* ALL COMPUTATIONS ARE IN THREE RING BINDERS

ITEM DETAIL AND DRAINAGE SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

INVERT ELEVATIONS ARE FOR PIPE RUNS

DRAINAGE STRUCTURES

** SEE #600 SERIES THREE RING BINDERS FOR QUANTITIES

LAYOUT CODE	STATION	STATION	POSITION	TYPE IN/OUT	DITCH IN	DITCH OUT		PIPE 6 IN	PIPE 12 IN	PIPE 18 IN	PIPE 24 IN	Modified Structures w/composite grade ring: MH (EA) 48"	MH (EA) 60"	MH (EA) 72"	CB (EA) 48"	CB (EA) 60"	CB (EA) 72"	CB (EA) 96"	ES 12"	ES 18"	ES 24"	MH 48" EA	MH 60" EA	MH 72" EA	DI 30"x30" (MOD.) EA	DI EA	CB 48" EA	CB 60" EA	CB 72" EA	CB 96" EA	DEPTH DI/CB FT	DI/CB GRATE(1) TYPE	CHAN ELEV EA	CRM CY	TR EXCAV (2) EARTH CY	TR EXCAV (2) ROCK CY	INLET ELEV.	OUTLET ELEV.	STRUC EXCAV CY	Dense Graded Stone CY	GRAN BORR CY		STONE FILL ** CY	STONE FILL ** TYPE	Date Initials	REMARKS 1 LENGTH 18" LAID = 19.67'
X-5	389+93	390+16	30' RT	CB/CB						✓ 31																1					7.0	E			~~18~~ 5.6		154.35	152.96							08/18/04 STW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
X-6	389+93		31' RT																																									REMOVE EXISTING STRUCTURE, PIPE, AND HEADWALL NORTHEAST
X-7	390+16	390+45	51' RT	CB/CB						~~28~~ 27																1					7.5	E			~~19~~ 6.4		152.96	152.59							10/28/03 STW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
X-8	390+17		51' RT																																									10/28/03 STW	REMOVE EXISTING STRUCTURE AND CROSSOVER PIPE NORTH
X-9	390+45		51' RT																																									10/20/03 STW	REMOVE EXISTING STRUCTURE AND PIPE NORTH
X-10	NA																																											DID NOT USE
X-11	390+45	390+57	51' RT	CB/CB						✓ 92																1					8.0	E			~~51~~ 7.5		152.33	151.71							10/20/03 STW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E. CONNECT TO EXISTING PIPE RUNNING WEST
X-12	391+23		CL	IN/OUT																																		~~1171~~			~~230~~	~~III~~		~~SEE DRAWING PC1~~ SEE THREE RING BINDERS W/ APPROPRIATE ITEMS FOR ALL QUANTITIES
X-13	391+10		CL																																									10/04/03 STW	REMOVE EXISTING PIPE
X-14	391+91		82' RT																																										EXISTING RETENTION TANK TO REMAIN ✓
X-15	392+08		66' RT																																										EXISTING DI TO REMAIN ✓
Y-1	393+20	395+15	44' LT	CB/CB						~~193~~ 192																1					7.0	E			~~61~~ 6.74		150.70	149.36		3.21					05/11/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 05/07/04 TO 05/11/04 9 LENGTHS & 16'
Y-2	~~393+20~~ 393+98	395+15	30' RT	CB/CB						~~193~~ 114																1					7.0	E			~~61~~ 6.28		150.16	149.10		3.14					09/23/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 09/22/04 TO 09/23/04 5 LENGTHS & 15'
Y-3	395+15	397+00	44' LT	CB/CB						✓ 183																1					7.0	E			~~58~~ 6.26		149.36	148.37							05/07/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 05/04/04 TO 05/06/04 9 LENGTHS & 6'
Y-4	395+15	396+74	30' RT	CB/CB						✓ 157																1					7.0	E			~~49~~ 5.94	~~1.07~~	149.13	147.90		2.97					09/21/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 09/20/04 TO 09/21/04 8 LENGTHS
Y-5	395+82		30' RT																																									09/15/04 GLW	REMOVE EXISTING STRUCTURE AND EXISTING 18" CMP SOUTH, AND EXISTING 18' CMP NORTH
Y-6	397+14	397+14	30' RT	CB/OUT						✓ 32										(1) ND						1					7.5	E			~~27~~ 6.71		147.67	147.06		3.35			~~4~~	+	10/19/04 STW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E, AND END SECTION
Y-7	397+00	397+00	44' LT	CB/OUT						~~29~~ 24										✓ 1						1					7.5	E			~~25~~ 0		147.59	147.43		1.42		10.67	~~4~~	+	04/30/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E, AND END SECTION
Y-8	398+26		68' LT																													1														EXISTING MANHOLE TO REMAIN. ADJUST TO GRADE
Y-9	398+32		CL	IN/MH						~~135~~																												~~927~~			~~105~~	~~III~~		~~SEE DRAWING CPC1~~ SEE THREE RING BINDERS W/ APPROPRIATE ITEMS FOR ALL QUANTITIES
Y-10	397+87	398+24	76' LT	DI/MH						~~33~~ 35															1					3.5	A			~~21~~ 4.0		144.00	141.71		0.12					04/27/04 GLW	18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
Y-11	396+75		32' LT																																									09/15/04 GLW	REMOVE EXISTING STRUCTURE AND EXISTING 15" PVC TO EAST
Y-12	396+66	396+74	62' RT						74	~~30~~																					6.0		1		~~30~~		153.99	147.94							09/15/04 GLW	18" OPTION PIPE, EXISTING DI TO REMAIN. ADJUST TO GRADE PAID AS 12 ADS, PER 2 RUNS OF 8" SDR-35 @ 37' EACH USED TO AVOID DUCT BANK CONFLICT. AGREEMENT WITH SUPER
Y-13	396+74	397+14	30' RT	CB/CB						~~40~~ 38																1					7.5	E			~~21~~ 6.76		147.90	147.67		3.37					09/21/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 1 LENGTH & 18'
Z-1	400+55	402+55	44' LT	CB/CB						~~198~~ 197																1					7.0	E			~~62~~ 9.69		146.41	145.39		4.65					08/24/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 08/20/04 TO 08/23/04 10 LENGTHS
Z-2	400+05	402+70	30' RT	CB/CB						✓ 263																1					7.0	E			93 4.30			147.76		2.1					08/24/04 ABA	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
Z-3	402+55	405+24	44' LT	CB/CB						~~289~~ 263																1					7.0	E			~~86~~ 6.54		145.39	143.84		3.29					08/19/04 GLW	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E 08/12/04 TO 08/19/04 13 LENGTHS & 7'
Z-4	402+70	405+24	30' RT	CB/CB						~~274~~ 250																1					8.5	E			~~132~~ 8.2		144.19	142.60		——					08/23/04 ABA	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
Z-5	402+70	402+70	50' RT	DI/CB						~~20~~ 18															1					8.0	A			~~28~~ 7.7			146.78		——					08/23/04 ABA	18" OPTION PIPE, 30" X 30" DI WITH CI GRATE – TYPE A
AA-1	405+24	406+33	48.5' LT	CB/CB						~~110~~ 104																1					7.0	E			~~51~~ 5.8		143.76	141.90		2.9					08/12/04 ABA	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA-2	405+24	406+48	30' RT	CB/CB						✓ 122																1					8.5	E			~~68~~ 9.8		142.60	139.93		4.9					08/05/04 ABA	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA-3	*401+20		42' LT								✓																																			REMOVE EXISTING PIPE AND HEADWALLS
AA-4	405+70	406+14	53' RT	CB/CB							~~42~~ 51															1					8.0	E			~~31~~ 7.8		142.98	142.60		3.7					08/09/04 ABA	24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA-5	405+83		48' RT																																										REMOVE EXISTING STRUCTURE AND EXISTING HEADWALL AND PIPE SOUTH / REMOVED 6/10/05 & 6/11/05
AA-6	406+12		48' RT																																										REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH / REMOVED 6/10/05 & 6/11/05
AA-7	406+14	406+48	53' RT	CB/DI							~~38~~ 50															1					8.0	E			~~48~~ 6.6		142.6	142.22		3.3					08/04/04 ABA	24" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AA-8	406+33		47' RT																																										REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH / REMOVED CB & PART OF PIPE WEST
AA-9	406+35		62' LT																																										REMOVE EXISTING STRUCTURE AND PIPE TO SOUTH
AA-10	406+33		50' LT																																										REMOVE EXISTING STRUCTURE AND PIPE TO WEST
AA-11	406+33		67' RT																																										REMOVE EXISTING CONTROL STRUCTURE AND PIPE TO WEST AND NORTH. RESET STRUCTURE TO AA-13.
AA-12	406+33	405+68	44' LT	CB/OUT							~~302~~ 305										~~1~~							1			12.5	E			~~365~~ 1.5 30.8		138.24	135.53		1.5 4.0 1.5			~~4.5~~	~~II~~	04/21/04 RRP	24" OPTION PIPE, 72" DIA. CB WITH CI GRATE – TYPE E, ~~AND END SECTION~~ TIE INTO EXISTING STRUCTURE
AA-13	406+65	406+33	65' RT	DI/CB							~~125~~ 155											1									5.5	E			~~76~~ 8.63		142.22	142.22		——					07/19/04 ABA	24" OPTION PIPE WEST. RESET 48"x48" CONTROL STRUCTURE FROM AA-11. SEE NOTE 3 BELOW.
										~~15~~ 19																					5.5				~~18~~											18" OPTION PIPE NORTH WITH END SECTION.
AA-14	406+67		78' RT	OUT					~~12~~ 6											(1) ND																						~~1~~	~~II~~	6-7-05 RRP	REMOVE 6' OF EXISTING PIPE AND BUILD NEW END SECTION
NOT DONE			COLUMN #2: SUB-TOTAL						80	2161	~~3138~~ 561								1	~~4~~	1		2			18	1			2		~~1499~~ 169.55	~~1.07~~			~~2098~~	49.42			348.5				FILE NAME: DRAINAGE-2_4rev.DWG

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

(2) = TRENCH ITEMS ARE INCIDENTAL TO CULVERTS, STORM DRAINS, UNDERDRAIN AND STONE OUTLETS. QUANTITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.
(3) = IT WILL BE NECESSARY TO PUNCH A HOLE IN THE STRUCTURE TO ACCEPT A PIPE FROM THE SOUTH. PAYMENT TO COMPLETE THIS MODIFICATION IS SUBSIDARY TO ITEM 604.21.

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. 2
SHEET 44 OF 283 SHEETS