APPENDIX E

PRELIMINARY STORM DESIGN SHEETS

Appendix E1:
Storm Design Sheets

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

TOWN OF CALEDON

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
STREET "AL"																												
	216	217			0.00	0.00	0.27	0.70	0.53	0.53			0.00	0.00	10.00	109.64	134.16	196.80	70	300	300	PVC	5.00	51.5	216	3.06	0.28	0.33
	217	218			0.00	0.00	0.06	0.70	0.12	0.64			0.00	0.00	10.28	108.37	132.63	194.85	85	375	375	PVC	0.45	10.5	118	1.06	0.16	0.72
	218	219			0.00	0.00	0.37	0.70	0.72	1.36			0.00	0.00	10.44	107.64	131.74	193.73	179	525	525	CONC	0.45	70.0	288	1.33	0.88	0.62
	219	220			0.00	0.00	0.05	0.70	0.10	1.46			0.00	0.00	11.32	103.92	127.25	187.96	186	525	525	CONC	1.05	10.0	441	2.04	0.08	0.42
	220	223			0.00	0.00	0.33	0.70	0.64	2.10			0.00	0.00	11.40	103.59	126.84	187.44	267	525	525	CONC	1.40	62.0	509	2.35	0.44	0.52
To STREET "AL", Pipe 223 - 224						0.00				2.10				0.00	11.84													
STREET "AK"																												
	205	206			0.00	0.00	0.42	0.70	0.82	0.82			0.00	0.00	10.00	109.64	134.16	196.80	110	375	375	PVC	1.50	78.5	215	1.94	0.67	0.51
	206	207			0.00	0.00	0.38	0.70	0.74	1.56			0.00	0.00	10.67	106.65	130.54	192.19	203	450	450	CONC	0.95	71.5	278	1.75	0.68	0.73
	207	209			0.00	0.00	0.42	0.70	0.82	2.37			0.00	0.00	11.35	103.78	127.08	187.74	302	525	525	CONC	1.95	78.5	601	2.77	0.47	0.50
To STR. "Z", Pipe 209 - 225						0.00				2.37				0.00	11.83													
STREET "AJ"																												
Contribution From STREET "AN", Pipe 199 - 201						0.00				0.64				0.00	10.75													
Contribution From STREET "AN", Pipe 200 - 201						0.00				0.56				0.00	10.64													
	201	202			0.00	0.00	0.40	0.70	0.78	1.98			0.00	0.00	10.75	106.33	130.16	191.71	258	525	525	CONC	0.85	76.0	396	1.83	0.69	0.65
	202	203			0.00	0.00	0.40	0.70	0.78	2.76			0.00	0.00	11.44	103.45	126.67	187.22	350	525	525	CONC	1.95	76.0	601	2.77	0.46	0.58
	203	204			0.00	0.00	0.40	0.70	0.78	3.54			0.00	0.00	11.89	101.63	124.47	184.37	441	675	675	CONC	0.75	76.0	728	2.03	0.62	0.61
To STR. "Z", Pipe 204 - 209						0.00				3.54				0.00	12.52													
STREET "AG"																												
	192	193			0.00	0.00	0.30	0.70	0.58	0.58			0.00	0.00	10.00	109.64	134.16	196.80	78	300	300	PVC	1.85	55.5	132	1.86	0.50	0.60
	193	194			0.00	0.00	0.30	0.70	0.58	1.17			0.00	0.00	10.50	107.41	131.47	193.37	154	450	450	CONC	1.35	55.5	331	2.08	0.44	0.46
To Unknown Road24 - 50, Pipe 194 - 195						0.00				1.17				0.00	10.94													
Unknown Road9 - 1005																												
					0.00	0.00	0.20	0.70	0.39	0.39			0.00	0.00														
	138	139			0.00	0.00	2.43	0.75	5.07	5.46			0.00	0.00	10.00	109.64	134.16	196.80	732	750	750	CONC	1.10	37.5	1168	2.64	0.24	0.63
To STREET "AR", Pipe 139 - 140						0.00				5.46				0.00	10.24													
Unknown Road24 - 50																												
Contribution From STREET "AO", Pipe 187 - 189						0.00				0.82				0.00	10.96													
Contribution From STREET "AO", Pipe 188 - 189						0.00				0.58				0.00	10.68													
	189	190			0.00	0.00	0.37	0.70	0.72	2.12			0.00	0.00	10.96	105.40	129.04	190.27	274	450	450	CONC	1.80	69.5	383	2.41	0.48	0.72
Contribution From STREET "AN", Pipe 185 - 190						0.00				45.23				0.00	16.16													
	190	191			0.00	0.00	0.44	0.70	0.86	48.21			0.00	0.00	16.16	87.47	107.23	161.51	5170	1650	1650	CONC	0.85	82.5	8403	3.93	0.35	0.62
	191	194			0.00	0.00	0.40	0.70	0.78	48.99			0.00	0.00	16.51	86.49	106.04	159.89	5194	1650	1650	CONC	0.85	75.5	8403	3.93	0.32	0.62
Contribution From STREET "AG", Pipe 193 - 194						0.00				1.17				0.00	10.94													
	194	195			0.00	0.00	0.33	0.70	0.64	50.80			0.00	0.00	16.83	85.61	104.97	158.43	5332	1800	1800	CONC	0.40	63.0	7270	2.86	0.37	0.73
	195	198			0.00	0.00	0.05	0.70	0.10	50.89			0.00	0.00	17.19	84.63	103.77	156.79	5281	1800	1800	CONC	0.40	10.0	7270	2.86	0.06	0.73
To STR. "Z", Pipe 198 - 204						0.00				50.89				0.00	17.25													
Unknown Road5 - 1001																												
Contribution From STR. "Z", Pipe 209 - 225						0.00				60.18				0.00	18.20													
Contribution From STR. "Z", Pipe 215 - 225						0.00				2.98				0.00	13.64													
Contribution From STREET "AL", Pipe 224 - 225						0.00				3.91				0.00	12.29													
	225	226			0.00	0.00	0.06	0.70	0.12	67.18			0.00	0.00	18.20	82.07	100.63	152.49	6761	1950	1950	CONC	0.35	12.0	8418	2.82	0.07	0.80
	226	227			0.00	0.00	0.18	0.70	0.35	67.53			0.00	0.00	18.27	81.89	100.42	152.20	6782	1950	1950	CONC	0.35	34.0	8418	2.82	0.20	0.81
	227	228			0.00	0.00	0.27	0.65	0.49	68.02			0.00	0.00	18.47	81.40	99.82	151.37	6790	1950	1950	CONC	0.35	27.5	8418	2.82	0.16	0.81
STREET "AD"																												
	97	98			0.00	0.00	0.22	0.70	0.43	0.43			0.00	0.00	10.00	109.64	134.16	196.80	57	300	300	PVC	0.85	42.0	89	1.26	0.55	0.64
	98	99			0.00	0.00	0.35	0.70	0.68	1.11			0.00	0.00	10.55	107.16	131.16	192.98	145	375	375	PVC	1.85	65.5	238	2.16	0.51	0.61
	99	100			0.00	0.00	0.07	0.70	0.14	1.25			0.00	0.00	11.06	105.00	128.55	189.63	160	450	450	CONC	0.60	13.0	221	1.39	0.16	0.72
	100	101			0.00	0.00	0.34	0.70	0.66	1.91			0.00	0.00	11.22	104.35	127.76	188.63	244	525	525	CONC	0.60	63.5	333	1.54	0.69	0.73
To STR. "E", Pipe 101 - 108						0.00				1.91				0.00	11.90													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed:	G.G.	PROJECT:	SOLMAR WILDFEILD		
Checked:	E.G.	LOCATION:	TOWN OF CALEDON		
Dwg. Reference:		File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 1 OF 19	

STM_STD

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

	LOCATION		5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
STREET "AE"																												
	91	92			0.00	0.00	0.28	0.70	0.54	0.54			0.00	0.00	10.00	109.64	134.16	196.80	73	375	375	PVC	0.70	53.0	147	1.33	0.67	0.50
To STREET "B", Pipe 92 - 93						0.00				0.54				0.00	10.67													
	103	104			0.00	0.00	0.26	0.70	0.51	0.51			0.00	0.00	10.00	109.64	134.16	196.80	68	300	300	PVC	0.90	49.0	92	1.30	0.63	0.74
	104	105			0.00	0.00	0.50	0.70	0.97	1.48			0.00	0.00	10.63	106.84	130.77	192.48	193	450	450	CONC	1.05	95.0	292	1.84	0.86	0.66
	105	106			0.00	0.00	0.07	0.70	0.14	1.62			0.00	0.00	11.49	103.23	126.41	186.88	204	450	450	CONC	1.05	13.0	292	1.84	0.12	0.70
	106	107			0.00	0.00	0.36	0.70	0.70	2.32			0.00	0.00	11.61	102.75	125.83	186.14	291	450	450	CONC	2.10	67.0	413	2.60	0.43	0.71
	107	108			0.00	0.00	0.35	0.70	0.68	3.00			0.00	0.00	12.04	101.07	123.79	183.48	371	600	600	CONC	1.30	66.5	700	2.48	0.45	0.53
To STR. "E", Pipe 108 - 109						0.00				3.00				0.00	12.49													
STREET "Y"																												
	74	75			0.00	0.00	0.22	0.70	0.43	0.43			0.00	0.00	10.00	109.64	134.16	196.80	57	300	300	PVC	0.75	40.5	84	1.18	0.57	0.69
To STREET "W", Pipe 75 - 78						0.00				0.43				0.00	10.57													
	85	86			0.00	0.00	0.44	0.70	0.86	0.86			0.00	0.00	10.00	109.64	134.16	196.80	115	450	450	CONC	0.75	83.5	247	1.55	0.90	0.47
To STREET "B", Pipe 86 - 88						0.00				0.86				0.00	10.90													
STREET "B"																												
	83	84			0.00	0.00	0.28	0.70	0.54	0.54			0.00	0.00	10.00	109.64	134.16	196.80	73	375	375	PVC	1.00	52.5	175	1.59	0.55	0.42
To STREET "B", Pipe 84 - 86						0.00				0.54				0.00	10.55													
	182	183			0.00	0.00	0.04	0.70	0.08	0.08			0.00	0.00	10.00	109.64	134.16	196.80	10	300	300	PVC	0.90	8.0	92	1.30	0.10	0.11
	183	184			0.00	0.00	0.05	0.70	0.10	0.18			0.00	0.00	10.10	109.17	133.60	196.08	23	300	300	PVC	0.55	10.5	72	1.01	0.17	0.33
	184	185			0.00	0.00	0.43	0.70	0.84	1.01			0.00	0.00	10.28	108.40	132.66	194.89	134	450	450	CONC	0.75	80.5	247	1.55	0.86	0.54
To STREET "AN", Pipe 185 - 190						0.00				1.01				0.00	11.14													
STR."X"																												
	179	180			0.00	0.00	0.42	0.70	0.82	0.82			0.00	0.00	10.00	109.64	134.16	196.80	110	375	375	PVC	0.70	79.0	147	1.33	0.99	0.75
To STREET "AN", Pipe 180 - 181						0.00				0.82				0.00	10.99													
	179	81			0.00	0.00	0.07	0.70	0.14	0.14			0.00	0.00	10.00	109.64	134.16	196.80	18	300	300	PVC	2.10	14.0	140	1.98	0.12	0.13
	81	84			0.00	0.00	0.32	0.70	0.62	0.76			0.00	0.00	10.12	109.11	133.51	195.97	101	375	375	PVC	1.90	60.5	242	2.19	0.46	0.42
To STREET "B", Pipe 84 - 86						0.00				0.76				0.00	10.58													
STREET "AE"																												
	70	71			0.00	0.00	0.35	0.70	0.68	0.68			0.00	0.00	10.00	109.64	134.16	196.80	91	375	375	PVC	1.55	66.5	218	1.98	0.56	0.42
To STR. "E", Pipe 71 - 95						0.00				0.68				0.00	10.56													
	70	89			0.00	0.00	0.36	0.70	0.70	0.70			0.00	0.00	10.00	109.64	134.16	196.80	94	450	450	CONC	0.40	67.0	180	1.13	0.98	0.52
	89	90			0.00	0.00	0.07	0.70	0.14	0.84			0.00	0.00	10.98	105.31	128.93	190.13	108	450	450	CONC	0.40	13.0	180	1.13	0.19	0.60
	90	92			0.00	0.00	0.35	0.70	0.68	1.52			0.00	0.00	11.18	104.52	127.97	188.89	194	525	525	CONC	0.40	65.0	272	1.26	0.86	0.71
To STREET "B", Pipe 92 - 93						0.00				1.52				0.00	12.04													
STREET "W"																												
	144	145			0.00	0.00	0.29	0.70	0.56	0.56			0.00	0.00	10.00	109.64	134.16	196.80	76	300	300	PVC	1.55	55.0	120	1.70	0.54	0.63
To STREET "AP", Pipe 145 - 146						0.00				0.56				0.00	10.54													
	177	178			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.60	35.0	75	1.06	0.55	0.63
To STREET "AN", Pipe 178 - 180						0.00				0.35				0.00	10.55													
	76	78			0.00	0.00	0.36	0.70	0.70	0.70			0.00	0.00	10.00	109.64	134.16	196.80	94	375	375	PVC	0.75	67.0	152	1.37	0.81	0.62
To STR. "Z", Pipe 78 - 79						0.00				0.70				0.00	10.81													
	175	176			0.00	0.00	0.23	0.70	0.45	0.45			0.00	0.00	10.00	109.64	134.16	196.80	60	300	300	PVC	0.75	44.0	84	1.18	0.62	0.72
	176	178			0.00	0.00	0.39	0.70	0.76	1.21			0.00	0.00	10.62	106.88	130.82	192.55	158	450	450	CONC	1.40	73.0	337	2.12	0.57	0.47
To STREET "AN", Pipe 178 - 180						0.00				1.21				0.00	11.19													
	67	68			0.00	0.00	0.37	0.70	0.72	0.72			0.00	0.00	10.00	109.64	134.16	196.80	97	300	300	PVC	2.90	69.5	165	2.33	0.50	0.59

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 2 OF 19

STM_STD

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

	LOCATION		5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
	68	69			0.00	0.00	0.38	0.70	0.74	1.46			0.00	0.00	10.50	107.41	131.47	193.37	192	450	450	CONC	2.10	71.0	413	2.60	0.46	0.46
To STR. "E", Pipe 69 - 71						0.00				1.46				0.00	10.95													
	72	73			0.00	0.00	0.31	0.70	0.60	0.60			0.00	0.00	10.00	109.64	134.16	196.80	81	375	375	PVC	1.20	58.5	192	1.74	0.56	0.42
	73	75			0.00	0.00	0.31	0.70	0.60	1.21			0.00	0.00	10.56	107.13	131.13	192.94	158	450	450	CONC	0.55	58.5	211	1.33	0.73	0.75
Contribution From STREET "Y", Pipe 74 - 75						0.00				0.43				0.00	10.57													
	75	78			0.00	0.00	0.37	0.70	0.72	2.35			0.00	0.00	11.29	104.03	127.38	188.13	300	600	600	CONC	0.45	70.0	412	1.46	0.80	0.73
To STR. "Z", Pipe 78 - 79						0.00				2.35				0.00	12.09													
STREET "V"																												
	173	174			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.70	34.5	81	1.14	0.50	0.58
To STREET "AN", Pipe 174 - 178						0.00				0.35				0.00	10.50													
	170	171			0.00	0.00	0.30	0.70	0.58	0.58			0.00	0.00	10.00	109.64	134.16	196.80	78	375	375	PVC	0.85	55.5	162	1.46	0.63	0.48
	171	172			0.00	0.00	0.38	0.70	0.74	1.32			0.00	0.00	10.63	106.82	130.76	192.46	173	450	450	CONC	1.30	71.0	325	2.04	0.58	0.53
	172	174			0.00	0.00	0.38	0.70	0.74	2.06			0.00	0.00	11.21	104.37	127.79	188.66	264	525	525	CONC	1.50	71.0	527	2.43	0.49	0.50
To STREET "AN", Pipe 174 - 178						0.00				2.06				0.00	11.70													
	61	62			0.00	0.00	0.50	0.70	0.97	0.97			0.00	0.00	10.00	109.64	134.16	196.80	131	450	450	CONC	0.80	93.5	255	1.60	0.97	0.51
	62	63			0.00	0.00	0.50	0.70	0.97	1.95			0.00	0.00	10.97	105.37	129.00	190.21	251	525	525	CONC	0.75	93.5	372	1.72	0.91	0.67
	63	64			0.00	0.00	0.38	0.70	0.74	2.69			0.00	0.00	11.88	101.69	124.55	184.47	334	600	600	CONC	0.75	71.0	532	1.88	0.63	0.63
	64	65			0.00	0.00	0.38	0.70	0.74	3.42			0.00	0.00	12.51	99.30	121.64	180.68	417	600	600	CONC	1.80	71.0	824	2.91	0.41	0.51
	65	66			0.00	0.00	0.38	0.70	0.74	4.16			0.00	0.00	12.91	97.81	119.84	178.32	499	675	675	CONC	1.15	71.0	901	2.52	0.47	0.55
To STR. "E", Pipe 66 - 69						0.00				4.16				0.00	13.38													
Unknown Road21 - 18																												
	37	38			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.50	33.5	68	0.97	0.58	0.69
To Unknown Road1 - 02, Pipe 38 - 39						0.00				0.35				0.00	10.58													
	35	36			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.50	33.5	68	0.97	0.58	0.69
Contribution From STREET "G", Pipe 34 - 36						0.00				1.36				0.00	11.50													
	36	38			0.00	0.00	0.37	0.70	0.72	2.43			0.00	0.00	11.50	103.20	126.38	186.84	307	600	600	CONC	0.45	70.0	412	1.46	0.80	0.75
To Unknown Road1 - 02, Pipe 38 - 39						0.00				2.43				0.00	12.30													
Unknown Road1 - 02																												
Contribution From Unknown Road21 - 18, Pipe 36 - 38						0.00				2.43				0.00	12.30													
Contribution From Unknown Road21 - 18, Pipe 37 - 38						0.00				0.35				0.00	10.58													
	38	39			0.00	0.00	0.38	0.70	0.74	3.52			0.00	0.00	12.30	100.08	122.59	181.92	432	750	750	CONC	0.40	71.0	704	1.59	0.74	0.61
	39	40			0.00	0.00	0.38	0.70	0.74	4.26			0.00	0.00	13.04	97.36	119.28	177.60	508	750	750	CONC	0.40	71.0	704	1.59	0.74	0.72
	40	42			0.00	0.00	0.38	0.70	0.74	5.00			0.00	0.00	13.78	94.79	116.16	173.47	581	825	825	CONC	0.40	71.0	908	1.70	0.70	0.64
To STREET "U", Pipe 42 - 43						0.00				5.00				0.00	14.48													
STREET "AA"																												
Contribution From STREET "Q", Pipe 26 - 28						0.00				0.47				0.00	10.70													
Contribution From STR. "A", Pipe 27 - 28						0.00				0.35				0.00	10.47													
	28	29			0.00	0.00	0.40	0.70	0.78	1.60			0.00	0.00	10.70	106.51	130.38	191.98	208	525	525	CONC	0.55	75.5	319	1.47	0.85	0.65
	29	30			0.00	0.00	0.36	0.70	0.70	2.30			0.00	0.00	11.56	102.96	126.08	186.45	290	600	600	CONC	0.75	68.5	532	1.88	0.61	0.54
	30	31			0.00	0.00	0.36	0.70	0.70	3.00			0.00	0.00	12.17	100.58	123.20	182.72	369	600	600	CONC	1.00	68.5	614	2.17	0.53	0.60
To STREET "U", Pipe 31 - 32						0.00				3.00				0.00	12.69													
STR. "R"																												
	157	158			0.00	0.00	0.23	0.70	0.45	0.45			0.00	0.00	10.00	109.64	134.16	196.80	60	300	300	PVC	0.90	43.5	92	1.30	0.56	0.65
To STREET "AN", Pipe 158 - 163						0.00				0.45				0.00	10.56													
	1	2			0.00	0.00	0.17	0.70	0.33	0.33			0.00	0.00	10.00	109.64	134.16	196.80	44	300	300	PVC	0.80	32.0	86	1.22	0.44	0.51
	2	3			0.00	0.00	0.07	0.70	0.14	0.47			0.00	0.00	10.44	107.68	131.79	193.79	62	300	300	PVC	0.75	13.0	84	1.18	0.18	0.73
	3	8			0.00	0.00	0.35	0.70	0.68	1.15			0.00	0.00	10.62	106.88	130.83	192.55	150	450	450	CONC	0.65	66.5	230	1.45	0.77	0.65
To STR. "A", Pipe 8 - 11						0.00				1.15				0.00	11.39													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.		PROJECT:	SOLMAR WILDFEILD		
Checked: E.G.		LOCATION:	TOWN OF CALEDON		
Dwg. Reference:		File Ref: 24-1401		Date: Aug 2025	Sheet No. SHEET 3 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
			AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	Time of Conc.	Intensity 5 Year	Intensity 10 Year	Intensity 100 Year	Peak Flow	DIA. (mm)	DIA. (mm)	TYPE	SLOPE	LENGTH	CAPACITY	VELOCITY	TIME OF FLOW	RATIO
Street	From MH	To MH	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(min)	(mm/h)	(mm/h)	(mm/h)	Q (l/s)	(actual)	(nominal)		(%)	(m)	(l/s)	(m/s)	(min.)	Q/Q full
STREET "S"																												
Contribution From STREET "O", Pipe 10 - 11						0.00				1.05				0.00	11.44													
Contribution From STR. "A", Pipe 8 - 11						0.00				3.64				0.00	12.15													
	11	12			0.00	0.00	0.38	0.70	0.74	5.43			0.00	0.00	12.15	100.64	123.27	182.81	669	750	750	CONC	0.65	71.5	898	2.03	0.59	0.75
	12	15			0.00	0.00	0.38	0.70	0.74	6.17			0.00	0.00	12.74	98.45	120.61	179.34	744	750	750	CONC	1.30	71.5	1269	2.87	0.41	0.59
To STREET "T", Pipe 15 - 21						0.00				6.17				0.00	13.15													
STREET "T"																												
	162	163			0.00	0.00	0.23	0.70	0.45	0.45			0.00	0.00	10.00	109.64	134.16	196.80	60	300	300	PVC	0.75	43.5	84	1.18	0.61	0.72
To STREET "AN", Pipe 163 - 169						0.00				0.45				0.00	10.61													
	13	14			0.00	0.00	0.29	0.70	0.56	0.56			0.00	0.00	10.00	109.64	134.16	196.80	76	300	300	PVC	1.20	54.0	106	1.50	0.60	0.71
	14	15			0.00	0.00	0.29	0.70	0.56	1.13			0.00	0.00	10.60	106.96	130.92	192.67	148	375	375	PVC	1.85	54.0	238	2.16	0.42	0.62
Contribution From STREET "S", Pipe 12 - 15						0.00				6.17				0.00	13.15													
	15	21			0.00	0.00	0.37	0.70	0.72	8.02			0.00	0.00	13.15	96.96	118.81	176.97	953	900	900	CONC	0.70	70.0	1515	2.38	0.49	0.63
To STR. "Z", Pipe 21 - 25						0.00				8.02				0.00	13.64													
STR. "Z"																												
	24	25			0.00	0.00	0.19	0.70	0.37	0.37			0.00	0.00	10.00	109.64	134.16	196.80	50	300	300	PVC	0.80	35.0	86	1.22	0.48	0.57
To STREET "U", Pipe 25 - 31						0.00				0.37				0.00	10.48													
	87	88			0.00	0.00	0.13	0.70	0.25	0.25			0.00	0.00	10.00	109.64	134.16	196.80	34	300	300	PVC	0.40	24.5	61	0.87	0.47	0.55
To STREET "B", Pipe 88 - 92						0.00				0.25				0.00	10.47													
	211	212			0.00	0.00	0.48	0.70	0.93	0.93			0.00	0.00	10.00	109.64	134.16	196.80	125	450	450	CONC	0.40	89.5	180	1.13	1.32	0.69
	212	213			0.00	0.00	0.14	0.70	0.27	1.21			0.00	0.00	11.32	103.94	127.27	187.99	154	450	450	CONC	0.55	26.0	211	1.33	0.33	0.73
	213	214			0.00	0.00	0.05	0.70	0.10	1.30			0.00	0.00	11.64	102.62	125.68	185.93	164	525	525	CONC	0.40	9.5	272	1.26	0.13	0.60
	214	215			0.00	0.00	0.43	0.70	0.84	2.14			0.00	0.00	11.77	102.13	125.07	185.15	268	600	600	CONC	0.40	80.5	388	1.37	0.98	0.69
	215	225			0.00	0.00	0.43	0.70	0.84	2.98			0.00	0.00	12.74	98.42	120.58	179.30	359	675	675	CONC	0.40	80.0	532	1.49	0.90	0.68
To Unknown Road5 - 1001, Pipe 225 - 226						0.00				2.98				0.00	13.64													
	77	78			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.80	33.5	86	1.22	0.46	0.54
Contribution From STREET "W", Pipe 75 - 78						0.00				2.35				0.00	12.09													
Contribution From STREET "W", Pipe 76 - 78						0.00				0.70				0.00	10.81													
	78	79			0.00	0.00	0.38	0.70	0.74	4.14			0.00	0.00	12.09	100.85	123.53	183.15	512	750	750	CONC	0.40	72.0	704	1.59	0.75	0.73
	79	88			0.00	0.00	0.38	0.70	0.74	4.88			0.00	0.00	12.85	98.05	120.12	178.70	587	750	750	CONC	1.15	72.0	1194	2.70	0.44	0.49
To STREET "B", Pipe 88 - 92						0.00				4.88				0.00	13.29													
Contribution From STR. "A", Pipe 17 - 19						0.00				1.05				0.00	11.48													
Contribution From STR. "A", Pipe 18 - 19						0.00				0.35				0.00	10.47													
	19	20			0.00	0.00	0.38	0.70	0.74	2.14			0.00	0.00	11.48	103.28	126.47	186.96	271	600	600	CONC	0.65	71.5	495	1.75	0.68	0.55
	20	21			0.00	0.00	0.38	0.70	0.74	2.88			0.00	0.00	12.16	100.61	123.23	182.76	355	600	600	CONC	0.90	71.5	583	2.06	0.58	0.61
Contribution From STREET "T", Pipe 15 - 21						0.00				8.02				0.00	13.64													
	21	25			0.00	0.00	0.37	0.70	0.72	11.62			0.00	0.00	13.64	95.27	116.74	174.25	1356	1050	1050	CONC	0.45	70.0	1832	2.12	0.55	0.74
To STREET "U", Pipe 25 - 31						0.00				11.62				0.00	14.19													
	196	197			0.00	0.00	0.30	0.70	0.58	0.58			0.00	0.00	10.00	109.64	134.16	196.80	78	375	375	PVC	0.80	57.0	157	1.42	0.67	0.50
	197	198			0.00	0.00	0.34	0.70	0.66	1.25			0.00	0.00	10.67	106.66	130.56	192.22	163	450	450	CONC	1.05	64.0	292	1.84	0.58	0.56
Contribution From Unknown Road24 - 50, Pipe 195 - 198						0.00				50.89				0.00	17.25													
	198	204			0.00	0.00	0.33	0.70	0.64	52.78			0.00	0.00	17.25	84.48	103.58	156.53	5467	1800	1800	CONC	0.75	63.0	9955	3.91	0.27	0.55
Contribution From STREET "AJ", Pipe 203 - 204						0.00				3.54				0.00	12.52													
	204	209			0.00	0.00	0.37	0.70	0.72	57.04			0.00	0.00	17.52	83.78	102.72	155.36	5860	1800	1800	CONC	0.50	70.0	8128	3.19	0.37	0.72
Contribution From STREET "AK", Pipe 207 - 209						0.00				2.37				0.00	11.83													
	209	225			0.00	0.00	0.39	0.70	0.76	60.18			0.00	0.00	17.89	82.84	101.58	153.80	6113	1800	1800	CONC	0.75	73.0	9955	3.91	0.31	0.61
To Unknown Road5 - 1001, Pipe 225 - 226						0.00				60.18				0.00	18.20													
STREET "U"																												
	135	136			0.00	0.00	0.16	0.70	0.31	0.31			0.00	0.00	10.00	109.64	134.16	196.80	42	300	300	PVC	0.40	29.5	61	0.87	0.57	0.68
To STREET "AR", Pipe 136 - 137						0.00				0.31				0.00	10.57													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 4 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
			AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	Time of Conc.	Intensity 5 Year	Intensity 10 Year	Intensity 100 Year	Peak Flow	DIA. (mm)	DIA. (mm)	TYPE	SLOPE	LENGTH	CAPACITY	VELOCITY	TIME OF FLOW	RATIO
Street	From MH	To MH	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(min)	(mm/h)	(mm/h)	(mm/h)	Q (l/s)	(actual)	(nominal)		(%)	(m)	(l/s)	(m/s)	(min.)	Q/Q full
	168	169			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.55	34.5	72	1.01	0.57	0.66
To STREET "AN", Pipe 169 - 174						0.00				0.35				0.00	10.57													
	165	166			0.00	0.00	0.11	0.70	0.21	0.21			0.00	0.00	10.00	109.64	134.16	196.80	29	300	300	PVC	0.75	20.5	84	1.18	0.29	0.34
Contribution From STREET "AY", Pipe 164 - 166						0.00				0.53				0.00	10.57													
	166	167			0.00	0.00	0.38	0.70	0.74	1.48			0.00	0.00	10.57	107.09	131.08	192.88	194	450	450	CONC	2.15	71.5	418	2.63	0.45	0.46
	167	169			0.00	0.00	0.38	0.70	0.74	2.22			0.00	0.00	11.02	105.15	128.74	189.88	286	600	600	CONC	0.45	71.5	412	1.46	0.82	0.69
To STREET "AN", Pipe 169 - 174						0.00				2.22				0.00	11.84													
	41	42			0.00	0.00	0.17	0.70	0.33	0.33			0.00	0.00	10.00	109.64	134.16	196.80	44	300	300	PVC	0.50	31.0	68	0.97	0.53	0.65
Contribution From Unknown Road1 - 02, Pipe 40 - 42						0.00				5.00				0.00	14.48													
	42	43			0.00	0.00	0.38	0.70	0.74	6.07			0.00	0.00	14.48	92.51	113.38	169.78	688	900	900	CONC	0.40	71.5	1145	1.80	0.66	0.60
	43	60			0.00	0.00	0.38	0.70	0.74	6.81			0.00	0.00	15.14	90.44	110.87	166.41	755	900	900	CONC	0.40	71.5	1145	1.80	0.66	0.66
To STR. "E", Pipe 60 - 66						0.00				6.81				0.00	15.80													
	22	23			0.00	0.00	0.50	0.70	0.97	0.97			0.00	0.00	10.00	109.64	134.16	196.80	131	450	450	CONC	0.75	94.0	247	1.55	1.01	0.53
	23	25			0.00	0.00	0.50	0.70	0.97	1.95			0.00	0.00	11.01	105.21	128.81	189.97	251	525	525	CONC	1.10	94.0	451	2.08	0.75	0.56
Contribution From STR. "Z", Pipe 21 - 25						0.00				11.62				0.00	14.19													
Contribution From STR. "Z", Pipe 24 - 25						0.00				0.37				0.00	10.48													
	25	31			0.00	0.00	0.37	0.70	0.72	14.65			0.00	0.00	14.19	93.43	114.51	171.28	1678	1200	1200	CONC	0.50	70.0	2757	2.44	0.48	0.61
Contribution From STREET "AA", Pipe 30 - 31						0.00				3.00				0.00	12.69													
	31	32			0.00	0.00	0.38	0.70	0.74	18.39			0.00	0.00	14.67	91.90	112.64	168.79	2071	1200	1200	CONC	0.55	71.5	2891	2.56	0.47	0.72
	32	60			0.00	0.00	0.38	0.70	0.74	19.13			0.00	0.00	15.14	90.46	110.88	166.43	2121	1200	1200	CONC	1.30	71.5	4445	3.93	0.30	0.48
To STR. "E", Pipe 60 - 66						0.00				19.13				0.00	15.44													
STREET "G"																												
	58	59			0.00	0.00	0.33	0.70	0.64	0.64			0.00	0.00	10.00	109.64	134.16	196.80	86	300	300	PVC	2.10	61.0	140	1.98	0.51	0.61
To STR. "E", Pipe 59 - 60						0.00				0.64				0.00	10.51													
	33	34			0.00	0.00	0.35	0.70	0.68	0.68			0.00	0.00	10.00	109.64	134.16	196.80	91	375	375	PVC	0.75	65.5	152	1.37	0.79	0.60
	34	36			0.00	0.00	0.35	0.70	0.68	1.36			0.00	0.00	10.79	106.12	129.91	191.38	177	450	450	CONC	0.75	65.5	247	1.55	0.70	0.72
To Unknown Road21 - 18, Pipe 36 - 38						0.00				1.36				0.00	11.50													
STREET "AB"																												
Contribution From STR. "A", Pipe 53 - 54						0.00				0.39				0.00	10.41													
	54	55			0.00	0.00	0.36	0.70	0.70	1.09			0.00	0.00	10.41	107.81	131.95	193.99	144	450	450	CONC	0.75	67.5	247	1.55	0.72	0.58
	55	56			0.00	0.00	0.36	0.70	0.70	1.79			0.00	0.00	11.13	104.70	128.19	189.18	230	525	525	CONC	0.90	68.0	408	1.88	0.60	0.56
	56	57			0.00	0.00	0.05	0.70	0.10	1.89			0.00	0.00	11.73	102.27	125.24	185.37	236	525	525	CONC	0.55	10.5	319	1.47	0.12	0.74
	57	59			0.00	0.00	0.33	0.70	0.64	2.53			0.00	0.00	11.85	101.80	124.67	184.64	315	525	525	CONC	1.85	62.5	585	2.70	0.39	0.54
To STR. "E", Pipe 59 - 60						0.00				2.53				0.00	12.24													
STR. "A"																												
	18	19			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.75	33.5	84	1.18	0.47	0.56
To STR. "Z", Pipe 19 - 20						0.00				0.35				0.00	10.47													
	27	28			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	0.75	33.5	84	1.18	0.47	0.56
To STREET "AA", Pipe 28 - 29						0.00				0.35				0.00	10.47													
	50	51			0.00	0.00	0.26	0.70	0.51	0.51			0.00	0.00	10.00	109.64	134.16	196.80	68	300	300	PVC	2.75	48.5	160	2.27	0.36	0.42
To STR. "E", Pipe 51 - 52						0.00				0.51				0.00	10.36													
	53	54			0.00	0.00	0.20	0.70	0.39	0.39			0.00	0.00	10.00	109.64	134.16	196.80	52	300	300	PVC	1.30	38.0	110	1.56	0.41	0.47
To STREET "AB", Pipe 54 - 55						0.00				0.39				0.00	10.41													
	7	8			0.00	0.00	0.34	0.70	0.66	0.66			0.00	0.00	10.00	109.64	134.16	196.80	89	375	375	PVC	1.05	65.0	180	1.63	0.67	0.49

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 5 OF 19

STM_STD

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
Contribution From STR. "R", Pipe 3 - 8						0.00				1.15				0.00	11.39													
Contribution From STR. "N", Pipe 6 - 8						0.00				1.13				0.00	11.51													
	8	11			0.00	0.00	0.36	0.70	0.70	3.64			0.00	0.00	11.51	103.16	126.32	186.77	460	675	675	CONC	0.55	67.0	623	1.74	0.64	0.74
To STREET "S", Pipe 11 - 12						0.00				3.64				0.00	12.15													
STREET "Q"																												
	26	28			0.00	0.00	0.24	0.70	0.47	0.47			0.00	0.00	10.00	109.64	134.16	196.80	63	375	375	PVC	0.45	45.0	118	1.06	0.70	0.53
To STREET "AA", Pipe 28 - 29						0.00				0.47				0.00	10.70													
	45	46			0.00	0.00	0.04	0.70	0.08	0.08			0.00	0.00	10.00	109.64	134.16	196.80	10	300	300	PVC	0.80	8.0	86	1.22	0.11	0.12
	46	47			0.00	0.00	0.35	0.70	0.68	0.76			0.00	0.00	10.11	109.15	133.56	196.03	101	375	375	PVC	0.90	65.5	166	1.51	0.72	0.61
	47	49			0.00	0.00	0.35	0.70	0.68	1.44			0.00	0.00	10.83	105.95	129.71	191.12	187	525	525	CONC	0.75	65.5	372	1.72	0.63	0.50
To STR. "E", Pipe 49 - 51						0.00				1.44				0.00	11.47													
Unknown Road6 - 1002																												
Contribution From STR. "E", Pipe 109 - 113						0.00				67.21				0.00	19.53													
Contribution From STR. "E", Pipe 111 - 113						0.00				0.80				0.00	10.93													
	113	114			0.00	0.00	0.09	0.70	0.18	68.19			0.00	0.00	19.53	78.92	96.77	147.15	6599	1950	1950	CONC	0.40	17.0	9000	3.01	0.09	0.73
	114	115			0.00	0.00	0.36	0.65	0.65	68.84			0.00	0.00	19.62	78.71	96.51	146.78	6644	1950	1950	CONC	0.40	36.0	9000	3.01	0.20	0.74
STR. "N"																												
	246	248			0.00	0.00	0.23	0.69	0.44	0.44			0.00	0.00	10.00	109.64	134.16	196.80	59	300	300	PVC	0.70	43.5	81	1.14	0.63	0.73
To STREET "AN", Pipe 248 - 250						0.00				0.44				0.00	10.63													
	4	5			0.00	0.00	0.17	0.70	0.33	0.33			0.00	0.00	10.00	109.64	134.16	196.80	44	300	300	PVC	0.65	32.5	78	1.10	0.49	0.57
	5	6			0.00	0.00	0.07	0.70	0.14	0.47			0.00	0.00	10.49	107.44	131.50	193.41	61	300	300	PVC	0.75	13.0	84	1.18	0.18	0.73
	6	8			0.00	0.00	0.34	0.70	0.66	1.13			0.00	0.00	10.67	106.64	130.54	192.18	147	450	450	CONC	0.50	63.5	202	1.27	0.83	0.73
To STR. "A", Pipe 8 - 11						0.00				1.13				0.00	11.51													
Unknown Road7 - 1003																												
Contribution From STREET "AN", Pipe 250 - 252						0.00				2.40				0.00	11.56													
Contribution From STREET "AN", Pipe 251 - 252						0.00				0.29				0.00	10.41													
	252	253			0.00	0.00	0.34	0.65	0.61	3.30			0.00	0.00	11.56	102.97	126.09	186.47	416	675	675	CONC	0.45	34.0	564	1.58	0.36	0.74
	253	254			0.00	0.00	0.07	0.65	0.13	3.43			0.00	0.00	11.91	101.55	124.37	184.24	426	750	750	CONC	0.40	6.5	704	1.59	0.07	0.61
STREET "BA"																												
	342	343			0.00	0.00	0.39	0.69	0.75	0.75			0.00	0.00	10.00	109.64	134.16	196.80	100	375	375	PVC	0.75	72.5	152	1.37	0.88	0.66
	343	344			0.00	0.00	0.49	0.69	0.94	1.69			0.00	0.00	10.88	105.76	129.47	190.82	219	525	525	CONC	0.75	91.0	372	1.72	0.88	0.59
To STREET "AR", Pipe 344 - 345						0.00				1.69				0.00	11.76													
STREET "AX"																												
	353	355			0.00	0.00	0.33	0.69	0.63	0.63			0.00	0.00	10.00	109.64	134.16	196.80	85	375	375	PVC	0.75	63.0	152	1.37	0.76	0.56
To STREET "BG", Pipe 355 - 356						0.00				0.63				0.00	10.76													
	159	160			0.00	0.00	0.35	0.70	0.68	0.68			0.00	0.00	10.00	109.64	134.16	196.80	91	375	375	PVC	1.05	66.5	180	1.63	0.68	0.51
	160	161			0.00	0.00	0.05	0.70	0.10	0.78			0.00	0.00	10.68	106.61	130.50	192.13	102	375	375	PVC	0.60	10.5	136	1.23	0.14	0.75
	161	163			0.00	0.00	0.33	0.70	0.64	1.42			0.00	0.00	10.82	106.00	129.76	191.19	184	450	450	CONC	1.05	62.5	292	1.84	0.57	0.63
To STREET "AN", Pipe 163 - 169						0.00				1.42				0.00	11.39													
STREET "AY"																												
	164	166			0.00	0.00	0.27	0.70	0.53	0.53			0.00	0.00	10.00	109.64	134.16	196.80	70	375	375	PVC	0.90	51.5	166	1.51	0.57	0.42
To STREET "U", Pipe 166 - 167						0.00				0.53				0.00	10.57													
Contribution From STREET "BG", Pipe 355 - 356						0.00				1.53				0.00	11.28													
	356	357			0.00	0.00	0.05	0.69	0.10	1.63			0.00	0.00	11.28	104.08	127.43	188.20	208	525	525	CONC	0.50	10.0	304	1.40	0.12	0.68
	351	352			0.00	0.00	0.41	0.69	0.79	0.79			0.00	0.00	10.00	109.64	134.16	196.80	106	375	375	PVC	0.85	77.5	162	1.46	0.88	0.65
	352	357			0.00	0.00	0.45	0.69	0.86	1.65			0.00	0.00	10.88	105.75	129.45	190.80	214	525	525	CONC	0.95	85.0	419	1.94	0.73	0.51

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 6 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
Contribution From STREET "BG", Pipe 350 - 357						0.00				5.64				0.00	13.96													
	357	358			0.00	0.00	0.31	0.69	0.59	9.51			0.00	0.00	13.96	94.20	115.44	172.52	1098	900	900	CONC	0.75	58.5	1568	2.46	0.40	0.70
To STREET "BD", Pipe 358 - 359						0.00				9.51				0.00	14.36													
Unknown Road12 - 1008																												
	323	324			0.00	0.00	0.41	0.74	0.84	0.84			0.00	0.00	10.00	109.64	134.16	196.80	113	450	450	CONC	0.45	89.0	191	1.20	1.23	0.59
	324	325			0.00	0.00	0.41	0.74	0.84	1.69			0.00	0.00	11.23	104.28	127.68	188.52	215	525	525	CONC	0.45	89.0	288	1.33	1.11	0.75
	325	326			0.00	0.00	0.41	0.74	0.84	2.53			0.00	0.00	12.35	99.90	122.37	181.63	310	675	675	CONC	0.40	89.0	532	1.49	1.00	0.58
	326	327			0.00	0.00	0.41	0.74	0.84	3.37			0.00	0.00	13.34	96.29	117.98	175.88	398	675	675	CONC	0.65	89.0	678	1.89	0.78	0.59
	327	328			0.00	0.00	0.41	0.74	0.84	4.22			0.00	0.00	14.13	93.64	114.77	171.62	484	675	675	CONC	0.80	89.0	752	2.10	0.71	0.64
	328	329			0.00	0.00	0.41	0.74	0.84	5.06			0.00	0.00	14.83	91.39	112.02	167.96	567	675	675	CONC	1.20	89.0	921	2.57	0.58	0.62
	329	330			0.00	0.00	0.41	0.74	0.84	5.90			0.00	0.00	15.41	89.63	109.88	165.08	649	825	825	CONC	0.60	89.0	1112	2.08	0.71	0.58
To Unknown Road20 - 16, Pipe 330 - 331						0.00				5.90				0.00	16.12													
Unknown Road20 - 16																												
Contribution From Unknown Road12 - 1008, Pipe 329 - 330						0.00				5.90				0.00	16.12													
	330	331			0.00	0.00	0.41	0.74	0.84	6.75			0.00	0.00	16.12	87.56	107.35	161.66	724	825	825	CONC	1.15	89.0	1539	2.88	0.52	0.47
To STREET "BE", Pipe 331 - 337						0.00				6.75				0.00	16.64													
STREET "BE"																												
Contribution From STREET "B", Pipe 318 - 319						0.00				0.73				0.00	11.06													
	319	320			0.00	0.00	0.02	0.69	0.04	0.77			0.00	0.00	11.06	105.01	128.56	189.65	99	450	450	CONC	0.40	3.0	180	1.13	0.04	0.55
To STREET "B", Pipe 320 - 321						0.00				0.77				0.00	11.10													
Contribution From Unknown Road20 - 16, Pipe 330 - 331						0.00				6.75				0.00	16.64													
	331	337			0.00	0.00	0.14	0.69	0.27	7.02			0.00	0.00	16.64	86.12	105.59	159.28	741	825	825	CONC	0.65	26.5	1157	2.16	0.20	0.64
	332	333			0.00	0.00	0.24	0.69	0.46	0.46			0.00	0.00	10.00	109.64	134.16	196.80	62	300	300	PVC	0.80	46.0	86	1.22	0.63	0.71
	333	334			0.00	0.00	0.06	0.69	0.12	0.58			0.00	0.00	10.63	106.85	130.78	192.50	75	375	375	PVC	1.00	10.5	175	1.59	0.11	0.43
	334	335			0.00	0.00	0.39	0.69	0.75	1.32			0.00	0.00	10.74	106.37	130.21	191.76	172	450	450	CONC	0.75	73.5	247	1.55	0.79	0.70
	335	336			0.00	0.00	0.06	0.69	0.12	1.44			0.00	0.00	11.53	103.09	126.24	186.66	182	450	450	CONC	0.75	11.5	247	1.55	0.12	0.74
	336	337			0.00	0.00	0.30	0.69	0.58	2.01			0.00	0.00	11.65	102.59	125.64	185.88	253	600	600	CONC	0.40	55.5	388	1.37	0.67	0.65
	337	338			0.00	0.00	0.07	0.69	0.13	9.16			0.00	0.00	16.84	85.57	104.91	158.36	961	900	900	CONC	0.55	13.0	1343	2.11	0.10	0.72
	338	339			0.00	0.00	0.42	0.69	0.81	9.97			0.00	0.00	16.95	85.29	104.58	157.90	1043	975	975	CONC	0.40	78.5	1417	1.90	0.69	0.74
	339	340			0.00	0.00	0.42	0.69	0.81	10.78			0.00	0.00	17.63	83.48	102.37	154.87	1103	975	975	CONC	0.45	78.5	1503	2.01	0.65	0.73
To STREET "BD", Pipe 340 - 341						0.00				10.78				0.00	18.28													
STREET "BF"																												
	298	300			0.00	0.00	0.44	0.69	0.84	0.84			0.00	0.00	10.00	109.64	134.16	196.80	113	375	375	PVC	0.75	83.5	152	1.37	1.01	0.75
To STREET "BG", Pipe 300 - 306						0.00				0.84				0.00	11.01													
	301	302			0.00	0.00	0.07	0.69	0.13	0.13			0.00	0.00	10.00	109.64	134.16	196.80	18	300	300	PVC	0.90	13.0	92	1.30	0.17	0.20
	302	303			0.00	0.00	0.35	0.69	0.67	0.81			0.00	0.00	10.17	108.88	133.24	195.63	107	450	450	CONC	0.55	66.5	211	1.33	0.83	0.51
	303	304			0.00	0.00	0.07	0.69	0.13	0.94			0.00	0.00	11.00	105.25	128.85	190.03	121	450	450	CONC	0.40	13.5	180	1.13	0.20	0.67
	304	305			0.00	0.00	0.27	0.69	0.52	1.46			0.00	0.00	11.20	104.42	127.85	188.74	186	525	525	CONC	0.45	51.5	288	1.33	0.64	0.65
	305	306			0.00	0.00	0.27	0.69	0.52	1.98			0.00	0.00	11.84	101.83	124.71	184.68	246	600	600	CONC	0.50	51.0	434	1.54	0.55	0.57
To STREET "BG", Pipe 306 - 314						0.00				1.98				0.00	12.40													
Unknown Road15 - 11																												
	284	285			0.00	0.00	0.49	0.69	0.94	0.94			0.00	0.00	10.00	109.64	134.16	196.80	126	375	375	PVC	1.05	72.5	180	1.63	0.74	0.70
	285	286			0.00	0.00	0.16	0.69	0.31	1.25			0.00	0.00	10.74	106.34	130.18	191.72	162	450	450	CONC	0.65	23.5	230	1.45	0.27	0.71
	286	287			0.00	0.00	0.27	0.69	0.52	1.76			0.00	0.00	11.01	105.19	128.78	189.94	227	525	525	CONC	0.70	40.0	360	1.66	0.40	0.63
To Unknown Road4 - 09, Pipe 287 - 291						0.00				1.76				0.00	11.41													
Unknown Road16 - 12																												
	269	281			0.00	0.00	0.38	0.69	0.73	0.73			0.00	0.00	10.00	109.64	134.16	196.80	98	300	300	PVC	2.40	56.5	150	2.12	0.44	0.65
	281	282			0.00	0.00	0.16	0.69	0.31	1.04			0.00	0.00	10.44	107.64	131.75	193.73	136	375	375	PVC	1.35	23.5	204	1.84	0.21	0.67
	282	283			0.00	0.00	0.23	0.69	0.44	1.48			0.00	0.00	10.66	106.72	130.63	192.30	193	450	450	CONC	0.85	33.5	263	1.65	0.34	0.73
To Unknown Road4 - 09, Pipe 283 - 287						0.00				1.48				0.00	10.99													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed:	G.G.	PROJECT:	SOLMAR WILDFEILD		
Checked:	E.G.	LOCATION:	TOWN OF CALEDON		
Dwg. Reference:		File Ref:	24-1401	Date: Aug 2025	Sheet No. SHEET 7 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
Unknown Road17 - 13																												
Contribution From Unknown Road19 - 15, Pipe 256 - 258						0.00				1.27				0.00	11.06													
Contribution From Unknown Road19 - 15, Pipe 257 - 258						0.00				0.31				0.00	10.32													
	258	260			0.00	0.00	0.48	0.69	0.92	2.49			0.00	0.00	11.06	105.01	128.57	189.66	321	600	600	CONC	0.75	70.0	532	1.88	0.62	0.60
Contribution From Unknown Road18 - 14, Pipe 259 - 260						0.00				0.31				0.00	10.44													
	260	261			0.00	0.00	0.36	0.69	0.69	3.49			0.00	0.00	11.68	102.48	125.50	185.71	438	675	675	CONC	0.55	53.5	623	1.74	0.51	0.70
	261	266			0.00	0.00	0.25	0.69	0.48	3.97			0.00	0.00	12.19	100.49	123.09	182.58	489	675	675	CONC	0.65	37.0	678	1.89	0.33	0.72
To Unknown Road19 - 15, Pipe 266 - 267						0.00				3.97				0.00	12.51													
Unknown Road18 - 14																												
	259	260			0.00	0.00	0.16	0.69	0.31	0.31			0.00	0.00	10.00	109.64	134.16	196.80	41	300	300	PVC	0.40	23.0	61	0.87	0.44	0.67
To Unknown Road17 - 13, Pipe 260 - 261						0.00				0.31				0.00	10.44													
	275	276			0.00	0.00	0.40	0.69	0.77	0.77			0.00	0.00	10.00	109.64	134.16	196.80	103	375	375	PVC	0.75	59.0	152	1.37	0.72	0.68
	276	277			0.00	0.00	0.40	0.69	0.77	1.53			0.00	0.00	10.72	106.46	130.32	191.91	200	525	525	CONC	0.70	59.0	360	1.66	0.59	0.56
To STREET "BG", Pipe 277 - 278						0.00				1.53				0.00	11.31													
Unknown Road19 - 15																												
	257	258			0.00	0.00	0.16	0.69	0.31	0.31			0.00	0.00	10.00	109.64	134.16	196.80	41	300	300	PVC	0.75	23.0	84	1.18	0.32	0.49
To Unknown Road17 - 13, Pipe 258 - 260						0.00				0.31				0.00	10.32													
	255	256			0.00	0.00	0.08	0.69	0.15	0.15			0.00	0.00	10.00	109.64	134.16	196.80	21	300	300	PVC	1.20	12.0	106	1.50	0.13	0.19
	256	258			0.00	0.00	0.58	0.69	1.11	1.27			0.00	0.00	10.13	109.04	133.43	195.86	169	450	450	CONC	0.75	86.0	247	1.55	0.92	0.68
To Unknown Road17 - 13, Pipe 258 - 260						0.00				1.27				0.00	11.06													
	271	272			0.00	0.00	0.39	0.69	0.75	0.75			0.00	0.00	10.00	109.64	134.16	196.80	100	375	375	PVC	0.75	57.0	152	1.37	0.69	0.66
	272	274			0.00	0.00	0.42	0.69	0.81	1.55			0.00	0.00	10.69	106.57	130.45	192.07	203	525	525	CONC	0.75	61.0	372	1.72	0.59	0.54
To STREET "BG", Pipe 274 - 277						0.00				1.55				0.00	11.28													
	262	263			0.00	0.00	0.53	0.69	1.02	1.02			0.00	0.00	10.00	109.64	134.16	196.80	136	450	450	CONC	1.05	77.5	292	1.84	0.70	0.47
	263	264			0.00	0.00	0.53	0.69	1.02	2.03			0.00	0.00	10.70	106.52	130.38	191.99	265	525	525	CONC	0.70	78.0	360	1.66	0.78	0.74
	264	265			0.00	0.00	0.10	0.69	0.19	2.23			0.00	0.00	11.49	103.25	126.43	186.91	281	600	600	CONC	0.55	15.0	455	1.61	0.16	0.62
	265	266			0.00	0.00	0.47	0.69	0.90	3.13			0.00	0.00	11.64	102.63	125.68	185.94	393	675	675	CONC	0.70	68.5	703	1.97	0.58	0.56
Contribution From Unknown Road17 - 13, Pipe 261 - 266						0.00				3.97				0.00	12.51													
	266	267			0.00	0.00	0.28	0.69	0.54	7.63			0.00	0.00	12.51	99.27	121.61	180.64	928	900	900	CONC	0.50	40.5	1280	2.01	0.34	0.73
	267	268			0.00	0.00	0.36	0.69	0.69	8.32			0.00	0.00	12.85	98.04	120.11	178.69	1000	975	975	CONC	0.40	52.5	1417	1.90	0.46	0.71
	268	278			0.00	0.00	0.36	0.69	0.69	9.02			0.00	0.00	13.31	96.40	118.13	176.07	1065	975	975	CONC	0.70	52.5	1875	2.51	0.35	0.57
To STREET "BG", Pipe 278 - 280						0.00				9.02				0.00	13.66													
STREET "BG"																												
	154	156			0.00	0.00	0.22	0.70	0.43	0.43			0.00	0.00	10.00	109.64	134.16	196.80	57	300	300	PVC	0.75	41.0	84	1.18	0.58	0.69
To STREET "AN", Pipe 156 - 158						0.00				0.43				0.00	10.58													
	315	316			0.00	0.00	0.27	0.69	0.52	0.52			0.00	0.00	10.00	109.64	134.16	196.80	69	375	375	PVC	0.40	50.0	111	1.00	0.83	0.63
	316	317			0.00	0.00	0.30	0.69	0.58	1.09			0.00	0.00	10.83	105.97	129.73	191.15	142	525	525	CONC	0.40	55.5	272	1.26	0.74	0.52
To STREET "B", Pipe 317 - 321						0.00				1.09				0.00	11.57													
	354	355			0.00	0.00	0.12	0.69	0.23	0.23			0.00	0.00	10.00	109.64	134.16	196.80	31	300	300	PVC	2.00	23.0	137	1.93	0.20	0.23
Contribution From STREET "AX", Pipe 353 - 355						0.00				0.63				0.00	10.76													
	355	356			0.00	0.00	0.35	0.69	0.67	1.53			0.00	0.00	10.76	106.25	130.07	191.59	200	450	450	CONC	1.40	66.0	337	2.12	0.52	0.59
To STREET "AY", Pipe 356 - 357						0.00				1.53				0.00	11.28													
Contribution From STREET "BB", Pipe 347 - 348						0.00				1.04				0.00	11.12													
	348	349			0.00	0.00	0.37	0.69	0.71	1.75			0.00	0.00	11.12	104.76	128.27	189.27	224	450	450	CONC	1.10	70.0	299	1.88	0.62	0.75
Contribution From STREET "AR", Pipe 345 - 349						0.00				3.15				0.00	13.24													
	349	350			0.00	0.00	0.34	0.69	0.65	5.54			0.00	0.00	13.24	96.64	118.41	176.45	656	825	825	CONC	0.40	63.0	908	1.70	0.62	0.72
	350	357			0.00	0.00	0.05	0.69	0.10	5.64			0.00	0.00	13.86	94.53	115.84	173.05	653	825	825	CONC	0.40	10.0	908	1.70	0.10	0.72
To STREET "AY", Pipe 357 - 358						0.00				5.64				0.00	13.96													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed:	G.G.	PROJECT:	SOLMAR WILDFEILD		
Checked:	E.G.	LOCATION:	TOWN OF CALEDON		
Dwg. Reference:		File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 8 OF 19	

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

	LOCATION		5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
			AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	Time of Conc.	Intensity 5 Year	Intensity 10 Year	Intensity 100 Year	Peak Flow	DIA. (mm)	DIA. (mm)	TYPE	SLOPE	LENGTH	CAPACITY	VELOCITY	TIME OF FLOW	RATIO
Street	From MH	To MH	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(min)	(mm/h)	(mm/h)	(mm/h)	Q (l/s)	(actual)	(nominal)		(%)	(m)	(l/s)	(m/s)	(min.)	Q/Q full
Contribution From Unknown Road23 - 42, Pipe 270 - 274						0.00				1.78				0.00	11.13													
Contribution From Unknown Road19 - 15, Pipe 272 - 274						0.00				1.55				0.00	11.28													
	274	277			0.00	0.00	0.48	0.69	0.92	4.26			0.00	0.00	11.28	104.08	127.44	188.21	543	675	675	CONC	0.75	70.0	728	2.03	0.57	0.75
Contribution From Unknown Road18 - 14, Pipe 276 - 277						0.00				1.53				0.00	11.31													
	277	278			0.00	0.00	0.50	0.69	0.96	6.75			0.00	0.00	11.86	101.78	124.65	184.61	842	900	900	CONC	0.40	73.0	1145	1.80	0.68	0.74
Contribution From Unknown Road19 - 15, Pipe 268 - 278						0.00				9.02				0.00	13.66													
	278	280			0.00	0.00	0.23	0.69	0.44	16.21			0.00	0.00	13.66	95.21	116.67	174.15	1891	1200	1200	CONC	0.45	34.0	2615	2.31	0.25	0.72
	280	291			0.00	0.00	0.10	0.69	0.19	16.40			0.00	0.00	13.90	94.38	115.67	172.82	1897	1200	1200	CONC	0.45	14.5	2615	2.31	0.10	0.73
Contribution From Unknown Road4 - 09, Pipe 287 - 291						0.00				5.52				0.00	12.39													
Contribution From Unknown Road4 - 09, Pipe 289 - 291						0.00				0.96				0.00	11.37													
	291	292			0.00	0.00	0.10	0.69	0.19	23.08			0.00	0.00	14.01	94.04	115.24	172.26	2659	1200	1200	CONC	0.85	14.0	3594	3.18	0.07	0.74
	292	300			0.00	0.00	0.32	0.69	0.61	23.69			0.00	0.00	14.08	93.79	114.95	171.87	2723	1350	1350	CONC	0.50	60.5	3774	2.64	0.38	0.72
Contribution From STREET "BL", Pipe 297 - 300						0.00				2.84				0.00	12.20													
Contribution From STREET "BF", Pipe 298 - 300						0.00				0.84				0.00	11.01													
	300	306			0.00	0.00	0.47	0.69	0.90	28.27			0.00	0.00	14.46	92.55	113.44	169.86	3207	1500	1500	CONC	0.40	88.5	4471	2.53	0.58	0.72
Contribution From STREET "BF", Pipe 305 - 306						0.00				1.98				0.00	12.40													
	306	314			0.00	0.00			0.00	30.25			0.00	0.00	15.05	90.73	111.22	166.88	3364	1650	1650	CONC	0.40	75.0	5764	2.70	0.46	0.58
To STREET "B", Pipe 314 - 317						0.00				30.25				0.00	15.51													
STREET "BB"																												
	312	313			0.00	0.00			0.00	0.00			0.00	0.00	10.00	109.64	134.16	196.80	0	300	300	PVC	0.75	81.0	84	1.18	1.14	0.00
To STREET "B", Pipe 313 - 314						0.00				0.00				0.00	11.14													
	312	346			0.00	0.00	0.13	0.69	0.25	0.25			0.00	0.00	10.00	109.64	134.16	196.80	33	300	300	PVC	0.90	23.5	92	1.30	0.30	0.36
	346	347			0.00	0.00	0.06	0.69	0.12	0.36			0.00	0.00	10.30	108.28	132.51	194.70	48	300	300	PVC	0.55	10.5	72	1.01	0.17	0.67
	347	348			0.00	0.00	0.35	0.69	0.67	1.04			0.00	0.00	10.47	107.51	131.59	193.53	136	450	450	CONC	0.90	65.5	270	1.70	0.64	0.50
To STREET "BG", Pipe 348 - 349						0.00				1.04				0.00	11.12													
STREET "BH"																												
	307	308			0.00	0.00	0.32	0.69	0.61	0.61			0.00	0.00	10.00	109.64	134.16	196.80	82	375	375	PVC	0.80	59.5	157	1.42	0.70	0.53
	308	313			0.00	0.00			0.00	0.61			0.00	0.00	10.70	106.54	130.41	192.02	80	375	375	PVC	0.70	71.0	147	1.33	0.89	0.55
To STREET "B", Pipe 313 - 314						0.00				0.61				0.00	11.59													
STREET "BI"																												
	309	311			0.00	0.00	0.21	0.69	0.40	0.40			0.00	0.00	10.00	109.64	134.16	196.80	54	300	300	PVC	0.70	39.0	81	1.14	0.57	0.67
To STREET "B", Pipe 311 - 313						0.00				0.40				0.00	10.57													
	293	294			0.00	0.00	0.28	0.69	0.54	0.54			0.00	0.00	10.00	109.64	134.16	196.80	72	375	375	PVC	0.75	51.5	152	1.37	0.62	0.47
	294	296			0.00	0.00	0.28	0.69	0.54	1.07			0.00	0.00	10.62	106.86	130.80	192.52	140	450	450	CONC	0.70	51.5	239	1.50	0.57	0.59
To STREET "BL", Pipe 296 - 297						0.00				1.07				0.00	11.20													
STREET "B"																												
	318	319			0.00	0.00	0.38	0.69	0.73	0.73			0.00	0.00	10.00	109.64	134.16	196.80	98	450	450	CONC	0.40	72.0	180	1.13	1.06	0.54
To STREET "BE", Pipe 319 - 320						0.00				0.73				0.00	11.06													
	94	95			0.00	0.00	0.52	0.70	1.01	1.01			0.00	0.00	10.00	109.64	134.16	196.80	136	375	375	PVC	1.75	98.0	232	2.10	0.78	0.59
To STR. "E", Pipe 95 - 96						0.00				1.01				0.00	10.78													
Contribution From STREET "BE", Pipe 319 - 320						0.00				0.77				0.00	11.10													
	320	321			0.00	0.00	0.36	0.69	0.69	1.46			0.00	0.00	11.10	104.82	128.34	189.36	187	450	450	CONC	2.45	67.0	446	2.81	0.40	0.42
To STREET "BD", Pipe 321 - 322						0.00				1.46				0.00	11.50													
	82	84			0.00	0.00	0.36	0.70	0.70	0.70			0.00	0.00	10.00	109.64	134.16	196.80	94	375	375	PVC	0.75	68.5	152	1.37	0.83	0.62
Contribution From STR."X", Pipe 81 - 84						0.00				0.76				0.00	10.58													
Contribution From STREET "B", Pipe 83 - 84						0.00				0.54				0.00	10.55													
	84	86			0.00	0.00	0.37	0.70	0.72	2.72			0.00	0.00	10.83	105.97	129.72	191.14	353	675	675	CONC	0.40	70.0	532	1.49	0.79	0.66
Contribution From STREET "Y", Pipe 85 - 86						0.00				0.86				0.00	10.90													
	86	88			0.00	0.00	0.37	0.70	0.72	4.30			0.00	0.00	11.62	102.73	125.80	186.09	541	675	675	CONC	0.95	70.0	819	2.29	0.51	0.66

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.		PROJECT:	**SOLMAR WILDFEILD**		
Checked: E.G.		LOCATION:	**TOWN OF CALEDON**		
Dwg. Reference:		File Ref: 24-1401		Date: Aug 2025	Sheet No. SHEET 9 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
			AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	Time of Conc.	Intensity 5 Year	Intensity 10 Year	Intensity 100 Year	Peak Flow	DIA. (mm)	DIA. (mm)	TYPE	SLOPE	LENGTH	CAPACITY	VELOCITY	TIME OF FLOW	RATIO
Street	From MH	To MH	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(min)	(mm/h)	(mm/h)	(mm/h)	Q (l/s)	(actual)	(nominal)		(%)	(m)	(l/s)	(m/s)	(min.)	Q/Q full
Contribution From STR. "Z", Pipe 79 - 88						0.00				4.88				0.00	13.29													
Contribution From STR. "Z", Pipe 87 - 88						0.00				0.25				0.00	10.47													
	88	92			0.00	0.00	0.37	0.70	0.72	10.16			0.00	0.00	13.29	96.47	118.21	176.18	1201	900	900	CONC	1.15	70.0	1941	3.05	0.38	0.62
Contribution From STREET "AE", Pipe 90 - 92						0.00				1.52				0.00	12.04													
Contribution From STREET "AE", Pipe 91 - 92						0.00				0.54				0.00	10.67													
	92	93			0.00	0.00	0.37	0.70	0.72	12.94			0.00	0.00	13.67	95.16	116.61	174.06	1509	1050	1050	CONC	0.55	70.0	2025	2.34	0.50	0.75
	93	95			0.00	0.00	0.39	0.70	0.76	13.70			0.00	0.00	14.17	93.50	114.59	171.38	1570	1050	1050	CONC	0.60	73.0	2115	2.44	0.50	0.74
To STR. "E", Pipe 95 - 96						0.00				13.70				0.00	14.67													
	117	118			0.00	0.00	0.16	0.70	0.31	0.31			0.00	0.00	10.00	109.64	134.16	196.80	42	300	300	PVC	0.75	31.0	84	1.18	0.44	0.50
Contribution From STREET "BJ", Pipe 116 - 118						0.00				0.45				0.00	10.63													
	118	120			0.00	0.00	0.39	0.70	0.76	1.52			0.00	0.00	10.63	106.82	130.75	192.45	198	525	525	CONC	0.40	73.0	272	1.26	0.97	0.73
Contribution From STREET "BK", Pipe 119 - 120						0.00				0.45				0.00	10.61													
	120	122			0.00	0.00	0.32	0.70	0.62	2.59			0.00	0.00	11.60	102.78	125.87	186.18	326	600	600	CONC	0.50	61.0	434	1.54	0.66	0.75
Contribution From Unknown Road2 - 07, Pipe 416 - 122						0.00				0.53				0.00	10.61													
	122	123			0.00	0.00	0.25	0.70	0.49	3.60			0.00	0.00	12.26	100.21	122.75	182.13	442	675	675	CONC	0.50	46.5	594	1.66	0.47	0.74
	123	125			0.00	0.00	0.08	0.70	0.16	3.76			0.00	0.00	12.73	98.47	120.64	179.38	453	675	675	CONC	0.55	15.0	623	1.74	0.14	0.73
Contribution From Unknown Road3 - 08, Pipe 419 - 125						0.00				0.47				0.00	10.40													
	125	126			0.00	0.00	0.26	0.70	0.51	4.73			0.00	0.00	12.87	97.95	120.01	178.55	567	675	675	CONC	2.85	49.5	1419	3.97	0.21	0.40
	126	128			0.00	0.00	0.09	0.70	0.18	4.90			0.00	0.00	13.08	97.21	119.10	177.36	584	675	675	CONC	2.85	16.5	1419	3.97	0.07	0.41
Contribution From STREET "BL", Pipe 425 - 128						0.00				0.49				0.00	10.55													
	128	129			0.00	0.00	0.08	0.70	0.16	5.55			0.00	0.00	13.15	96.96	118.81	176.97	659	675	675	CONC	2.85	15.5	1419	3.97	0.07	0.46
	129	130			0.00	0.00	0.17	0.70	0.33	5.88			0.00	0.00	13.22	96.73	118.53	176.60	697	750	750	CONC	0.85	31.0	1026	2.32	0.22	0.68
	130	132			0.00	0.00	0.08	0.70	0.16	6.03			0.00	0.00	13.44	95.96	117.59	175.36	709	750	750	CONC	0.75	15.0	964	2.18	0.11	0.74
Contribution From Unknown Road25 - 53, Pipe 438 - 132						0.00				0.39				0.00	10.57													
					0.00	0.00	0.27	0.70	0.53	6.95			0.00	0.00														
	132	133			0.00	0.00	1.12	0.40	1.25	8.19			0.00	0.00	13.55	95.57	117.11	174.73	959	900	900	CONC	0.65	51.5	1460	2.29	0.37	0.66
	133	143			0.00	0.00	0.06	0.70	0.12	8.31			0.00	0.00	13.93	94.31	115.57	172.69	960	900	900	CONC	0.50	11.0	1280	2.01	0.09	0.75
Contribution From STREET "AR", Pipe 140 - 143						0.00				9.23				0.00	12.96													
Contribution From STREET "AR", Pipe 142 - 143						0.00				1.63				0.00	11.95													
	143	149			0.00	0.00	0.37	0.70	0.72	19.90			0.00	0.00	14.02	94.00	115.20	172.21	2292	1350	1350	CONC	0.40	70.0	3376	2.36	0.49	0.68
Contribution From STREET "AP", Pipe 146 - 149						0.00				2.04				0.00	11.81													
Contribution From STREET "AP", Pipe 148 - 149						0.00				1.54				0.00	11.63													
	149	153			0.00	0.00	0.39	0.70	0.76	24.23			0.00	0.00	14.51	92.40	113.25	169.60	2745	1350	1350	CONC	0.50	73.0	3774	2.64	0.46	0.73
Contribution From STREET "AO", Pipe 151 - 153						0.00				1.32				0.00	11.16													
Contribution From STREET "AO", Pipe 152 - 153						0.00				0.88				0.00	10.90													
	153	181			0.00	0.00	0.37	0.70	0.72	27.15			0.00	0.00	14.97	90.95	111.49	167.25	3027	1350	1350	CONC	0.60	70.0	4134	2.89	0.40	0.73
To STREET "AN", Pipe 181 - 185						0.00				27.15				0.00	15.38													
	310	311			0.00	0.00	0.18	0.69	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	46	300	300	PVC	2.95	33.0	166	2.35	0.23	0.28
Contribution From STREET "BI", Pipe 309 - 311						0.00				0.40				0.00	10.57													
	311	313			0.00	0.00	0.37	0.69	0.71	1.46			0.00	0.00	10.57	107.10	131.09	192.89	191	375	375	PVC	4.65	70.0	378	3.42	0.34	0.51
Contribution From STREET "BH", Pipe 308 - 313						0.00				0.61				0.00	11.59													
Contribution From STREET "BB", Pipe 312 - 313						0.00				0.00				0.00	11.14													
	313	314			0.00	0.00	0.36	0.69	0.69	2.76			0.00	0.00	11.59	102.83	125.93	186.26	348	525	525	CONC	1.40	68.5	509	2.35	0.49	0.68
Contribution From STREET "BG", Pipe 306 - 314						0.00				30.25				0.00	15.51													
	314	317			0.00	0.00	0.02	0.69	0.04	33.05			0.00	0.00	15.51	89.33	109.51	164.59	3620	1650	1650	CONC	0.40	4.5	5764	2.70	0.03	0.63
Contribution From STREET "BG", Pipe 316 - 317						0.00				1.09				0.00	11.57													
	317	321			0.00	0.00	0.39	0.69	0.75	34.89			0.00	0.00	15.54	89.25	109.41	164.46	3818	1650	1650	CONC	0.40	72.5	5764	2.70	0.45	0.66
To STREET "BD", Pipe 321 - 322						0.00				34.89				0.00	15.99													
STREET "BD"																												
	361	362			0.00	0.00	0.37	0.69	0.71	0.71			0.00	0.00	10.00	109.64	134.16	196.80	95	300	300	PVC	3.50	70.0	181	2.56	0.46	0.53
To Unknown Road8 - 1004, Pipe 362 - 363						0.00				0.71				0.00	10.46													
Contribution From STREET "B", Pipe 317 - 321						0.00				34.89				0.00	15.99													
Contribution From STREET "B", Pipe 320 - 321						0.00				1.46				0.00	11.50													
	321	322			0.00	0.00	0.39	0.69	0.75	37.10			0.00	0.00	15.99	87.95	107.82	162.31	4000	1650	1650	CONC	0.40	73.0	5764	2.70	0.45	0.69
	322	340			0.00	0.00	0.39	0.69	0.75	37.85			0.00	0.00	16.44	86.67	106.27	160.20	4022	1650	1650	CONC	0.40	73.0	5764	2.70	0.45	0.70

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 10 OF 19

STM_STD

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
Contribution From STREET "BE", Pipe 339 - 340						0.00				10.78				0.00	18.28													
	340	341			0.00	0.00	0.28	0.69	0.54	49.16			0.00	0.00	18.28	81.85	100.37	152.13	4934	1650	1650	CONC	0.50	52.0	6445	3.01	0.29	0.77
	341	359			0.00	0.00	0.32	0.69	0.61	49.77			0.00	0.00	18.57	81.15	99.51	150.95	4953	1650	1650	CONC	0.50	59.5	6445	3.01	0.33	0.77
Contribution From STREET "AY", Pipe 357 - 358						0.00				9.51				0.00	14.36													
	358	359			0.00	0.00	0.06	0.69	0.12	9.63			0.00	0.00	14.36	92.91	113.87	170.43	1096	900	900	CONC	0.70	10.5	1515	2.38	0.07	0.72
	359	360			0.00	0.00	0.09	0.69	0.17	59.57			0.00	0.00	18.90	80.37	98.55	149.61	5871	1800	1800	CONC	0.45	16.0	7711	3.03	0.09	0.76
To Unknown Road8 - 1004, Pipe 360 - 363						0.00				59.57				0.00	18.99													
Unknown Road8 - 1004																												
Contribution From STREET "BD", Pipe 359 - 360						0.00				59.57				0.00	18.99													
	360	363			0.00	0.00	0.10	0.69	0.19	59.77			0.00	0.00	18.99	80.16	98.29	149.26	5875	1950	1950	CONC	0.30	18.0	7794	2.61	0.11	0.75
Contribution From STREET "BD", Pipe 361 - 362						0.00				0.71				0.00	10.46													
	362	363			0.00	0.00	0.10	0.69	0.19	0.90			0.00	0.00	10.46	107.59	131.69	193.65	119	450	450	CONC	0.40	18.5	180	1.13	0.27	0.66
	363	364			0.00	0.00	0.14	0.65	0.25	60.92			0.00	0.00	19.10	79.89	97.96	148.81	5968	1950	1950	CONC	0.30	14.0	7794	2.61	0.09	0.77
STREET "AO"																												
	152	153			0.00	0.00	0.45	0.70	0.88	0.88			0.00	0.00	10.00	109.64	134.16	196.80	117	450	450	CONC	0.75	84.0	247	1.55	0.90	0.48
To STREET "B", Pipe 153 - 181						0.00				0.88				0.00	10.90													
	187	189			0.00	0.00	0.42	0.70	0.82	0.82			0.00	0.00	10.00	109.64	134.16	196.80	110	375	375	PVC	0.75	79.5	152	1.37	0.96	0.72
To Unknown Road24 - 50, Pipe 189 - 190						0.00				0.82				0.00	10.96													
	188	189			0.00	0.00	0.30	0.70	0.58	0.58			0.00	0.00	10.00	109.64	134.16	196.80	78	375	375	PVC	0.75	56.5	152	1.37	0.68	0.52
To Unknown Road24 - 50, Pipe 189 - 190						0.00				0.58				0.00	10.68													
	150	151			0.00	0.00	0.30	0.70	0.58	0.58			0.00	0.00	10.00	109.64	134.16	196.80	78	375	375	PVC	0.85	57.0	162	1.46	0.65	0.48
	151	153			0.00	0.00	0.38	0.70	0.74	1.32			0.00	0.00	10.65	106.75	130.67	192.35	173	450	450	CONC	1.70	72.0	372	2.34	0.51	0.47
To STREET "B", Pipe 153 - 181						0.00				1.32				0.00	11.16													
	460	461			0.00	0.00	0.33	0.70	0.64	0.64			0.00	0.00	10.00	109.64	134.16	196.80	86	300	300	PVC	3.35	60.5	177	2.50	0.40	0.49
	461	462			0.00	0.00	0.34	0.70	0.66	1.30			0.00	0.00	10.40	107.83	131.97	194.01	172	450	450	CONC	1.70	62.0	372	2.34	0.44	0.46
To Unknown Road27 - 58, Pipe 462 - 463						0.00				1.30				0.00	10.84													
STREET "AL"																												
	457	458			0.00	0.00	0.26	0.70	0.51	0.51			0.00	0.00	10.00	109.64	134.16	196.80	68	375	375	PVC	0.75	47.5	152	1.37	0.58	0.45
To Unknown Road22 - 26, Pipe 458 - 459						0.00				0.51				0.00	10.58													
	221	222			0.00	0.00	0.11	0.70	0.21	0.21			0.00	0.00	10.00	109.64	134.16	196.80	29	300	300	PVC	2.20	20.0	143	2.03	0.16	0.20
	222	223			0.00	0.00	0.45	0.70	0.88	1.09			0.00	0.00	10.16	108.90	133.26	195.65	145	300	300	PVC	4.95	84.5	215	3.04	0.46	0.67
Contribution From STREET "AL", Pipe 220 - 223						0.00				2.10				0.00	11.84													
	223	224			0.00	0.00	0.31	0.70	0.60	3.79			0.00	0.00	11.84	101.83	124.72	184.69	473	600	600	CONC	1.70	58.0	801	2.83	0.34	0.59
	224	225			0.00	0.00	0.06	0.70	0.12	3.91			0.00	0.00	12.18	100.51	123.12	182.61	482	675	675	CONC	0.60	12.0	651	1.82	0.11	0.74
To Unknown Road5 - 1001, Pipe 225 - 226						0.00				3.91				0.00	12.29													
STREET "AN"																												
	199	201			0.00	0.00	0.33	0.70	0.64	0.64			0.00	0.00	10.00	109.64	134.16	196.80	86	375	375	PVC	0.75	61.5	152	1.37	0.75	0.57
To STREET "AJ", Pipe 201 - 202						0.00				0.64				0.00	10.75													
	200	201			0.00	0.00	0.29	0.70	0.56	0.56			0.00	0.00	10.00	109.64	134.16	196.80	76	300	300	PVC	1.10	55.0	101	1.43	0.64	0.75
To STREET "AJ", Pipe 201 - 202						0.00				0.56				0.00	10.64													
	251	252			0.00	0.00	0.15	0.69	0.29	0.29			0.00	0.00	10.00	109.64	134.16	196.80	39	300	300	PVC	0.75	29.0	84	1.18	0.41	0.46
To Unknown Road7 - 1003, Pipe 252 - 253						0.00				0.29				0.00	10.41													
	456	458			0.00	0.00	0.31	0.70	0.60	0.60			0.00	0.00	10.00	109.64	134.16	196.80	81	375	375	PVC	0.75	55.5	152	1.37	0.67	0.53
To Unknown Road22 - 26, Pipe 458 - 459						0.00				0.60				0.00	10.67													
	247	248			0.00	0.00	0.18	0.69	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	46	300	300	PVC	2.30	33.5	147	2.07	0.27	0.32

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 11 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

	LOCATION		5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
			AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	AREA	C	Indiv.	Accum.	Time of Conc.	Intensity 5 Year	Intensity 10 Year	Intensity 100 Year	Peak Flow	DIA. (mm)	DIA. (mm)	TYPE	SLOPE	LENGTH	CAPACITY	VELOCITY	TIME OF FLOW	RATIO
Street	From MH	To MH	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(Ha)		2.78 AC	2.78 AC	(min)	(mm/h)	(mm/h)	(mm/h)	Q (l/s)	(actual)	(nominal)		(%)	(m)	(l/s)	(m/s)	(min.)	Q/Q full
Contribution From STR. "N", Pipe 246 - 248						0.00				0.44				0.00	10.63													
	248	250			0.00	0.00	0.37	0.69	0.71	1.50			0.00	0.00	10.63	106.82	130.75	192.45	196	525	525	CONC	0.65	70.0	347	1.60	0.73	0.56
Contribution From STREET "M", Pipe 249 - 250						0.00				0.44				0.00	10.63													
	250	252			0.00	0.00	0.24	0.69	0.46	2.40			0.00	0.00	11.36	103.75	127.04	187.70	305	525	525	CONC	3.90	45.5	849	3.92	0.19	0.36
To Unknown Road7 - 1003, Pipe 252 - 253						0.00				2.40				0.00	11.56													
	155	156			0.00	0.00	0.18	0.70	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	47	300	300	PVC	1.35	33.5	112	1.59	0.35	0.42
Contribution From STREET "BG", Pipe 154 - 156						0.00				0.43				0.00	10.58													
	156	158			0.00	0.00	0.40	0.70	0.78	1.56			0.00	0.00	10.58	107.06	131.05	192.83	204	525	525	CONC	0.40	76.0	272	1.26	1.01	0.75
Contribution From STR. "R", Pipe 157 - 158						0.00				0.45				0.00	10.56													
	158	163			0.00	0.00	0.36	0.70	0.70	2.70			0.00	0.00	11.58	102.85	125.95	186.29	341	600	600	CONC	0.75	67.0	532	1.88	0.59	0.64
Contribution From STREET "AX", Pipe 161 - 163						0.00				1.42				0.00	11.39													
Contribution From STREET "T", Pipe 162 - 163						0.00				0.45				0.00	10.61													
	163	169			0.00	0.00	0.37	0.70	0.72	5.29			0.00	0.00	12.18	100.53	123.14	182.64	652	825	825	CONC	0.40	70.0	908	1.70	0.69	0.72
Contribution From STREET "U", Pipe 167 - 169						0.00				2.22				0.00	11.84													
Contribution From STREET "U", Pipe 168 - 169						0.00				0.35				0.00	10.57													
	169	174			0.00	0.00	0.37	0.70	0.72	8.58			0.00	0.00	12.87	97.98	120.05	178.60	1030	975	975	CONC	0.40	70.0	1417	1.90	0.61	0.73
Contribution From STREET "V", Pipe 172 - 174						0.00				2.06				0.00	11.70													
Contribution From STREET "V", Pipe 173 - 174						0.00				0.35				0.00	10.50													
	174	178			0.00	0.00	0.37	0.70	0.72	11.71			0.00	0.00	13.48	95.82	117.41	175.13	1375	1050	1050	CONC	0.50	70.0	1931	2.23	0.52	0.71
Contribution From STREET "W", Pipe 176 - 178						0.00				1.21				0.00	11.19													
Contribution From STREET "W", Pipe 177 - 178						0.00				0.35				0.00	10.55													
	178	180			0.00	0.00	0.39	0.70	0.76	14.03			0.00	0.00	14.00	94.05	115.27	172.29	1617	1200	1200	CONC	0.40	73.0	2466	2.18	0.56	0.66
Contribution From STR."X", Pipe 179 - 180						0.00				0.82				0.00	10.99													
	180	181			0.00	0.00	0.38	0.70	0.74	15.59			0.00	0.00	14.56	92.25	113.07	169.36	1762	1200	1200	CONC	0.40	71.0	2466	2.18	0.54	0.71
Contribution From STREET "B", Pipe 153 - 181						0.00				27.15				0.00	15.38													
	181	185			0.00	0.00	0.39	0.70	0.76	43.50			0.00	0.00	15.38	89.73	110.00	165.24	4785	1650	1650	CONC	0.50	74.0	6445	3.01	0.41	0.74
Contribution From STREET "B", Pipe 184 - 185						0.00				1.01				0.00	11.14													
	185	190			0.00	0.00	0.37	0.70	0.72	45.23			0.00	0.00	15.79	88.52	108.52	163.26	4909	1650	1650	CONC	0.55	70.0	6759	3.16	0.37	0.73
To Unknown Road24 - 50, Pipe 190 - 191						0.00				45.23				0.00	16.16													
STREET "AP"																												
	147	148			0.00	0.00	0.38	0.70	0.74	0.74			0.00	0.00	10.00	109.64	134.16	196.80	99	375	375	PVC	0.75	72.0	152	1.37	0.87	0.65
	148	149			0.00	0.00	0.41	0.70	0.80	1.54			0.00	0.00	10.87	105.79	129.50	190.86	199	525	525	CONC	0.75	78.0	372	1.72	0.76	0.53
To STREET "B", Pipe 149 - 153						0.00				1.54				0.00	11.63													
	450	451			0.00	0.00	0.53	0.70	1.03	1.03			0.00	0.00	10.00	109.64	134.16	196.80	138	375	375	PVC	3.60	97.0	333	3.01	0.54	0.42
	451	452			0.00	0.00	0.10	0.70	0.19	1.23			0.00	0.00	10.54	107.24	131.26	193.10	161	450	450	CONC	0.60	19.0	221	1.39	0.23	0.73
	452	453			0.00	0.00	0.23	0.70	0.45	1.67			0.00	0.00	10.76	106.25	130.06	191.58	218	525	525	CONC	0.50	42.0	304	1.40	0.50	0.72
To Unknown Road22 - 26, Pipe 453 - 454						0.00				1.67				0.00	11.26													
Contribution From STREET "W", Pipe 144 - 145						0.00				0.56				0.00	10.54													
	145	146			0.00	0.00	0.38	0.70	0.74	1.30			0.00	0.00	10.54	107.23	131.25	193.09	171	450	450	CONC	0.75	72.0	247	1.55	0.77	0.69
	146	149			0.00	0.00	0.38	0.70	0.74	2.04			0.00	0.00	11.31	103.96	127.29	188.02	260	525	525	CONC	1.45	72.0	518	2.39	0.50	0.50
To STREET "B", Pipe 149 - 153						0.00				2.04				0.00	11.81													
STREET "AR"																												
	141	142			0.00	0.00	0.40	0.70	0.78	0.78			0.00	0.00	10.00	109.64	134.16	196.80	104	450	450	CONC	0.50	74.5	202	1.27	0.98	0.52
	142	143			0.00	0.00	0.44	0.70	0.86	1.63			0.00	0.00	10.98	105.34	128.96	190.16	211	525	525	CONC	0.50	82.0	304	1.40	0.97	0.69
To STREET "B", Pipe 143 - 149						0.00				1.63				0.00	11.95													
	446	447			0.00	0.00	0.19	0.70	0.37	0.37			0.00	0.00	10.00	109.64	134.16	196.80	50	300	300	PVC	3.45	34.0	180	2.54	0.22	0.28
	447	448			0.00	0.00	0.14	0.70	0.27	0.64			0.00	0.00	10.22	108.63	132.94	195.24	85	300	300	PVC	3.90	25.0	191	2.70	0.15	0.45
	448	449			0.00	0.00	0.28	0.70	0.54	1.19			0.00	0.00	10.38	107.94	132.11	194.19	157	450	450	CONC	1.40	51.5	337	2.12	0.40	0.46
To Unknown Road22 - 26, Pipe 449 - 453						0.00				1.19				0.00	10.78													
Contribution From STREET "BA", Pipe 343 - 344						0.00				1.69				0.00	11.76													
	344	345			0.00	0.00	0.38	0.69	0.73	2.42			0.00	0.00	11.76	102.15	125.10	185.19	302	600	600	CONC	0.65	71.5	495	1.75	0.68	0.61
	345	349			0.00	0.00	0.38	0.69	0.73	3.15			0.00	0.00	12.44	99.54	121.94	181.07	384	675	675	CONC	0.40	71.5	532	1.49	0.80	0.72
To STREET "BG", Pipe 349 - 350						0.00				3.15				0.00	13.24													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed:	G.G.	PROJECT:	SOLMAR WILDFEILD		
Checked:	E.G.	LOCATION:	TOWN OF CALEDON		
Dwg. Reference:		File Ref:	24-1401	Date: Aug 2025	Sheet No. SHEET 12 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

	LOCATION		5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
	134	136			0.00	0.00	0.27	0.70	0.53	0.53			0.00	0.00	10.00	109.64	134.16	196.80	70	300	300	PVC	0.95	51.5	94	1.33	0.64	0.75
Contribution From STREET "U", Pipe 135 - 136						0.00				0.31				0.00	10.57													
	136	137			0.00	0.00	0.37	0.70	0.72	1.56			0.00	0.00	10.64	106.77	130.69	192.39	203	525	525	CONC	0.40	70.0	272	1.26	0.93	0.75
	137	139			0.00	0.00	0.38	0.70	0.74	2.30			0.00	0.00	11.57	102.90	126.01	186.37	289	600	600	CONC	0.75	71.5	532	1.88	0.63	0.54
Contribution From Unknown Road9 - 1005, Pipe 138 - 139						0.00				5.46				0.00	10.24													
	139	140			0.00	0.00	0.36	0.70	0.70	8.45			0.00	0.00	12.21	100.43	123.01	182.48	1040	900	900	CONC	0.80	67.0	1619	2.55	0.44	0.64
	140	143			0.00	0.00	0.40	0.70	0.78	9.23			0.00	0.00	12.64	98.79	121.02	179.88	1117	900	900	CONC	1.95	75.0	2528	3.97	0.31	0.44
To STREET "B", Pipe 143 - 149						0.00				9.23				0.00	12.96													
Unknown Road26 - 54																												
	434	435			0.00	0.00	0.26	0.70	0.51	0.51			0.00	0.00	10.00	109.64	134.16	196.80	68	300	300	PVC	1.55	47.5	120	1.70	0.46	0.56
	435	436			0.00	0.00	0.34	0.70	0.66	1.17			0.00	0.00	10.46	107.55	131.64	193.59	154	450	450	CONC	0.65	61.0	230	1.45	0.70	0.67
	436	437			0.00	0.00	0.07	0.70	0.14	1.30			0.00	0.00	11.17	104.55	128.00	188.94	167	450	450	CONC	0.65	12.5	230	1.45	0.14	0.73
	437	440			0.00	0.00	0.27	0.70	0.53	1.83			0.00	0.00	11.31	103.95	127.29	188.01	233	525	525	CONC	0.70	49.5	360	1.66	0.50	0.65
To Unknown Road25 - 53, Pipe 440 - 442						0.00				1.83				0.00	11.81													
Unknown Road25 - 53																												
	438	132			0.00	0.00	0.20	0.70	0.39	0.39			0.00	0.00	10.00	109.64	134.16	196.80	52	300	300	PVC	0.65	37.5	78	1.10	0.57	0.67
To STREET "B", Pipe 132 - 133						0.00				0.39				0.00	10.57													
	444	445			0.00	0.00	0.31	0.70	0.60	0.60			0.00	0.00	10.00	109.64	134.16	196.80	81	375	375	PVC	1.20	56.0	192	1.74	0.54	0.42
To Unknown Road22 - 26, Pipe 445 - 449						0.00				0.60				0.00	10.54													
	438	440			0.00	0.00	0.47	0.70	0.91	0.91			0.00	0.00	10.00	109.64	134.16	196.80	123	450	450	CONC	0.50	85.0	202	1.27	1.12	0.61
Contribution From Unknown Road26 - 54, Pipe 437 - 440						0.00				1.83				0.00	11.81													
	440	442			0.00	0.00	0.34	0.70	0.66	3.41			0.00	0.00	11.81	101.96	124.87	184.89	425	600	600	CONC	1.70	62.5	801	2.83	0.37	0.53
	442	443			0.00	0.00	0.12	0.70	0.23	3.64			0.00	0.00	12.18	100.54	123.15	182.65	448	600	600	CONC	3.35	21.0	1124	3.97	0.09	0.40
	443	445			0.00	0.00	0.22	0.70	0.43	4.07			0.00	0.00	12.26	100.20	122.74	182.12	499	675	675	CONC	0.85	39.0	775	2.17	0.30	0.64
To Unknown Road22 - 26, Pipe 445 - 449						0.00				4.07				0.00	12.56													
Unknown Road3 - 08																												
	419	125			0.00	0.00	0.24	0.70	0.47	0.47			0.00	0.00	10.00	109.64	134.16	196.80	63	300	300	PVC	1.85	45.0	132	1.86	0.40	0.48
To STREET "B", Pipe 125 - 126						0.00				0.47				0.00	10.40													
	419	420			0.00	0.00	0.43	0.70	0.84	0.84			0.00	0.00	10.00	109.64	134.16	196.80	112	375	375	PVC	1.05	78.5	180	1.63	0.80	0.62
	420	421			0.00	0.00	0.37	0.70	0.72	1.56			0.00	0.00	10.80	106.08	129.86	191.32	202	525	525	CONC	0.60	68.0	333	1.54	0.74	0.61
To STREET "BL", Pipe 421 - 422						0.00				1.56				0.00	11.54													
Unknown Road2 - 07																												
	416	122			0.00	0.00	0.27	0.70	0.53	0.53			0.00	0.00	10.00	109.64	134.16	196.80	70	375	375	PVC	0.75	50.0	152	1.37	0.61	0.46
To STREET "B", Pipe 122 - 123						0.00				0.53				0.00	10.61													
	416	417			0.00	0.00	0.33	0.70	0.64	0.64			0.00	0.00	10.00	109.64	134.16	196.80	86	375	375	PVC	0.75	60.0	152	1.37	0.73	0.57
	417	418			0.00	0.00	0.31	0.70	0.60	1.25			0.00	0.00	10.73	106.41	130.26	191.83	162	450	450	CONC	0.70	56.0	239	1.50	0.62	0.68
To STREET "BL", Pipe 418 - 421						0.00				1.25				0.00	11.35													
Unknown Road4 - 09																												
	407	408			0.00	0.00	0.56	0.70	1.09	1.09			0.00	0.00	10.00	109.64	134.16	196.80	146	450	450	CONC	1.20	89.5	312	1.96	0.76	0.47
To STREET "BK", Pipe 408 - 415						0.00				1.09				0.00	10.76													
	288	289			0.00	0.00	0.50	0.69	0.96	0.96			0.00	0.00	10.00	109.64	134.16	196.80	129	450	450	CONC	0.75	73.0	247	1.55	0.78	0.52
	289	291			0.00	0.00			0.00	0.96			0.00	0.00	10.78	106.17	129.96	191.45	125	450	450	CONC	0.60	49.0	221	1.39	0.59	0.56
To STREET "BG", Pipe 291 - 292						0.00				0.96				0.00	11.37													
	404	405			0.00	0.00	0.15	0.70	0.29	0.29			0.00	0.00	10.00	109.64	134.16	196.80	39	300	300	PVC	0.65	23.5	78	1.10	0.36	0.50
	405	406			0.00	0.00	0.10	0.70	0.19	0.49			0.00	0.00	10.36	108.04	132.23	194.34	64	300	300	PVC	0.80	15.5	86	1.22	0.21	0.74
	406	408			0.00	0.00	0.42	0.70	0.82	1.30			0.00	0.00	10.57	107.11	131.10	192.91	171	450	450	CONC	0.75	67.5	247	1.55	0.72	0.69
To STREET "BK", Pipe 408 - 415						0.00				1.30				0.00	11.29													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 13 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
Contribution From Unknown Road16 - 12, Pipe 282 - 283						0.00				1.48				0.00	10.99													
	283	287			0.00	0.00	0.52	0.69	1.00	2.47			0.00	0.00	10.99	105.27	128.88	190.07	319	600	600	CONC	0.50	76.5	434	1.54	0.83	0.73
Contribution From Unknown Road15 - 11, Pipe 286 - 287						0.00				1.76				0.00	11.41													
	287	291			0.00	0.00	0.67	0.69	1.29	5.52			0.00	0.00	11.82	101.90	124.80	184.80	689	675	675	CONC	1.55	98.5	1047	2.92	0.56	0.66
To STREET "BG", Pipe 291 - 292						0.00				5.52				0.00	12.39													
Unknown Road23 - 42																												
	269	270			0.00	0.00	0.48	0.69	0.92	0.92			0.00	0.00	10.00	109.64	134.16	196.80	124	375	375	PVC	1.80	70.0	235	2.13	0.55	0.53
	270	274			0.00	0.00	0.45	0.69	0.86	1.78			0.00	0.00	10.55	107.19	131.20	193.03	234	525	525	CONC	0.90	66.0	408	1.88	0.58	0.57
To STREET "BG", Pipe 274 - 277						0.00				1.78				0.00	11.13													
	401	402			0.00	0.00	0.40	0.70	0.78	0.78			0.00	0.00	10.00	109.64	134.16	196.80	104	375	375	PVC	0.75	63.5	152	1.37	0.77	0.69
	402	403			0.00	0.00	0.06	0.70	0.12	0.90			0.00	0.00	10.77	106.23	130.04	191.54	116	375	375	PVC	0.80	10.5	157	1.42	0.12	0.74
	403	408			0.00	0.00	0.37	0.70	0.72	1.62			0.00	0.00	10.89	105.70	129.40	190.73	209	525	525	CONC	0.65	59.5	347	1.60	0.62	0.60
To STREET "BK", Pipe 408 - 415						0.00				1.62				0.00	11.51													
STREET "BK"																												
	119	120			0.00	0.00	0.23	0.70	0.45	0.45			0.00	0.00	10.00	109.64	134.16	196.80	60	300	300	PVC	0.75	43.5	84	1.18	0.61	0.72
To STREET "B", Pipe 120 - 122						0.00				0.45				0.00	10.61													
	413	414			0.00	0.00	0.31	0.70	0.60	0.60			0.00	0.00	10.00	109.64	134.16	196.80	81	375	375	PVC	0.75	56.0	152	1.37	0.68	0.53
	414	415			0.00	0.00	0.31	0.70	0.60	1.21			0.00	0.00	10.68	106.62	130.51	192.15	157	450	450	CONC	0.75	56.0	247	1.55	0.60	0.64
To STREET "BL", Pipe 415 - 418						0.00				1.21				0.00	11.28													
Contribution From Unknown Road23 - 42, Pipe 403 - 408						0.00				1.62				0.00	11.51													
Contribution From Unknown Road4 - 09, Pipe 406 - 408						0.00				1.30				0.00	11.29													
Contribution From Unknown Road4 - 09, Pipe 407 - 408						0.00				1.09				0.00	10.76													
	408	415			0.00	0.00	0.45	0.70	0.88	4.88			0.00	0.00	11.51	103.14	126.30	186.74	617	825	825	CONC	0.40	71.5	908	1.70	0.70	0.68
To STREET "BL", Pipe 415 - 418						0.00				4.88				0.00	12.21													
STREET "BJ"																												
	116	118			0.00	0.00	0.23	0.70	0.45	0.45			0.00	0.00	10.00	109.64	134.16	196.80	60	300	300	PVC	0.70	43.5	81	1.14	0.63	0.74
To STREET "B", Pipe 118 - 120						0.00				0.45				0.00	10.63													
	409	410			0.00	0.00	0.31	0.70	0.60	0.60			0.00	0.00	10.00	109.64	134.16	196.80	81	375	375	PVC	0.75	56.5	152	1.37	0.68	0.53
	410	412			0.00	0.00	0.31	0.70	0.60	1.21			0.00	0.00	10.68	106.59	130.48	192.11	157	450	450	CONC	0.70	56.5	239	1.50	0.63	0.66
To STREET "BL", Pipe 412 - 415						0.00				1.21				0.00	11.31													
STREET "BL"																												
	425	128			0.00	0.00	0.25	0.70	0.49	0.49			0.00	0.00	10.00	109.64	134.16	196.80	65	375	375	PVC	0.80	46.5	157	1.42	0.55	0.42
To STREET "B", Pipe 128 - 129						0.00				0.49				0.00	10.55													
	425	426			0.00	0.00	0.11	0.70	0.21	0.21			0.00	0.00	10.00	109.64	134.16	196.80	29	300	300	PVC	0.70	20.5	81	1.14	0.30	0.35
	426	427			0.00	0.00	0.14	0.70	0.27	0.49			0.00	0.00	10.30	108.29	132.53	194.73	64	300	300	PVC	0.80	26.0	86	1.22	0.35	0.75
	427	428			0.00	0.00	0.21	0.70	0.41	0.90			0.00	0.00	10.65	106.73	130.65	192.33	117	450	450	CONC	0.55	39.0	211	1.33	0.49	0.55
To Unknown Road22 - 26, Pipe 428 - 429						0.00				0.90				0.00	11.14													
	295	296			0.00	0.00	0.18	0.69	0.35	0.35			0.00	0.00	10.00	109.64	134.16	196.80	46	300	300	PVC	2.95	33.5	166	2.35	0.24	0.28
Contribution From STREET "BI", Pipe 294 - 296						0.00				1.07				0.00	11.20													
	296	297			0.00	0.00	0.37	0.69	0.71	2.13			0.00	0.00	11.20	104.43	127.86	188.75	272	450	450	CONC	2.55	70.0	455	2.86	0.41	0.60
	297	300			0.00	0.00	0.37	0.69	0.71	2.84			0.00	0.00	11.60	102.77	125.86	186.17	357	600	600	CONC	0.80	69.0	549	1.94	0.59	0.65
To STREET "BG", Pipe 300 - 306						0.00				2.84				0.00	12.20													
	411	412			0.00	0.00	0.17	0.70	0.33	0.33			0.00	0.00	10.00	109.64	134.16	196.80	44	300	300	PVC	0.75	30.5	84	1.18	0.43	0.53
Contribution From STREET "BJ", Pipe 410 - 412						0.00				1.21				0.00	11.31													
	412	415			0.00	0.00	0.40	0.70	0.78	2.32			0.00	0.00	11.31	103.95	127.28	188.01	295	600	600	CONC	0.45	73.0	412	1.46	0.84	0.72
Contribution From STREET "BK", Pipe 408 - 415						0.00				4.88				0.00	12.21													
Contribution From STREET "BK", Pipe 414 - 415						0.00				1.21				0.00	11.28													
	415	418			0.00	0.00	0.37	0.70	0.72	9.13			0.00	0.00	12.21	100.40	122.98	182.43	1122	975	975	CONC	0.45	67.0	1503	2.01	0.55	0.75

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 14 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
Contribution From Unknown Road2 - 07, Pipe 417 - 418						0.00				1.25				0.00	11.35													
	418	421			0.00	0.00	0.39	0.70	0.76	11.13			0.00	0.00	12.77	98.34	120.47	179.16	1341	975	975	CONC	0.65	70.0	1807	2.42	0.48	0.74
Contribution From Unknown Road3 - 08, Pipe 420 - 421						0.00				1.56				0.00	11.54													
	421	422			0.00	0.00	0.35	0.70	0.68	13.37			0.00	0.00	13.25	96.62	118.38	176.41	1583	975	975	CONC	1.15	64.0	2403	3.22	0.33	0.66
	422	423			0.00	0.00	0.07	0.70	0.14	13.51			0.00	0.00	13.58	95.47	116.99	174.57	1580	975	975	CONC	0.90	13.0	2126	2.85	0.08	0.74
	423	428			0.00	0.00	0.57	0.70	1.11	14.61			0.00	0.00	13.66	95.21	116.67	174.15	1705	975	975	CONC	1.50	102.5	2745	3.68	0.46	0.62
To Unknown Road22 - 26, Pipe 428 - 429						0.00				14.61				0.00	14.12													
Unknown Road22 - 26																												
Contribution From STREET "AN", Pipe 456 - 458						0.00				0.60				0.00	10.67													
Contribution From STREET "AL", Pipe 457 - 458						0.00				0.51				0.00	10.58													
	458	459			0.00	0.00	0.23	0.70	0.45	1.56			0.00	0.00	10.67	106.65	130.54	192.19	203	525	525	CONC	0.40	41.0	272	1.26	0.54	0.75
	459	462			0.00	0.00	0.21	0.70	0.41	1.97			0.00	0.00	11.22	104.35	127.76	188.63	251	600	600	CONC	0.45	38.0	412	1.46	0.43	0.61
To Unknown Road27 - 58, Pipe 462 - 463						0.00				1.97				0.00	11.65													
Contribution From STREET "BL", Pipe 423 - 428						0.00				14.61				0.00	14.12													
Contribution From STREET "BL", Pipe 427 - 428						0.00				0.90				0.00	11.14													
	428	429			0.00	0.00	0.22	0.70	0.43	15.94			0.00	0.00	14.12	93.66	114.79	171.65	1829	1050	1050	CONC	0.80	39.5	2442	2.82	0.23	0.75
	429	430			0.00	0.00	0.31	0.70	0.60	16.54			0.00	0.00	14.36	92.90	113.86	170.42	1883	1200	1200	CONC	0.60	57.0	3020	2.67	0.36	0.62
	430	432			0.00	0.00	0.30	0.70	0.58	17.12			0.00	0.00	14.71	91.77	112.49	168.58	1926	1200	1200	CONC	0.65	54.0	3143	2.78	0.32	0.61
Contribution From Unknown Road27 - 58, Pipe 431 - 432						0.00				0.54				0.00	10.53													
	432	433			0.00	0.00	0.19	0.70	0.37	18.04			0.00	0.00	15.04	90.77	111.26	166.94	2007	1200	1200	CONC	1.30	34.0	4445	3.93	0.14	0.45
	433	445			0.00	0.00	0.54	0.70	1.05	19.09			0.00	0.00	15.18	90.33	110.73	166.22	2114	1200	1200	CONC	0.75	98.0	3376	2.99	0.55	0.63
Contribution From Unknown Road25 - 53, Pipe 443 - 445						0.00				4.07				0.00	12.56													
Contribution From Unknown Road25 - 53, Pipe 444 - 445						0.00				0.60				0.00	10.54													
	445	449			0.00	0.00	0.38	0.70	0.74	24.50			0.00	0.00	15.73	88.70	108.74	163.55	2664	1350	1350	CONC	0.45	69.0	3580	2.50	0.46	0.74
Contribution From STREET "AR", Pipe 448 - 449						0.00				1.19				0.00	10.78													
	449	453			0.00	0.00	0.50	0.70	0.97	26.66			0.00	0.00	16.19	87.38	107.13	161.37	2856	1350	1350	CONC	0.55	91.5	3958	2.77	0.55	0.72
Contribution From STREET "AP", Pipe 452 - 453						0.00				1.67				0.00	11.26													
	453	454			0.00	0.00	0.39	0.70	0.76	29.09			0.00	0.00	16.74	85.85	105.26	158.83	3062	1350	1350	CONC	0.60	71.0	4134	2.89	0.41	0.74
	454	462			0.00	0.00	0.16	0.70	0.31	29.40			0.00	0.00	17.15	84.75	103.92	157.00	3056	1350	1350	CONC	0.60	29.5	4134	2.89	0.17	0.74
To Unknown Road27 - 58, Pipe 462 - 463						0.00				29.40				0.00	17.32													
Unknown Road27 - 58																												
	431	432			0.00	0.00	0.28	0.70	0.54	0.54			0.00	0.00	10.00	109.64	134.16	196.80	73	375	375	PVC	1.00	50.5	175	1.59	0.53	0.42
To Unknown Road22 - 26, Pipe 432 - 433						0.00				0.54				0.00	10.53													
	466	467			0.00	0.00	0.04	0.70	0.08	0.08			0.00	0.00	10.00	109.64	134.16	196.80	10	300	300	PVC	0.75	8.0	84	1.18	0.11	0.12
	467	468			0.00	0.00	0.19	0.70	0.37	0.45			0.00	0.00	10.11	109.13	133.54	196.01	60	300	300	PVC	0.70	34.0	81	1.14	0.50	0.74
	468	469			0.00	0.00	0.45	0.70	0.88	1.32			0.00	0.00	10.61	106.93	130.88	192.63	173	450	450	CONC	1.00	81.0	285	1.79	0.75	0.61
	469	470			0.00	0.00	0.27	0.70	0.53	1.85			0.00	0.00	11.36	103.76	127.05	187.70	235	450	450	CONC	2.10	49.0	413	2.60	0.31	0.57
	470	471			0.00	0.00	0.48	0.70	0.93	2.78			0.00	0.00	11.68	102.49	125.51	185.72	349	600	600	CONC	0.70	86.5	514	1.82	0.79	0.68
	471	472			0.00	0.00	0.54	0.70	1.05	3.83			0.00	0.00	12.47	99.44	121.81	180.91	467	675	675	CONC	0.70	97.5	703	1.97	0.83	0.66
	472	473			0.00	0.00	0.37	0.70	0.72	4.55			0.00	0.00	13.30	96.46	118.19	176.16	538	675	675	CONC	2.30	67.0	1275	3.56	0.31	0.42
	473	474			0.00	0.00	0.08	0.70	0.16	4.71			0.00	0.00	13.61	95.38	116.88	174.42	550	675	675	CONC	2.65	13.5	1368	3.82	0.06	0.40
	474	476			0.00	0.00	0.11	0.70	0.21	4.92			0.00	0.00	13.67	95.18	116.63	174.10	574	675	675	CONC	2.20	19.5	1247	3.48	0.09	0.46
To Unknown Road10 - 1006, Pipe 476 - 477						0.00				4.92				0.00	13.76													
Contribution From Unknown Road22 - 26, Pipe 454 - 462						0.00				29.40				0.00	17.32													
Contribution From Unknown Road22 - 26, Pipe 459 - 462						0.00				1.97				0.00	11.65													
Contribution From STREET "AO", Pipe 461 - 462						0.00				1.30				0.00	10.84													
	462	463			0.00	0.00	0.17	0.70	0.33	33.00			0.00	0.00	17.32	84.30	103.37	156.25	3412	1500	1500	CONC	0.45	30.0	4742	2.68	0.19	0.72
	463	464			0.00	0.00	0.15	0.70	0.29	33.30			0.00	0.00	17.50	83.82	102.78	155.44	3422	1500	1500	CONC	0.45	28.0	4742	2.68	0.17	0.72
	464	476			0.00	0.00	0.13	0.70	0.25	33.55			0.00	0.00	17.68	83.37	102.23	154.69	3430	1500	1500	CONC	0.45	24.5	4742	2.68	0.15	0.72
To Unknown Road10 - 1006, Pipe 476 - 477						0.00				33.55				0.00	17.83													
Unknown Road10 - 1006																												
Contribution From Unknown Road27 - 58, Pipe 464 - 476						0.00				33.55				0.00	17.83													
Contribution From Unknown Road27 - 58, Pipe 474 - 476						0.00				4.92				0.00	13.76													
	476	477			0.00	0.00	0.48	0.65	0.87	39.34			0.00	0.00	17.83	82.99	101.76	154.04	4003	1650	1650	CONC	1.60	48.0	11529	5.39	0.15	0.35

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 15 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
THE GORE ROAD																												
					0.00	0.00	0.13	0.85	0.31	0.31			0.00	0.00														
	234	235			0.00	0.00	0.24	0.85	0.57	0.87			0.00	0.00	10.00	109.64	134.16	196.80	117	450	450	CONC	0.40	48.0	180	1.13	0.71	0.65
To Unknown Road11 - 1007, Pipe 235 - 242						0.00				0.87				0.00	10.71													
					0.00	0.00	0.13	0.85	0.31	0.31			0.00	0.00														
	241	242			0.00	0.00	0.24	0.85	0.57	0.87			0.00	0.00	10.00	109.64	134.16	196.80	117	450	450	CONC	0.40	47.0	180	1.13	0.69	0.65
To Unknown Road11 - 1007, Pipe 242 - 243						0.00				0.87				0.00	10.69													
	229	230			0.00	0.00	0.23	0.85	0.54	0.54			0.00	0.00	10.00	109.64	134.16	196.80	73	300	300	PVC	1.30	91.0	110	1.56	0.97	0.66
	230	231			0.00	0.00	0.23	0.85	0.54	1.09			0.00	0.00	10.97	105.37	129.00	190.21	140	375	375	PVC	1.30	89.5	200	1.81	0.82	0.70
	231	232			0.00	0.00	0.23	0.85	0.54	1.63			0.00	0.00	11.80	102.01	124.93	184.97	204	450	450	CONC	0.95	90.5	278	1.75	0.86	0.73
	232	235			0.00	0.00	0.23	0.85	0.54	2.17			0.00	0.00	12.66	98.73	120.95	179.79	263	600	600	CONC	0.60	89.0	476	1.68	0.88	0.55
To Unknown Road11 - 1007, Pipe 235 - 242						0.00				2.17				0.00	13.54													
	236	237			0.00	0.00	0.23	0.85	0.54	0.54			0.00	0.00	10.00	109.64	134.16	196.80	73	300	300	PVC	1.30	91.0	110	1.56	0.97	0.66
	237	238			0.00	0.00	0.23	0.85	0.54	1.09			0.00	0.00	10.97	105.37	129.00	190.21	140	375	375	PVC	1.30	89.5	200	1.81	0.82	0.70
	238	239			0.00	0.00	0.23	0.85	0.54	1.63			0.00	0.00	11.80	102.01	124.93	184.97	204	450	450	CONC	0.95	90.5	278	1.75	0.86	0.73
	239	242			0.00	0.00	0.23	0.85	0.54	2.17			0.00	0.00	12.66	98.73	120.95	179.79	263	600	600	CONC	0.60	90.0	476	1.68	0.89	0.55
To Unknown Road11 - 1007, Pipe 242 - 243						0.00				2.17				0.00	13.55													
Unknown Road11 - 1007																												
Contribution From THE GORE ROAD, Pipe 232 - 235						0.00				2.17				0.00	13.54													
Contribution From THE GORE ROAD, Pipe 234 - 235						0.00				0.87				0.00	10.71													
	235	242			0.00	0.00	0.04	0.85	0.09	3.14			0.00	0.00	13.54	95.61	117.16	174.79	368	600	600	CONC	0.65	15.0	495	1.75	0.14	0.74
Contribution From THE GORE ROAD, Pipe 239 - 242						0.00				2.17				0.00	13.55													
Contribution From THE GORE ROAD, Pipe 241 - 242						0.00				0.87				0.00	10.69													
	242	243			0.00	0.00	0.87	0.65	1.57	7.76			0.00	0.00	13.68	95.12	116.57	174.01	905	900	900	CONC	0.45	87.0	1214	1.91	0.76	0.75
	243	244			0.00	0.00	0.94	0.65	1.70	9.46			0.00	0.00	14.44	92.62	113.52	169.96	1074	975	975	CONC	0.45	94.5	1503	2.01	0.78	0.71
	244	245			0.00	0.00	0.43	0.65	0.78	10.24			0.00	0.00	15.23	90.19	110.56	165.99	1132	1050	1050	CONC	0.40	42.5	1727	1.99	0.36	0.66
STREET "O"																												
	387	388			0.00	0.00	0.18	0.68	0.34	0.34			0.00	0.00	10.00	109.64	134.16	196.80	46	300	300	PVC	0.75	33.5	84	1.18	0.47	0.55
To STREET "M", Pipe 388 - 390						0.00				0.34				0.00	10.47													
	9	10			0.00	0.00	0.27	0.70	0.53	0.53			0.00	0.00	10.00	109.64	134.16	196.80	70	375	375	PVC	0.50	51.5	124	1.12	0.76	0.57
	10	11			0.00	0.00	0.27	0.70	0.53	1.05			0.00	0.00	10.76	106.25	130.06	191.58	137	450	450	CONC	0.50	51.5	202	1.27	0.68	0.68
To STREET "S", Pipe 11 - 12						0.00				1.05				0.00	11.44													
STREET "M"																												
	249	250			0.00	0.00	0.23	0.69	0.44	0.44			0.00	0.00	10.00	109.64	134.16	196.80	59	300	300	PVC	0.70	43.0	81	1.14	0.63	0.73
To STREET "AN", Pipe 250 - 252						0.00				0.44				0.00	10.63													
	385	386			0.00	0.00	0.22	0.68	0.42	0.42			0.00	0.00	10.00	109.64	134.16	196.80	56	300	300	PVC	0.60	40.5	75	1.06	0.64	0.74
	386	388			0.00	0.00	0.37	0.68	0.70	1.12			0.00	0.00	10.64	106.80	130.73	192.43	146	450	450	CONC	0.50	68.5	202	1.27	0.90	0.72
Contribution From STREET "O", Pipe 387 - 388						0.00				0.34				0.00	10.47													
	388	390			0.00	0.00	0.38	0.68	0.72	2.17			0.00	0.00	11.54	103.04	126.18	186.58	274	600	600	CONC	0.40	70.0	388	1.37	0.85	0.71
	390	391			0.00	0.00	0.48	0.68	0.91	3.08			0.00	0.00	12.39	99.74	122.18	181.39	376	600	600	CONC	1.50	87.5	752	2.66	0.55	0.50
	391	392			0.00	0.00	0.34	0.68	0.64	3.72			0.00	0.00	12.94	97.73	119.74	178.20	446	675	675	CONC	0.60	62.5	651	1.82	0.57	0.68
	392	394			0.00	0.00	0.34	0.68	0.64	4.37			0.00	0.00	13.51	95.72	117.30	174.98	512	675	675	CONC	0.80	62.5	752	2.10	0.50	0.68
To STR. "E", Pipe 394 - 397						0.00				4.37				0.00	14.00													
STR. "E"																												
	111	113			0.00	0.00	0.41	0.70	0.80	0.80			0.00	0.00	10.00	109.64	134.16	196.80	107	375	375	PVC	0.75	77.0	152	1.37	0.93	0.70
To Unknown Road6 - 1002, Pipe 113 - 114						0.00				0.80				0.00	10.93													
	395	396			0.00	0.00	0.23	0.68	0.43	0.43			0.00	0.00	10.00	109.64	134.16	196.80	58	375	375	PVC	0.40	42.5	111	1.00	0.71	0.53
	396	397			0.00	0.00	0.25	0.68	0.47	0.91			0.00	0.00	10.71	106.51	130.37	191.97	118	450	450	CONC	0.40	46.0	180	1.13	0.68	0.66
To STREET "J", Pipe 397 - 398						0.00				0.91				0.00	11.38													

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed:	G.G.	PROJECT:	SOLMAR WILDFEILD	
Checked:	E.G.	LOCATION:	TOWN OF CALEDON	
Dwg. Reference:		File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 16 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

LOCATION			5 YEAR				10 YEAR				100 YEAR				FLOW					SEWER DATA								
Street	From MH	To MH	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	AREA (Ha)	C	Indiv. 2.78 AC	Accum. 2.78 AC	Time of Conc. (min)	Intensity 5 Year (mm/h)	Intensity 10 Year (mm/h)	Intensity 100 Year (mm/h)	Peak Flow Q (l/s)	DIA. (mm) (actual)	DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
	393	394			0.00	0.00	0.16	0.68	0.30	0.30			0.00	0.00	10.00	109.64	134.16	196.80	41	300	300	PVC	2.95	29.0	166	2.35	0.21	0.24
Contribution From STREET "M", Pipe 392 - 394						0.00				4.37				0.00	14.00													
	394	397			0.00	0.00	0.38	0.68	0.72	5.39			0.00	0.00	14.00	94.05	115.26	172.29	621	750	750	CONC	0.80	70.0	996	2.25	0.52	0.62
To STREET "J", Pipe 397 - 398						0.00				5.39				0.00	14.52													
	48	49			0.00	0.00	0.19	0.70	0.37	0.37			0.00	0.00	10.00	109.64	134.16	196.80	50	300	300	PVC	0.75	35.0	84	1.18	0.49	0.59
Contribution From STREET "Q", Pipe 47 - 49						0.00				1.44				0.00	11.47													
	49	51			0.00	0.00	0.39	0.70	0.76	2.57			0.00	0.00	11.47	103.32	126.52	187.02	325	600	600	CONC	1.00	73.0	614	2.17	0.56	0.53
Contribution From STR. "A", Pipe 50 - 51						0.00				0.51				0.00	10.36													
	51	52			0.00	0.00	0.38	0.70	0.74	3.81			0.00	0.00	12.03	101.11	123.84	183.55	472	675	675	CONC	0.60	71.5	651	1.82	0.65	0.73
	52	59			0.00	0.00	0.38	0.70	0.74	4.55			0.00	0.00	12.68	98.65	120.85	179.65	550	675	675	CONC	0.85	71.5	775	2.17	0.55	0.71
Contribution From STREET "AB", Pipe 57 - 59						0.00				2.53				0.00	12.24													
Contribution From STREET "G", Pipe 58 - 59						0.00				0.64				0.00	10.51													
	59	60			0.00	0.00	0.37	0.70	0.72	8.45			0.00	0.00	13.23	96.67	118.45	176.50	1000	825	825	CONC	0.90	70.0	1362	2.55	0.46	0.73
Contribution From STREET "U", Pipe 32 - 60						0.00				19.13				0.00	15.44													
Contribution From STREET "U", Pipe 43 - 60						0.00				6.81				0.00	15.80													
	60	66			0.00	0.00	0.37	0.70	0.72	35.11			0.00	0.00	15.80	88.48	108.47	163.18	3808	1500	1500	CONC	0.55	70.0	5242	2.97	0.39	0.73
Contribution From STREET "V", Pipe 65 - 66						0.00				4.16				0.00	13.38													
	66	69			0.00	0.00	0.37	0.70	0.72	39.99			0.00	0.00	16.20	87.35	107.09	161.32	4283	1650	1650	CONC	0.40	70.0	5764	2.70	0.43	0.74
Contribution From STREET "W", Pipe 68 - 69						0.00				1.46				0.00	10.95													
	69	71			0.00	0.00	0.37	0.70	0.72	42.17			0.00	0.00	16.63	86.15	105.62	159.32	4454	1650	1650	CONC	0.45	70.0	6114	2.86	0.41	0.73
Contribution From STREET "AE", Pipe 70 - 71						0.00				0.68				0.00	10.56													
	71	95			0.00	0.00	0.39	0.70	0.76	43.61			0.00	0.00	17.04	85.04	104.27	157.48	4547	1650	1650	CONC	0.45	74.0	6114	2.86	0.43	0.74
Contribution From STREET "B", Pipe 93 - 95						0.00				13.70				0.00	14.67													
Contribution From STREET "B", Pipe 94 - 95						0.00				1.01				0.00	10.78													
	95	96			0.00	0.00	0.37	0.70	0.72	59.04			0.00	0.00	17.47	83.91	102.89	155.59	6075	1800	1800	CONC	0.50	70.0	8128	3.19	0.37	0.75
	96	101			0.00	0.00	0.37	0.70	0.72	59.76			0.00	0.00	17.83	82.98	101.74	154.02	6080	1800	1800	CONC	0.50	70.0	8128	3.19	0.37	0.75
Contribution From STREET "AD", Pipe 100 - 101						0.00				1.91				0.00	11.90													
	101	108			0.00	0.00	0.37	0.70	0.72	62.39			0.00	0.00	18.20	82.06	100.62	152.48	6278	1800	1800	CONC	0.55	70.0	8525	3.35	0.35	0.74
Contribution From STREET "AE", Pipe 107 - 108						0.00				3.00				0.00	12.49													
	108	109			0.00	0.00	0.47	0.70	0.91	66.30			0.00	0.00	18.55	81.21	99.58	151.04	6602	1950	1950	CONC	0.40	88.0	9000	3.01	0.49	0.73
	109	113			0.00	0.00	0.47	0.70	0.91	67.21			0.00	0.00	19.03	80.05	98.16	149.08	6598	1950	1950	CONC	0.40	89.0	9000	3.01	0.49	0.73
To Unknown Road6 - 1002, Pipe 113 - 114						0.00				67.21				0.00	19.53													
STR. "A"																												
	16	17			0.00	0.00	0.27	0.70	0.53	0.53			0.00	0.00	10.00	109.64	134.16	196.80	70	375	375	PVC	0.50	51.5	124	1.12	0.76	0.57
	17	19			0.00	0.00	0.27	0.70	0.53	1.05			0.00	0.00	10.76	106.25	130.06	191.58	137	450	450	CONC	0.45	51.5	191	1.20	0.71	0.71
To STR. "Z", Pipe 19 - 20						0.00				1.05				0.00	11.48													
	373	374			0.00	0.00	0.44	0.68	0.83	0.83			0.00	0.00	10.00	109.64	134.16	196.80	112	375	375	PVC	2.65	81.5	285	2.58	0.53	0.39
	374	375			0.00	0.00	0.20	0.68	0.38	1.21			0.00	0.00	10.53	107.29	131.32	193.18	159	450	450	CONC	0.90	36.5	270	1.70	0.36	0.59
To Unknown Road29 - 70, Pipe 375 - 376						0.00				1.21				0.00	10.88													
	365	366			0.00	0.00	0.14	0.68	0.26	0.26			0.00	0.00	10.00	109.64	134.16	196.80	36	300	300	PVC	0.85	26.5	89	1.26	0.35	0.40
	366	367			0.00	0.00	0.06	0.68	0.11	0.38			0.00	0.00	10.35	108.06	132.25	194.37	50	300	300	PVC	0.55	10.5	72	1.01	0.17	0.70
	367	368			0.00	0.00	0.26	0.68	0.49	0.87			0.00	0.00	10.52	107.30	131.33	193.20	114	375	375	PVC	1.30	48.0	200	1.81	0.44	0.57
	368	369			0.00	0.00	0.07	0.68	0.13	1.00			0.00	0.00	10.96	105.40	129.03	190.26	129	375	375	PVC	1.20	13.0	192	1.74	0.12	0.67
	369	370			0.00	0.00	0.30	0.68	0.57	1.57			0.00	0.00	11.09	104.88	128.40	189.45	201	450	450	CONC	2.90	54.5	486	3.05	0.30	0.41
	370	371			0.00	0.00	0.05	0.68	0.09	1.66			0.00	0.00	11.39	103.65	126.92	187.54	211	525	525	CONC	0.45	10.0	288	1.33	0.13	0.73
	371	372			0.00	0.00	0.28	0.68	0.53	2.19			0.00	0.00	11.51	103.14	126.30	186.75	277	600	600	CONC	0.40	50.5	388	1.37	0.61	0.71
	372	375			0.00	0.00	0.05	0.68	0.09	2.29			0.00	0.00	12.12	100.74	123.39	182.97	282	600	600	CONC	0.40	8.5	388	1.37	0.10	0.73
To Unknown Road29 - 70, Pipe 375 - 376						0.00				2.29				0.00	12.23													
Unknown Road29 - 70																												
Contribution From STR. "A", Pipe 372 - 375						0.00				2.29				0.00	12.23													
Contribution From STR. "A", Pipe 374 - 375						0.00				1.21				0.00	10.88													
	375	376			0.00	0.00	0.37	0.68	0.70	4.20			0.00	0.00	12.23	100.34	122.91	182.34	516	750	750	CONC	0.40	68.0	704	1.59	0.71	0.73

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.	PROJECT: SOLMAR WILDFEILD		
Checked: E.G.	LOCATION: TOWN OF CALEDON		
Dwg. Reference:	File Ref: 24-1401	Date: Aug 2025	Sheet No. SHEET 17 OF 19

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

Street	LOCATION From MH	LOCATION To MH	5 YEAR AREA (Ha)	5 YEAR C	5 YEAR Indiv. 2.78 AC	5 YEAR Accum. 2.78 AC	10 YEAR AREA (Ha)	10 YEAR C	10 YEAR Indiv. 2.78 AC	10 YEAR Accum. 2.78 AC	100 YEAR AREA (Ha)	100 YEAR C	100 YEAR Indiv. 2.78 AC	100 YEAR Accum. 2.78 AC	FLOW Time of Conc. (min)	FLOW Intensity 5 Year (mm/h)	FLOW Intensity 10 Year (mm/h)	FLOW Intensity 100 Year (mm/h)	FLOW Peak Flow Q (l/s)	SEWER DATA DIA. (mm) (actual)	SEWER DATA DIA. (mm) (nominal)	TYPE	SLOPE (%)	LENGTH (m)	CAPACITY (l/s)	VELOCITY (m/s)	TIME OF FLOW (min.)	RATIO Q/Q full
	376	379			0.00	0.00	0.05	0.68	0.09	4.29			0.00	0.00	12.94	97.72	119.72	178.18	514	750	750	CONC	0.40	9.5	704	1.59	0.10	0.73
To STREET "K", Pipe 379 - 380						0.00				4.29				0.00	13.04													
STREET "K"																												
	377	378			0.00	0.00	0.54	0.68	1.02	1.02			0.00	0.00	10.00	109.64	134.16	196.80	137	450	450	CONC	0.80	99.5	255	1.60	1.03	0.54
	378	379			0.00	0.00	0.18	0.68	0.34	1.36			0.00	0.00	11.03	105.11	128.68	189.81	175	450	450	CONC	3.05	34.0	498	3.13	0.18	0.35
Contribution From Unknown Road29 - 70, Pipe 376 - 379						0.00				4.29				0.00	13.04													
	379	380			0.00	0.00	0.07	0.68	0.13	5.78			0.00	0.00	13.04	97.36	119.29	177.61	690	750	750	CONC	0.70	12.5	931	2.11	0.10	0.74
	380	381			0.00	0.00	0.29	0.68	0.55	6.33			0.00	0.00	13.14	97.01	118.87	177.05	753	825	825	CONC	0.50	52.5	1015	1.90	0.46	0.74
	381	382			0.00	0.00	0.07	0.68	0.13	6.47			0.00	0.00	13.60	95.41	116.92	174.48	756	825	825	CONC	0.50	12.5	1015	1.90	0.11	0.74
	382	383			0.00	0.00	0.42	0.68	0.79	7.26			0.00	0.00	13.71	95.04	116.47	173.88	845	900	900	CONC	0.40	77.0	1145	1.80	0.71	0.74
	383	384			0.00	0.00	0.06	0.68	0.11	7.37			0.00	0.00	14.42	92.69	113.61	170.08	838	900	900	CONC	0.40	10.5	1145	1.80	0.10	0.73
	384	397			0.00	0.00	0.34	0.68	0.64	8.02			0.00	0.00	14.52	92.38	113.23	169.58	908	975	975	CONC	0.40	62.5	1417	1.90	0.55	0.64
To STREET "J", Pipe 397 - 398						0.00				8.02				0.00	15.07													
STREET "J"																												
Contribution From STREET "K", Pipe 384 - 397						0.00				8.02				0.00	15.07													
Contribution From STR. "E", Pipe 394 - 397						0.00				5.39				0.00	14.52													
Contribution From STR. "E", Pipe 396 - 397						0.00				0.91				0.00	11.38													
	397	398			0.00	0.00	0.26	0.68	0.49	14.80			0.00	0.00	15.07	90.67	111.15	166.79	1645	1050	1050	CONC	0.70	48.5	2285	2.64	0.31	0.72
	398	399			0.00	0.00	0.36	0.68	0.68	15.48			0.00	0.00	15.37	89.75	110.02	165.27	1703	1200	1200	CONC	0.40	66.5	2466	2.18	0.51	0.69
	399	400			0.00	0.00	0.36	0.68	0.68	16.16			0.00	0.00	15.88	88.25	108.19	162.81	1749	1200	1200	CONC	1.30	66.5	4445	3.93	0.28	0.39

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed: G.G.
Checked: E.G.
Dwg. Reference:
PROJECT: SOLMAR WILDFEILD
LOCATION: TOWN OF CALEDON
File Ref: 24-1401
Date: Aug 2025
Sheet No. SHEET 18 OF 19

STM_STD

DAVID SCHAEFFER ENGINEERING LTD.
600 ALDEN ROAD, SUITE 606
MARKHAM, ON L3R 0E7
TEL: (905) 475-3080
FAX: (905) 475-3081

STORM SEWER DESIGN

TOWN OF CALEDON

Street	LOCATION From MH	LOCATION To MH	5 YEAR AREA (Ha)	5 YEAR C	5 YEAR Indiv. 2.78 AC	5 YEAR Accum. 2.78 AC	10 YEAR AREA (Ha)	10 YEAR C	10 YEAR Indiv. 2.78 AC	10 YEAR Accum. 2.78 AC	100 YEAR AREA (Ha)	100 YEAR C	100 YEAR Indiv. 2.78 AC	100 YEAR Accum. 2.78 AC	FLOW Time of Conc. (min)	FLOW Intensity 5 Year (mm/h)	FLOW Intensity 10 Year (mm/h)	FLOW Intensity 100 Year (mm/h)	FLOW Peak Flow Q (l/s)	SEWER DATA DIA. (mm) (actual)	SEWER DATA DIA. (mm) (nominal)	SEWER DATA TYPE	SEWER DATA SLOPE (%)	SEWER DATA LENGTH (m)	SEWER DATA CAPACITY (l/s)	SEWER DATA VELOCITY (m/s)	SEWER DATA TIME OF FLOW (min.)	SEWER DATA RATIO Q/Q full
STREET 43 CLEAN WATER PIPE																												
																			5140	Regional Flow for Interim Drainage Area								
	1000	1001																	5140	1650	1650	CONC	0.35	94.0	5392	2.52	0.62	0.95
	1001	1002																	5140	1650	1650	CONC	0.35	92.0	5392	2.52	0.61	0.95
	1002	1003																	5140	1650	1650	CONC	0.35	9.0	5392	2.52	0.06	0.95
To STREET 52 CLEAN WATER PIPE, Pipe 1003- 10040																			5140									
STREET 52 CLEAN WATER PIPE																												
Contribution from STREET 43 CLEAN WATER PIPE, Pipe 1002 - 1003																			5140									
	1003	10040																	5140	1800	1800	CONC	0.25	119.5	5747	2.26	0.88	0.89
	10040	1004																	5140	1800	1800	CONC	0.25	113.0	5747	2.26	0.83	0.89
	1004	1005																	5140	1800	1800	CONC	0.25	9.0	5747	2.26	0.07	0.89
To CENTREVILLE CREEK ROAD CLEAN WATER PIPE, Pipe 1005- 1006																			5140									
CENTREVILLE CREEK ROAD CLEAN WATER PIPE																												
Contribution from STREET 52 CLEAN WATER PIPE, Pipe 1004 - 1005																			5140									
	1005	1006																	5140	1800	1800	CONC	0.25	93.0	5747	2.26	0.69	0.89
	1006	1007																	5140	1800	1800	CONC	0.25	95.0	5747	2.26	0.70	0.89
	1007	HW1001																	5140	1800	1800	CONC	0.25	18.0	5747	2.26	0.13	0.89
To WETLAND RELOCATION																			5140									
WETLAND RELOCATION OUTLET																												
																			3454	100 yr Flow								
	Twin Culverts																		1727	1300	1300	CSP	0.50	15.0	1849	1.39	0.18	0.93
SWM 3 OUTLET																												
																			2792	Regional Flow								
	3000	HW3001																	2792	1200	1200	CONC	0.55	16.5	2891	2.56	0.11	0.97
To CENTREVILLE CREEK ROAD ditch																			2792									
																			1023	100 yr Flow								
	Twin Culverts																		512	850	850	CSP	0.50	15.0	595	1.05	0.24	0.86
SWM 7 OUTLET - THE GORE ROAD																												
																			5454	Regional Flow								
	700	701																	5454	1500	1500	CONC	0.60	59.0	5476	4.00	0.25	1.00
	701	702TEE																	5454	1500	1500	CONC	0.60	93.0	5476	3.10	0.50	1.00
	702TEE	SPLIT MH 703																	5454	1500	1500	CONC	0.60	83.0	5476	3.10	0.45	1.00
To SWM 7 NORTH OUTLET																			2727									
To SWM 7 SOUTH OUTLET																			2727									
	SPLIT MH 703	HW 704																	2727	1200	1200	CONC	0.50	4.5	2757	2.44	0.03	0.99
	SPLIT MH 703	705																	2727	1050	1050	CONC	1.05	150.0	2798	3.23	0.77	0.97
	705	706																	2727	1050	1050	CONC	1.05	150.0	2798	3.23	0.77	0.97
	706	707																	2727	1050	1050	CONC	1.05	129.0	2798	3.23	0.67	0.97
To EXISTING CULVERT																			2727									
																			4299	Regional Flow								
	EXISTING CULVERT																		4299	*1300*	*1300*	*CSP*	*3.1*	*32.5*	4631	3.49	0.16	0.93

Definitions:
Q = 2.78 AIC, where
Q = Peak Flow in Litres per second (L/s)
A = Areas in hectares (ha)
I = Rainfall Intensity (mm/h)
C = Runoff Coefficient

Notes:
1) Town of Caledon Rainfall-Intensity Curve
2) Min. Velocity = 0.75 m/s
3) Minimum 10 min time of concentration

Designed:	G.G	PROJECT:	SOLMAR WILDFEILD		
Checked:	E.G.	LOCATION:	TOWN OF CALEDON		
Dwg. Reference:		File Ref:	24-1401	Date: Aug 2025	Sheet No. SHEET 19"OF19

STM_STD

Appendix E2:
Overland Flow Calculations

Date:	Solmar Wildfield
DSEL File:	24-1401

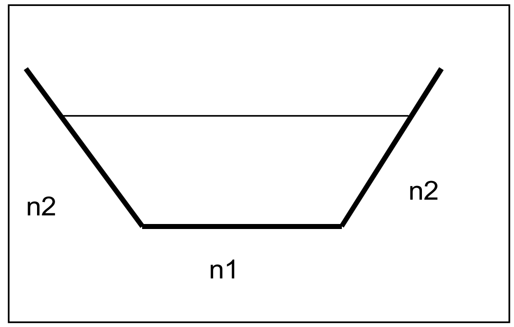
Solmar Wildfield
Overland Flow Route
North SWM 7 Inlet

100 YEAR STORM

Input:

Bottom Width	5.00	m
Bottom "n1"	0.015	
Side Slope	4	:1
Side "n2"	0.035	
Flow Depth	0.49	m
Ditch Depth	0.63	m
Slope	0.0050	m/m

OK



Output:

Flow	**5.172**	**m^3/s**	Capacity
>	**5.120**	**m^3/s**	100 Year Storm - 5 Year Storm
	OK		
Velocity	**1.54**	**m/s**	

Overland Flow Capacity	**5**	**m^3/s**	
Minor System Flow Capacity	**8.418**	**m^3/s**	
Combined Flow Capacity	**13.418**	**m^3/s**	> 100yr Storm Flow **8.92m^3/s**

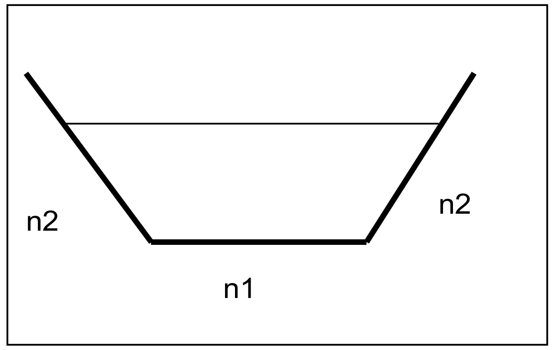
Date: Solmar Wildfield
DSEL File: 24-1401

Solmar Wildfield
Overland Flow Route
West Overland/Servicing Block

100 YEAR STORM

Input:

Bottom Width	2.50	m	
Bottom "n1"	0.035		
Side Slope	4	:1	
Side "n2"	0.035		
Flow Depth	0.33	m	
Ditch Depth	0.63	m	OK
Slope	0.0050	m/m	



Output:

Flow	**0.959**	**m^3/s**	Capacity
>	**0.764**	**m^3/s**	100 Year Storm
	OK		
Velocity	**0.78**	**m/s**	

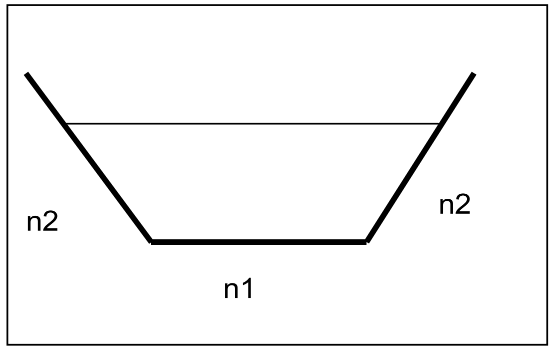
Date:	Solmar Wildfield
DSEL File:	24-1401

Solmar Wildfield
Overland Flow Route
School Servicing Block

100 YEAR STORM

Input:

Bottom Width	3.00	m	
Bottom "n1"	0.035		
Side Slope	4	:1	
Side "n2"	0.035		
Flow Depth	0.08	m	
Ditch Depth	0.25	m	**OK**
Slope	0.0050	m/m	



Output:

Flow	**0.093**	**m^3/s**	Capacity
>	**0.077**	**m^3/s**	100 Year Storm
	OK		
Velocity	**0.35**	**m/s**	