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 SL	CPEP TH	PIPE ELBOW NO-DEG	ES EA	CB	PRCCDI	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	EARTH BORR CY	RIGID PLASTIC PIPE LF	REMARKS
98+41		CL																										50	5													REMOVE EXISTING 15'' RCP
98+43	98+70	LT/RT		DI						18	84	.064	.060	III			X					4.0	2.1	193	1-B			46								1	I	1	1			STONE FILL TYPE I @ OUTLET
102+50	102+90	RT		HW/DI						30	44	.079	.075	III			X										3.5	45								4	II	1	1			STR. HEADWALL, INLET DITCH W/STONE FILL TYPE II
102+96		CL		DI						30	72	.079	.075	III			X					6.0	4.5	405	1-B			73	3							5	II	1	1	2		DITCH CHECK, OUTLET DITCH, W/STONE FILL TYPE II
																																										REMOVE EXISTING 30" RCP (NEW 4'X 6' DI)
105+52		CL		DI						18	92	.064	.060	III			X					5.5	2.8	239	1-B			89								1	I	1	1			OUTLET DITCH W/STONE FILL TYPE I (NEW 4'X 6' DI)
106+00		RT																											17													REMOVE EXISTING CB
107+75		CL		DI						30	84	.079	.075	III		X						5.5	3.6	288	2-B			118	5							4	II	1	1	2		DITCH CHECK, OUTLET DITCH, W/STONE FILL TYPE II
																																										REMOVE EXISTING 15" RCP (NEW 4'X 6' DI)
110+20		CL		DI						30	92	.079	.075	III		X						4.0	2.7	228	2-B			95								4	II	1	1			OUTLET DITCH (NEW 4'X 6' DI)W/STONE FILL TYPE II
110+25		LT																										31	5													REMOVE EXISTING 15'' RCP
REV.																																										
112+22		CL																										29	5													REMOVE EXISTING 15'' RCP
115+50		CL		DI						18	60	.064	.060	III			X					6.5	3.2	278	1-D											1	I		1			STONE FILL AT OUTLET
117+90		CL		DI						18	60	.064	.060	III			X					6.5	3.2	278	1-D			5								1	I		1			STONE FILL AT OUTLET
121+24	123+00	LT		DI/DI						18	172	.064	.060	III			X					6.5	4.2	348	2-D																	4' X 6' RCDI AT INLET
123+00		CL		DI						18	56	.064	.060	III			X					6.0	3.0	270	1-D			2											1			
124+81		CL		HW						18	120	.064	.060	III			X										1.8	95								1	I		1			REMOVE EXISTING 18'' RCP. STONE FILL AT INLET & OUTLET.
																																				2	II					
124+81		CL		DI						18	56	.064	.060	III			X					5.5	2.8	239	1-D											1	I		1			STONE FILL AT OUTLET
128+00		RT		DI						12	20				.064						1															1	I		1			STONE FILL AT OUTLET.
128+52	56' LT		120°12'06''LT	DI						18	48	.064	.060	III		X												26										1	1			REMOVE EXISTING 18'' RCP
129+65		RT		DI						18	20	.064	.060	III			X					5.0	3.3	279	2-D											1	I		1			4' X 6' RCDI. STONE FILL AT OUTLET
133+28		RT		DI						12	20				.064						1															1	I		1			STONE FILL AT OUTLET.
SURV.																																										
139+50	140+87	LT		DI/DI						18	140	.064	.060	III			X					6.0	3.0	270	1-D																	
140+87		CL		DI						18	60	.064	.060	III			X					6.5	3.2	278	1-D											1	I		1			STONE FILL AT OUTLET
144+65	146+00	LT		DI/DI						18	132	.064	.060	III			X					6.0	3.9	324	2-D																	4' X 6' RCDI AT INLET
145+50	145+72	RT-LT																										41														REMOVE EXISTING 24'' RCP.
145+77			60°40'55''LT	DI						18	100	.064	.060	III			X					3.0	1.7	150	1-B			48								1	I		1			STONE FILL AT OUTLET.
150+00	151+50	LT		ES/ES						15	150				.064				2									73										2				
151+43		CL		DI																								33														REMOVE EXISTING 18'' RCP
154+65		CL		DI						18	64	.064	.060	III			X					5.5	2.8	239	1-B			57	18							2	I	1	1			REMOVE EXIST.18''RCP, W/STONE FILL TYPE I @ OUT.
158+70		CL		DI						24	68	.064	.060				X					4.0	2.7	228	2-B			61										1	1	2		DITCH CHECK, REMOVE EXISTING 24'' RCP
159+00		RT								12	14				.064						1																					
161+50		CL		DI						18	80	.064	.060	III		X						4.0	2.7	228	2-B			9	31							3	I	1	1			OUTLET DITCH W/STONE FILL TYPE I
162+00		RT								12	28				.064						1							4	6													
163+65		LT		HW/DI						30	12	.079	.075	III			X										3.5		9													SEE WATERFALL STANDARD D-4
163+65		CL		DI						30	88	.079	.075	III			X					5.0	3.3	279	2-B			5	146							8	II	1	1			(4'X 6' DI) STONE FILL TYPE II @ OUTLET
164+25		CL																										37	5													REMOVE EXISTING 24'' RCP
167+41		LT		DI						15	68			III	.064	X						4.0	2.1	193	1-B			19										1				DRIVE PIPE
167+65		CL																										32														REMOVE EXISTING 15'' RCP
168+00		CL		ES						30	80	.079	.075			X			1									91								1	I	1	1			STONE FILL TYPE II @ OUTLET
																																				9	II					
171+70		CL																										54	5													REMOVE EXISTING 18'' RCP
172+12		LT		ES/ES						15	52			III	.064		X		2									1										1				DRIVE PIPE
DRAINAGE SHEET 1 TOTALS										12	82				.064						4		60.8	5234	16-B		8.8	1269	260							17	I	16	22	6		
										15	150				.064				2						12-D											36	II					
										15	68			III	.064	X																										
										15	52			III	.064		X		2																							
										18	1216	.064	.060	III			X																									
										18	128	.064	.060	III		X																										
										24	68	.064	.060				X																									
										30	176	.079	.075	III		X																										
										30	216	.079	.075	III			X																									/78D096/DESIGN/DD096.DGN
TOTALS										30	80	.079	.075			X			1																							

GUARD RAIL

STA.	STA.	LT.	RT.	END TREATMENT MTS	END TREATMENT ANCHOR
STEEL BEAM GUARD RAIL					
110+75	117+66.5	700			1
113+50	118+54.5		512.5	1	
121+22	123+24.5	237.5			
122+10	129+43.5		737.5		
127+18.5	130+04	300			
133+31.5	135+25		200	1	
REV	SURV				
133+47	140+60.5	725			
SURV					
138+25	141+35		312.5	1	
144+79	WC 24+00	412.5			
145+75	149+25	350		1	1
145+09.5	170+42.5		2537.5	1	
176+00	187+97.5		1200	2	
206+12.5	208+87.5	275		2	
205+82.5	217+50		1175	1	1
217+74	230+45.5		1275	1	1
235+12.5	252+87.5		1775	2	
258+47.5	EDC20+82.5		350	1	1
EDC 23+60	263+15		450		2
260+03	262+53	275		1	1
261+80	262+55		75	1	1
262+92	276+46.5		1362.5	1	1
282+10	290+37.5		837.5	2	
EAST CONNECTOR					
11+37.5	14+25		287.5		2
		3275	13087.5		
TOTALS		16362.5		19	12

UNDERDRAIN

STA.	STA.	TYPE	POS.	D	L	TRENCH E	TRENCH R	GRAN BKF	FB		MKR PST
97+00	102+90	U	RT	6	590	276			2		2
103+00	105+52	U	RT	6	252	125			1		1
105+54	107+75	U	RT	6	221	85			1		1
107+77	110+20	U	RT	6	243	75			1		1
SURV.	REV.										
110+25	112+50	U	RT	6	224	79			1		1
112+50		C	RT-LT	6	65	16			1		1
122+00	123+25	U	LT	6	125	45			1		1
123+25		C	LT-RT	6	68	2			1		1
135+25	137+00	U	RT	6	175	63			1		1
137+00		C	RT-LT	6	71	5			1		1
SURV.											
146+25	148+50	U	LT	6	225	50	42		1		1
148+50		C	LT-RT	6	69	20	1		1		1
148+55	154+65	U	LT	6	610	278	171		2		2
154+70	157+00	U	LT	6	230		121		1		1
157+00		C	LT-RT	6	57	7	1		1		1
160+50	161+50	U	LT	6	100		49		1		1
161+00	163+50	U	RT	6	250	13	88		1		1
161+55	163+65	U	LT	6	210		121		1		1
163+50		C	RT	6	13		2		1		1
163+70	167+00	U	LT	6	330	93	31		2		2
167+00		C	LT-RT	6	64	14			1		1
167+02	169+50	U	LT	6	248	125			1		1
169+50		C	LT-RT	6	81	34			1		1
169+52	173+50	U	LT	6	398	213			2		2
173+50		C	LT-RT	6	101	69			1		1
DRAINAGE SHEET I TOTALS		U			4431	1687	627		29		29
		C			589						

PROJECT NAME SEARSBURG-WILMINGTON
PROJECT NUMBER NHF 010-1(18)

26-FEB-2002 DD096DRI
SHEET 13 OF 435 SHEETS