STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

VAOT Metric

DRAINAGE STRUCTURES

DRAINAGE NUMBERS (DR #)	STATION km + m	STATION km + m	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		BOX CULVERT			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRCCI	DEPTH DI	CONC CL B	REINF STEEL	DI GRATE	CHAN ELEV	STRUCT EXC	COMMON EXCAVATION		TRENCH EXCAVATION		GEOT FABR	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
					INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CPEP mm	CPEP SL mm	PCCSP PI mm	NO. DEG	EA	EA		m	CL B m^3	kg	TYPE	EA	m^3	EARTH m^3	ROCK m^3	EARTH m^3	ROCK m^3	m^2	m^3	m^3	m^2	m^3	TYPE	LT ea	RT ea	
21	12+521.0	12+521.0	LT		RCDI	ES						300	11	1.7	1.6		X			2/22.5°	1			1.80	2.53	128	E			2					26.7		0.2	1	1		CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 300 mm DOWNSPOUT WITH A STONE PAD @ OUTLET.
22	12+600.0	12+600.0	LT		RCDI	ES						300	15	1.7	1.6		X			2/22.5°	1			1.80	2.53	128	E			1					36.5		0.2	1	1		CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 300 mm DOWNSPOUT WITH A STONE PAD @ OUTLET.
23	12+623.3	12+623.3	RT/LT	86°	HW	ES						900	54		2.0	III			2.1		1			3.60	8				3		30.8				216.3		3.0	II	1	1	CONSTRUCT A 900 mm - 54 m CROSS CULVERT WITH A RCHW @ INLET AND A STONE PAD @ OUTLET
24	12+650.0	12+650.0	LT		RCDI	ES						300	19	1.7	1.6		X			2/22.5°	1			1.80	2.53	128	E			1					46.2		0.2	1	1		CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 300 mm DOWNSPOUT WITH A STONE PAD @ OUTLET
25	12+700.0	12+700.0	LT		RCDI	ES						300	17	1.7	1.6		X			2/22.5°	1			1.80	2.53	128	E			1					41.3		0.2	1	1		CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 300 mm DOWNSPOUT WITH A STONE PAD @ OUTLET.
26	12+750.0	12+750.0	LT		RCDI	ES						300	16	1.7	1.6		X			2/22.5°	1			1.80	2.53	128	E			1					38.9		0.2	1	1		CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 300 mm DOWNSPOUT WITH A STONE PAD @ OUTLET.
27	12+801.7	12+801.7	LT		RCDI	ES						300	19	1.7	1.6		X			2/22.5°	1			1.80	2.53	128	E			1					46.2		0.2	1	1		CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 300 mm DOWNSPOUT WITH A STONE PAD @ OUTLET.
28	12+900.0	13+000.0	RT		RCDI	RCDI						450	100	1.7	1.6		X	X						1.80	2.20	120	E					36.9	36.9			51.1					1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 450 mm PIPE TO OUTLET INTO RCDI.
29	13+000.0	13+100.0	RT		RCDI	RCDI						450	100	1.7	1.6		X	X						1.80	2.20	120	E						107.8			85.2					1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 450 mm PIPE TO OUTLET INTO RCDI.
30	13+100.0	13+200.0	RT		RCDI	RCDI						450	100	1.7	1.6		X	X						2.10	2.52	138	E						116.6			91.5					1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 450 mm PIPE TO OUTLET INTO RCDI.
31	13+200.0	13+300.0	RT		RCDI	RCDI						450	100	1.7	1.6		X	X						1.80	2.20	120	E						84.2			61.6					1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 450 mm PIPE TO OUTLET INTO RCDI.
32	13+300.0	13+400.0	RT		RCDI	RCDI						450	100	1.7	1.6		X	X						1.80	2.20	120	E					51.3	51.3			79.9					1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 450 mm PIPE TO OUTLET INTO RCDI.
33	13+400.0	13+500.0	RT		RCDI	RCDI						600	100	1.7	1.6		X	X						2.10	2.52	138	E					144.1				102.0					1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 600 mm PIPE TO OUTLET INTO RCDI.
34	13+500.0	13+529.3	RT	60°	RCDI	RCDI						600	30	1.7	1.6		X	X						1.95	2.36	124	E					47.5				31.8					1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 600 mm PIPE TO OUTLET INTO RCDI.
35	13+529.3	13+537.4	RT		RCDI	ES						600	17	1.7	1.6		X			2/22.5°	1			1.80	2.20	120	E					20.6				16.7					2	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 600 mm DOWNSPOUT.
36	13+860.0	13+860.0	RT		RCDI	ES						300	20	1.7	1.6		X			2/22.5	1			1.80	2.53	128	E			1				34		48.6		6.6	II	1	1	CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 300 mm DOWNSPOUT WITH A STONE PAD @ OUTLET.
37	13+910.0	13+910.0	RT/LT		RCDI	RCDI						450	14	1.7	1.6	III	X	X						1.95	2.69	131	E									50.7						CONSTRUCT A RCDI WITH PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 450 mm PIPE TO OUTLET INTO A RDCI.
38	13+910.0	13+910.0	LT		RCDI	ES						450	16	1.7	1.6		X			2/22.5°	1			2.23	3.02	145	E									58.0				1		CONSTRUCT A RCDI WITH A PRECAST COVER AND A TYPE "E" FRAME & GRATE. INSTALL A 450 mm DOWNSPOUT.
																																									AS-BUILT NOTE: ADD DRAINAGE NUMBERS
	SUBTOTAL											300		117	117		117			14	7			45.42	2180	17			11		331.2	396.8	34		1129.2		1.2	1	8	11	
												450		530	530	14	530	514		2	1																	9.6	II			
												600		147	147		147	130		2	1																					
												900			54	54			54		1																					

PROJECT NAME : BENNINGTON - HOOSICK

PROJECT NO. : D.P.I. 0146(1) C/3

DESIGN FILE NAME: /5116/VAOT/DRADET2.DGN
IPARM FILE NAME: N/A
SURVEYED BY: N/A
SQUAD LEADER: T.P.K.
DWG. NO. DT-2

PLOT DATE: 11/01
SURVEY DATE: N/A
DRAWN BY: E.C.D.
SHEET: 16 OF 473

FILE NAME =u:\5116\VAOT\CONTRACT3\dradet2.dgn
DATE/TIME =10/11/2001
USER =664