STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB		DEPTH DI	CONC CLASS B	REINF STEEL	DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS			PIPE #	REMARKS
			NO. DEG.	INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	NO. DEG.	EA	EA		FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA			
09+52.23	09+77.63	LT-RT	63.9904	PIPE	PIPE																																	1	1		1	CLEAN & FLUSH CULVERT LENGTH = 56.18'.
13+26.27	13+53.65	LT-RT	60.8335	PIPE	PIPE						30	56					X							4.54	662					63	1				63					1	1		2	REMOVE EXISTING HW AND EXISTING 18" CPEP.
																																										INSTALL NEW STRAIGHT HW AND 30" CPEP.
19+14.28	19+14.28	LT-RT	90	DI	PIPE						24	42					X				X	4.00				E			71	3				69					1	1		3	REMOVE DI AND 24" CMP. INSTALL 4'X6' DI WITH TWO
																																										CAST IRON GRATES (TYPE E) AND 24" CPEP
19+79.08	19+78.95	LT-RT	90	DI	PIPE						24	43					X				X	4.00				E			70	3				68					1	1		4	REMOVE DI AND 24" CMP. INSTALL 4'X6' DI WITH TWO
																																										CAST IRON GRATES (TYPE E) AND 24" CPEP.
23+61.48	23+69.48	LT	-	PIPE	PIPE																		2.85	516					16	1				16					1	1		5	REMOVE EXISTING HW. INSTALL NEW STRAIGHT HW.
																																										CLEAN AND FLUSH CULVERT LENGTH = 50.68'.
25+68.18	25+69.47	LT-RT	88.3053	PIPE	PIPE						24	45					X						2.85	516					70	1				67					1	1		6	REMOVE EXISTING HW AND EXISTING 24" CMP.
																																										INSTALL NEW STRAIGHT HW AND 24" CPEP.
29+20.62	29+26.62	RT-LT	-	PIPE	PIPE																		2.85	516					15	1				13					1	1		7	REMOVE EXISTING HW. INSTALL NEW STRAIGHT HW.
																																										CLEAN AND FLUSH CULVERT LENGTH = 41.42'.
33+15.03	33+13.46	RT-LT	-88.0575	DI	PIPE						24	44					X				X	4.00				E			74	4				72					1	1		8	REMOVE DI AND 18" CMP. INSTALL 4'X6' DI WITH TWO
																																										CAST IRON GRATES (TYPE E) AND 24" CPEP.
37+93.81	38+18.27	LT-RT	60.7104	PIPE	PIPE						24	50					X						2.85	516					51					48					1	1		9	REMOVE EXISTING CMP.
																																										INSTALL NEW HW AND 24" CPEP.
39+98.78	39+99.59	LT-RT	89.0231	DI	PIPE						24	44					X				X	4.00				E			57	4				55					1	1		10	REMOVE DI AND 18" CMP. INSTALL 4'X6' DI WITH TWO
																																										CAST IRON GRATES (TYPE E) AND 24" CPEP.
41+07.60	40+79.37	LT-RT	55.891	DI	PIPE						24	50					X				X	4.00				E			68	4				66					1	1		11	REMOVE DI AND 18" CMP. INSTALL 4'X6' DI WITH TWO
																																										CAST IRON GRATES (TYPE E) AND 24" CPEP
42+31.86	42+16.30	LT-RT	69.3096	DI	PIPE						24	44					X				X	4.00				E			60	3				59					1	1		12	REMOVE DI AND 18" CMP. INSTALL 4'X6' DI WITH TWO
																																										CAST IRON GRATES (TYPE E) AND 24" CPEP
44+64.57		LT-RT	59.6882	DI	PIPE																X	4.34				E			9	3				9					1	1		13	REMOVE EXISTING DI AND REPLACE WITH NEW DI WITH
																																										CAST IRON GRATE (TYPE E).
49+60.58	49+64.33	RT-LT	-85.1507	PIPE	PIPE																																			1	1		14	CLEAN & FLUSH CULVERT LENGTH = 44.40'.
																	X																										
52+64.92	52+65.14	LT-RT	89.7389	PIPE	PIPE						24	48											2.85	516					55	1				52					1	1		15	REMOVE EXISTING HW AND EXISTING 18" CMP.
																																											INSTALL NEW HW AND 24" CPEP.
56+38.17	56+40.54	RT-LT	-87.1028	PIPE	PIPE						24	48					X						2.85	516					43					43					1	1		16	REMOVE EXISTING 18" CMP.
																																											INSTALL NEW STRAIGHT HW AND 24" CPEP.
62+83.46	63+07.36	RT-LT	-62.9776	PIPE	PIPE																																			1	1		17	CLEAN & FLUSH CULVERT LENGTH = 52.26'.
66+67.00	66+70.70	RT-LT	-85.5323	PIPE	PIPE						24	50					X						2.85	516					53	1				53					1	1		18	REMOVE EXISTING 18" CMP.
																																											INSTALL NEW HW AND 24" CPEP.
69+56.15	69+87.02	RT-LT	-66.5291	PIPE	PIPE																																			1	1		19	CLEAN & FLUSH CULVERT LENGTH = 81.23'.
SUBTOTAL THIS SHEET																							24.5	4274					775	30				753					19	19			
ROUNDING																							5.5	-					5	2				7					--	--			
TOTALS																							30	4274					780	32				760					19	19			

PROJECT NAME: **GRANVILLE**
PROJECT NUMBER: **ER STP 013-4(40)**

FILE NAME: **z12b520.dgn**
PROJECT LEADER: **J. TUCKER**
DESIGNED BY: **B. MACK**
DRAINAGE DETAIL SHEET

PLOT DATE: **7/8/2015**
DRAWN BY: **O.DALMER**
CHECKED BY: **B. MARTIN**
SHEET **18** OF **141**