ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

LAYOUT CODE	STATION	STATION	POSITION	TYPE	DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS							PIPE ELBOW	ES	MH			DI		CB				DEPTH DI/CB	DI/CB GRATE(1)	CHAN ELEV	CRM	TR EXCAV (2)		COMM EXC	UNCH CHAN EXC	STRUC EXCAV	GRAN BKF STRUC	GRAN BORR	EROS MATT	STONE FILL		MRKR POSTS		REMARKS
				IN/OUT	IN	OUT	S	R	L	D	L	PCCSP	CAAP	RCP	CSP	OPT.	CPEP	PCCSP PI	NO-DEG	EA	48" EA	60" EA	72" EA	30"x30" EA	(MOD.) EA	48" EA	60" EA	72" EA	96" EA	FT	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT	RT	
							IN	IN	FT	IN	FT	TH	TH	CL	TH		SL	TH																											
O–4	335+45	333+50	37' LT	CB/CB						18	193					X										1				8.5	E			63												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
O–5	336+00	333+50	37' RT	CB/CB						30	248					X												1		10.5	E			277												30" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
O–6	335+45	336+06	56' LT																																									BUILD NEW BITUMINOUS CURB DRAIN
O–7	337+50		37' RT																																									REMOVE EXISTING 30" CGMP
O–8	337+28		100' RT																																									REMOVE EXISTING PIPE AND HEADWALLS
O–9	181+50	181+50	20' RT	DI/DI						18	40					X								1						4.5	A			1												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
O–10	181+50	180+62	20' LT	DI/DI						18	89					X								1						5.0	A			46												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
O–11	335+45	335+45	56' LT	DI/CB						12	18						X							1						4.5	A			7												12" CPEPE (SL) PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
O–12	338+00	335+45	37' LT	CB/CB						18	253					X										1				8.5	E			79												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
O–13	338+00	336+00	37' RT	CB/CB						30	198					X												1		10.5	E			158												30" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
O–14	180+62	338+00	35' LT	DI/CB						18	28					X								1						6.0	A			26												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
P–1	339+60		39' RT																																									REMOVE EXISTING 18" RCP AND HEADWALLS
P–2	340+00	340+00	58' RT	DI/CB						18	18					X								1						8.0	A			24												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
P–3	340+00	338+00	37' LT	CB/CB						18	198					X										1				8.5	E			64												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
P–4	340+00	338+00	37' RT	CB/CB						30	198					X												1		10.5	E			150												30" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
P–5	340+50		36' RT																																									REMOVE EXISTING 18" CGMP
P–6																																											DID NOT USE
P–7	342+20	340+00	37' LT	CB/CB						18	218					X										1				8.5	E			69												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
P–8	341+50	340+00	37' RT	CB/CB						30	148					X												1		10.5	E			116												30" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
P–9	341+50	341+50	59' RT	DI/CB						18	20					X								1						8.0	A			26												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
P–10	342+60		40' RT																																									REMOVE EXISTING 18" RCP
P–11	343+00	341+50	37' RT	CB/CB						24	148					X										1				10.0	E			94												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
P–12	344+35	342+20	37' LT	CB/CB						18	213					X										1				8.5	E			68												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
P–13	345+00	343+00	37' RT	CB/CB						24	198					X										1				10.0	E			121												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
P–14	343+00	343+00	60' RT	DI/CB						18	22					X								1						6.5	A			18												24" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
Q–1	*211+67	*211+99	23' LT	IN/OUT						18	32					X				2										2.0				6								31	I			18" OPTION PIPE (DRIVEWAY CULVERT), W/NEW OPTION END SECTIONS
Q–2	345+60		40' RT																																									REMOVE EXISTING PIPE
Q–3	346+25		37' RT																																									REMOVE EXISTING 30" CGMP
Q–4	346+47		133' RT																																									EXISTING PIPE AND HEADWALLS TO REMAIN
Q–5	346+58	346+81	72' RT	DI/CB						18	38					X								1						6.0	A			34												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
Q–6	346+81	344+35	37' LT	CB/CB						18	244					X										1				8.5	E			76												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
Q–7	346+81	345+00	42' RT	CB/CB						24	179					X										1				10.0	E			110												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
Q–8	349+25	346+81	37' LT	CB/CB						18	242					X										1				8.5	E			76												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
Q–9	349+25	346+81	37' RT	CB/CB						24	242					X										1				9.0	E			211												24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
Q–10	*212+80		18' RT																																									EXISTING PIPE TO REMAIN
Q–11	251+25		79' RT																																									REMOVE EXISTING 15" CULVERT
Q–12	350+00		38' RT																																									REMOVE EXISTING 30" PIPE WITH HEADWALL
Q–13																																											DID NOT USE
Q–14	*250+60	*250+66	38' RT	DI/CB						18	49					X								1						5.0	A			13												18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
Q–15	*250+66	351+25	16' LT	CB/CB						18	42					X										1				7.0	E			39												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
Q–16	251+13	251+64	27' RT	IN/OUT						18	51					X				2										2.0				10								40	I			18" OPTION PIPE (DRIVEWAY CULVERT), W/NEW OPTION END SECTIONS
R–1	351+25	349+25	37' LT	CB/CB						18	198					X										1				8.5	E			64												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
R–2	352+50		38' RT																																									REMOVE EXISTING 18" RCP
R–3	353+73	351+25	37' LT	CB/CB						18	2435					X										1				8.5	E			76												18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
COLUMN #2: SUB–TOTAL											4011									4				9		14		4						2122								71				

RECORD DRAWING REVISIONS

NO	DATE	DESCRIPTION
1.	7/24/09	FIELD MARK UPS ADDED TO THE PLANS

* = SIDE STREET OR JUGHANDLE OR DRIVE

(1) = GRATES ARE INCIDENTAL TO CATCH BASINS / DROP INLETS.

(2) = TRENCH ITEMS TO BE INCIDENTAL TO CULVERTS, STORM DRAINS, UNDERDRAIN AND STONE OUTLETS. QUANTITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.

PROJECT NAME: U.S. ROUTE 7: SHELBURNE ROAD (F.A.P.)

PROJECT NUMBER: NH–EGC–019–4 (27)

7/20/04

DRAINAGE
ITEM DETAIL DRAWING NO. 4
SHEET 71 OF 537 SHEETS