EARTHWORKS

% GDE	VERT CUR	STATION	GRADES ELEVATION ON TAN.	ON V.C.	CORR. V.C.	DIST.	COMMON EXC. AREA	COMMON EXC. VOLUME	GRAVEL AREA	GRAVEL VOLUME	SAND AREA	SAND VOLUME
		BEGIN APPROACH										
		2+000	365.440	365.440	0.000		0.89		0.00		0.00	
						5.00		3.54		2.28		0.00
		2+005	365.287	365.287	0.000		0.53		0.91		0.00	
		BEGIN PROJECT				15.00		41.39		25.88		20.15
−4.8910%	PVC1	2+020	364.588	364.588	0.000		5.00		2.54		2.69	
						20.00		86.38		53.20		59.73
−4.8909%		2+040	363.610	363.885	0.275		3.63		2.78		3.29	
PVI1						15.00		70.02		45.68		48.50
		2+055	363.662	363.718	0.096		5.70		3.31		3.18	
						1.00		8.05		5.54		3.14
		2+056	363.674	363.717	0.043		10.40		7.76		3.11	
						4.00		41.42		31.00		12.39
		2+060	363.720	363.731	0.011		10.31		7.74		3.09	
	PVT1	BEGIN BRIDGE				11.00		105.24		74.76		29.39
		2+071	363.846	363.846	0.000		8.82		5.85		2.26	
1.1523%												
		END BRIDGE										
		2+089	364.054	364.054	0.000		4.58		4.78		1.73	
						11.00		159.13		74.56		29.74
		2+100	364.180	364.180	0.000		24.36		8.78		3.68	
						4.00		101.95		35.89		14.55
		2+104	364.226	364.226	0.000		26.62		9.17		3.59	
						1.00		23.89		6.33		3.70
		2+105	364.238	364.238	0.000		21.17		9.17		3.6	
	PVC2					15.00		266.30		46.43		48.98
		2+120	364.411	364.367	−0.044		14.34		2.69		2.72	
PVI2						20.00		263.71		53.51		54.61
		2+140	364.293	364.249	−0.044		12.03		2.66		2.74	
		END PROJECT				10.00		111.48		26.75		27.64
−2.3300%	PVT2	2+150	364.060	364.060	0.000		10.27		2.69		2.79	
						10.00		67.28		25.29		26.28
−2.3000%		2+160	363.830	363.830	0.000		3.19		2.37		2.47	
						5.00		8.98		6.83		6.17
−2.1000%		2+165	363.717	363.717	0.000		0.40		0.37		0.00	
		END APPROACH				15.00		6.14		2.74		0.00
+1.2000%		2+180	363.740	363.740	0.000		0.42		0.00		0.00	
					SUBTOTOAL =			1364.99		562.01		383.32
					SUBTOTOAL =			1364.99		562.01		383.32
					ROUNDED TOTAL=			1370		570		390

EARTHWORK SUMMARY

MATERIAL REQUIRED:	PLANIMETERED FILL =	80
	FILL FACTOR (0.15) =	12
	TOTAL MATERIAL REQUIRED =	92
MATERIAL AVAILABLE:	COMMON EXCAVATION =	1370
	COFFERDAM EXC., EARTH X 30% =	150
	UNCLASS. CHANNEL EXC. X 30% =	30
	TOTAL MATERIAL AVAILABLE =	1550
BORROW OR WASTE:	MATERIAL AVAILABLE =	1550
	MATERIAL REQUIRED =	92
	WASTE =	1458

QUANTITY SHEET

ITEM NO.	ITEM	UNIT	BRIDGE QUANTITY BREAKDOWN SUPERSTR.	ABUT. 1	ABUT. 2	CHANNEL	BRIDGE	ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	ROUNDING	TOTAL	FINAL
201.10	CLEARING AND GRUBBING, INCLUDING	LS						1				1	
	INDIVIDUAL TREES & STUMPS												
203.15	COMMON EXCAVATION	CM						1370				1370	
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CM				177	177					177	
203.31	SAND BORROW	CM						390				390	
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	CM						1				1	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CM		351	195		546					546	
208.30	COFFERDAM EXCAVATION, EARTH	CM		411	255		666					666	
208.35	COFFERDAM EXCAVATION, ROCK	CM		40	30		70					70	
208.40	COFFERDAM (STA 2+071.607)	LS		1			1					1	
208.40	COFFERDAM (STA 2+089.907)	LS			1		1					1	
210.10	COLD PLANNING, BITUMINOUS PAVEMENT	SM						100				100	
301.15	SUBBASE OF GRAVEL	CM						570				570	
401.10	AGGREGATE SURFACE COURSE	CM						140				140	
406.25	BITUMINOUS CONCRETE PAVEMENT	T	21				21	244				265	
406.50	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	LU						1				1	
501.34	CONCRETE, HIGH PERFORMANCE CLASS B	CM		97	50		147					147	
507.15	REINFORCING STEEL	KG		6820	3290		10110					10110	
507.16	DRILLING AND GROUTING DOWELS	M		14	27		41					41	
514.10	WATER REPELLENT, SILANE	L	14	8	8		30					30	
519.20	SHEET MEMBRANE WATERPROOFING, TORCH APPLIED	SM	114				114					114	
524.13	JOINT SEALER, COLD POURED	M	8.5				8.5					8.5	
528.12	TEMPORARY PEDESTRIAN BRIDGE (34.5 SM-EST)	LS	1				1					1	
529.20	PARTIAL REMOVAL OF STRUCTURE	EACH	1				1					1	
531.11	BEARING DEVICE ASSEMBLY, ELASTOMERIC PAD	EACH	8				8					8	
613.10	STONE FILL, TYPE I	CM						50				50	
613.11	STONE FILL, TYPE II	CM				363	363					363	
621.56	ENERGY ABSORPTION ATTENUATOR	EACH						3				3	
621.60	ANCHOR FOR STEEL BEAM RAIL	EACH						4				4	
621.90	TEMPORARY TRAFFIC BARRIER	M						60				60	
630.15	FLAGGERS	HR						2000				2000	
631.10	FIELD OFFICE, ENGINEERS	LS								1		1	
631.16	TESTING EQUIPMENT, CONCRETE	LS								1		1	
631.17	TESTING EQUIPMENT, BITUMINOUS	LS								1		1	
631.25	FIELD OFFICE TELEPHONE (N.A.B.I.)	LU								1		1	
635.11	MOBILIZATION/DEMOBILIZATION	LS						1				1	
641.10	TRAFFIC CONTROL	LS						1				1	
641.17	PORTABLE CHANGEABLE MESSAGE SIGN RENTAL	DAY						70				70	
649.31	GEOTEXTILE UNDER STONE FILL	SM				693	693	160				853	
649.515	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	SM							330			330	
649.61	GEOTEXTILE FOR FILTER CURTAIN	SM							60			60	
651.15	SEED	KG							10			10	
651.17	SEED, WINTER RYE	KG							5			5	
651.18	FERTILIZER	KG							80			80	
651.20	AGRICULTURAL LIMESTONE	T							1			1	
651.25	HAY MULCH	T							1			1	
651.35	TOPSOIL	CM							35			35	
651.40	GRUBBING MATERIAL	SM							240			240	
652.10	EPSC PLAN	LS							1			1	
652.20	MONITORING EPSC PLAN	HR							10			10	
652.30	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	LU							1			1	
653.20	TEMPORARY EROSION MATTING	SM							700			700	
653.25	TEMPORARY STONE CHECK DAM, TYPE I	CM							10			10	
653.50	BARRIER FENCE	M							400			400	
675.50	REMOVING SIGNS	EACH						3				3	
675.60	ERECTING SALVAGED SIGNS	EACH						3				3	
675.61	SETTING SALVAGED POSTS	EACH						3				3	
678.40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH						1				1	
900.608	SPECIAL PROVISION (GROUT BAGS)	CM				1	1					1	
900.640	SPECIAL PROVISION (HD STEEL BEAM GUARDRAIL, WEATHERING) (WOOD POSTS)	M						142				142	
900.640	SPECIAL PROVISION (BRIDGE RAILING, WEATHERING HD STEEL BEAM/FASCIA MOUNTED)	M	42				42					42	
900.675	SPECIAL PROVISION (PRECAST PRECOMPRESSED CONCRETE/STEEL COMPOSITE SUPERSTRUCTURE)	SM	129				129					129	

SEE REVISED SHEET

McFarland Johnson

BRIDGE(S) AT STATION(S) TH 18 OVER SOUTH BRANCH
LOCATION(S) MIDDLEBURY RIVER

PREPARED BY: W J GAYNOR
CHECKED BY: Y I LIU
SUPERVISOR: R L JOY

PROJECT: RIPTON
BR OF
PROJECT NO: FH 010-1(2)
SHEET NO: 5 OF 26

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