STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET #2

Metric

STATION km + m	STATION km + m	POS.	ASKEW no. deg.	INLET/OUTLET TYPE INLET	OUTLET	DITCH IN	OUT	PIPE ARCH SPAN mm	RISE mm	L m	PIPE D mm	L m	ALLOWABLE OPTIONS PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL mm	PCCSP PI mm	PIPE ELBOW no. deg.	ES ea	CB ea	MAN HOLE ea	PRCCDI	DEPTH OF STRUCT mm	DROP INLET CONC CLASS m³	REINF STEEL kg	CONCRETE HEADWALL CONC CLAS m³	REINF STEEL kg	STRUCT GRATE type	TRENCH EXCAVATION (1) EARTH m³	ROCK m³	COMM EXC m³	UNC CHAN m³	STRUCT EXCAV m³	GRAN BKFILL m³	GRAN BORR m³	EROS MATT m²	STONE FILL VOL m³	type	MARKER POSTS LT ea	RT ea	GEOTEXTILE UNDER SONTE FILL m²	REMARKS
L 1+174.0	L 1+172.1	LT-RT	398	DMH398	STONE						1200	27.6	2.77	2.67								1							1-CVR	220.82								33	I			110	CONSTRUCT STONE FILL TYPE I AT OUTLET SEE EARTHWORKS SHEET.
CROSSOVER																																										
XO 0+884.0	XO 0+974.3	RT-RT	341	CB341	CB345						900	88.6	2.01	1.91							1			3000					1-B	413.28										1			
XO 1+240.0	XO 1+310.5	RT-RT	324	CB324	CB330						750	69.9	2.01	1.91							1			1800					1-B	232.28											1		
XO 1+310.5	NB 9+130.0	RT-LT	321	CB321	CB324						750	94.0	2.01	1.91							1			1800					1-B	225.19											1		
XO 1+155.8	XO 1+240.0	RT-RT	330	CB330	CB334						750	84.5	2.01	1.91							1			2400					1-B	335.72											1		
XO 1+060.2	XO 1+155.8	RT-RT	334	CB334	CB337						750	94.7	2.01	1.91							1			2400					1-B	389.49											1		
XO 0+974.3	XO 1+060.2	RT-RT	337	CB337	CB341						900	86.0	2.01	1.91							1			3000					1-B	424.98											1		
EAST ROAD																																										
ER 1+080.0		RT-LT	CV308		STONE						450	26.5	1.63	1.52													1.57	165		28.28								1	I		1	3	CONST. REINFORCED CONCRETE HEADWALL AT INLET CONST. STONE FILL, TYPE I AT OUTLET
ER 1+105.0	ER 1+122.0	RT-RT	CV307								450	11.7	1.63	1.52																1.33													
ER 1+135.4	XO 1+240.0	LT-RT	330A	CB330B	CB330A						450	27.0	1.63	1.52							1			4200					1-B	160.72													
ER 1+135.2	ER 1+135.4	LT	330B	CB330B	CB330						450	8.1	1.63	1.52							1			3600					1-B	40.12													
ER 1+230.0		LT-LT	326	DI326	MH327						450	11.4	1.63	1.52										2100	2.52	138			1-D	27.32										1			1200x1200 DI
ER 1+230.0	ER 1+240.0	LT-RT	392	DI392	DI326						450	14.4	1.63	1.52	III		X					1		1650	2.03	107			1-D	30.09											1		1200x1200 DI
ER 1+230.0	NB 9+290.0	LT-RT	327	MH327	DI328						450	23.8	163	1.52										2400	2.00				1-CVR	100.02											1		CONST. PIPE CONNECTION COLLARS AT 12 M INTERVALS
ER 1+240.0	ER 1+275.6	RT-RT	393	DI393	DI392						450	35.4			III		X							2100	2.52	138			1-D	96.56											1		1200x1200 DI
RAMP G																																										
G 1+506.0		LT-RT	218	CB218	CB217						450	12.6	1.63	1.52	IV		X				1			2400					1-A	72.34										1			
G 1+506.0	G 1+558.0	RT-RT	217	CB217	CB216						450	47.5	1.63	1.52	IV		X				1			3000					1-A	262.77											1		
G 1+558.0	G 1+610.0	RT-RT	216	CB216	CB215						450	47.3	1.63	1.52	IV		X				1			2400					1-A	206.55											1		
G 1+610 .0		RT-LT	215	CB215	CB214						450	12.5	1.63	1.52	IV		X				1			2400					1-A	73.72											1		
G 1+607.0	G 1+610.0	LT-LT	214	CB214	EX						450	36.1	1.63	1.52							1			3600					1-A	310.95										1			CONNECT TO EXISTING INLET. CONNECTION INCIDENTAL TO PIPE CONSTRUCTION.
SWALE																																										
SW 3+000.0	SW 3+459.5	CL	399																													*											CONST. SWALE TO FURNACE BROOK
SWALE 2																																										
NB 10+346.9	NB 10+476.8	RT	219																													426					1100	II			1600	CONST. SWALE WITH STONE FILL TYPE II
STAGE ONE SITES																																										
MP 1+409.0	MP 1+437.0	LT			ES						375	30.0																		35												CPEP
SEE DRAINAGE DETAIL SHEET 3 FOR ALL TOTALS																																										

PIPE ALLOWABLE OPTIONS
#1: RCP, CPEP(SL)
#2: PCCSP, CAAP
#3: PCCSP, CAAP, RCP, CPEP (SL)
#4: CSP, RCP, CPEP, CPEP(SL)

NOTE: 1. CPEP(SL) NOT ALLOWABLE OPTION FOR PIPES OVER 900 MM DIAMETER
2. GRATES/COVER FOR CB/MH ARE PAID FOR UNDER THOSE STRUCTURES
3. GRATES FOR DI WILL BE PAID SEPARATELY

* REFER TO EARTHWORK SUMMARY FOR COMMON EXCAVATION QUANTITY

RCP = REINFORCED CONCRETE PIPE
CPEP(SL) = CORRUGATED POLYETHYLENE PIPE- SMOOTH LINED
PCCSP = POLYMERIC COATED CORRUGATED STEEL PIPE
CAAP = CORRUGATED ALUMINUM ALLOY PIPE
CSP = CORRUGATED STEEL PIPE

PROJECT NAME: BENNINGTON
PROJECT NUMBER: AC NH 019-1(53)

FILE NAME: zd307c3dds.xls
PROJECT LEADER: GREG EDWARDS
DESIGNED BY: JJS/MARC FOISY
DRAINAGE DETAIL SHEET #2
PLOT DATE: 5/29/2007
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 21 OF 577