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 BINDER FOR QUANTITIES

LAYOUT CODE	STATION	STATION	POSITION	TYPE	DITCH			PIPE				Modified Structures w/composite grade ring							PIPE ELBOW	SUMP	MH			DI		CB				DEPTH	DI/CB	CHAN	CRM	TR EXCAV (2)		INLET	OUTLET	STRUC	Dense Graded	GRAN	EROS	STONE FILL		Date Initilas	REMARKS
				IN/OUT	IN	OUT		6"	12"	18"	24"	MH (EA)			CB (EA)						48"	60"	72"	30"x30"	(MOD.)	48"	60"	72"	96"	DI/CB	GRATE(1)	ELEV		EARTH	ROCK	ELEV.	ELEV.	EXCAV	Stone	BORR	MATT	TYPE			
								IN	IN	IN	IN	48"	60"	72"	48"	60"	72"	96"	NO-DEG	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	FT	TYPE	EA	CY	CY	CY			CY	CY	CY	SY	CY	TYPE		
AC-17	417+98	417+79	80' RT	CS/DI							19																					11											ALL CONNECTIONS TO EXISTING CONTROL STRUCTURE SHALL BE SUBSIDARY TO PIPE ITEMS.
AC-18	*412+96	*411+65	CL							129																1				7.0				~~36~~ 7.4		162.67	160.57		4.2					06/22/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AC-19	422+22		113' RT																																								EXISTING DI TO REMAIN
AD-1	*421+70		18' RT																																								EXISTING CB TO REMAIN
AD-2	423+97		24' RT																																								REMOVE EXISTING STRUCTURE AND 15" PIPE TO WEST ABA–REMOVED 21' 7'LT–14'RT 5–25–05 RRP–REMOVED STRUCTURE
AD-3	424+08		23' LT																																								REMOVE EXISTING STRUCTURE AND 18" PIPE TO SOUTH
AD-4	424+40	421+70	44' LT	CB/CB						268																1				9.5	E			~~124~~ 11.8		165.70	161.27		5.3 4.1					06/23/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E INV. IN FROM AD–30 = 166.62
AD-5	424+80	421+70	35' RT	CB/CB						~~308~~ 309																1				7.0	E			~~113~~ 5.9		168.90	160.09		2.9					09/28/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AD-6	424+83		30' RT																																								REMOVE EXISTING STRUCTURE AND 15" PIPE TO SOUTH
AD-7	426+03		29' LT																																								REMOVE EXISTING STRUCTURE AND 15" PIPE TO EAST
AD-8	426+03		24' LT																																								REMOVE EXISTING STRUCTURE AND 18" PIPE TO SOUTH AND NORTH
AD-9	426+20	424+40	44' LT	CB/CB						~~178~~ 176																1				7.0	E			~~83~~ 6.3	~~1.04~~ ~~1.5~~	172.38	165.70		1.0 3.2 1.5					06/14/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AD-10	426+20	424+80	30' RT	CB/CB						138																	1			5.5	E			~~31~~ 6.32		173.93	169.19		3.4					09/30/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E INV. IN FROM AD–24 = 174.20
AD-11	426+49		22' RT																																								REMOVE EXISTING STRUCTURE AND 15" PIPE TO SOUTHWEST
AD-12	427+05		46' LT																																								REMOVE EXISTING STRUCTURE AND PIPE TO EAST
AD-13	427+82		46' LT																																								REMOVE EXISTING STRUCTURE AND 4" PIPE, 30' LONG, TO SOUTHEAST AND PLUG PIPE
AD-14	424+12		27' RT																																								REMOVE EXISTING STRUCTURE
AD-15	428+02	426+20	40' LT	CB/CB						180																1				7.5	E			~~64~~ 6.9		176.19	172.38		3.4					06/16/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E INV. IN FROM EAST(18") = 176.47
AD-16	428+02	428+02	22' LT	MH/CB						13											1									8.0				~~14~~ 7.8		177.94	176.47		1.3					09/30/04 RRP	18" OPTION PIPE, 48" DIA. MH WITH CI COVER, ADJUST COVER TO GRADE
AD-17	428+02	426+20	32' RT	CB/CB						~~180~~ 179																1				5.5	E			~~20~~ 8.0		177.19	174.28		1.34						18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AD-18	428+22		32' RT																																								~~REMOVE EXISTING STRUCTURE AND 15" PIPE TO SOUTH~~ STRUCTURE NEVER IN PLACE
AD-19	428+55		32' RT																																								REMOVE EXISTING STRUCTURE AND 15" PIPE TO SOUTH, AND 10' OF 15" PIPE TO NORTH
AD-20	428+71	~~428+22~~ 428+02	33' RT	CB/MH						~~45~~ 51.8																1				5.5	E			~~12~~ 10.7		178.75	177.46		1.3					10/05/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AD-21	425+30		76' LT																																								EXISTING DI TO REMAIN
AD-22	423+03		111' RT																											3.5		1	5										CONVERT EXISTING STRUCTURE TO MANHOLE AND ADJUST TO GRADE
AD-23	423+04		120' RT																											9.5		1	14										CONVERT EXISTING STRUCTURE TO MANHOLE AND ADJUST TO GRADE
AD-24	426+54	426+20	46' RT							~~36~~ 35																				6.0				~~35~~ 0		175.29	174.20							10/01/04 RRP	18" OPTION PIPE. CONNECT FROM EXISTING MANHOLE TO PROPOSED STRUCTURE AD–10, REMOVE EXISTING 15" PIPE TO WEST
AD-25	428+22	428+02	32' RT	MH/CB						~~18~~											~~1~~									6.0				10										18" OPTION PIPE, ~~48" DIA. MH WITH 4' X 4' CI COVER~~ NOT NEEDED
AD-26	428+71		35' RT																																								REMOVE EXISTING STRUCTURE AND 15" PIPE TO SOUTH
AD-27	*421+71		18' LT																																								EXISTING CB TO REMAIN
AD-28	*421+00	*413+96	23' RT	CB/CB						~~100~~ 95																1				7.0	E			~~63~~ 6.03		164.91	162.71		3.0					06/23/04 RRP	18" OPTION PIPE, 48" DIA. CB WITH CI GRATE – TYPE E
AD-29	423+98		23' LT																																								REMOVE EXISTING STRUCTURE AND 18" PIPE TO SOUTH, AND 15" PIPE TO WEST
AD-30	424+00	424+40	61' LT	MH/CB						~~40~~ 48																				6				~~21~~ 12.1		167.75	166.62							06/29/04 RRP	REMOVE EXISTING STRUCTURE AND REPLACE 48" DIA. MH WITH 4' X 4' CI COVER AND 18" OPTION PIPE
SHEET #4: SUB–TOTALS										1621.8	~~1670~~										3					9						2		~~656~~ 89.25	~~2.54~~				35.94					
SUMMARY BY SHEETS																																											
DRAINAGE AS–BUILTS																																											
SHEET #1								129	2529	~~3097~~ 356											7			4		16	1				2		~~1206~~ 152.63	~~27.20~~				75.35		~~63~~			
SHEET #2								80	2161	~~3138~~ 561											4	1		2		18	1				2		~~1499~~ 169.55	~~1.07~~			~~2098~~	49.42		~~348.5~~			
SHEET #3								0	2619	~~3574~~ 1062											7	2		1		15	3				2		~~1777~~ 221.34	~~1.50~~			~~37~~	92.30		~~15.5~~			
SHEET #4								0	1621.8	~~1670~~ 0												3				9						2		~~656~~ 89.25	~~2.54~~				35.94					
TOTAL								209	8930.8	~~11479~~ 1979											18	6		7		58	5				8		~~5138~~ 632.77	~~32.31~~			~~2135~~	253.5		~~427~~			

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

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

↑ ALL ITEMS IN THIS COLUMN ARE IN THE 200–300 FINALS FOLDER

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. 4
SHEET 46 OF 283 SHEETS

C:\6330008 (US Rte 7 Shelburne Rd)\AS-BUILTS\DRAINAGE\DRAINAGE-4_4REV.DWG, 6/28/2006 2:38:22 PM