EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V. C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		60+50	821.99				147				0			
						50		269						
		61+00	821.70				144							
						50		273						
		+50	821.42				151				0			
						50		277				2		
		62+00	821.13				148				2			
		+19	821.02											
		+31	820.95			50		293						
		+47	820.86											
		+50	820.85				168							
						50		297						
		63+00	820.56				153							
						50		279						
		+50	820.27	820.27	0.00		148							
		+80	820.10	820.02	-0.08								CUT	=3133
													FILL	= 43
		+89	820.05	819.91	-0.14	50		292				FILL	FAC	=1.15
		+92	820.03	819.87	-0.16							EX	CUT	=3084
		64+00	819.99	819.77	-0.22		167				0			
		+26.94	819.83	819.30	-0.53									
		+27	819.83	819.30	-0.53	49.87		332				1		
		+49.87	819.70	818.80	-0.90		193				1			
		+50	819.70	818.80	-0.90									
		+80.58	818.43	818.00	-0.43									
		+80.85 =	818.42	817.99	-0.43									
		SHERWOOD DRIVE				49.75		325				1		
		40+00												
		64+99.62	817.63	817.40	-0.23		160				0			
		65+00	817.62	817.40	-0.22									
		+24.44	816.60	816.54	-0.06									
		+25	816.58	816.52	-0.06	49.61		356				15		
		+49.23	815.57	815.57	0.00		228				16			
		+50	815.54	815.54	0.00									
		+73.97	814.54											
		+75	814.50											
		+81.88	814.21			49.45		395				16		
		+83	814.16								1			
		+98.68	813.51				203							
		66+00	813.45											
		+06.57	813.18											
		+08	813.12											
		+37.32	811.90			49.64		309				4		
		+39	811.83											
		+48.32	811.44				133				3			
		+50	811.37			50.02								
		+60.33	810.94											
		+62	810.87					255				6		
		+98.34	809.36				142				4			
		CARRIED FORWARD												
		COLUMN FOOTINGS						3952				45		

200' VC
- 0.5727%
- 4.1636%

V. C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVES	CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK CU. YDS.	ROCK EXCAVATION AREA	ROCK EXCAVATION CU. YDS.	EMBANKMENT AREA	EMBANKMENT CU. YDS.	AREA	CU. YDS.
		+98.34	809.36				142				4			
		67+00	809.29			50.01		251				7		
		+48.35	807.28				129				4			
		+49.85	807.22											
		+50	807.21											
		+51.50	807.15											
		+53.50	807.06			50.01		235				4		
					REV. 67+58.74	END PROJECT MEGC M6400(7) BEGIN APPROACH								
		+61.35	806.74											
		+63	806.67											
		+98.36	805.20				125				0			
		68+00	805.13											
		+26.37	804.03											
													CUT	= 951
		+28	803.96			50.02		246					FILL	= 11
												FILL	FAC	=1.15
		+48.38	803.11				141					EX	CUT	= 938
		+50	803.05					219						
		+98.38	801.03			50	96							
		69+00	800.96											
		+08.74 =												
					END APPROACH CONSTRUCTION									
		+10.35	800.60											
		EQ=-1.61'												
		CARRIED FORWARD												
		COLUMN FOOTINGS						951				11		

SUMMARY AND BALANCES

STATION TO STATION		TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES CUT	EXCESSES FILL	ACCUMULATIVE EXCESSES CUT	ACCUMULATIVE EXCESSES FILL
12+00	17+00	1607		265	1302		1302	
17+00	22+00	1825		284	1498		2800	
22+00	27+00	2912		65	2837		5637	
27+00	32+00	2460		122	2320		7957	
32+00	37+00	2264		48	2209		10166	
37+00	42+00	2221		107	2098		12264	
42+00	47+00	3019		37	2976		15240	
47+00	52+00	2894		129	2746		17986	
52+00	57+00	2761	39	50	2723		20709	
57+00	62+00	2599	131	56	2600		23309	
62+00	67+00	3133		43	3084		26393	
67+00	69+10.35	951		11	938		27331	
	SUBTOTAL	28646	170	1217				
LESS REMOVING BIT.								
CONCRETE	PAVEMENT	2906	(BITUMINOUS PAVEMENT REMOVAL TO BE PAID AS					
			EXCAVATION OF SURFACES AND PAVEMENT.)					
MAINLINE	TOTALS	25740	170	1217				
	DRIVES	1398*		167				
LESS REMOVING BIT.								
CONCRETE	PAVEMENT	250	(BITUMINOUS PAVEMENT REMOVAL TO BE PAID AS					
			EXCAVATION OF SURFACES AND PAVEMENT.)					
DRIVE	TOTALS	1148		167	956		28287	
APPROACHES		758			758		29045	
	WALKS	4		48		51	28994	
	TOTAL	27650	170	1432				

* THE CUT AND FILL QUANTITIES FOR DRIVES CONTAIN 220 C.Y. OF EARTH EXCAVATION AND 21 C.Y. OF FILL MATERIAL. THESE QUANTITIES ARE FOR THE DRIVE AT 49+60 RT. AND SHALL BE NON-GOVERNMENT PARTICIPATION.

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION TOTAL CY	EXCAVATION ROCK CY	EMBANKMENT CY
1	1	1513		241
	2	1462		265
	3	3369		108
2	1	2196		118
	2	2353		44
	3	2007		74
3	1	2693		78
	2	3609		129
	3	4541	170	104
4	1	3952		45
	2	951		11
COLUMN SUBTOTAL		28646	170	1217
		2906	LESS REMOVING BIT. CON. PAVE.	
M.L. TOTALS		25740	170	1217
DRIVES		1398*		167
		250	LESS REMOVING BIT. CON. PAVE.	
DRIVE TOTALS		1148		167
APPROACHES		758		
WALKS		4		48
TOTALS		27650	170	1432

REMARKS

EARTH AND ROCK EXCAVATION	27650
SOLID ROCK EXCAVATION	170
EARTH EXCAVATION	27480
PLANIMETERED FILL	1432
LESS FACTORED SOLID ROCK (170 X 1.3)	221
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	1211
FACTOR (0.15)	182
PLANIMETERED FILL INCLUDING FACTOR	1393
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	27480
CHANNEL EXCAVATION	
UNDERDRAIN EXCAVATION (60% X 5415)	3249
STRUCTURE EXCAVATION (40% X 1500)	600
TOTAL MATERIAL AVAILABLE FOR FILL	31329
TOTAL FILL INCLUDING FACTOR	1393
TOTAL MATERIAL FOR FILL	31329
BORROW	
EXCESS EXCAVATION	29936

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PROJECT NAME MONTPELIER
PROJECT NUMBER MEGC M 6400(7) 76B033ES.PRF