

Surface Water Drainage Calculations

For a site referred to as

**Zion Chapel
Simmondley**

Undertaken on behalf of

Mellor Homes

Job No: 10547

Document No: 10547-WML-ZZ-XX-CA-C-0001

Date: October 2023

Project No. & Name:	10547 – Zion Chapel	Status:	Prepared by:	Rev:	Date:
Document Ref:	10547-WML-00-XX-CA-C-0001	Preliminary	Daniel Baker	P01	October 2023

General Notes

1. The calculations within this document have been undertaken using MicroDrainage Software version 2020.
2. This document is to be read in conjunction with the following documents;
 - a. 10547-WML-ZZ-XX-DR-C-1003 – Proposed Drainage GA

Proposed Surface Water Network

WML Consulting Ltd

No. 8 Oak Green
Stanley Green Business Park
Earl Rd, Cheadle Hulme, SK8 6QL

Date 17/10/2023 14:55
File 10547 - Surface Water 0...

Innovyze

Designed by DBaker
Checked by

Network 2020.1.3

Page 1



STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)

1

PIMP (%)

100

M5-60 (mm)

19.600

Add Flow / Climate Change (%)

0

Ratio R

0.304

Minimum Backdrop Height (m)

0.200

Maximum Rainfall (mm/hr)

50

Maximum Backdrop Height (m)

1.500

Maximum Time of Concentration (mins)

30

Min Design Depth for Optimisation (m)

1.200

Foul Sewage (l/s/ha)

0.000

Min Vel for Auto Design only (m/s)

1.00

Volumetric Runoff Coeff.

0.750

Min Slope for Optimisation (1:X)

500

Designed with Level Soffits

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
S1.000	12.000	0.150	80.0	0.007	5.00	0.0	0.600	o	150	Pipe/Conduit	
S1.001	8.000	0.100	80.0	0.021	0.00	0.0	0.600	o	150	Pipe/Conduit	
S2.000	8.000	0.100	80.0	0.016	5.00	0.0	0.600	o	150	Pipe/Conduit	
S1.002	8.000	0.100	80.0	0.011	0.00	0.0	0.600	o	300	Pipe/Conduit	
S3.000	6.083	0.000	0.0	0.020	5.00	0.0	0.600	o	300	Pipe/Conduit	
S3.001	6.348	0.000	0.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
S1.003	18.000	1.250	14.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
S4.000	14.000	0.150	93.3	0.018	5.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S1.000	46.07	5.18	140.300	0.007	0.0	0.0	0.0	1.12	19.9	0.9
S1.001	45.65	5.30	140.150	0.028	0.0	0.0	0.0	1.12	19.9	3.5
S2.000	46.28	5.12	140.150	0.016	0.0	0.0	0.0	1.12	19.9	2.0
S1.002	45.39	5.37	139.900	0.055	0.0	0.0	0.0	1.76	124.4	6.8
S3.000	44.35	5.68	139.800	0.020	0.0	0.0	0.0	0.15	10.5	2.3
S3.001	42.18	6.39	139.800	0.020	0.0	0.0	0.0	0.15	10.5	2.3
S1.003	41.97	6.46	139.800	0.075	0.0	0.0	0.0	4.16	294.4	8.5
S4.000	45.90	5.22	140.500	0.018	0.0	0.0	0.0	1.04	18.4	2.2

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WML Consulting Ltd		Page 3
No. 8 Oak Green Stanley Green Business Park Earl Rd, Cheadle Hulme, SK8 6QL		
Date 17/10/2023 14:55	Designed by DBaker	
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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
S1	142.935	2.635	Open Manhole	450	S1.000	140.300	150				
S2	141.140	0.990	Open Manhole	450	S1.001	140.150	150	S1.000	140.150	150	
S3	141.380	1.230	Open Manhole	450	S2.000	140.150	150				
S4	141.855	1.955	Open Manhole	600	S1.002	139.900	300	S1.001	140.050	150	
								S2.000	140.050	150	
S5	141.250	1.450	Open Manhole	600	S3.000	139.800	300				
S-TANK	141.450	1.650	Junction		S3.001	139.800	300	S3.000	139.800	300	
S6	141.860	2.060	Open Manhole	1200	S1.003	139.800	300	S1.002	139.800	300	
								S3.001	139.800	300	
S7	141.225	0.725	Open Manhole	450	S4.000	140.500	150				
S8	141.570	2.720	Open Manhole	450	S4.001	138.850	150	S4.000	140.350	150	1500
S9	141.140	4.090	Open Manhole	1500	S1.004	137.050	600	S1.003	138.550	300	1200
								S4.001	138.550	150	1050
S10	139.150	2.080	Open Manhole	1500	S5.000	137.070	600				
S11	138.550	1.530	Open Manhole	1500	S1.005	137.020	600	S1.004	137.020	600	
								S5.000	137.020	600	
S12	138.550	1.550	Open Manhole	1500	S1.006	137.000	150	S1.005	137.000	600	
S	137.950	1.090	Open Manhole	0		OUTFALL		S1.006	136.860	150	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S1	402194.469	394134.924	402194.469	394134.924	Required	
S2	402198.830	394146.104	402198.830	394146.104	Required	
S3	402204.646	394161.010	402204.646	394161.010	Required	
S4	402201.738	394153.557	402201.738	394153.557	Required	
S5	402212.747	394162.516	402212.747	394162.516	Required	
S-TANK	402211.498	394156.563			No Entry	

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<u>PIPELINE SCHEDULES for Storm</u> <u>Upstream Manhole</u> <table><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>S1.000</td><td>o</td><td>150</td><td>S1</td><td>142.935</td><td>140.300</td><td>2.485</td><td>Open Manhole</td><td>450</td></tr><tr><td>S1.001</td><td>o</td><td>150</td><td>S2</td><td>141.140</td><td>140.150</td><td>0.840</td><td>Open Manhole</td><td>450</td></tr><tr><td>S2.000</td><td>o</td><td>150</td><td>S3</td><td>141.380</td><td>140.150</td><td>1.080</td><td>Open Manhole</td><td>450</td></tr><tr><td>S1.002</td><td>o</td><td>300</td><td>S4</td><td>141.855</td><td>139.900</td><td>1.655</td><td>Open Manhole</td><td>600</td></tr><tr><td>S3.000</td><td>o</td><td>300</td><td>S5</td><td>141.250</td><td>139.800</td><td>1.150</td><td>Open Manhole</td><td>600</td></tr><tr><td>S3.001</td><td>o</td><td>300</td><td>S-TANK</td><td>141.450</td><td>139.800</td><td>1.350</td><td>Junction</td><td></td></tr><tr><td>S1.003</td><td>o</td><td>300</td><td>S6</td><td>141.860</td><td>139.800</td><td>1.760</td><td>Open Manhole</td><td>1200</td></tr><tr><td>S4.000</td><td>o</td><td>150</td><td>S7</td><td>141.225</td><td>140.500</td><td>0.575</td><td>Open Manhole</td><td>450</td></tr><tr><td>S4.001</td><td>o</td><td>150</td><td>S8</td><td>141.570</td><td>138.850</td><td>2.570</td><td>Open Manhole</td><td>450</td></tr><tr><td>S1.004</td><td>o</td><td>600</td><td>S9</td><td>141.140</td><td>137.050</td><td>3.490</td><td>Open Manhole</td><td>1500</td></tr><tr><td>S5.000</td><td>o</td><td>600</td><td>S10</td><td>139.150</td><td>137.070</td><td>1.480</td><td>Open Manhole</td><td>1500</td></tr><tr><td>S1.005</td><td>o</td><td>600</td><td>S11</td><td>138.550</td><td>137.020</td><td>0.930</td><td>Open Manhole</td><td>1500</td></tr><tr><td>S1.006</td><td>o</td><td>150</td><td>S12</td><td>138.550</td><td>137.000</td><td>1.400</td><td>Open Manhole</td><td>1500</td></tr></table> <u>Downstream Manhole</u> <table><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr><tr><td>S1.000</td><td>12.000</td><td>80.0</td><td>S2</td><td>141.140</td><td>140.150</td><td>0.840</td><td>Open Manhole</td><td>450</td></tr><tr><td>S1.001</td><td>8.000</td><td>80.0</td><td>S4</td><td>141.855</td><td>140.050</td><td>1.655</td><td>Open Manhole</td><td>600</td></tr><tr><td>S2.000</td><td>8.000</td><td>80.0</td><td>S4</td><td>141.855</td><td>140.050</td><td>1.655</td><td>Open Manhole</td><td>600</td></tr><tr><td>S1.002</td><td>8.000</td><td>80.0</td><td>S6</td><td>141.860</td><td>139.800</td><td>1.760</td><td>Open 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Manhole	1500	S1.005	8.000	400.0	S12	138.550	137.000	0.950	Open Manhole	1500	S1.006	5.200	37.1	S	137.950	136.860	0.940	Open Manhole	0
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WML Consulting Ltd		Page 7
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Online Controls for Storm

Orifice Manhole: S6, DS/PN: S1.003, Volume (m³): 3.2

Diameter (m) 0.040 Discharge Coefficient 0.600 Invert Level (m) 139.800

Hydro-Brake® Optimum Manhole: S12, DS/PN: S1.006, Volume (m³): 4.6

Unit Reference	MD-SHE-0085-3000-0800-3000
Design Head (m)	0.800
Design Flow (l/s)	3.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	85
Invert Level (m)	137.000
Minimum Outlet Pipe Diameter (mm)	100
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.800	3.0
Flush-Flo™	0.239	3.0
Kick-Flo®	0.517	2.5
Mean Flow over Head Range	-	2.6

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.6	1.200	3.6	3.000	5.5	7.000	8.3
0.200	3.0	1.400	3.9	3.500	6.0	7.500	8.5
0.300	3.0	1.600	4.1	4.000	6.3	8.000	8.8
0.400	2.9	1.800	4.4	4.500	6.7	8.500	9.0
0.500	2.6	2.000	4.6	5.000	7.0	9.000	9.3
0.600	2.6	2.200	4.8	5.500	7.4	9.500	9.6
0.800	3.0	2.400	5.0	6.000	7.7		
1.000	3.3	2.600	5.2	6.500	8.0		

WML Consulting Ltd		Page 8																																																																																				
No. 8 Oak Green Stanley Green Business Park Earl Rd, Cheadle Hulme, SK8 6QL																																																																																						
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Innovyze Network 2020.1.3																																																																																						
Storage Structures for Storm Cellular Storage Manhole: S-TANK, DS/PN: S3.001 Invert Level (m) 139.800 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.00000 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>40.0</td><td>40.0</td><td>2.600</td><td>0.0</td><td>62.8</td></tr><tr><td>0.200</td><td>40.0</td><td>45.1</td><td>2.800</td><td>0.0</td><td>62.8</td></tr><tr><td>0.400</td><td>40.0</td><td>50.1</td><td>3.000</td><td>0.0</td><td>62.8</td></tr><tr><td>0.600</td><td>40.0</td><td>55.2</td><td>3.200</td><td>0.0</td><td>62.8</td></tr><tr><td>0.800</td><td>40.0</td><td>60.2</td><td>3.400</td><td>0.0</td><td>62.8</td></tr><tr><td>1.000</td><td>0.0</td><td>62.8</td><td>3.600</td><td>0.0</td><td>62.8</td></tr><tr><td>1.200</td><td>0.0</td><td>62.8</td><td>3.800</td><td>0.0</td><td>62.8</td></tr><tr><td>1.400</td><td>0.0</td><td>62.8</td><td>4.000</td><td>0.0</td><td>62.8</td></tr><tr><td>1.600</td><td>0.0</td><td>62.8</td><td>4.200</td><td>0.0</td><td>62.8</td></tr><tr><td>1.800</td><td>0.0</td><td>62.8</td><td>4.400</td><td>0.0</td><td>62.8</td></tr><tr><td>2.000</td><td>0.0</td><td>62.8</td><td>4.600</td><td>0.0</td><td>62.8</td></tr><tr><td>2.200</td><td>0.0</td><td>62.8</td><td>4.800</td><td>0.0</td><td>62.8</td></tr><tr><td>2.400</td><td>0.0</td><td>62.8</td><td>5.000</td><td>0.0</td><td>62.8</td></tr></tbody></table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	40.0	40.0	2.600	0.0	62.8	0.200	40.0	45.1	2.800	0.0	62.8	0.400	40.0	50.1	3.000	0.0	62.8	0.600	40.0	55.2	3.200	0.0	62.8	0.800	40.0	60.2	3.400	0.0	62.8	1.000	0.0	62.8	3.600	0.0	62.8	1.200	0.0	62.8	3.800	0.0	62.8	1.400	0.0	62.8	4.000	0.0	62.8	1.600	0.0	62.8	4.200	0.0	62.8	1.800	0.0	62.8	4.400	0.0	62.8	2.000	0.0	62.8	4.600	0.0	62.8	2.200	0.0	62.8	4.800	0.0	62.8	2.400	0.0	62.8	5.000	0.0	62.8
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