ALL COMPUTATIONS ARE IN THREE RING BINDERS

** INVERT ELEVATIONS ARE FOR PIPE RUNS**

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE STRUCTURES

** SEE #600 SERIES, THREE RING BINDERS FOR QUANTITIES 18" PIPE LENGTH LAID=19.67'

LAYOUT CODE	STATION	STATION	POSITION	TYPE	DITCH			PIPE				Modified Structures w/composite grade ring								ES		MH			DI		CB				DEPTH	DI/CB	GRATE(1)	CHAN ELEV	CRM	TR EXCAV (2)		INLET	OUTLET	STRUC	Dense Graded Stone	GRAN BORR	STONE FILL **		Date Initials	REMARKS
				IN/OUT	IN	OUT		6	12	18	24	MH (EA)			MH (EA)					12"	18"	24"	48"	60"	72"	30"x30"	(MOD.)	48"	60"	72"	96"	DI/CB					EARTH	ROCK	ELEV.	ELEV.	EXCAV					
								IN	IN	IN	IN	48"	60"	72"	48"	60"	72"	96"				EA	EA	EA	EA	EA	EA	EA	EA	EA		FT	TYPE	EA	CY	CY	CY	CY			CY	CY		
AA–15	407+75	406+33	44' LT	CB/CB						~~140~~ 138																	1				7.0	E			~~91~~ 5.0	~~1.5~~	142.94	138.89		1.8 1.5				5/04/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA–16	407+75	406+48	30' RT	CB/CB						125	~~125~~																1				7.5	E			~~111~~ 6.8		142.38	142.38		3.4				7/13/04 ABA	~~24"~~ 18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA–17	407+99		23' LT																																									REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH
AA–18	407+99		24' RT																																							5/31/05 ABA	REMOVE EXISTING PIPE TO WEST REMOVED CB & PIPE 11'LT
AA–19	408+45	407+75	44' LT	CB/CB						~~68~~ 66																	1				7.0	E			~~28~~ 6.2		143.26	142.94		2.8				5/06/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA–20	408+45	407+75	30' RT	CB/CB						68	~~68~~																1				7.5	E			~~39~~ 6.7		142.59	142.59		3.3				7/14/04 ABA	24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA–21	408+00		57' RT																																								8/16/05 ABA	REMOVE EXISTING CONCRETE HEADWALL, PIPE, AND END SECTION TO NORTH PARTIALLY REMOVED BY RRP 2005 (DONE)
AA–22	408+55		74' RT	OUT																		(1) ND																		~~6~~	~~11~~		REMOVE 6' OF EXISTING PIPE AND BUILD NEW END SECTION
AA–23	410+35	408+45	44' LT	CB/CB						188																	1				7.0	E			~~59~~ 6.54		144.71	143.32		3.2				9/26/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA–24	410+35	408+45	30' RT	CB/CB						188	~~188~~																1				8.0	E			~~96~~ 6.4		144.43	143.80		3.2				9/26/04 ABA	~~24"~~ 18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA–25	406+48	406+33	34.5' RT	CB/CB							~~75~~ 77																		1		12.5	E			~~103~~ 25.7		139.41	139.25		10.0				9/06/04 ABA	24" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E
AA–26	~~*392+66~~ *393+26	405+70	15' RT	MH/CB							~~221~~ 273												1								7.5				~~110~~ 6.35		157.5	157.22		3.2				9/17/04 ABA	24" OPTION PIPE, 48" DIA. MH WITH CI GRATE – TYPE E. CONNECT TO EXISTING PIPE IN
AA–27	408+95	~~410+68~~ 410+72	54.5' RT	IN/OUT							~~173~~ 177										~~2~~										2.5				~~56~~		148.89	148.51						10/04/04 ABA	24" OPTION PIPE WITH END SECTIONS
AA–28	406+35	~~406+65~~ *403+50	62' LT	DI/OUT							~~291~~ 291										~~1~~	~~1~~					1				9.0	E			~~262~~ 18.0		141.26	138.50		3.0		~~4.5~~	~~11~~	9/26/04 RRP	24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E, ~~AND END SECTION~~ EXISTING STRUCTURE INV. IN=135.50
AB–1	412+00		23' LT																																									REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH
AB–2	412+77	410+35	44' LT	CB/CB						~~240~~ 239																	1				7.0	E			~~73~~ 6.03		146.66	144.42		3.0				5/11/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AB–3	412+48		23' RT																																									REMOVE EXISTING STRUCTURE AND PIPE TO SOUTHWEST REMOVED BY WATERLINE CREW 2003
AB–4	412+60	410+35	34.5' RT	CB/CB						223																	1				8.5	E			~~97~~ 8.8		145.67	145.47		——				9/31/04 ABA	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AB–5	~~412+90~~ 412+91	~~412+50~~ 412+49	54' RT	IN/OUT							~~60~~ 59										(2)										2.5				19		150.07	149.55						10/04/04 ABA	24" OPTION PIPE WITH END SECTIONS
AB–6	412+61		67' RT	OUT						24												(1) ND																		~~5~~	~~11~~		REMOVE 12' OF EXISTING PIPE AND BUILD NEW END SECTION
AB–7	NA																																										DID NOT USE
AB–8	414+25	412+60	30' RT	CB/CB						163																	1				8.5	E			~~77~~ 9.02		146.85	146.85		4.2				9/02/04 ABA	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AB–9	415+00	412+77	44' LT	CB/CB						221																	1				7.0	E			~~68~~ 6.05		6" 148.86	18" 146.44		2.8				5/17/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AB–10	416+15		70' LT																																1										EXISTING STRUCTURE TO REMAIN. PLUG EXISTING PIPE OPENING TO EAST
AB–11	416+15		24' RT																																									REMOVE EXISTING STRUCTURE AND PIPE, WEST TO STRUCTURE AB–10
AB–12	416+70		44' LT	CB/CB																									1			E			19.5		18" N 149.19	42" W 147.75	~~37~~	6.2				5/26/04 RRP	CONNECT EXISTING 48" CMP TO NEW CB, REMOVE EXISTING PIPE NORTHEAST TO JUNCTION
AB–13	412+48		38' RT																																									REMOVE EXISTING HEADWALL AND PIPE TO WEST
AB–14	416+15		37' RT																																									REMOVE EXISTING STRUCTURE AND PIPE, WEST TO STRUCTURE AB–11
AC–1	417+99		30' RT																																									REMOVE EXISTING STRUCTURE AND PIPE TO SOUTHEAST
AC–2	419+20	416+70	44' LT	CB/CB						~~248~~ 250																	1				7.0	E			~~88~~ 6.04		154.82	149.19		2.7				5/03/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AC–3	418+70	417+36	30' RT	CB/CB						~~132~~ 131																	1				7.0	E			~~51~~ 5.8		153.41	150.29						9/22/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AC–4	419+00		38' LT																																									REMOVE EXISTING STRUCTURE AND PIPE TO EAST
AC–5	419+00		23' LT																																									REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH
AC–6	421+39		30' RT																																									REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH
AC–7	421+50		23' LT																																									REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH
AC–8	421+50		23' RT																																									REMOVE EXISTING STRUCTURE AND PIPE TO WEST
AC–9	421+70	419+20	44' LT	CB/CB						~~248~~ 247																	1				7.0	E			~~75~~ 7.8 18.3		161.09	154.87		22.5				5/08/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AC–10	421+70	418+70	30' RT	CB/CB						298																	1				8.5	E			~~122~~ 10.0		160.03	159.48		5.1				9/13/04 ABA	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 18" INV. FROM EAST=160.09
AC–11	*411+65	421+70	CL	CB/CB						50																	1				6.0	E			~~22~~ 5.41		160.57	160.54		2.7				5/18/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AC–12	417+03		23' LT																																1										CONVERT EXISTING STRUCTURE TO MANHOLE AND ADJUST TO GRADE
AC–13	417+68		45' RT																																									REMOVE EXISTING HEADWALL AND 42" RCP SOUTHWEST TO STRUCTURE AC–12
AC–14	417+79	417+36	73' RT	DI/CB							~~60~~ 54															~~1~~	1				4.0	A			~~60~~ 4.0		153.12	152.81		4.0				9/20/04 RRP	24" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
AC–15	417+36	416+70	30' RT	CB/CB							~~94~~ 131																		1		9.0	E			~~70~~ 26.9		149.71	149.05		3.7				9/17/04 RRP	24" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E AC–15 FROM AC–14 INV. IN= 150.04
AC–16	417+22	418+32	93' RT																																									EXISTING 15" PVC TO REMAIN.
COLUMN #3: SUB–TOTAL								0	0	2619	~~3574~~ 1062										~~7~~	2				1		15		3				2		~~1777~~ 221.34	~~1.5~~			~~37~~	92.3		~~15.5~~			FILE NAME: DRAINAGE–3_4rev.DWG

NOTES: * = SIDE STREET OR JUGHANDLE OR DRIVE
(1) = GRATES ARE INCIDENTAL TO CATCH BASINS / DROP INLETS.
* FINAL QUANTITIES SHOWN IN RED

(2) = TRENCH ITEMS ARE 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 (28)

DRAINAGE AS–BUILTS
ITEM DETAIL DRAWING NO. 3
SHEET 45 OF 283 SHEETS

C:\6330008 (US Rte 7 Shelburne Rd)\AS-BUILTS\DRAINAGE\DRAINAGE-3_4rev.DWG, 6/28/2006 2:21:58 PM