

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

# EARTHWORKS

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT				TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT				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	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES		ACUMULATIVE EXCESSES								
FT.		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.		S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.					CUT	FILL	CUT	FILL							
<b>RAMP "C"</b>										<b>RAMP "D"</b>										<b>US RTE 2</b>																				
39+00	50	174.7	166.1			0.0	0.0			61+00	50	66.4	125.7			9.0	17.3			61+50	50	69.4	130.3			9.7	10.5	CUT = 557.3 FILL = 29.4 F-FAC = 1.15					39+00	45+00	2,229.4		6.9	2,222.5		2,222.5
39+50	50	4.7	6.2			0.0	0.0			62+00	50	71.3	135.4			1.7	1.6			62+50	50	74.9	114.7			0.0	0.0	EX_C = 523.5					45+50	50+00	3,473.6		6.0	3,467.6		5,690.1
40+00	50	2.1	31.4			0.0	0.0			63+00	50	48.9	51.1			0.0	0.0			63+50	50	6.3				0.0	0.0						50+50	55+00	3,226.8		150.4	3,076.4		8,766.5
40+50	50	31.9	84.2			0.0	0.0																		55+50	60+50	1,364.9		271.6	1,093.3			9,859.8							
41+00	50	59.1	110.8			0.0	0.0																	61+00	63+50	557.3		29.4	527.9			10,387.7								
41+50	50	60.6	139.0			0.0	0.0																	71+00	74+50	1,942.0		134.8	1,807.2			12,194.9								
42+00	50	89.6	217.8			0.0	0.5	CUT = 2,229.4 FILL = 6.9 F-FAC = 1.15		71+00	50	84.3	180.2			0.0	0.0			71+50	50	110.4	238.3			0.0	0.0					21+05	24+50	1,171.7		96.4	1,075.3		13,270.3	
42+50	50	145.7	283.9			0.5	2.9	EX_C = 2,221.5		72+00	50	147.0	364.7			10.3	29.7			72+50	50	246.9	342.7			21.8	42.5	CUT = 1,942.0 FILL = 134.8 F-FAC = 1.15												
43+00	50	160.9	287.2			2.6	2.5			73+00	50	123.2	206.2			24.1	23.4			73+50	50	99.5	190.5			1.1	1.5	EX_C = 1,787.0												
43+50	50	149.2	290.7			0.1	0.5			74+00	50	106.2	222.8			0.6	8.5			74+25	7	375.0	86.9			17.8	5.0													
44+00	50	164.7	305.6			0.5	0.5			74+32	18	306.9	109.7			21.4	14.6			74+50	20.1					22.0														
44+50	50	165.4	306.5			0.0	0.0																																	
45+00	50	165.7	303.9			0.0	0.0			21+05	45	27.8	137.4			0.0	0.0			21+50	50	137.0	206.7			0.0	0.0													
45+50	50	162.6	305.6			0.0	0.0			22+00	50	86.2	154.3			0.0	11.8			22+50	50	80.4	149.8			12.7	24.7	CUT = 1,171.7 FILL = 96.4 F-FAC = 1.15												
46+00	50	167.5	314.9			0.0	0.0			23+00	50	81.4	158.1			14.0	28.1			23+50	50	89.4	174.5			16.3	22.2	EX_C = 1,060.8												
46+50	50	172.6	333.4			0.0	0.0			24+00	50	99.1	190.9			7.6	9.6			24+50	50	107.1				2.8														
47+00	50	187.5	356.6			0.0	0.0																																	
47+50	50	197.6	374.0			0.0	0.0	CUT = 3,473.6 FILL = 6.0 F-FAC = 1.15																																
48+00	50	206.3	375.6			0.0	0.0	EX_C = 3,466.7																																
48+50	50	199.3	367.7			0.0	0.0																																	
49+00	50	197.8	371.8			0.0	1.9																																	
49+50	50	203.8	370.1			2.0	4.2																																	
50+00	50	195.9	366.3			2.5	2.8																																	
50+50	50	199.7	375.0			0.5	0.8																																	
51+00	50	205.4	391.5			0.4	0.5																																	
51+50	50	217.4	373.3			0.2	0.1																																	
52+00	50	185.8	340.0			0.0	1.0	CUT = 3,226.8																																
52+50	50	181.4	332.5			1.1	10.2	FILL = 150.4 F-FAC = 1.15																																
53+00	50	177.7	323.6			9.8	16.5	EX_C = 3,053.9																																
53+50	50	171.8	296.6			8.0	8.9																																	
54+00	50	148.6	217.7			1.7	4.9																																	
54+50	50	86.6	125.5			3.6	31.3																																	
55+00	50	48.9	84.8			30.2	73.2																																	
55+50	50	42.7	63.7			48.9	105.6																																	
56+00	50	26.1	54.4			65.2	89.4																																	
56+50	50	32.6	124.4			31.4	34.0																																	
57+00	50	101.8	176.1			5.4	8.4																																	
57+50	50	88.4	154.1			3.7	5.3	CUT = 1,364.9 FILL = 271.6 F-FAC = 1.15																																
58+00	50	78.0	139.9			2.0	2.5	EX_C = 1,052.6																																
58+50	50	73.1	139.2			0.7	1.4																																	
59+00	50	77.3	133.5			0.8	1.8																																	
59+50	50	66.9	128.5			1.2	1.1																																	
60+00	50	71.8	128.1			0.0	6.9																																	
60+50	50	66.5	123.0			7.4	15.2																																	
61+00	50	66.4				9.0																																		

**REMARKS**

EXCAVATION FOR TEMPORARY WIDENING	173
EARTH AND ROCK EXCAVATION	13,966
SOLID ROCK EXCAVATION	0
EARTH EXCAVATION	14,139
FILL FOR TEMPORARY WIDENING	137
BACKFILL FOR TRENCH EXCAVATION	270
PLANIMETERED FILL	696
LESS FACTORED SOLID ROCK	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	1,268
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	14,139
CHANNEL EXCAVATION	
UNDERDRAIN EXCAVATION	545
STRUCTURE EXCAVATION	
TOTAL MATERIAL AVAILABLE FOR FILL	14,684
TOTAL FILL INCLUDING FACTOR	1,268
TOTAL MATERIAL FOR FILL	14,684
BORROW	
EXCESS EXCAVATION	13,416

PROJECT NAME: **SOUTH BURLINGTON**  
PROJECT NUMBER: **IM 089-3(37)**  
FILE NAME: **Z03A178EWQTY** PLOT DATE: **06/05/2006**  
PROJECT LEADER: **KEN UPMAL** DRAWN BY: **H.GONSALVES**  
DESIGNED BY: **E.ATKINS** CHECKED BY: **K.ISHIKURA**  
EARTHWORK SHEET #1 SHEET **10** OF **99**