EARTHWORK

V.C.	% GRD	STATION	ELEVATION ON TAN.	ELEVATION ON V.C.	CORR. V.C.	DIST.	COMMON EXCAVATION AREA	COMMON EXCAVATION CU. YDS.	FILL AREA	FILL CU. YDS.	SUBBASE OF GRAVEL AREA	SUBBASE OF GRAVEL CU. YDS.	AGGREGATE SURFACE COURSE AREA	AGGREGATE SURFACE COURSE CU. YDS.
		50+00	1169.20				0							
						4								
	0.0%	50+04	1169.20					25			32		14	
						16						19		8
X		50+20	1169.20	1169.20			68				32		14	
		50+25	1169.20	1169.19	-.01	14.5		18				17		8
		50+34.5	1169.20	1169.09	-.11		0		0		32		14	
X	L=40 K=9	50+40	1169.20	1168.97	-.21	15.5				18		18		8
		50+50	1168.78	1168.73	-.05				64		32		14	
X		50+60	1168.36	1168.36		36				149		43		19
		50+80	1167.27						160		32		14	
		50+99	1166.72			13			546	183		17		7
		51+00	1166.68			2			390		32		14	
		51+01	1166.64							1062		58		25
		51+49	1164.58			48			780		32		14	
		51+50	1164.62			50						59		26
	-4.2045%	51+99	1162.52	BEGIN BRIDGE							32		14	
						01								
		52+00	1162.47											
		52+50	1160.37			58								
		52+58	1160.03	END BRIDGE							32		14	
X		52+90	1158.69	1158.69		42						50		22
		53+00	1158.27	1158.28	+.01						32		14	
						08						10		4
		53+08	1157.93	1157.97	+.04				103		32		14	
						35						41		18
	L=160 K=46	53+43	1156.46	1156.76	+.30					96	32		14	
						07						8		4
		53+50	1156.17	1156.56	+.39				20		32		14	
X		53+70	1155.33	1156.02	+.69	50				94		59		26
		54+00	1155.10	1155.37	+.27				82		32		14	
						40				119		47		21
		54+40	1154.80	1154.81	+.01		0		78		32		14	
						10		15		32		12		5
X		54+50	1154.73	1154.73			80		94		32		14	
						4		13		15		5		2
		54+54	1154.70				92		106		32		14	
						46		124		90		55		24
		55+00	1154.35				53		0		32		14	
	-0.75%					50		82		5		59		26
		55+50	1153.98				35		5		32		14	
						50		32		5		59		26
		56+00	1153.60				0		0		32		14	
								309		1868		636		279
				NEW DRIVE						57				33
				COUNTRY STORE & PARKING LOT										10
				ROUNDING				1		1		4		3
				TOTAL (CY)				310		2260		640		325

CHANNEL LINE		UNCLASSIFIED CHANNEL EXCAV AREA	UNCLASSIFIED CHANNEL EXCAV CU. YDS.
4+50		27	
	50		192
5+0		126	
	50		323
5+50		223	
	25		201
5+75		211	
	25		186
6+00		191	
	10		72
6+10		195	
	10		93
6+20		304	
	10		172
6+30		626	
	10		223
6+40		576	
	18		387
6+58		584	
	12		182
6+70		236	
	10		91
6+80		256	
	10		63
6+90		86	
	10		24
7+00		45	
	25		137
7+25		251	
	25		157
7+50		88	
	30		49
7+80		0	
			2507
UNCLASSIFIED CHANNEL EXCAVATION FROM ROADWAY SECTION			603
			3105
	CALL 3110 CY		

PLANIMETERED FILL		1930 CY
FACTORED FILL	(x1.15)	2220 CY
MATERIAL AVAILABLE FOR FILL		
COMMON EXCAVATION (10%)		310 CY
UNCLASS. CHANNEL EXCAV (30%) x 3110 =		933 CY
STRUCTURE EXCAVATION (60%) x 650 =		390 CY
		1633 CY
TOTAL FILL AVAILABLE	1633	CY
TOTAL FILL NEEDED	2220	CY
EXTRA FILL NEEDED	587	CY
ROUNDING	3	CY
EARTH BORROW	590	CY

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

QUANTITY BREAKDOWN

NO.	ITEM	UNIT	SUPER-STRUCTURE	ABUTMENT NO 1	ABUTMENT NO. 2	CHANNEL	ROADWAY	UPSTREAM BERMS	TOTAL	FINAL
203.15	COMMON EXCAVATION	CY					310		310	
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY				2500	610		3110	
203.30	EARTH BORROW	CY					590		590	
203.32	GRANULAR BORROW	CY		985	195		300		1480	
204.25	STRUCTURE EXCAVATION	CY		350	300				650	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY		300	230				530	
301.15	SUBBASE OF GRAVEL	CY					640		640	
401.10	AGGREGATE SURFACE COURSE	CY					325		325	
501.22	CONCRETE, CLASS A	CY	50						50	
501.25	CONCRETE, CLASS B	CY		115	95		10		220	
506.50	STRUCTURAL STEEL, ROLLED BEAM	LBS	27,500						27,500	
507.15	REINFORCING STEEL	LBS		11500	9500		200		21200	
507.17	EPOXY COATED REINFORCING STEEL	LBS	10750						10750	
508.15	SHEAR CONNECTORS (616 - 7/8 x 6')	LS	1						1	
514.10	WATER REPELLENT	GAL	16	5	5				26	
525.43	BRIDGE RAILING - HDSB1 (FASCIA MOUNTED) (HMDRM)	LF	125						125	
529.15	REMOVAL OF STRUCTURE	EA	1				1		2	
531.10	BEARING DEVICE ASSEMBLY	EA		4	4				8	
601.0057	48" CSP 0.109 (2 2/3 x 1/2)	LF					147		147	
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I (NABI)	HR					1		1	
608.37	TRUCK RENTAL (NABI)	HR					1		1	
613.11	STONE FILL, TYPE II	CY				1740			1740	
613.13	STONE FILL, TYPE IV	CY				1220		160	1380	
620.70	SNOW FENCE (MODIFIED)	LF				1200			1200	
621.21	HEAVY DUTY STEEL BEAM GUARD RAIL	LF					823		823	
621.60	ANCHOR FOR STEEL BEAM RAIL	EA					6		6	
631.10	FIELD OFFICE, ENGINEERS	LS							1	
631.16	TESTING EQUIPMENT - CONCRETE	LS							1	
635.10	MOBILIZATION	LS							1	
649.10	GEOTEXTILE FABRICS FOR FILTERS	SY				1280			1280	
651.15	SEED	LB					30		30	
651.18	FERTILIZER	LB					250		250	
651.20	AGRICULTURAL LIMESTONE	TON					1		1	
661.25	HAY MULCH	TON					1		1	
651.40	GRUBBING MATERIAL	SY				1250			1250	

BRIDGE (S) AT STATION (S) 52+28
LOCATION (S) TH3 OVER CLYDE RIVER

Prepared by: A. CHURCH
Checked by: R.P. GENORON
SUPERVISOR: R.P. GENORON

PROJECT NO. BRZ 1449(14)
BR ___ OF ___
SHEET NO. 2 OF 33