ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

STA.	STA.	POSITION	ASKEW	TYPE IN/OUT	DITCH IN	DITCH OUT	PIPE ARCH S IN	PIPE ARCH R IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP	PCCSP EI TH	PIPE ELBOW NO–DIA	ES EA	CB	EXCAV DEPTH DI	CONC CL B CY	REIN STEEL LBS	DI GRATE TYPE	CHAN ELEV	CRM CY	TR EXCAV EARTH CY	TR EXCAV ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUC EXCAV CY	GRAN BKF STRUC CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MRKR POSTS LT	MRKR POSTS RT	REMARKS
30+50	30+24	LT/RT																								6	5											REMOVE EXISTING DI & PIPE
30+75	30+50	LT																								8												REMOVE EXISTING PIPE
30+75		LT		–/DI						12	4	.064																										CONNECT TO EXISTING PIPE
30+75	100+75	LT		DI/DI						18	36	.064	.060								5.0	3.03	257	D		34					4		6				
100+75	101+28	LT		DI/DI						18	58			III		SL					4.4	3.20	237	2–D		57					7						
100+97.5	101+86	RT																								84	11											REMOVE EXISTING DI & PLUG PIPE
101+15	101+60	LT																								28												CONSTRUCT SPECIAL DITCH. GRADE TO DRAIN
101+17	100+97.5	LT/RT																								16	6											REMOVE EXISTING DI & PIPE
101+22	101+28	RT/LT		DI/DI						24	48			III		SL					7.0	3.85	303	D		40					7		5				
101+22	102+50	RT		DI/DI						24	122			III		SL					7.5	4.11	323	D		93					18						
102+25	102+85	LT																								32												CONSTRUCT SPECIAL DITCH. GRADE TO DRAIN
102+50	102+65	RT		DI/SF						24	36	.064	.060								10	5.38	418	D		34					5			3	II		1	CONSTRUCT 4'X8' STONE FILL, TYPE II, @ OUTLET
103+60	103+93	RT		CB/SF						24	54	.064	.060							1						84					7							
103+76	104+13	LT																								4	7											REMOVE EXISTING DI & PIPE
103+93	104+58	RT		DI/CB						24	64			III		SL					8.5	4.58	361	D		56					9							W/ CAST IRON GRATE TYPE D
104+13		LT																									8											REMOVE JUNCTION BOX
104+13	106+47	LT																								83	16											
104+58	104+58	RT/LT		DI/DI						24	32			III		SL					8.0	4.36	342	D		28					5							
104+58	105+47	RT		DI/DI						18	88			III		SL					6.0	3.34	265	D		35					11							
104+58	106+45.5	LT		DI/DI						24	188			III		SL					7.0	4.97	365	D		187					27							PLUG EXISTING 8" OUTLET PIPE
105+47		RT																									9											REMOVE EXISTING DI
105+76		RT																									13											REMOVE EXISTING DI
106+45.5		LT		–/DI						18	4			III																								CONNECT TO EXISTING PIPE

GUARDRAIL ITEMS

STA.	STA.	POSITION	621.15	621.20	621.505	621.60	621.74	621.74 ALUMINUM APPROACH RAILING (MOD.)	621.80 REMOVAL AND DISPOSAL OF GUARDRAIL	621.81	REMARKS
101+67	103+05	RT							139		
101+72	102+89	RT						114			WINGWALL 2
102+50	103+00	LT						51			WINGWALL 1
102+84	103+08	LT							37		
102+88	103+08	RT							20		
103+66	104+16	RT						51			WINGWALL 4
103+77	104+00	LT						51			WINGWALL 3
103+80	103+96	RT							16		
103+80	104+49	RT							71		
103+82	103+94	LT							25		

TOTALS																															
			18	4			III																								
			18	36	.064	.060																									
			24	90	.064	.060																									
			12	4	.064		III		SL			1		36.82	2871	10–D		909	75			100		II	3	II	1			267	308	
			18	146			III		SL																						
			24	454																											

UNDERDRAIN

STA.	STA.	POSITION	TYPE	D IN	L FT	TR EXCAV EARTH CY	TR EXCAV ROCK CY	GRAN BKF CY	FB		MKR PST
100+75	101+22	RT	U	6	50	15			1		
100+75	102+60	LT	U	6	194	79			1		
101+22	101+80	RT	U	6	60	19			1		
103+86	104+58	RT	U	6	75	26			1		
104+09	104+58	LT	U	6	50	18			1		
104+58	105+75	RT	U	6	120	55			1		
104+58	105+75	LT	U	6	120	60			1		
102+60	102+95	LT	C	6	45	9					1
ESTIMATED UNDERDRAIN			U	6	100	37			1		1
			C	6	50	19					
TOTALS			U	6	769	309			8		1
			C	6	95	28					1

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