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.
								TOWN HIGHWAY 12						
	+6.3000 %	REVISED ML												
		207+98.47	=											
		TH 12												
		19+93.35	525.00										C	11331
		20+05.35	525.76										F	527
													R	158
X	X	+13.35	526.26	526.26	0.00						0		F-FAC	1.15
						16.66						39	R-FAC	0.495
		+30.01	526.61	526.73	+0.12		0				125		EX-C	10803
						20.10		25				125		
		+34.01	526.69	526.88	+0.19									
	+2.1000 %													
		+43.05	526.88	527.26	+0.38									
		+50	527.03	527.62	+0.59									
		+50.11	527.03	527.62	+0.59		66				210			
100' VC		+63.35	527.31	528.40	+1.09									
		+71.61	528.20	528.96	+0.76									
						52.84		262				205		
		+94.01	530.63	530.79	+0.16									
		+95.11	530.75	530.90	+0.15									
		+98.45	531.11	531.21	+0.10									
		21+00	531.28	531.36	+0.08									
		+02.95	531.59	531.64	+0.05		202				0			
X	+10.8197 %	+13.35	532.72	532.72	0.00									
						56.72		2035						
		+50	536.69											
		+59.67	537.73				1735		0					
						36.75		2656		82				
		+96.42	541.71				2167		121					
		22+00	542.10			34.08		2251		76				
		+30.50	545.40				1400		0		0			
		+50	547.51			51.66		1918				24		
		+82.16	550.98				605				25			
		23+00	552.91											
						71.65		1042				80		
		+50	558.32											
		+53.81	558.74				180				35			
		24+00	563.73			63.60		452				48		
		+17.41	565.62				204				6			
		+50	569.14			57.84		404				6		
		+75.25	571.88				173				0			
		25+00	574.55			54.75		226						
X		+30	577.80				50							
	SPLINE					49.69		60						
		+79.69	582.72				15							
							BUTT							
						CARRIED FORWARD								
DEI32ES						COLUMN FOOTINGS		11331		158		527		

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.
								TOWN HIGHWAY 2						
	+6.3000 %	REVISED ML												
		209+81.36	=											
		TH 2												
		29+92.68	521.18											
X		30+12.68	522.44											
		+12.70	522.44	522.44	0.00		0		0		0		C	7141
						12.3		26		5		3	F	4663
		+25	522.70	522.68	-0.02		115		21		15		R	2830
						25		253		10		7	F-FAC.	1.15
		+50	523.22	523.02	-0.20		432		0		1		R-FAC.	0.495
	+2.0958 %					25		381				9	EX-C	3179
		+75	523.75	523.18	-0.57		391				18			
						25		239				20		
X	174.60' VC	31+00	524.27	523.15	-1.12		125				26			
						25		99				12		
		+25	523.51	522.94	-0.57		88				0			
						25		189				7		
		+50	522.76	522.56	-0.20		320		0		15			
		+65	522.30	522.23	-0.07									
						50		949		468		14		
	-3.0248 %	+87.30	521.63	521.63	0.00									
		32+00	521.25	521.26	+0.01		705		505		0			
						50		1542		1199				
		+50	519.73	519.93	+0.20		960		790					
		+75	518.98	519.36	+0.38	50		1671		940				
	312.70' VC	33+00	518.22	518.85	+0.63		845		225		0			
X		+43.65	516.90	518.11	+1.21	50		1070		208		34		
		+50	516.91	518.03	+1.12		311		0		37			
						50		288				282		
	+0.0780 %	34+00	516.94	517.44	+0.50		0				268			
		+32	516.97	517.20	+0.23	50		0				739		
		+50	516.98	517.10	+0.12		0				530			
						50		0				1002		
X		35+00	517.02	517.02	0.00		0				552			
						50		18				876		
	200' VC	+50	517.06	516.94	-0.12		19				394			
						50		66				530		
X		36+00	517.10	516.63	-0.47		52				178			
						50		138				378		
		+50	516.20	516.08	-0.12		97				230			
						50		120				481		
X	-1.8000 %	37+00	515.30	515.30	0.00		33				290			
						50		61				269		
		+50	514.40				33				0			
						25		31				0		
		+75	513.95				33				0			
							BUTT							
						CARRIED FORWARD								
						COLUMN FOOTINGS		7141		2830		4663		

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
161+00	165+00	99	0	0	99		99	
165+00	170+00	3416	0	60	3347		3446	
170+00	175+00	849	0	1563		948	2498	
175+00	180+00	38	0	24844		28533		26035
180+00	185+00	158	0	28760		32916		58951
185+00	190+00	3201	0	177	2997			55954
190+00	195+00	2107	0	749	1246			54708
195+00	200+00	4574	60	1780	2557			52151
200+00	205+00	38308	4180	1028	39195			12956
205+00	210+03	4342	63	5038		1421		14377
MAINLINE								
SUB-TOTALS		57092	4303	63999				
TH 66		98	0	1862		2043		16420
TH 12		11331	158	527	10803			5617
TH 2		7141	2830	4663	3179			2438
DRIVES		1285	0	11684		12152		14590
OVERBREAKAGE(ML&TH2)		280	280	0	419			14171
REMOVAL OF PAVEMENT O'-2' BELOW SUBGRADE		166	0	166		25		14196
CUT TO FILL TRANSITIONS		248	0	248		37		14233
FILL FOR EXCAV. SURF. & PAVEMENTS		0	0	470		540		14773
FROM DRAIN. SHEET: EXCAV. SPEC. DITCH		1076	0	0	1076			13697
BRIDGE 300 SERIES(RET. WALL)		2630	0	0	2630			11067
TOTALS		•81347	7571	•83619				

•NOTE: CUT QUANTITIES INCLUDE DESIGNED SAND BORROW
FILL QUANTITIES EXCLUDE DESIGNED SAND BORROW

SHEET NO.	COL. NO.	SUMMARY BY COLUMNS EXCAVATION TOTAL CY	EXCAVATION ROCK CY	EMBANKMENT CY
	1	4364	0	1623
	2	2706	0	53730
	3	6221	0	800
	1	39459	4240	2808
	2	4342	63	5038
MAINLINE				
SUB-TOTALS		57092	4303	63999
TOWN HIGHWAYS 66, 12, AND 2				
	3	98	0	1862
	1	11331	158	527
	2	7141	2830	4663
DRIVES		1285	0	11684
OVERBREAKAGE		280	280	0
REMOVAL OF PAVEMENT O'-2' BELOW SUBGRADE		166	0	166
CUT TO FILL TRANSITIONS		248	0	248
FILL FOR EXCAV. SURF. &PAVEMT'S		0	0	470
FROM DR. SHEET EXCAV. SPEC. DITCHES		1076	0	0
BRIDGE 300 (RET. WALL)		2630	0	0
TOTALS		81347	7571	83619

REMARKS

EARTH AND ROCK EXCAVATION	81347
SOLID ROCK EXCAVATION	7571
EARTH EXCAVATION	73776
PLANIMETERED FILL	83619
LESS [redacted] SOLID ROCK FILL	7571
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	76048
FACTOR 0.15	11407
PLANIMETERED FILL INCLUDING FACTOR	87455
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	73776
CHANNEL EXCAVATION 40% X 75	30
UNDERDRAIN EXCAVATION 60% X 1971	1183
STRUCTURE EXCAVATION (60%X1400+100%X9300)	10140
TOTAL MATERIAL AVAILABLE FOR FILL	85129
TOTAL FILL INCLUDING FACTOR	87455
TOTAL MATERIAL FOR FILL	85129
BORROW	2326
EXCESS EXCAVATION	

design/78el32/del32.dgn

PROJECT NAME MORETOWN
PROJECT NUMBER RS 0167(9)

16-FEB-2000
SHEET 18 OF 243 SHEETS