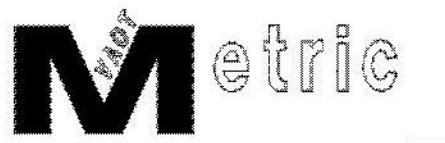


DRAINAGE DETAIL SHEET



STATION km + m	STATION km + m	POS.	PIPE NO.	INLET/OUTLET TYPE		DITCH		PIPE ARCH			ALLOWABLE OPTIONS					PIPE ELBOW no. deg.	ES ea	CB ea	DI ea	DMH ea	PRCCDI	FLOW- ABLE FILL m³	CONC. CLASS B	REINF. STEEL kg	CHAN. ELEV ea	STRUC- T. GRATE type	TRENCH EXCAVATION		COMM EXC m³	UNC CHAN m³	CLEAN CULVER 0-600 m	CLEAN CULVER > 600 m	600 COUPLING BANDS ea	PERM EROS MATT m²	STONE FILL		MARKER POSTS		GEOTEXTILE UNDER STONE FILL m²	REMARKS
				INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	OPTION NO.	PCCSP mm	CAAP mm												RCP CL	CSP mm							CPEP SL mm	EARTH m³	ROCK m³	VOL m³		
SYSTEM "1"																																								
WB 10+790.0	WB 10+793.8	LT-RT	101	CB101	STONE							900	29.3	1											1-A	181								6	II	1	20	CB @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET		
G 1+289.6	WB 10+790.0	RT-LT	102	ES	CB101							750	20.1	-	2.01											47									1		END SECTION @ INLET			
P 1+220.0	WB 10+790.0	RT-LT	103	DI103	CB101							450	74.1	3	1.63										1-B	154									1		1200 x 1200 DI @ INLET			
WB 10+640.0	P 1+220.0	LT-RT	104	DI104	DI103							450	74.1	3	1.63										1-B	164									1		1200 x 1200 DI @ INLET			
WB 10+565.0	WB 10+640.0	LT	105	DI105	DI104							450	72.5	3	1.63										1-B	181									1		1200 x 1200 DI @ INLET			
Q 1+049.1	G 1+436.3	RT	106	DI106	STONE							450	20.5	3	1.63										1-B	67						1	II		2	4	1200 x 1200 DI @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET			
P 1+120.0	Q 1+049.1	LT-RT	107	DI107	DI106							450	10.0	3	1.63										1-B	17									1		1200 x 1200 DI @ INLET			
NB 10+640.0		RT-LT	108	CB108	STONE							600	27.1	1											1-A	153							6	I	1	25	CB @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET			
NB 10+640.0		RT	109	DI109	CB108							450	3.5	1											1-A	24										1		1200 x 1200 DI @ INLET		
NB 10+560.0	NB 10+640.0	RT	110	DI110	DI109							450	78.5	3	1.63										1-A		230									1		1200 x 1200 DI @ INLET		
NB 10+640.0	NB 10+690.0	RT	111	DI109	DMH111							450	47.2	3	1.63										1-CVR	91										1		DMH @ INLET		
NB 10+690.0	NB 10+740.0	RT	112	SHWALL	DMH111							450	47.8	2	1.63																					1		REINFORCED CONCRETE STRAIGHT HEADWALL @ INLET		
G 1+987.0		RT	113	DI113	STONE							450	5.3	-	1.63										1-B	15							4	II	1	30	DI @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET			
G 1+987.0	G 1+989.0	RT-LT	114	DI114	DI113							450	7.3	-	1.63										1-B	16												1200 x 1200 DI @ INLET		
G 1+989.0	G 2+000.0	LT	115	ES	DI114							450	16.8	3	1.63											23										1		END SECTION @ INLET		
G 1+998.4	G 2+000.0	LT	116	DI116	STONE							450	7.7	1											1-B	18							3	I	1	11	DI @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET			
S 1+140.0	G 2+074.0	LT-RT	118	DI118	STONE							450	15.7	3	1.63										1-B	35							4	I	1	25	DI @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET			
I 1+283.4		RT	119	EXISTING	STONE							600	9.6	-	1.63												4					2	II			13	CONNECT TO EXISTING PIPE AT INLET; END SECTION AND STONE FILL TYPE II @ OUTLET			
G 2+150.0		LT-RT	120	DI120	STONE							450	18.3	1											1-B	82							8	I	1	47	1200 x 1200 DI @ INLET; END SECTION AND STONE FILL TYPE I @ OUTLET			
S 1+060.0		LT	121	DI121	DI120							450	3.3	3	1.63										1-B	5										1		1200 x 1200 DI @ INLET		
G 2+150.0	SB 11+094.7	LT-RT	122	DI122	DI120							450	74.0	3	1.63										1-B	181											1		1200 x 1200 DI @ INLET	
SB 11+094.7		RT	123	DI123	DI122							450	3.5	3	1.63										1-B	9													1200 x 1200 DI @ INLET	
SB 11+312.9	SB 11+333.0	LT	124	DI124	STONE							600	20.6	3	1.63										1-B	66							2	II	2	9	DI @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET			
SB 11+333.0		RT-LT	125	EXDI	DI124							450	25.3	3	1.63											67										1		CONNECT TO EXISTING DI @ INLET (INCIDENTAL TO PIPE)		
SB 11+333.0	SB 11+400.0	LT	126	DI126	DI124							600	65.7	3	1.63											266											1		1200 x 1200 DI @ INLET	
SB 11+400.0	SB 11+459.9	LT	127	EXDI	DI126							600	59.8	3	1.63											242										1		CONNECT TO EXISTING DI @ INLET (INCIDENTAL TO PIPE)		
G 1+291.7	G 1+303.4	RT	127T	128T								600	18.0	1																									TEMPORARY PIPE FOR SEDIMENT BASIN #1A	
G 1+303.4		RT	128T	BASIN	127T							1050	1.4	-	2.77																								TEMPORARY RISER PIPE FOR SEDIMENT BAIN #1A	
G 1+900.0		RT	130	DI130	STONE							450	5.2	-	1.63										1-B	22							10	II	1	36	DI @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET			
G 1+900.0		LT-RT	131	DI131	DI130							450	7.1	3	1.63										1-B	13													1200 x 1200 DI @ INLET	
G 1+677.6	G 1+720.0	RT	132	EXCB	STONE							450	38.4	1												201							4	II	2	7	CONNECT TO EXISTING CB (INCIDENTAL TO PIPE) @ INLET; END SECTION AND STONE FILL TYPE II @ OUTLET			
G 1+700.0	G 1+720.0	LT-RT	CV133	ES	STONE							450	35.1	3	1.63												76									1		END SECTION @ INLET & OUTLET; END SECTION OUTLET ONTO PIPE 132 STONE PAD		
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



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

FILE NAME: ..\zd307c4det.drainagedet.ptf PLOT DATE: 1/26/2010
 DESIGN SUPERVISOR: GREG EDWARDS DRAWN BY: STANTEC
 DESIGNED BY: MARC FOISY CHECKED BY: GARY SANTY
 DRAINAGE DETAIL SHEET DDS-01 SHEET 18 OF 468