATION		93464		
SOLID ROCK EXCAVATION		971		
EARTH EXCAVATION		92493		
PLANIMETERED FILL		91268		
LESS FACTORED SOLID ROCK (930 *1.30)		1262		
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		0		
NET PLANIMETERED FILL		90005		
FACTOR (0.15)		13501		
PLANIMETERED FILL INCLUDING FACTOR		103506		
MATERIALS AVAILABLE FOR FILLS				
EARTH EXCAVATION		92493		
UNCLASSIFIED EXCAVATION		1480		
UNCLASSIFIED CHANNEL EXCAVATION		4100		
TRENCH EXCAVATION UNDERDRAIN		696		
TRENCH EXCAVATION WATER & SEWER (1399*0.3)		420		
STRUCTURE EXCAVATION (2780x0.8)		2224		
COFFERDAM EXCAVATION (1380x0.8)		1088		
DRILLED SHAFT EXCAVATION (1256x0.8)		1005		
TOTAL MATERIAL AVAILABLE FOR FILL		103506		
TOTAL FILL INCLUDING FACTOR		103506		
TOTAL MATERIAL FOR FILL		103506		
BORROW		0		
EXCESS EXCAVATION				
PROJECT NAME:		BENNINGTON		
PROJECT NUMBER:		AC NH 019-1(51)		
FILE NAME:	zd307c1ew.xls	PLOT DATE:	2/26/2009	
PROJECT LEADER:	GREG EDWARDS	DRAWN BY:	STANTEC	
DESIGNED BY:	MARC FOISY	CHECKED BY:	GARY SANTY	
EARTHWORK SUMMARY SHEET EW-01		SHEET	25	OF 367

C + 0.495R - 1.15 F
C = QUANTITY OF EARTH EXCAVATION
R = QUANTITY OF ROCK EXCAVATION
F = QUANTITY OF FILL EXCAVATION