EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

V. C.	% GRADE	STATION	GRADES: ELEVATION ON TANGENT	GRADES: 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.		
		VT ROUTE 15												
		100+36					11		0		0			
						14		12		0		0		
		100+50					34		0		0			
						0		0		0		0		
		100+50					3		31		0			
						50		71		56		0		
		101+00					74		30		0			
						37.5		134		42		5		
		101+37.50					119		30		7			
						12.5		55		14		3		
		101+50					119		30		7			
						50		244		54		33		
		102+00					144		28		29		C	1067
						44		238		45		94	F	285
		102+44					148		27		86		FFAC	1.15
						6		34		6		19		
		102+50					158		26		84		EXC	740
						44		279		41		131		
		102+94					185		24		77			
		BRIDGE												
		103+72					306		20		2			
						28		289		25		2		
		104+00					252		29		2			
						50		397		64		3		
		104+50					177		40		1			
						50		356		74		1		
		105+00					207		40		0			
						12.5		96		19		0		
		105+12.5					206		41		0			
						37.5		219		58		2		
		105+50					109		42		3		C	1458
						50		101		81		3	F	11
		106+00					0		45		0		FFAC	1.15
													EXC	1445

*** VOLUME CALCULATED FOR ROCK EXCAVATION, IS ACTUALLY PORTLAND CEMENT CONCRETE UNDER EXISTING PAVEMENT ON VT ROUTE 15. THIS VOLUME OF CONCRETE IS ASSUMED TO BE UNSUITABLE FOR FILL MATERIAL.

CARRIED FORWARD														
COLUMN FOOTINGS				2525		579		296						

V. C.	% GRADE	STATION	GRADES: ELEVATION ON TANGENT	GRADES: 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.		
		TH 37												
		30+29					0				0			
						14		10				0		
		30+43					38				0		C	59
						7		9				0	F	0
		30+50					32				0		FFAC	1.15
						21		25				0		
		30+71					31				0		EXC	59
						4		5				0		
		30+75					31				0			
						10		10				0		
		30+85					24				0			
		DRIVES						134				0	C	134
													F	0
													FFAC	1.15
													EXC	134
		UNDERDRAIN						202				0	C	202
													F	0
													FFAC	1.15
													EXC	202
		TRENCH EXCAVATION FOR DITCHES						60				0	C	60
													F	0
													FFAC	1.15
													EXC	60

CARRIED FORWARD				2525		579		296						
COLUMN FOOTINGS				2980		579		266						

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
100+25	102+94	1067		285	740			
							740	
103+72	106+50	1458		11	1445			
							2185	
MAINLINE TOTAL		2525		296				
							2185	
TH 37		59		0	59			
							2244	
DRIVES		134		0	134			
							2378	
SUBTOTAL		2718		296				
							2378	
UNDERDRAIN		202		0	202			
							2580	
TRENCH EXCAVATION FOR DITCHES		60		0	60			
							2640	
COFFERDAM EXCAVATION		408		0	408			
							3048	
PROJECT TOTAL		3388		296			3048	

SUMMARY BY COLUMNS

SHEET NO.	COL. NO.	EXCAVATION: TOTAL CY	EXCAVATION: ROCK CY	EMBANKMENT: CY		

REMARKS

EARTH AND ROCK EXCAVATION	2718
SOLID ROCK EXCAVATION	
EARTH EXCAVATION	2718
PLANIMETERED FILL	296
LESS FACTORED SOLID ROCK (1.30)	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	296
FACTOR (0.15)	44
PLANIMETERED FILL INCLUDING FACTOR	340
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	2718
CHANNEL EXCAVATION	–
UNDERDRAIN EXCAVATION (337 x 60%)	202
STRUCTURE EXCAVATION	–
TRENCH EXCAVATION FOR DITCHES	60
PORTLAND CEMENT CONCRETE (579 x 0%) (579)	0
COFFERDAM EXCAVATION (2040 x 20%)	408
TOTAL MATERIAL AVAILABLE FOR FILL	3388
TOTAL FILL INCLUDING FACTOR	340
TOTAL MATERIAL FOR FILL	3388
BORROW	–
EXCESS EXCAVATION	3048

PROJECT NAME JOHNSON
PROJECT NUMBER BRF 030-2(17)S