STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

FHWA Metric

STATION	STATION	POS.	PIPE NO.	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	DI	MH		DEPTH OF STRUCT.	CONC. CLASS	REINF STEEL	CHAN ELEV	STRUC T. GRATE	TRENCH EXCAVATION		COMM EXC	UNC CHAN	STRUCT EXCAV	GRAN BKFILL	600 COUPLING BANDS	PERM EROS MATT	STONE FILL		MARKER POSTS		GEOTEXITLE UNDER STONE FILL	REMARKS
				INLET	OUTLET	IN	OUT	SPAN	RISE	L	D	L	PCCSP	CAAP	RCP	CSP	CPEP SL	PCCSP PI											EARTH	ROCK							VOL		LT	RT		
km + m	km + m							mm	mm	m	mm	m	mm	mm	CL	mm	mm	mm	no. deg.	ea	ea	ea	ea		mm	m^3	kg	ea	type	m^3	m^3	m^3	m^3	m^3	m^3	ea	m^2	m^3	type	ea	ea	m^2	
SYSTEM "5"																																									
RAMP D																																									
D 1+366.0	D 1+400.0	RT	500	CB500	STONE						900	34	2.01	1.91						1	1				2980				1-B	273							37	II		2	32	CB @ INLET; END SECTION AND STONE FILL TYPE II AT OUTLET
D 1+400.0	D 1+475.8	RT	501	CB501	CB500						750	74.9	2.01	1.91							1				3480				1-B	460										1		CB @ INLET
D 1+400.0		LT-RT	510	CB510	CB500						600	9.7			III		X				1				3160				1-B	137												CB @ INLET
D 1+400.0	A 1+396.0	LT	511	DI511	CB510						600	24.5			III		X					1			1610				1-B	157									1			1200 x 1200 DI @ INLET
D 1+475.8		LT-RT	514	DI514	CB501						600	29			III		X					1			1870				1-B	149									1			1200 x 1200 DI @ INLET
D 1+475.8	D 1+551.4	RT	502	CB502	CB501						750	74.5	2.01	1.91							1				3390				1-B	548										1		CB @ INLET
D 1+551.4	D 1+552.2	LT-RT	516	DI516	CB502						450	21.8			III		X					1			2270				1-B	100									1			1200 x 1200 DI @ INLET
D 1+551.4	NB 6+595.0	RT	503	EXIST	CB502						600	74.2	1.63	1.52																420												CONNECT TO EXISTING CB
RAMP A																																									
A 1+396.0		LT-RT	512	CB512	DI511						450	16.5			III		X				1				2830				1-B	61									1			CB @ INLET
A 1+396.0	A 1+400.0	LT	513	DI513	CB512						450	4.6			III		X					1			1860				1-B	24												1200 x 1200 DI @ INLET
A 1+469.0	A 1+470.4	LT-RT	515	DI515	DI514						450	19.3			III		X					1			1800				1-B	75									1			1200 x 1200 DI @ INLET
A 1+552.2	A 1+552.7	RT-LT	517	DI517	DI516						450	16			III		X					1			1800				1-B	62									1			1200 x 1200 DI @ INLET
SYSTEM "6"																																									
DRN 60+030.6	DRN 60+075.6	CL	612	DI612	DI611						600	44.4	1.63	1.52	III		X					1			2110				1-A	252												1200x1800 DI @ INLET
DRN 60+075.6	DRN 60+115.9	CL	611	DI611	STONE						600	40			III		X			1		1			1930				1-A	169							5	I	2		24	1200x1200 DI @ INLET
DRN 60+115.9	DRN 60+193.0	CL	6a	-	-																										555					48	II			111	CONST. VEG. TREATMENT SWALE 6A
DRN 60+193.0	DRN 60+225.1	CL	610	6a	DI609						600	31.9	1.63	1.52	III		X									2.18	234			55									1			CONST. REINFORCED CONCRETE STRAIGHT HEADWALL @ INLET
DRN 60+225.1	DRN 60+247.4	CL	609	DI609	DI608						600	21.7			III		X					1			1650				1-CVR	17									1			1200x1200 DI @ INLET
DRN 60+247.4	DRN 60+282.7	CL	608	DI608	HDWL		X				750	37.3	2.01	1.91								1			1650	3.47	300		1-CVR	170							2	I	2		9	1200x1200 DI @ INLET; CONST. REINFORCED CONCRETE STRAIGHT HEADWALL AND STONE FILL, TYPE I AT OUTLET
RAMP A																																									
A 1+055.0	A 1+056.0	RT-LT	621	DI621	DI620						450	7.7			III		X					1			1860				1-A	12												1200x1200 DI @ INLET
A 1+055.0	VT 1+401.0	RT-LT	620	DI620	DI619						450	4.5			III		X					1			2030				1-A	24										1		1200x1200 DI @ INLET
A 1+077.0	AS 1+028.0	LT-RT	622	DI622	DI623						450	14.8			III		X					1			1860				1-B	28												1200x1200 DI @ INLET
A 1+100.0		LT-RT	627	DI627	DI625						450	13.7					X					1			2300				1-B													1200x1200 DI @ INLET
A 1+100.0	A 1+160.0	LT	628	DI628	DI627						450	58.8	1.63	1.52			X					1			2300				1-B													1200x1200 DI @ INLET
A 1+160.0	A 1+220.0	LT	629	DI629	DI628						450	58.8	1.63	1.52			X					1			2300				1-B													1200x1200 DI @ INLET
SLIP RAMP A																																									
AS 1+020.0	DS 1+030.0	RT-LT	624	DI624	CB636						450	24.1			III		X					1			1940				1-A	53										1		1200x1200 DI @ INLET
AS 1+028.0	AS 1+020.0	RT	623	DI623	DI624						450	8.0			III		X					1			2300				1-A	17												1200x1200 DI @ INLET
AS 1+028.0	A 1+100.0	RT-RT	625	DI625	DI623						450	21.9					X					1			2030				1-A	34										1		1200x1200 DI @ INLET
RAMP D																																									
D 1+072.0	D 1+083.0	RT	639	DI639	CB638						450	10.4			III		X					1			1860				1-A	12												1200x1200 DI @ INLET
D 1+083.0	D 1+100.0	RT	638	CB638	HDWL		X				750	15.9	1.63	1.52							1				3980	3.47	300		1-A	80												CONST. REINFORCED CONCRETE STRAIGHT HEADWALL AND STONE FILL TYPE I @ OUTLET
D 1+100.0		LT	635	DI635	DI634						450	1.3	1.63	1.52			X					1			1970				1-A										1			1200x1200 DI @ INLET

SEE DRAINAGE DETAIL SHEET DDS-03 FOR ALL TOTALS

ALLOWABLE PIPE OPTIONS

#1: RCP, CPEP(SL)
#2: PCCSP, CAAP
#3: PCCSP, CAAP, CPEP (SL)
#4: PCCSP, CAAP, RCP, CPEP (SL)

NOTES:
1. CPEP(SL) NOT ALLOWABLE OPTION FOR PIPES OVER 900 MM DIAMETER
2. GRATES/COVER FOR CB/MH/DI ARE PAID INCIDENTAL TO THOSE STRUCTURES
3. EROS MATT COLUMN REFERS TO ITEM 653.20 TEMPORARY EROSION MATTING
4. DEPTH OF STRUCTURE IS MEASURE AS GRATE ELEV TO FINISH FLOOR
5. DROP INLETS ARE PRECAST (SEE SHEET MD-02), CATCH BASINS AND MANHOLES ARE CAST IN PLACE (REF STANDARD D-13)

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

PROJECT NAME: **BENNINGTON**
PROJECT NUMBER: **AC NH 019-1(51)**

FILE NAME: **zd307c1dds.xls**
PROJECT LEADER: **GREG EDWARDS**
DESIGNED BY: **MARC FOISY**
DRAINAGE DETAIL SHEET DDS-01

PLOT DATE: **2/2/2009**
DRAWN BY: **STANTEC**
CHECKED BY: **GARY SANTY**
SHEET **22** OF **367**