STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		UNDERDRAIN		PIPE		ALLOWABLE OPTIONS					PIPE ELBOW	ES	CB	Reference	DEPTH OF	CONC CLASS B	REINF STEEL	DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN EXFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS			NUMBER OF PIPE	REMARKS
			NO. DEG.	INLET	OUTLET	IN	OUT	D IN	L FT	D IN	L FT	RCP (A)	PCCSP (B)	CAAP (C)	CPEP (D)	CSP (E)	NO. DEG	EA	EA		FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	CY	CY	TYPE	LT EA	RT EA			
NEW PIPES																																										
10+52	12+00	LT								18	148																															
REV 11+84	REV 12+18	RT/RT								18	~~36~~ 34	X	X	X	X						6.5	1.77 ~~3.2~~	278	E			87.7 ~~54~~					43.9 ~~30~~								3	WITH 4' x 4' D.I. AT INLET
REV 12+18	SUR 12+66	RT/RT								18	~~42~~ 40				X	X					6.5	1.77 ~~3.2~~	278	E			18.5 ~~54~~	27.36				24 ~~35~~			7.4 ~~1~~	1				4	WITH 4' x 4' D.I. AT INLET AND 6' x 3' STONE PAD AT OUTLET
SUR 14+~~12~~ 25	SUR 15+~~17~~	LT/LT								18	~~92~~ 76				X	X					7.0	2.08 ~~3.5~~	308	E			26.15 ~~115~~					20.67 ~~72.5~~			1	1				5	WITH 4' x 4' D.I. AT INLET AND 8' x 3' STONE PAD AT OUTLET
SUR 18+17	SUR 16+17	LT/RT								18	~~38~~ 18	X	X	X	X						6.75 ~~7.0~~	2.08 ~~3.5~~	308	E			87.0 ~~30~~					39.61 ~~13.3~~			96	IV				8	WITH 4' x 4' D.I. AT INLET
REV 'B' 0+64	REV 'B' 0+74	LT/RT								18	34	X	X	X	X						7.0 ~~6.5~~	2.47 ~~3.2~~	347 ~~278~~	E			19.76 ~~37~~					10.05 ~~18.3~~			~~1~~	~~1~~				16	WITH 4' x 4' D.I. AT INLET AND 6' x 3' STONE PAD AT OUTLET
REV 12+40	REV 'B' 0+64	LT/LT								18	46	X	X	X	X						8.0	2.47 ~~3.9~~	347	E			50.55 ~~112~~					17.81 ~~23.3~~			1.5	1				18	WITH 4' x 4' D.I. AT INLET
15+17	15+31	RT								18	14										—	—	—	—			58.1 11.8					16.34 6.4			—	—					
NEW UNDERDRAINS																																										
REV 11+25	11+81 REV ~~12+28~~	LT/LT						6	~~104~~ 56																		12.44 ~~61~~													7	
REV 11+25	~~REV 11+88~~	RT/RT						6	~~44~~																		~~27~~													8	
~~REV 11+88~~	REV 11+84	RT/RT						6	~~20~~																		13.76 ~~30~~													9	
11+92.5 REV ~~12+28~~	12+35 REV 12+40	LT/LT						6	~~10~~ 42.5																		9.5 ~~23~~													10	
REV 12+40	REV 'A' 0+42	LT/LT						~~6~~	~~57~~																		61													11	
SUR 14+13	SUR ~~15+16~~ 14+89	LT/LT						6	~~90~~ 76																		16.89 ~~58~~													12	
SUR 14+13	SUR ~~15+16~~ 20	RT/RT						6	~~106~~ 110																		24.44 ~~64~~													13	
20 SUR 15+18	46 SUR 15+50	LT/LT						6	~~34~~ 26																		17.3 ~~34~~													14	
~~SUR 15+18~~	~~SUR 15+50~~	RT/RT						6	~~34~~																		~~34~~													15	
~~REV 'A' 0+33~~	~~REV 'A' 1+10~~	RT/RT						6	~~68~~																		~~58~~													19	
~~REV 'A' 0+22~~	~~REV 'A' 0+33~~	RT/RT						6	~~14~~																		~~12~~													20	
REV 'A' 0+42	~~REV 'A' 0+60~~	~~LT/LT~~						6	68 ~~50~~																		~~41~~													21	
~~REV 'A' 0+60~~	REV 'A' 1+10	LT/LT						0	~~3~~																		15.11 ~~7~~													22	
EXISTING																																										
REV 11+63	SUR 12+60	RT/RT																									~~98~~	~~20~~												1	REMOVE EXISTING 8" x 82' PIPE AND D.I.
SUR 15+18		LT																																						2	REMOVE EXISTING D.I.
REV 11+34	SUR 12+67	LT/LT																									~~165~~	~~20~~												17	REMOVE EXISTING 12" x 137' PIPE
SUBTOTALS									440.5 ~~846~~		411.0 ~~258~~											12.64 ~~20.50~~	1866.0 ~~1707~~					469.06 ~~705~~	40				178.78 ~~102.4~~				3				
ROUNDING									4		0											~~4.50~~	3					~~6~~	0				7.6				2				
TOTALS									440.5 ~~850~~	LF	411.0 ~~258~~	LF										~~25 CY~~	~~1760~~	~~LBS~~				~~500 CY~~ 469.06	40 CY				~~200~~	CY			5	CY			

PROJECT NAME:	JOHNSON
PROJECT NUMBER:	BHO 1448(18)
FILE NAME:	/str1/90j067/sj067dm.xls
PROJECT LEADER:	R. WHITCOMB
DESIGNED BY:	C. MEUNIER
DRAINAGE DETAIL SHEET	
PLOT DATE:	1/29/2003
DRAWN BY:	J. GILMORE
CHECKED BY:	C. MEUNIER
SHEET	17 OF