

Green Park Village

School Eastern

Soakaway

Designed By CMB

Checked By

Simulation W.11.4 net



Global Variables

Region	FSR - England & Wales	Manhole Headloss Coefficient	0.500
Return Period (yrs)	1	MADD Factor * 10m³/ha Storage	2.000
M5-60 (mm)	18.700	Foul Sewage/Hectare (l/s)	0.00
Ratio R	0.400	Additional Flow - % of Total Flow	0
Volumetric Runoff Coef	0.750	Inlet Coefficient	0.800
Profile Type	Summer	Number of Input Hydrographs	0
PIMP (%)	100	Number of Time/Area Diagrams	0
Areal Reduction Factor	1.000	Number of Bifurcations	0
Storm Duration (mins)	15	Number of Overflows	0
Hot Start (mins)	0	Number of Off-Line Controls	1
Hot Start Level (mm)	0	Number of On-Line Controls	0

Starting Storm file name

J:\11321\2002\WINDES\SCHOOL\SCHOOL EASTERN NETWORK.SWS

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D, L (mm)	B (mm)
25.004		40.350	39.595	225	0

Infiltration Systems

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier.

DS/PN	MH Loss	Height above DS PN (m)	Filename	Type	Include Volume
25.004	0.500	-0.800	School - Eastern Soakaway.SRC	Cellular Storage	Yes (capped) (lvl 39.600m)

Network Details

* - Indicates pipe has been modified outside of WinDes's Storm/Foul & Schedules

PN	Length (m)	Fall (m)	Slope (1:x)	Area (ha)	T.E. (mins)	Rain Pro	k (mm)	Hyd Sect	Dia (mm)
25.000	12.00	0.072	166.7	0.010	4.00	1	0.600	o	225
25.001	15.00	0.090	166.7	0.017	0.00	1	0.600	o	225
25.002	7.00	0.042	166.7	0.018	0.00	1	0.600	o	225
26.000	15.00	0.090	166.7	0.010	4.00	1	0.600	o	225
26.001	9.00	0.054	166.7	0.015	0.00	1	0.600	o	225
25.003	18.00	0.108	166.7	0.000	0.00	1	0.600	o	225
27.000	10.00	0.060	166.7	0.010	4.00	1	0.600	o	225
27.001	21.00	0.126	166.7	0.021	0.00	1	0.600	o	225
27.002	17.00	0.102	166.7	0.021	0.00	1	0.600	o	225
28.000	13.00	0.078	166.7	0.019	4.00	1	0.600	o	225
28.001	16.00	0.096	166.7	0.010	0.00	1	0.600	o	225
27.003	5.00	0.030	166.7	0.016	0.00	1	0.600	o	225
25.004	1.00	0.005	200.1	0.000	0.00	1	0.600	o	225
PN	USMH No.	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl No.	US/MH (mm)
25.000	1	40.537	39.412	0.900	40.465	39.340	0.900		1050
25.001	2	40.465	39.340	0.900	40.375	39.250	0.900		1050
25.002	3	40.375	39.250	0.900	40.333	39.208	0.900		1050
26.000	4	40.477	39.352	0.900	40.387	39.262	0.900		1050
26.001	5	40.387	39.262	0.900	40.333	39.208	0.900		1050
25.003	6	40.333	39.208	0.900	40.350	39.100	1.025		1500
27.000	7	40.543	39.418	0.900	40.483	39.358	0.900		1050
27.001	8	40.483	39.358	0.900	40.357	39.232	0.900		1050
27.002	9	40.357	39.232	0.900	40.255	39.130	0.900		1050
28.000	10	40.429	39.304	0.900	40.351	39.226	0.900		1050
28.001	11	40.351	39.226	0.900	40.255	39.130	0.900		1050
27.003	12	40.255	39.130	0.900	40.350	39.100	1.025		1500
25.004	13	40.350	39.600	0.525	40.350	39.595	0.530		1050

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
25.000	15 Summer	1	0%	1				
25.001	15 Winter	1	0%	1				
25.002	15 Winter	1	0%	1				
26.000	15 Summer	1	0%	1				
26.001	15 Winter	1	0%	1				
25.003	15 Winter	1	0%	1				
27.000	15 Summer	1	0%	1				
27.001	15 Winter	1	0%	1				
27.002	15 Winter	1	0%	1				
28.000	15 Summer	1	0%	1				
28.001	15 Winter	1	0%	1				
27.003	15 Winter	1	0%	1	100/15 Summer			
25.004	360 Winter	1	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	25.000	39.441	-0.196	0.000	0.04	0.0	1.4	0 K
	25.001	39.386	-0.179	0.000	0.09	0.0	3.2	0 K
	25.002	39.313	-0.162	0.000	0.18	0.0	5.2	0 K
	26.000	39.381	-0.196	0.000	0.04	0.0	1.4	0 K
	26.001	39.309	-0.178	0.000	0.09	0.0	3.0	0 K
	25.003	39.280	-0.153	0.000	0.23	0.0	8.2	0 K
	27.000	39.447	-0.196	0.000	0.04	0.0	1.4	0 K
	27.001	39.406	-0.177	0.000	0.10	0.0	3.7	0 K
	27.002	39.293	-0.164	0.000	0.17	0.0	6.0	0 K
	28.000	39.345	-0.184	0.000	0.08	0.0	2.6	0 K
	28.001	39.275	-0.176	0.000	0.10	0.0	3.7	0 K
	27.003	39.227	-0.128	0.000	0.39	0.0	11.3	0 K
	25.004	38.943	-0.882	0.000	0.00	0.7	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
25.000	15 Summer	30	0%	1				
25.001	15 Summer	30	0%	1				
25.002	15 Summer	30	0%	1				
26.000	15 Summer	30	0%	1				
26.001	15 Summer	30	0%	1				
25.003	15 Summer	30	0%	1				
27.000	15 Summer	30	0%	1				
27.001	15 Summer	30	0%	1				
27.002	15 Winter	30	0%	1				
28.000	15 Summer	30	0%	1				
28.001	15 Winter	30	0%	1				
27.003	15 Winter	30	0%	1	100/15 Summer			
25.004	480 Winter	30	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	25.000	39.459	-0.178	0.000	0.10	0.0	3.4	0 K
	25.001	39.418	-0.147	0.000	0.26	0.0	9.2	0 K
	25.002	39.364	-0.111	0.000	0.51	0.0	15.3	0 K
	26.000	39.399	-0.178	0.000	0.10	0.0	3.4	0 K
	26.001	39.356	-0.131	0.000	0.25	0.0	8.3	0 K
	25.003	39.341	-0.092	0.000	0.65	0.0	23.2	0 K
	27.000	39.468	-0.175	0.000	0.10	0.0	3.4	0 K
	27.001	39.440	-0.143	0.000	0.29	0.0	10.5	0 K
	27.002	39.356	-0.101	0.000	0.46	0.0	16.6	0 K
	28.000	39.373	-0.156	0.000	0.18	0.0	6.4	0 K
	28.001	39.341	-0.110	0.000	0.26	0.0	9.2	0 K
	27.003	39.325	-0.030	0.000	1.00	0.0	29.3	0 K
	25.004	39.176	-0.649	0.000	0.00	0.8	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
25.000	15 Summer	100	0%	1				
25.001	15 Summer	100	0%	1				
25.002	15 Summer	100	0%	1				
26.000	15 Summer	100	0%	1				
26.001	15 Summer	100	0%	1				
25.003	15 Summer	100	0%	1				
27.000	15 Winter	100	0%	1				
27.001	15 Winter	100	0%	1				
27.002	15 Winter	100	0%	1				
28.000	15 Winter	100	0%	1				
28.001	15 Winter	100	0%	1				
27.003	15 Winter	100	0%	1	100/15 Summer			
25.004	480 Winter	100	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	25.000	39.467	-0.170	0.000	0.13	0.0	4.4	0 K
	25.001	39.431	-0.134	0.000	0.34	0.0	11.9	0 K
	25.002	39.387	-0.088	0.000	0.65	0.0	19.5	0 K
	26.000	39.410	-0.167	0.000	0.12	0.0	4.3	0 K
	26.001	39.379	-0.108	0.000	0.32	0.0	10.4	0 K
	25.003	39.366	-0.067	0.000	0.82	0.0	29.6	0 K
	27.000	39.479	-0.164	0.000	0.13	0.0	4.4	0 K
	27.001	39.459	-0.124	0.000	0.37	0.0	13.4	0 K
	27.002	39.424	-0.033	0.000	0.57	0.0	20.6	0 K
	28.000	39.418	-0.111	0.000	0.23	0.0	7.9	0 K
	28.001	39.406	-0.045	0.000	0.31	0.0	11.0	0 K
	27.003	39.385	0.030	0.000	1.28	0.0	37.3	SURCH'ED
	25.004	39.301	-0.524	0.000	0.00	0.8	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 30

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
25.000	15 Winter	100	30%	1				
25.001	15 Winter	100	30%	1				
25.002	480 Winter	100	30%	1				
26.000	480 Winter	100	30%	1				
26.001	480 Winter	100	30%	1				
25.003	480 Winter	100	30%	1	100/360 Winter			
27.000	15 Winter	100	30%	1				
27.001	15 Winter	100	30%	1				
27.002	15 Winter	100	30%	1	100/15 Summer			
28.000	15 Winter	100	30%	1				
28.001	15 Winter	100	30%	1	100/15 Summer			
27.003	480 Winter	100	30%	1	100/15 Summer			
25.004	480 Winter	100	30%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	25.000	39.482	-0.155	0.000	0.17	0.0	5.7	0 K
	25.001	39.457	-0.108	0.000	0.43	0.0	15.0	0 K
	25.002	39.449	-0.026	0.000	0.09	0.0	2.7	0 K
	26.000	39.449	-0.128	0.000	0.02	0.0	0.6	0 K
	26.001	39.449	-0.038	0.000	0.05	0.0	1.5	0 K
	25.003	39.449	0.016	0.000	0.12	0.0	4.2	SURCH'ED
	27.000	39.529	-0.114	0.000	0.16	0.0	5.4	0 K
	27.001	39.522	-0.061	0.000	0.43	0.0	15.6	0 K
	27.002	39.488	0.031	0.000	0.72	0.0	25.9	SURCH'ED
	28.000	39.480	-0.049	0.000	0.29	0.0	10.2	0 K
	28.001	39.463	0.012	0.000	0.42	0.0	14.8	SURCH'ED
	27.003	39.448	0.093	0.000	0.20	0.0	5.8	SURCH'ED
	25.004	39.448	-0.377	0.000	0.00	0.9	0.0	0 K

Green Park Village School - Eastern Soakaway
Designed By CMB
Checked By
Source Control W.11.4 net



Half Drain Time : 440 minutes

Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	0.7	0.7	0.1323	0.1323	17.9	OK
30 Summer	0.8	0.8	0.1687	0.1687	22.8	OK
60 Summer	0.8	0.8	0.2032	0.2032	27.5	OK
120 Summer	0.8	0.8	0.2337	0.2337	31.6	OK
180 Summer	0.8	0.8	0.2467	0.2467	33.4	OK
240 Summer	0.8	0.8	0.2527	0.2527	34.2	OK
360 Summer	0.8	0.8	0.2537	0.2537	34.3	OK
480 Summer	0.8	0.8	0.2512	0.2512	34.0	OK
600 Summer	0.8	0.8	0.2482	0.2482	33.6	OK
720 Summer	0.8	0.8	0.2442	0.2442	33.0	OK
960 Summer	0.8	0.8	0.2347	0.2347	31.8	OK
1440 Summer	0.8	0.8	0.2137	0.2137	29.0	OK
2160 Summer	0.8	0.8	0.1837	0.1837	24.8	OK
2880 Summer	0.8	0.8	0.1558	0.1558	21.1	OK
4320 Summer	0.7	0.7	0.1103	0.1103	14.9	OK
5760 Summer	0.7	0.7	0.0778	0.0778	10.5	OK
7200 Summer	0.7	0.7	0.0573	0.0573	7.7	OK
8640 Summer	0.7	0.7	0.0477	0.0477	6.5	OK
10080 Summer	0.6	0.6	0.0432	0.0432	5.8	OK
15 Winter	0.7	0.7	0.1487	0.1487	20.1	OK
30 Winter	0.8	0.8	0.1897	0.1897	25.7	OK
60 Winter	0.8	0.8	0.2292	0.2292	31.0	OK
120 Winter	0.8	0.8	0.2647	0.2647	35.9	OK
180 Winter	0.8	0.8	0.2812	0.2812	38.1	OK
240 Winter	0.8	0.8	0.2897	0.2897	39.2	OK
360 Winter	0.8	0.8	0.2942	0.2942	39.8	OK
480 Winter	0.8	0.8	0.2912	0.2912	39.4	OK
600 Winter	0.8	0.8	0.2852	0.2852	38.6	OK
720 Winter	0.8	0.8	0.2802	0.2802	37.9	OK
960 Winter	0.8	0.8	0.2667	0.2667	36.1	OK
1440 Winter	0.8	0.8	0.2352	0.2352	31.8	OK
2160 Winter	0.8	0.8	0.1882	0.1882	25.5	OK
2880 Winter	0.7	0.7	0.1463	0.1463	19.8	OK
4320 Winter	0.7	0.7	0.0808	0.0808	10.9	OK
5760 Winter	0.7	0.7	0.0493	0.0493	6.6	OK
7200 Winter	0.6	0.6	0.0417	0.0417	5.6	OK
8640 Winter	0.5	0.5	0.0362	0.0362	4.9	OK
10080 Winter	0.5	0.5	0.0322	0.0322	4.4	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	55.95	19
30 Summer	36.15	33
60 Summer	22.43	62
120 Summer	13.57	122
180 Summer	10.04	182
240 Summer	8.09	240
360 Summer	5.94	336
480 Summer	4.77	392
600 Summer	4.02	454
720 Summer	3.50	520
960 Summer	2.81	654
1440 Summer	2.05	924
2160 Summer	1.50	1324
2880 Summer	1.20	1704
4320 Summer	0.88	2424
5760 Summer	0.70	3120
7200 Summer	0.59	3752
8640 Summer	0.51	4416
10080 Summer	0.46	5144
15 Winter	55.95	18
30 Winter	36.15	33
60 Winter	22.43	62
120 Winter	13.57	120
180 Winter	10.04	178
240 Winter	8.09	234
360 Winter	5.94	346
480 Winter	4.77	450
600 Winter	4.02	484
720 Winter	3.50	558
960 Winter	2.81	712
1440 Winter	2.05	1010
2160 Winter	1.50	1428
2880 Winter	1.20	1816
4320 Winter	0.88	2508
5760 Winter	0.70	3000
7200 Winter	0.59	3744
8640 Winter	0.51	4488
10080 Winter	0.46	5240

Rainfall Details

Region	ENG+WAL	Cv (Summer)	0.750	Summer Storms	Yes
Return Period (years)	10	Cv (Winter)	0.840	Winter Storms	Yes
M5-60 (mm)	18.700	Shortest Storm (mins)	15	Climate Change %	+0
Ratio-R	0.400	Longest Storm (mins)	10080		

Time / Area Diagram

Total Area (ha) = 0.176

Time from:	(mins) to:	Area (ha)
0	4	0.176

Cellular Storage Details

Infil Coef - Base (m/hr) 0.036000 Safety Factor 2.0 Invert Level (m) 0.000
Infil Coef - Sides (m/hr) 0.036000 Porosity 0.95 Ground Level (m) 0.800

Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)
0.00	142.5	142.5	0.60	142.5	171.9	1.20	0.0	181.7	1.80	0.0	181.7	2.40	0.0	181.7
0.10	142.5	147.4	0.70	142.5	176.8	1.30	0.0	181.7	1.90	0.0	181.7	2.50	0.0	181.7
0.20	142.5	152.3	0.80	142.5	181.7	1.40	0.0	181.7	2.00	0.0	181.7			
0.30	142.5	157.2	0.90	0.0	181.7	1.50	0.0	181.7	2.10	0.0	181.7			
0.40	142.5	162.1	1.00	0.0	181.7	1.60	0.0	181.7	2.20	0.0	181.7			
0.50	142.5	167.0	1.10	0.0	181.7	1.70	0.0	181.7	2.30	0.0	181.7			

Note:
Infiltration Rate = 1 x 10⁻⁵m/s
Area = 9.5m x 15.0m x 0.8m deep

Green Park Village School - Eastern Soakaway
Designed By CMB
Checked By
Source Control W.11.4 net



Half Drain Time : 567 minutes

Storm Duration (mins)		Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15	Summer	0.8	0.8	0.1682	0.1682	22.8	OK
30	Summer	0.8	0.8	0.2167	0.2167	29.3	OK
60	Summer	0.8	0.8	0.2642	0.2642	35.7	OK
120	Summer	0.8	0.8	0.3067	0.3067	41.5	OK
180	Summer	0.8	0.8	0.3267	0.3267	44.2	OK
240	Summer	0.8	0.8	0.3367	0.3367	45.6	OK
360	Summer	0.8	0.8	0.3417	0.3417	46.2	OK
480	Summer	0.8	0.8	0.3387	0.3387	45.8	OK
600	Summer	0.8	0.8	0.3342	0.3342	45.3	OK
720	Summer	0.8	0.8	0.3292	0.3292	44.6	OK
960	Summer	0.8	0.8	0.3182	0.3182	43.1	OK
1440	Summer	0.8	0.8	0.2947	0.2947	39.9	OK
2160	Summer	0.8	0.8	0.2602	0.2602	35.2	OK
2880	Summer	0.8	0.8	0.2272	0.2272	30.8	OK
4320	Summer	0.8	0.8	0.1708	0.1708	23.1	OK
5760	Summer	0.7	0.7	0.1253	0.1253	17.0	OK
7200	Summer	0.7	0.7	0.0913	0.0913	12.4	OK
8640	Summer	0.7	0.7	0.0673	0.0673	9.1	OK
10080	Summer	0.7	0.7	0.0527	0.0527	7.2	OK
15	Winter	0.8	0.8	0.1887	0.1887	25.6	OK
30	Winter	0.8	0.8	0.2437	0.2437	33.0	OK
60	Winter	0.8	0.8	0.2977	0.2977	40.3	OK
120	Winter	0.8	0.8	0.3472	0.3472	47.0	OK
180	Winter	0.8	0.8	0.3712	0.3712	50.3	OK
240	Winter	0.8	0.8	0.3842	0.3842	52.0	OK
360	Winter	0.8	0.8	0.3937	0.3937	53.3	OK
480	Winter	0.8	0.8	0.3942	0.3942	53.3	OK
600	Winter	0.8	0.8	0.3887	0.3887	52.6	OK
720	Winter	0.8	0.8	0.3807	0.3807	51.5	OK
960	Winter	0.8	0.8	0.3667	0.3667	49.7	OK
1440	Winter	0.8	0.8	0.3332	0.3332	45.1	OK
2160	Winter	0.8	0.8	0.2807	0.2807	38.0	OK
2880	Winter	0.8	0.8	0.2312	0.2312	31.3	OK
4320	Winter	0.7	0.7	0.1473	0.1473	19.9	OK
5760	Winter	0.7	0.7	0.0853	0.0853	11.5	OK
7200	Winter	0.7	0.7	0.0507	0.0507	6.9	OK
8640	Winter	0.6	0.6	0.0442	0.0442	6.0	OK
10080	Winter	0.6	0.6	0.0392	0.0392	5.3	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	70.81	19
30 Summer	46.13	33
60 Summer	28.76	64
120 Summer	17.43	122
180 Summer	12.87	182
240 Summer	10.34	242
360 Summer	7.55	360
480 Summer	6.05	446
600 Summer	5.08	500
720 Summer	4.41	560
960 Summer	3.52	686
1440 Summer	2.57	964
2160 Summer	1.87	1364
2880 Summer	1.49	1760
4320 Summer	1.08	2512
5760 Summer	0.86	3232
7200 Summer	0.72	3896
8640 Summer	0.62	4584
10080 Summer	0.55	5152
15 Winter	70.81	19
30 Winter	46.13	33
60 Winter	28.76	62
120 Winter	17.43	120
180 Winter	12.87	178
240 Winter	10.34	236
360 Winter	7.55	350
480 Winter	6.05	460
600 Winter	5.08	564
720 Winter	4.41	642
960 Winter	3.52	740
1440 Winter	2.57	1042
2160 Winter	1.87	1488
2880 Winter	1.49	1900
4320 Winter	1.08	2640
5760 Winter	0.86	3296
7200 Winter	0.72	3752
8640 Winter	0.62	4480
10080 Winter	0.55	5144

Green Park Village
School - Eastern
Soakaway
Designed By CMB
Checked By
Source Control W.11.4 net



Half Drain Time : 769 minutes

Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	0.8	0.8	0.2187	0.2187	29.6	OK
30 Summer	0.8	0.8	0.2852	0.2852	38.6	OK
60 Summer	0.8	0.8	0.3507	0.3507	47.5	OK
120 Summer	0.8	0.8	0.4117	0.4117	55.7	OK
180 Summer	0.8	0.8	0.4412	0.4412	59.7	OK
240 Summer	0.8	0.8	0.4567	0.4567	61.8	OK
360 Summer	0.8	0.8	0.4677	0.4677	63.3	OK
480 Summer	0.8	0.8	0.4682	0.4682	63.4	OK
600 Summer	0.8	0.8	0.4627	0.4627	62.6	OK
720 Summer	0.8	0.8	0.4557	0.4557	61.7	OK
960 Summer	0.8	0.8	0.4417	0.4417	59.8	OK
1440 Summer	0.8	0.8	0.4132	0.4132	56.0	OK
2160 Summer	0.8	0.8	0.3722	0.3722	50.4	OK
2880 Summer	0.8	0.8	0.3342	0.3342	45.3	OK
4320 Summer	0.8	0.8	0.2657	0.2657	36.0	OK
5760 Summer	0.8	0.8	0.2077	0.2077	28.1	OK
7200 Summer	0.8	0.8	0.1593	0.1593	21.6	OK
8640 Summer	0.7	0.7	0.1208	0.1208	16.4	OK
10080 Summer	0.7	0.7	0.0908	0.0908	12.3	OK
15 Winter	0.8	0.8	0.2457	0.2457	33.2	OK
30 Winter	0.8	0.8	0.3202	0.3202	43.4	OK
60 Winter	0.8	0.8	0.3952	0.3952	53.5	OK
120 Winter	0.8	0.8	0.4652	0.4652	63.0	OK
180 Winter	0.8	0.8	0.5002	0.5002	67.7	OK
240 Winter	0.8	0.8	0.5197	0.5197	70.4	OK
360 Winter	0.8	0.8	0.5362	0.5362	72.6	OK
480 Winter	0.8	0.8	0.5412	0.5412	73.3	OK
600 Winter	0.8	0.8	0.5388	0.5388	73.0	OK
720 Winter	0.8	0.8	0.5323	0.5323	72.1	OK
960 Winter	0.8	0.8	0.5127	0.5127	69.4	OK
1440 Winter	0.8	0.8	0.4762	0.4762	64.5	OK
2160 Winter	0.8	0.8	0.4177	0.4177	56.5	OK
2880 Winter	0.8	0.8	0.3607	0.3607	48.8	OK
4320 Winter	0.8	0.8	0.2582	0.2582	35.0	OK
5760 Winter	0.8	0.8	0.1742	0.1742	23.6	OK
7200 Winter	0.7	0.7	0.1083	0.1083	14.7	OK
8640 Winter	0.7	0.7	0.0638	0.0638	8.6	OK
10080 Winter	0.7	0.7	0.0477	0.0477	6.5	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	91.67	19
30 Summer	60.26	34
60 Summer	37.78	64
120 Summer	22.92	122
180 Summer	16.90	182
240 Summer	13.54	242
360 Summer	9.83	362
480 Summer	7.84	480
600 Summer	6.57	572
720 Summer	5.69	622
960 Summer	4.52	742
1440 Summer	3.27	1008
2160 Summer	2.36	1408
2880 Summer	1.87	1816
4320 Summer	1.35	2596
5760 Summer	1.07	3344
7200 Summer	0.89	4040
8640 Summer	0.77	4752
10080 Summer	0.68	5440
15 Winter	91.67	19
30 Winter	60.26	33
60 Winter	37.78	62
120 Winter	22.92	120
180 Winter	16.90	180
240 Winter	13.54	238
360 Winter	9.83	352
480 Winter	7.84	466
600 Winter	6.57	576
720 Winter	5.69	684
960 Winter	4.52	796
1440 Winter	3.27	1082
2160 Winter	2.36	1536
2880 Winter	1.87	1964
4320 Winter	1.35	2768
5760 Winter	1.07	3520
7200 Winter	0.89	4176
8640 Winter	0.77	4752
10080 Winter	0.68	5152

Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 998 minutes

Storm Duration (mins)	Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	0.8	0.8	0.2857	0.2857	38.7	0 K
30 Summer	0.8	0.8	0.3727	0.3727	50.5	0 K
60 Summer	0.8	0.8	0.4602	0.4602	62.3	0 K
120 Summer	0.8	0.8	0.5437	0.5437	73.6	0 K
180 Summer	0.9	0.9	0.5863	0.5863	79.3	0 K
240 Summer	0.9	0.9	0.6108	0.6108	82.7	FLOOD RISK
360 Summer	0.9	0.9	0.6333	0.6333	85.7	FLOOD RISK
480 Summer	0.9	0.9	0.6423	0.6423	86.9	FLOOD RISK
600 Summer	0.9	0.9	0.6418	0.6418	86.9	FLOOD RISK
720 Summer	0.9	0.9	0.6363	0.6363	86.1	FLOOD RISK
960 Summer	0.9	0.9	0.6203	0.6203	84.0	FLOOD RISK
1440 Summer	0.9	0.9	0.5883	0.5883	79.6	0 K
2160 Summer	0.8	0.8	0.5432	0.5432	73.6	0 K
2880 Summer	0.8	0.8	0.5012	0.5012	67.9	0 K
4320 Summer	0.8	0.8	0.4247	0.4247	57.5	0 K
5760 Summer	0.8	0.8	0.3557	0.3557	48.2	0 K
7200 Summer	0.8	0.8	0.2947	0.2947	39.9	0 K
8640 Summer	0.8	0.8	0.2417	0.2417	32.7	0 K
10080 Summer	0.8	0.8	0.1957	0.1957	26.5	0 K
15 Winter	0.8	0.8	0.3202	0.3202	43.4	0 K
30 Winter	0.8	0.8	0.4182	0.4182	56.6	0 K
60 Winter	0.8	0.8	0.5177	0.5177	70.1	0 K
120 Winter	0.9	0.9	0.6133	0.6133	83.0	FLOOD RISK
180 Winter	0.9	0.9	0.6633	0.6633	89.8	FLOOD RISK
240 Winter	0.9	0.9	0.6928	0.6928	93.8	FLOOD RISK
360 Winter	0.9	0.9	0.7228	0.7228	97.8	FLOOD RISK
480 Winter	0.9	0.9	0.7373	0.7373	99.8	FLOOD RISK
600 Winter	0.9	0.9	0.7418	0.7418	100.4	FLOOD RISK
720 Winter	0.9	0.9	0.7403	0.7403	100.2	FLOOD RISK
960 Winter	0.9	0.9	0.7258	0.7258	98.2	FLOOD RISK
1440 Winter	0.9	0.9	0.6843	0.6843	92.6	FLOOD RISK
2160 Winter	0.9	0.9	0.6238	0.6238	84.5	FLOOD RISK
2880 Winter	0.9	0.9	0.5633	0.5633	76.2	0 K
4320 Winter	0.8	0.8	0.4487	0.4487	60.7	0 K
5760 Winter	0.8	0.8	0.3467	0.3467	47.0	0 K
7200 Winter	0.8	0.8	0.2592	0.2592	35.1	0 K
8640 Winter	0.8	0.8	0.1847	0.1847	25.0	0 K
10080 Winter	0.7	0.7	0.1243	0.1243	16.8	0 K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	119.17	19
30 Summer	78.33	34
60 Summer	49.11	64
120 Summer	29.80	124
180 Summer	21.97	182
240 Summer	17.60	242
360 Summer	12.78	362
480 Summer	10.19	482
600 Summer	8.54	600
720 Summer	7.39	718
960 Summer	5.88	820
1440 Summer	4.25	1068
2160 Summer	3.07	1472
2880 Summer	2.43	1876
4320 Summer	1.75	2680
5760 Summer	1.39	3464
7200 Summer	1.16	4248
8640 Summer	1.00	4936
10080 Summer	0.88	5648
15 Winter	119.17	19
30 Winter	78.33	33
60 Winter	49.11	62
120 Winter	29.80	122
180 Winter	21.97	180
240 Winter	17.60	238
360 Winter	12.78	354
480 Winter	10.19	470
600 Winter	8.54	584
720 Winter	7.39	694
960 Winter	5.88	906
1440 Winter	4.25	1138
2160 Winter	3.07	1600
2880 Winter	2.43	2048
4320 Winter	1.75	2896
5760 Winter	1.39	3696
7200 Winter	1.16	4464
8640 Winter	1.00	5184
10080 Winter	0.88	5840