STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

Metric

STATION km + m	STATION km + m	POS.	PIPE NO.	INLET/OUTLET TYPE INLET	OUTLET	DITCH IN	DITCH OUT	PIPE ARCH SPAN mm	PIPE ARCH RISE mm	PIPE ARCH L m	PIPE D mm	PIPE L m	ALLOWABLE OPTIONS OPTION NO.	PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL mm	PIPE ELBOW no. deg.	ES ea	CB ea	DI ea	DMH ea	PRCCDI	FLOW-ABLE FILL m^3	CONC. CLASS B m^3	REINF STEEL kg	CHAN ELEV ea	STRUCT. GRATE type	TRENCH EXCAVATION EARTH m^3	TRENCH EXCAVATION ROCK m^3	COMM EXC m^3	UNC CHAN m^3	CLEAN CULVERT 0-600 m	CLEAN CULVER > 600 m	600 COUPLING BANDS ea	PERM EROS MATT m^2	STONE FILL VOL m^3	STONE FILL type	MARKER POSTS LT ea	MARKER POSTS RT ea	GEOTEXTILE UNDER STONE FILL m^2	REMARKS
SYSTEM "2"																																											
DRN 1+177.2	DRN 1+216.7	CL	200	DMH200	STONE						900	37.0	-	2.01						1			1						1-CVR	168								5	II	1		18	DMH @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET
DRN 1+147.9	DRN 1+177.2	CL	201	DMH201	DMH200						900	27.6	-	2.01									1						1-CVR	224										1			DMH @ INLET
DRN 1+135.5	DRN 1+147.9	CL	202	DMH202	DMH201						900	10.9	-	2.01									1						1-CVR	73										1			DMH @ INLET
DRN 1+019.6	DRN 1+080.0	CL	203	CB203	DMH203A						750	58.6	-	2.01								1							1-A	451										1			CB @ INLET
DRN 1+080.0	DRN 1+135.5	CL	203A	DMH203A	DMH202						750	53.8	-	2.01									1						1-CVR	415										1			DMH @ INLET
EB 10+470.0	DRN 1+019.6	RT-CL	204	SHWALL	CB203						750	36.2	-	2.01											3.47	301			230												1		REINFORCED CONCRETE STRAIGHT HEADWALL @ INLET CONSTRUCT HEADWALL AFTER TEMPORARY SEDIMENT BASIN IS NO LONGER REQUIRED
EB 10+467		RT	204T	BASIN	204						1350	2.3	-	2.01																													TEMPORARY RISER FOR SEDIMENT BASIN #2
WB 9+994.2	WB 10+013.1	LT-RT	CV205	DITCH	STONE						450	51.5	-	2.01				X		2										119								2	I	1	1	9	CULVERT UNDER US 7; END SECTION @ INLET AND OUTLET; STONE FILL TYPE I @ OUTLET
U 1+025.0	EB 10+280.0	LT-RT	209	CB209	STONE						750	39.1	1			III		X		1	1								1-A	119								14	II	1		57	CB @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET
F 1+512.0	U 1+025.0	LT	210	ES	CB209						750	27.9	1			III		X		1										61										1			END SECTION @ INLET
F 1+540.0	F 1+512.0	LT-RT	211	DI211	STONE						600	34.7	-					X		1		1							1-A	70								1	I			6	CB @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET
F 1+550.0	F 1+540.0	RT	212	SHWALL	DI211						600	10.3	-					X							2.18	234															1		REINFORCED CONCRETE STRAIGHT HEADWALL @ INLET
F 1+740.0	F 1+720.0	RT	213	CB213	STONE						600	18.6	-					X		1	1								1-B	30								7	I		1	22	CB @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET
F 1+790.0	F 1+740.0	RT	214	DI214	CB213						450	47.4	-	1.63								1							1-B	78													1200 x 1200 DI @ INLET
F 1+850.0	F 1+790.0	RT	215	DI215	DI214						450	57.4	-	1.63								1							1-B	123													1200 x 1200 DI @ INLET
NB 10+110.0	F 1+850.0	LT-RT	216	DI216	DI215						450	76.9	-	1.63								1							1-B	224													1200 x 1200 DI @ INLET
NB 10+040.0	NB 10+110.0	LT	217	DI217	DI216						450	67.4	3	1.63		III		X				1							1-A	218													1200 x 1200 DI @ INLET
NB 9+970.0	NB 10+040.0	LT	218	DI218	DI217						450	67.4	1			III		X				1							1-A	201													1200 x 1200 DI @ INLET
NB 9+970.0		LT-CL	219	DI219	DI218						450	10.7	1			III		X				1							1-A	20													1200 x 1200 DI @ INLET
NB 10+040.0		LT-CL	220	DI220	DI217						450	10.9	3	1.63		III		X				1							1-A	17													1200 x 1200 DI @ INLET
NB 10+110.0		LT-CL	221	CB221	DI216						450	10.4	-	1.63							1								1-A	24													CB @ INLET
WB 10+109.1	NB 10+110.0	RT-CL	222	DI222	CB221						450	13.8	1			III		X				1							1-B	42											1		1200 x 1200 DI @ INLET
WB 10+030.0	WB 10+109.1	RT	223	DI223	DI222						450	78.4	3	1.63		III		X				1							1-A	247											1		1200 x 1200 DI @ INLET
WB 9+955.0	WB 10+030.0	RT	224	DI224	DI223						450	71.8	3	1.63		III		X				1							1-A	58	68										1		1200 x 1200 DI @ INLET
WB 9+880.0	WB 9+955.0	RT	225	DI225	DI224						450	71.7	1			III		X				1							1-A		194										1		1200 x 1200 DI @ INLET
WB 10+190.0	F 1+850.0	LT-RT	226	DI226	DI215						450	10.9	3	1.63		III		X				1							1-B	19													1200 x 1200 DI @ INLET
F 1+494.7	F 1+498.0	RT-LT	227	DI227	STONE						450	18.1	1			III		X		1		1							1-B	53								1	I	1		3	DI @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET
S 2+060.0		LT-RT	229	DI229	STONE						450	18.9	-					X		1		1							1-A	1								1	I	1	1	4	DI @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET CONSTRUCT PIPE AND STONE OUTLET PROTECTION AFTER TEMPORARY SEDIMENT BASIN IS NO LONGER NEEDED
G 1+840.0		LT	238	DI238	STONE						450	14.3	1			III		X		1		1							1-A	27								1	I	1		4	DI @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET
R 1+140.0		LT	239	DI239	STONE						450	12.2	1			III		X		1		1							1-A	21								1	I	1		4	DI @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET
SEE DRAINAGE DETAIL SHEET 5 FOR ALL TOTALS																																											

PIPE ALLOWABLE OPTIONS
*1: RCP, CPEP(SL)
*2: PCCSP, CPEP (SL)
*3: PCCSP, RCP, CPEP (SL)

NOTES:
1. CPEP(SL) NOT ALLOWABLE OPTION FOR PIPES OVER 900 MM DIAMETER
2. GRATES/COVER FOR CB/MH/DI/PRCCDI ARE PAID UNDER THOSE STRUCTURES
3. EROS MATT COLUMN REFERS TO ITEM 653.20 TEMPORARY EROSION MATTING

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

Stantec

PROJECT NAME: BENNINGTON
PROJECT NUMBER: NH 019-1(54)

FILE NAME: ...\zd307c4det_drainagedet.ptf
DESIGN SUPERVISOR: GREG EDWARDS
DESIGNED BY: MARC FOISY
DRAINAGE DETAIL SHEET DDS-02

PLOT DATE: 3/17/2010
DRAWN BY: STANTEC
CHECKED BY: GARY SANTY
SHEET 19 OF 468

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