



Flood Risk Assessment and Drainage Strategy

Site: Former St Joseph's Preparatory School, Gravesend, Kent DA12 1NR.

Client: GHL (Gravesend) Ltd

Prepared by: DHA Environment
Eclipse House
Eclipse Park
Sittingbourne Road
Maidstone ME14 3EN

Date: December 2023

1.1 Introduction

- 1.1.1 DHA has been commissioned by GHL (Gravesend) Ltd to prepare a Flood Risk Assessment and Drainage Strategy for a 54-unit residential development along with a 3-storey GP Surgery on Land at Former St Joseph's Preparatory School, Gravesend, Kent DA12 1NR.
- 1.1.2 Reference to the Environment Agency flood maps show that the site is located within Flood Zone 1.
- 1.1.3 This FRA has been carried out in accordance with the National Planning Policy Framework (NPPF). The NPPF requires an FRA to be prepared for all developments located in Flood Zone 1 with a site area greater than one hectare.
- 1.1.4 The proposals are classed as major development and as such this report has been prepared to outline the surface water drainage for the site to support the detailed planning application.

1.2 Summary of existing development

Location

- 1.2.1 The site is located on land at Former St Joseph's Preparatory School, Old Road East, Gravesend, Kent DA12 1NR and is centred on approximate grid reference 565396, 172899. The site occupies a total area of 1.64 hectares and currently consists of former St Joseph's Preparatory School and associated green space. The existing site has an impermeable area of 0.392 hectares.

Existing Site

- 1.2.2 A topographical survey of the site is shown on drawing 31587-TS-01 contained within **Appendix A**. The site is irregular in shape and falls from a high point of 33.15m AOD in northern section of the site adjacent to Old Road East to a low point of 28.15m AOD in the southwest corner. The site has the following boundary conditions:
- North - Old Road East with residential development beyond.
 - East - Residential dwellings.
 - South - Residential dwellings.
 - West - Residential dwellings.

Existing Drainage regime and surface water run-off

- 1.2.3 A drainage survey has been carried out by OmegaGeo to establish how the existing site drains. The results of this survey are shown overlaid onto the topographical survey at **Appendix A** of this report.
- 1.2.4 From the drainage survey the surface water from the site can be seen to drain via a combination of sewers and infiltration with any residual runoff flowing over land into the landscaped area to the south where it infiltrates to the ground.
- 1.2.5 The drainage survey indicates a 150mm diameter combined sewer within the site connecting into the 225mm diameter foul sewer within Old Road East. In addition, a soakaway is shown to the southwest of the school building on the site.
- 1.2.6 Reference has been made to Southern Water asset plans found at **Appendix B** which indicate the location of public sewers in the area. These records do not indicate any private drainage that may be present.
- 1.2.7 In October 2011 the ownership of any private sewer serving more than one property was automatically transferred to the Water Authority although many of these sewers are yet to be recorded on the asset plans.

Combined Sewers

- 1.2.8 The Southern Water asset plans show there to be the following combined sewers in the site vicinity.
- 375mm combined sewer draining from East to West down Cross Lane East.
 - 225mm combined sewer draining from South to North along Whitehill Road this connects into the 375mm combined sewer draining down Cross Lane East described above.
 - 225mm combined sewer draining from South to North and away to the East along Old Road East.

Foul Water

- 1.2.9 The Southern Water asset plans show there to be the following foul sewers in the site vicinity.
- 225mm diameter foul water pipe running from East to West along Old Road East which connects into a 375mm combined sewer draining down Cross Lane East described above.
 - Network of foul sewers draining the residential area to the south of site which discharge into a 225mm combined sewer draining from South to North and away to the east along Old Road East.
 - Network of foul sewers draining the residential area to the South and West of the site which discharge into a 225mm combined sewer draining from South to North along Whitehill Road this connects into the 375mm combined sewer draining down Cross Lane East described above.

Surface Water

- 1.2.10 The Southern Water asset plans confirm there are no surface water sewers within the vicinity of the site.

Geology and Hydrogeology

- 1.2.11 The online British Geological Survey maps indicate that the site is underlain by the Thanet Formation. This geology is considered suitable for the use of infiltration-based SuDS.
- 1.2.12 A site investigation was carried out by Soiltec Laboratories Limited during October 2023 to assess the potential for use of soakaways and porous paving. As part of the investigation two soakage tests were carried out. The first was carried out at a depth of 0.6m below ground and provided an infiltration rate of 1.15×10^{-05} m/s (0.040 m/hr).
- 1.2.13 The second test was carried out at a depth of 2.0m below ground and provided an infiltration rate of 2.97×10^{-06} m/s (0.011 m/hr). The full soakage testing report is included at **Appendix C**.
- 1.2.14 Based on the site-specific testing, infiltration is considered a suitable method for the disposal of surface water for the site.
- 1.2.15 The site can be seen to be located within Source Protection Zone 1.

1.3 Site Specific Flood Risk Assessment

Proposed Development

- 1.3.1 The proposals comprise the development of a 3 storey GP surgery as well as 54 residential units on Land at Former St Joseph's Preparatory School, Gravesend, Kent DA12 1NR. The proposed Masterplan is shown in **Appendix D**.

Flood Risk Zones

- 1.3.2 The National Planning Policy Framework provides guidance on assessing flood risk and seeks to guide development away from areas at risk of flooding from all sources. Planning Practice Guidance defines several Flood Zones based on the probability of flooding and provides guidance on the most appropriate form of development within each zone. The flood risk zones can be summarised as follows:

Zone	Annual probability in any year	
	River Flooding	Sea Flooding
Zone 1 : Low probability	Less than 1:1000 (<0.1%)	Less than 1:1000 (<0.1%)
Zone 2: Medium probability	Between 1:1000 and 1 in 100 (0.1% -1%)	Between 1:1000 and 1 in 200 (0.1% - 0.5%)
Zone 3a : High probability	Greater than 1:100 (>1%)	Greater than 1:200 (>0.5%)
Zone 3b: Functional floodplain	Greater than 1 in 20 (>5%)	N/A

Table 1 – NPPF Guidance

- 1.3.3 Reference has been made to the Environment Agency flood risk maps, a copy of which is contained within **Appendix E**. This shows the site to be located entirely within Flood Zone 1 low probability of fluvial flooding.

Vulnerability Classification

- 1.3.4 Planning Practice Guidance Table 2, "Flood Risk Vulnerability Classification", states that buildings used for residential use can be classified as "more vulnerable". All forms of development are considered appropriate in Flood Zone 1 and as such the development is considered to pass the Sequential Test. An Exception test is not required for the development.

Other sources of flooding

- 1.3.5 Reference has been made The Environment Agency flood risk maps which provide references on the risk of flooding from all sources including fluvial, surface water, groundwater, and artificial sources.

Surface water flooding

- 1.3.6 Environment Agency online mapping shows that there is a very low risk of surface water flooding on the site.

Groundwater

- 1.3.7 Groundwater flooding occurs as excess water emerges at the ground surface. The Environment Agency online mapping indicate that flooding from groundwater is unlikely in this area.

Flooding from artificial sources

- 1.3.8 Flooding from reservoirs is extremely unlikely. An area is considered at risk if peoples' lives could be threatened in the event of a dam or reservoir failure. Reference has been made to the Environment Agency online mapping which indicate that flooding from reservoirs is considered unlikely.

1.4 Proposed Development

- 1.4.1 The proposals consist of the demolition of the existing buildings and construction of a 3-storey GP Surgery as well as 54 residential units on Land at Former St Joseph's Preparatory School, Gravesend DA12 1NR.

Aims

- 1.4.2 Sustainable Urban Drainage (SuDS) techniques will be used to deal with the surface water generated by the development. This will replicate the existing drainage regime by dealing with the surface water at source, to prevent increasing the risk of downstream flooding.

Proposed Surface Water Drainage Strategy

- 1.4.3 The proposed impermeable areas are shown on drawing 31587-D-01 contained in **Appendix F**. This shows that of the total developable site area of 1.64 hectares, the total impermeable area can be seen to be 0.886 hectares. This is an increase of 0.494 hectares compared with the existing impermeable area of 0.392 hectares.
- 1.4.4 The proposed drainage scheme is shown on drawing 31587-D-02 contained in **Appendix F**. It is proposed that area of hardstanding will be constructed as a permeable paving (blocks or tarmac) with roofs where possible draining directly to them.
- 1.4.5 Roof drainage on the eastern part of the site will drain to an infiltration blanket located in the central green space. A shallow (0.6m deep) infiltration basin will be provided above the infiltration blanket to cater for the more extreme rainfall events.
- 1.4.6 The Infiltration rates of 0.040m/hr and 0.011 m/hr obtained from the site-specific infiltration testing have been taken for the purpose of the drainage design and a factor of safety of 2 applied.
- 1.4.7 Reference has been made to the Environment Agencies online mapping guidance for peak rainfall allowance for climate change and shows the site to be located within the Medway Management Catchment.
- 1.4.8 Given the proposed development is to have a design life beyond 2100, a 40% allowance for climate change needs to be considered in the design of the surface water drainage system. This is based on the upper end allowance for the 2070's epoch.

- 1.4.9 Based on the above, the drainage system has been modelled using Windes to accommodate all return periods up to and including the 1 in 100 year + 40% climate change. Calculations are shown in **Appendix F**. Infiltration features have been designed to half drain within 24 hours.

Foul water drainage

- 1.4.10 A peak foul water flow of 3 l/s has been calculated for the development. This is based on the daily flow rate of 4,000 litres per dwelling given in Sewers for Adoption 7th Edition for the 54 residential units totalling 2.59l/s and 0.4l/s for the doctor's surgery.
- 1.4.11 The development will be collected in a system of gravity sewers discharging into an existing foul water sewer. The exact location will be dependent on available capacity. Depending on existing levels and point of connection an onsite pumping station maybe required. This will be subject to the detailed design.
- 1.4.12 Any reinforcement of the existing network will be covered by the Infrastructure Charge required for the connection of each property.
- 1.4.13 There are no plans to construct treatment works on the site, nor to discharge any effluent treated or not, to ground water.

1.5 Maintenance

- 1.5.1 All the onsite surface water will remain under the control of either individual property owners or a site wide management company for drainage within shared areas who will be responsible for the ongoing maintenance.
- 1.5.2 The proposed foul water drainage will be designed and constructed in accordance with Sewers for Adoption 7th Edition and will be offered to Southern Water who will maintain them in perpetuity.

1.6 Conclusions

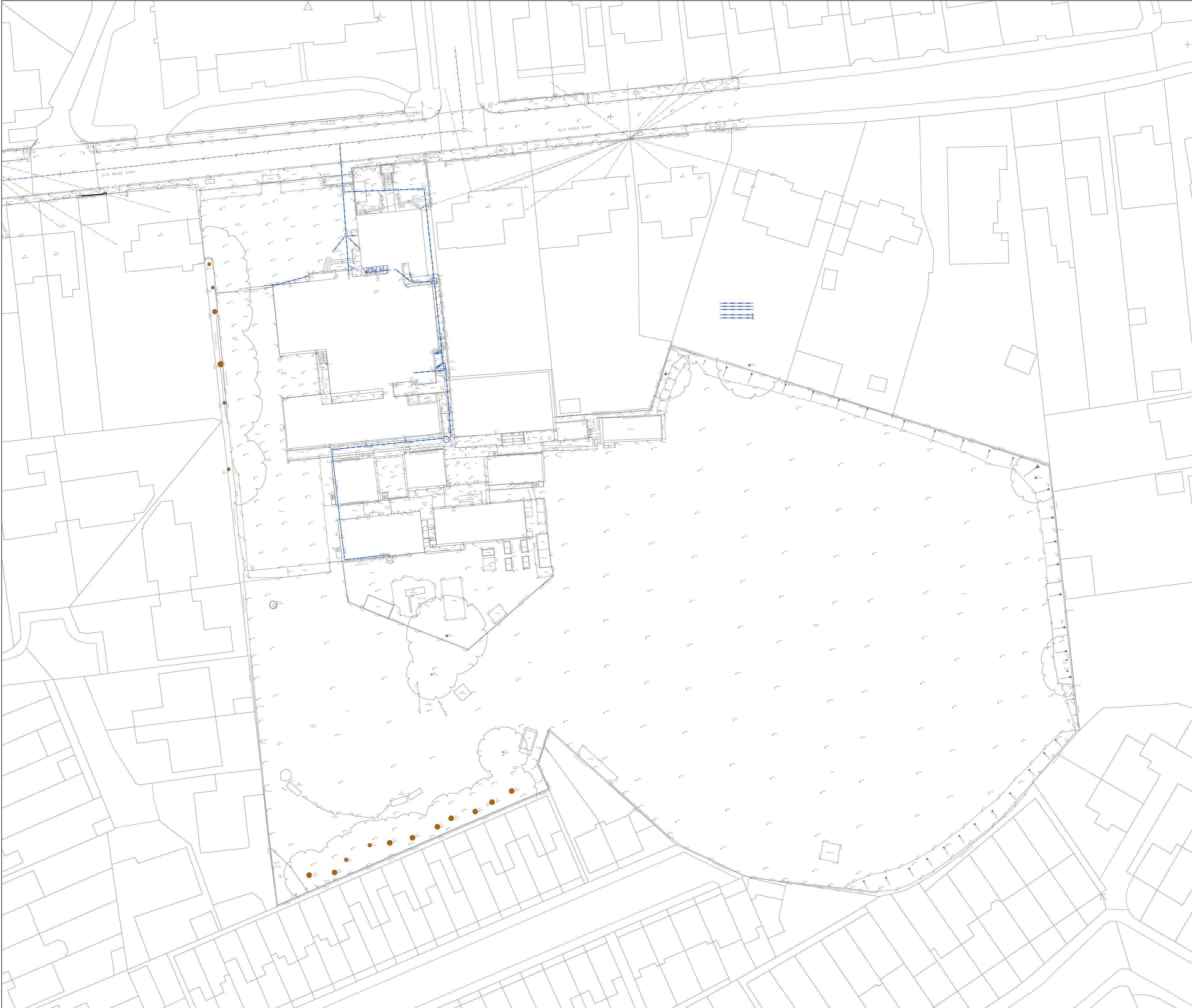
- 1.6.1 The proposals consist of the provision of a 54-unit residential development along with a 3-storey GP Surgery on Land at Former St Joseph's Preparatory School, Gravesend, Kent DA12 1NR.
- 1.6.2 The site is located within Flood Zone 1 and is not at risk from any other source of flooding.
- 1.6.3 Surface water for the site will drain via infiltration comprising of porous paving infiltration blankets and basins.
- 1.6.4 Foul drainage from the development will be via a system of gravity sewers discharging into an existing foul water sewer.

APPENDIX

A



Topographical survey



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Metres (1:500)

P1	30.10.23	JM	First Issue	CS	CS
REV	DATE	BY	DESCRIPTION	CHK	APD
client					
GHL (GRAVESEND) LTD					
project					
FORMER ST JOSEPH'S PREPARATORY SCHOOL, GRAVESEND					
title					
TOPOGRAPHICAL SURVEY					
project		dwg		rev	
31587		TS-01		P1	
Drawn	Checked	Approved	scale @ A2	date	
JM	CS	CS	1:1000	30.10.23	
status					
FOR INFORMATION				P	
					
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f: 01622 776227 w: www.dhaplanning.co.uk					
CAD Reference:					A2

APPENDIX B



Southern Water Asset plans

APPENDIX C



Site Investigation



Soiltec Laboratories Limited
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Telephone: (01622) 862138
Fax: (01622) 862904
E-mail: info@soiltec.net
Web: www.soiltec.net

SOAKAGE TEST REPORT

Date : 27th October 2023

Report No : 10282/29

Client :

Galliard (Gravesend) Ltd
Sterling Houses
3rd Floor
Langston Road
Loughton
IG10 3TS

Site :

St Joseph's Convent
40 Old Road East
Gravesend
Kent
DA12 1NR

Soiltec have been commissioned to carry out two Infiltration Tests at the above site. To this end two machine dug trial pits was excavated on the site at a location determined by the Client and shown on the included site plan.

Anticipated geological deposit - From an examination of the online BGS geological map for the area the solid geological deposit appears as Thanet Formation - Sand.

Superficial deposits of Head – clay, silt, sand and gravels may also be present on site.

Soakage Test – Once excavated, the trial pits were filled with water from a bowser to anticipated invert level of proposed drainage.

During the test period the water levels are recorded and a graph of depth to water against time is plotted. From this plot, utilising the times for the water level to drop from 25% empty to 75% empty, the infiltration rate is calculated.

The test recorded a sufficient drop in water level (ie soakage) to enable infiltration rates to be calculated.



Soiltec Laboratories Limited
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E-mail: info@soiltec.net
Web: www.soiltec.net

Results – The recorded soakage rates are expressed in m/s.

Trial Pit 1(a) = 2.97×10^{-6} m/s

Trial Pit 1(b) = 1.16×10^{-5} m/s

For and on behalf of
Soiltec Laboratories Limited

BRE Digest 365 Soakage Test (Trial Pit)

Client :	Galliard (Gravesend) Ltd	Date of Test :	24/10/23
Site :	St Joseph's Convent, Gravesend	Report No:	10282/29
Trial Pit :	1a		

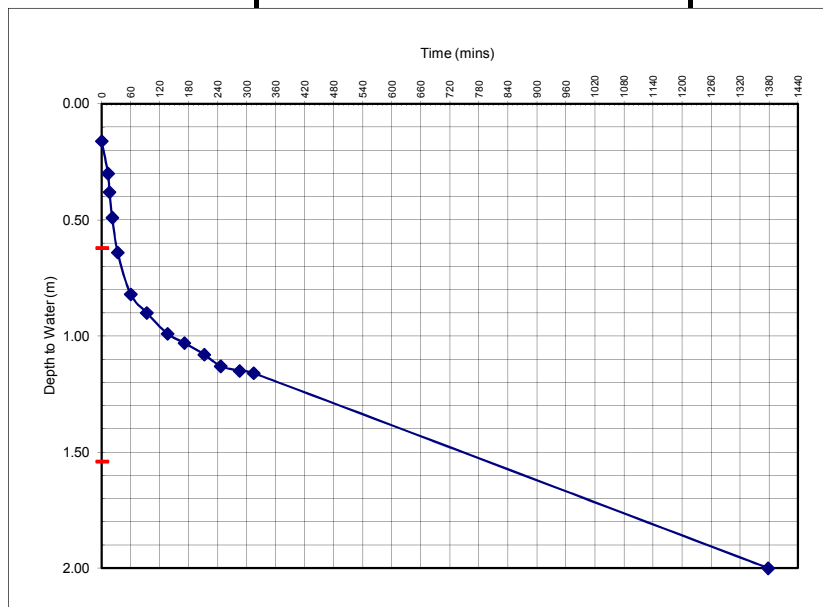
Trial Pit	
Length	1.60 m
Width	0.40 m
Depth	2.00 m
Assumed invert level*	0.16 m
Ground conditions	Sandy Clay

Results

Effective storage depth	1.84 m
75% effective storage depth	1.38 m
depth below GL	1.54 m
25% effective storage depth	0.46 m
depth below GL	0.62 m
Effective volume of outflowing between 75% - 25%	0.59 m ³
Effective storage depth 75%-25%	0.92 m
Mean surface area (a _{p50})	4.32 m ²
Out flow time to 75% effective depth (tp75)	31.5 mins
Out flow time to 25% effective depth (tp 25)	795.3 mins
Outflow time (Tp75%-Tp25%)	763.8 mins

Soil Infiltration Rate (f) = 2.97E-06 m/s

Time mins	Depth to water
0	0.16
13	0.30
16	0.38
22	0.49
33	0.64
60	0.82
93	0.90
136	0.99
171	1.03
212	1.08
246	1.13
285	1.15
314	1.16
1378	2.00



*or water level at start of test	Tested by	AH
	Approved	mk

BRE Digest 365 Soakage Test (Trial Pit)

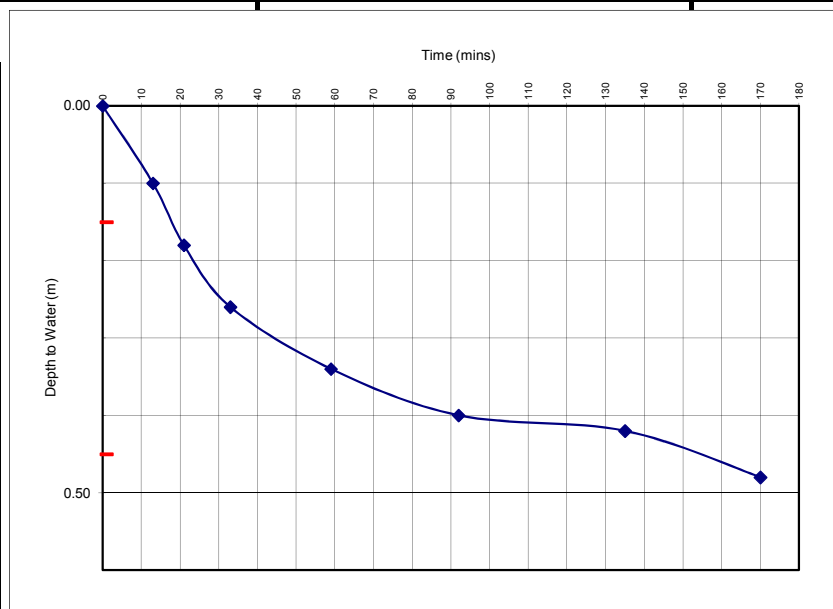
Client :	Galliard (Gravesend) Ltd	Date of Test :	24/10/23
Site :	St Joseph's Convent, Gravesend	Report No:	10282/29
Trial Pit :	1b		

Trial Pit	
Length	1.20 m
Width	0.35 m
Depth	0.60 m
Assumed invert level*	0.00 m
Ground conditions	Loamy Clay

Results	
Effective storage depth	0.60 m
75% effective storage depth	0.45 m
depth below GL	0.45 m
25% effective storage depth	0.15 m
depth below GL	0.15 m
Effective volume of outflowing between 75% - 25%	0.13 m ³
Effective storage depth 75%-25%	0.30 m
Mean surface area (a _{p50})	1.35 m ²
Out flow time to 75% effective depth (tp75)	18.0 mins
Out flow time to 25% effective depth (tp 25)	152.5 mins
Outflow time (Tp75%-Tp25%)	134.5 mins

Soil Infiltration Rate (f) = 1.16E-05 m/s

Time mins	Depth to water
0	0.00
13	0.10
21	0.18
33	0.26
59	0.34
92	0.40
135	0.42
170	0.48



*or water level at start of test	Tested by	AH
	Approved	mk



Scale: nts

Drawn : AH

Location : St Joseph's Convent, Gravesend

Report: 10282/29

Title : SI Location Plan

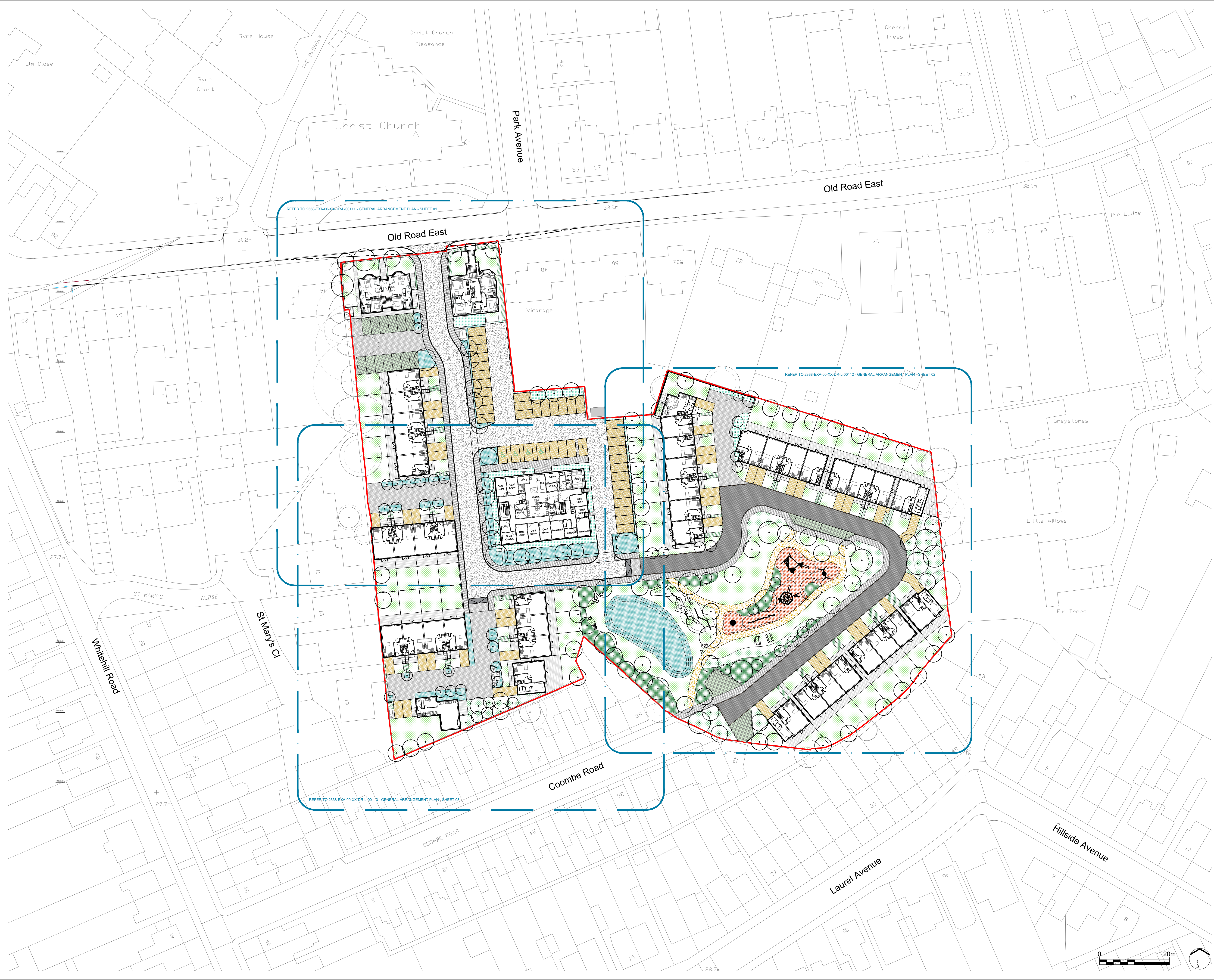
Fig. No.: 1

APPENDIX D



Proposed Site Plan

P:\LONDON PROJECTS\2023\2338 ST JOSEPHS GRAVESEND\01 BIM\02 CAD\03 SHEET LAYOUT\01 RIBA 1-3 PLANNING\2338-EXA-00-XX-DR-L-00100.DWG



No dimensions are to be scaled from this drawing.
All dimensions are to be checked on site.
Area measurements for indicative purposes only.

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Client

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P02	UPDATED PLANNING SUBMISSION	30.11.2023
P01	PLANNING SUBMISSION	13.10.2023
Rev	Description	Date

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Studio 537, The Royal Exchange, St Anns Square, Manchester, M2 7DH

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Project title

GALLIARD HOMES

Drawing title

SITE PLAN

Issued By	London	T: 020 7978 2101
Scale	1:500 @ A1	Drawn EXA
Status	PLANNING	Checked AB
Date	30.11.2023	Approved LP
Drawing number	2338-EXA-00-XX-DR-L-00100	Revision
		P02

APPENDIX E



E A Flood map

Flood map for planning

Your reference
<Unspecified>

Location (easting/northing)
565397/172902

Created
30 Oct 2023 10:52

Your selected location is in flood zone 1, an area with a low probability of flooding.

You will need to do a flood risk assessment if your site is **any of the following:**

- bigger than 1 hectare (ha)
- In an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence **which** sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2022 OS 100024198. <https://flood-map-for-planning.service.gov.uk/os-terms>

Flood map for planning

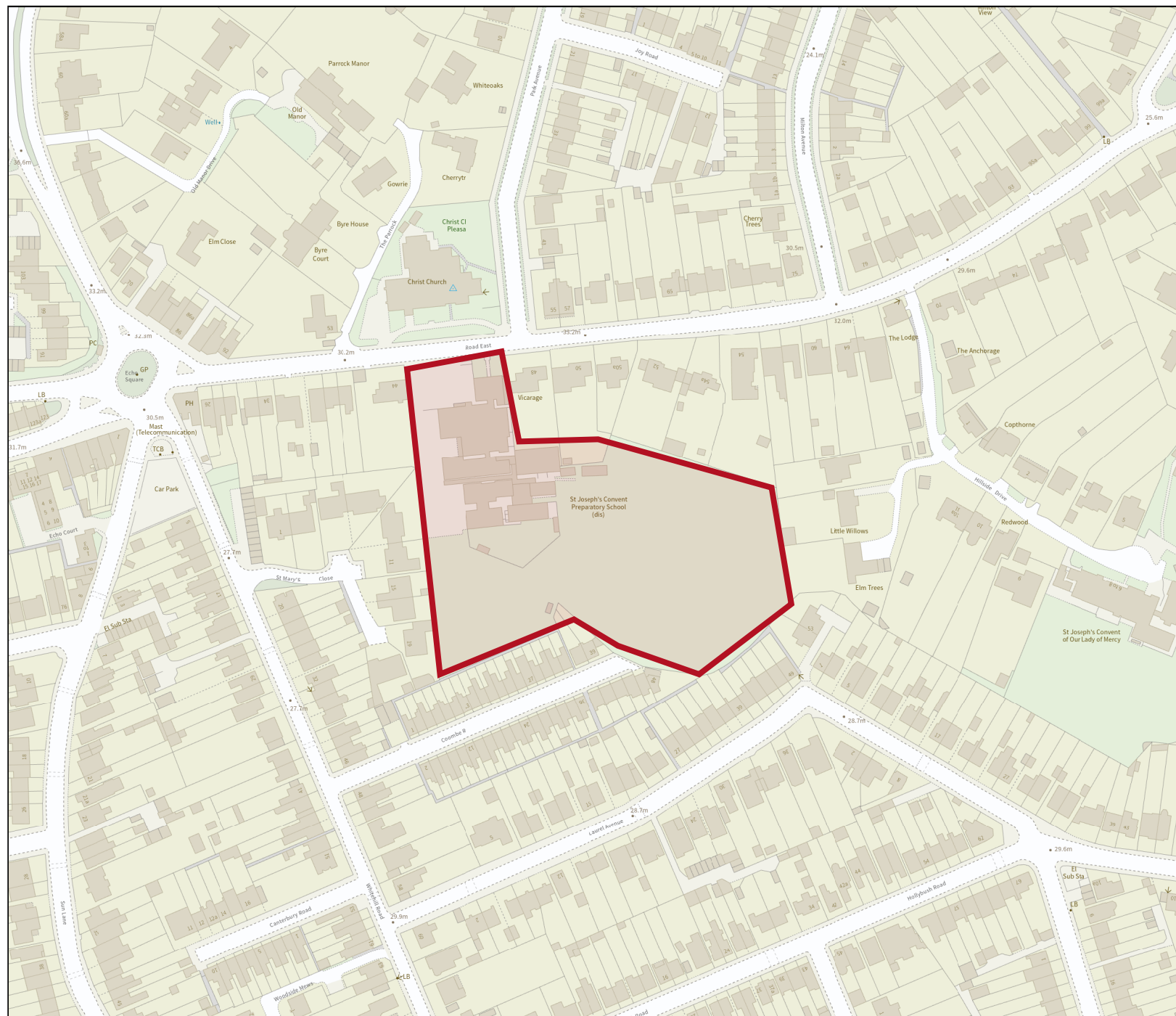
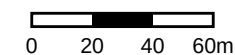
Your reference
<Unspecified>

Location (easting/northing)
565397/172902

Scale
1:2500

Created
30 Oct 2023 10:52

-  Selected area
-  Flood zone 3
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area



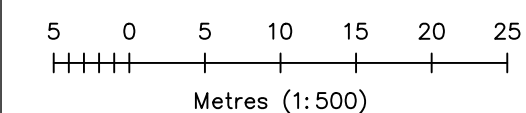
APPENDIX F



Proposed Drainage Strategy Drawings and Calculations

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	Areas of private porous pavement
	3,154m ²

Area of adoptable porous pavement
2,561m²

Areas of roofs
3,143m²

Total impermeable - 8,858m²

P1	30.10.23	JM	First Issue	CS	C
REV	DATE	BY	DESCRIPTION	CHK	AP

client	
GHL (GRAVESEND) LTD	

project

FORMER ST JOSEPH'S PREPARATORY
SCHOOL, GRAVESEND

title
CONTRIBUTING AREAS PLAN

project 31587		dwg D-01		rev P1
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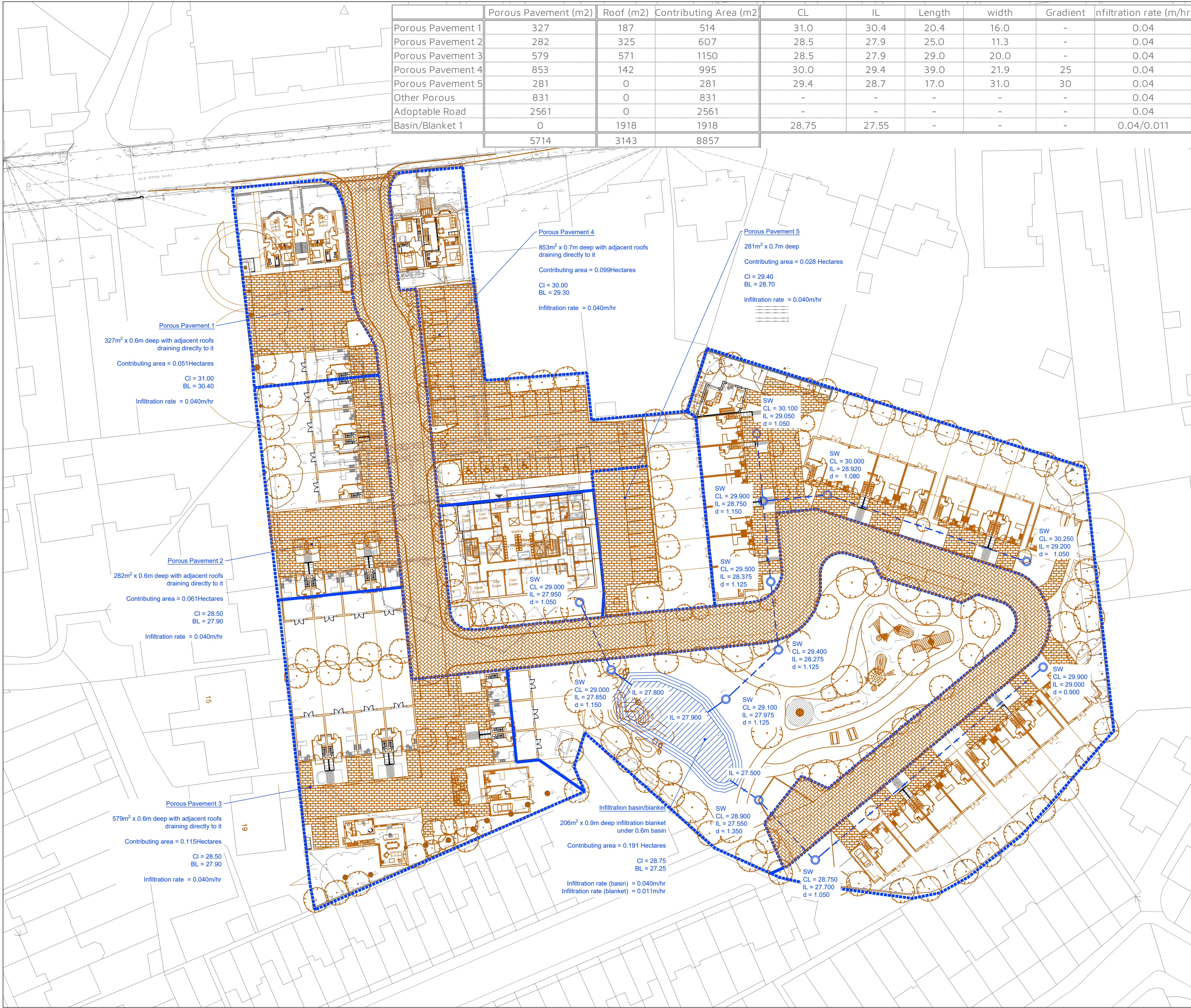
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CAD Reference



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Metres (1:500)

P1	30.10.23	JM	First Issue	CS	CS
REV	DATE	BY	DESCRIPTION	CHK	APD
client					
GHL (GRAVESEND) LTD					
project					
FORMER ST JOSEPH'S PREPARATORY SCHOOL, GRAVESEND					
title					
CONTRIBUTING AREAS PLAN					
project		dwg		rev	
31587		TS-01		P1	
Drawn	Checked	Approved	scale @ A2	date	
JM	CS	CS	1:1000	30.10.23	
status				FOR INFORMATION	
				P	
Eclipse House, Eclipse Park, Sittingbourne Road Maidstone, Kent. ME14 3EN t: 01622 776226 e: info@dhaplanning.co.uk					
f: 01622 776227 w: www.dhaplanning.co.uk					
CAD Reference:					A2

DHA Transport Ltd				Page 1																																																																																																																																																																																																																			
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Causeway			Source Control 2019.1																																																																																																																																																																																																																				
Summary of Results for 100 year Return Period (+40%) Half Drain Time : 126 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>30.552</td><td>0.152</td><td>1.8</td><td>14.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>30.595</td><td>0.195</td><td>1.8</td><td>19.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>30.625</td><td>0.225</td><td>1.8</td><td>22.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>30.631</td><td>0.231</td><td>1.8</td><td>22.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>30.626</td><td>0.226</td><td>1.8</td><td>22.1</td><td>O K</td></tr><tr><td>240 min Summer</td><td>30.618</td><td>0.218</td><td>1.8</td><td>21.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>30.600</td><td>0.200</td><td>1.8</td><td>19.5</td><td>O K</td></tr><tr><td>480 min 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(l/s)	Max Volume (m³)	Status	15 min Summer	30.552	0.152	1.8	14.9	O K	30 min Summer	30.595	0.195	1.8	19.1	O K	60 min Summer	30.625	0.225	1.8	22.0	O K	120 min Summer	30.631	0.231	1.8	22.6	O K	180 min Summer	30.626	0.226	1.8	22.1	O K	240 min Summer	30.618	0.218	1.8	21.4	O K	360 min Summer	30.600	0.200	1.8	19.5	O K	480 min Summer	30.580	0.180	1.8	17.6	O K	600 min Summer	30.561	0.161	1.8	15.8	O K	720 min Summer	30.544	0.144	1.8	14.1	O K	960 min Summer	30.513	0.113	1.8	11.1	O K	1440 min Summer	30.470	0.070	1.8	6.8	O K	2160 min Summer	30.445	0.045	1.6	4.4	O K	2880 min Summer	30.437	0.037	1.3	3.6	O K	4320 min Summer	30.427	0.027	1.0	2.7	O K	5760 min Summer	30.422	0.022	0.8	2.1	O K	7200 min Summer	30.418	0.018	0.7	1.8	O K	8640 min Summer	30.416	0.016	0.6	1.5	O K	10080 min Summer	30.414	0.014	0.5	1.3	O K	15 min Winter	30.574	0.174	1.8	17.0	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	185.630	0.0	18	30 min Summer	120.567	0.0	32	60 min Summer	73.889	0.0	62	120 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Date 04/12/2023 15:52 File ppl.SRCX		Designed by Chris Checked by			
Causeway		Source Control 2019.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	30.623	0.223	1.8	21.8	O K
60 min Winter	30.658	0.258	1.8	25.3	O K
120 min Winter	30.668	0.268	1.8	26.2	O K
180 min Winter	30.659	0.259	1.8	25.4	O K
240 min Winter	30.649	0.249	1.8	24.3	O K
360 min Winter	30.621	0.221	1.8	21.7	O K
480 min Winter	30.592	0.192	1.8	18.8	O K
600 min Winter	30.563	0.163	1.8	16.0	O K
720 min Winter	30.537	0.137	1.8	13.4	O K
960 min Winter	30.492	0.092	1.8	9.0	O K
1440 min Winter	30.448	0.048	1.7	4.7	O K
2160 min Winter	30.435	0.035	1.3	3.4	O K
2880 min Winter	30.428	0.028	1.0	2.7	O K
4320 min Winter	30.420	0.020	0.7	1.9	O K
5760 min Winter	30.416	0.016	0.6	1.5	O K
7200 min Winter	30.413	0.013	0.5	1.3	O K
8640 min Winter	30.411	0.011	0.4	1.1	O K
10080 min Winter	30.410	0.010	0.4	1.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	120.567	0.0	32		
60 min Winter	73.889	0.0	60		
120 min Winter	43.472	0.0	116		
180 min Winter	31.706	0.0	146		
240 min Winter	25.287	0.0	184		
360 min Winter	18.336	0.0	258		
480 min Winter	14.573	0.0	330		
600 min Winter	12.186	0.0	398		
720 min Winter	10.523	0.0	462		
960 min Winter	8.342	0.0	578		
1440 min Winter	6.003	0.0	764		
2160 min Winter	4.312	0.0	1124		
2880 min Winter	3.407	0.0	1472		
4320 min Winter	2.442	0.0	2208		
5760 min Winter	1.930	0.0	2856		
7200 min Winter	1.609	0.0	3672		
8640 min Winter	1.386	0.0	4288		
10080 min Winter	1.222	0.0	5144		
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DHA Transport Ltd		Page 3																																	
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Summer</td><td>28.196</td><td>0.296</td><td>1.6</td><td>25.1</td><td>O K</td></tr><tr><td>600 min Summer</td><td>28.175</td><td>0.275</td><td>1.6</td><td>23.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>28.154</td><td>0.254</td><td>1.6</td><td>21.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>28.115</td><td>0.215</td><td>1.6</td><td>18.2</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>28.050</td><td>0.150</td><td>1.6</td><td>12.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>27.983</td><td>0.083</td><td>1.6</td><td>7.1</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>27.951</td><td>0.051</td><td>1.6</td><td>4.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>27.938</td><td>0.038</td><td>1.2</td><td>3.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>27.930</td><td>0.030</td><td>0.9</td><td>2.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>27.925</td><td>0.025</td><td>0.8</td><td>2.1</td><td>O K</td></tr><tr><td>8640 min 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Summer</td><td>14.573</td><td>0.0</td><td>320</td></tr><tr><td>600 min Summer</td><td>12.186</td><td>0.0</td><td>386</td></tr><tr><td>720 min Summer</td><td>10.523</td><td>0.0</td><td>456</td></tr><tr><td>960 min Summer</td><td>8.342</td><td>0.0</td><td>586</td></tr><tr><td>1440 min Summer</td><td>6.003</td><td>0.0</td><td>834</td></tr><tr><td>2160 min Summer</td><td>4.312</td><td>0.0</td><td>1168</td></tr><tr><td>2880 min Summer</td><td>3.407</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>2.442</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.930</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.609</td><td>0.0</td><td>3640</td></tr><tr><td>8640 min Summer</td><td>1.386</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.222</td><td>0.0</td><td>5120</td></tr><tr><td>15 min Winter</td><td>185.630</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	28.120	0.220	1.6	18.7	O K	30 min Summer	28.183	0.283	1.6	24.0	O K	60 min Summer	28.231	0.331	1.6	28.1	Flood Risk	120 min Summer	28.251	0.351	1.6	29.7	Flood Risk	180 min Summer	28.246	0.346	1.6	29.3	Flood Risk	240 min Summer	28.238	0.338	1.6	28.6	Flood Risk	360 min Summer	28.218	0.318	1.6	26.9	Flood Risk	480 min Summer	28.196	0.296	1.6	25.1	O K	600 min Summer	28.175	0.275	1.6	23.3	O K	720 min Summer	28.154	0.254	1.6	21.5	O K	960 min Summer	28.115	0.215	1.6	18.2	O K	1440 min Summer	28.050	0.150	1.6	12.7	O K	2160 min Summer	27.983	0.083	1.6	7.1	O K	2880 min Summer	27.951	0.051	1.6	4.4	O K	4320 min Summer	27.938	0.038	1.2	3.2	O K	5760 min Summer	27.930	0.030	0.9	2.5	O K	7200 min Summer	27.925	0.025	0.8	2.1	O K	8640 min Summer	27.922	0.022	0.7	1.8	O K	10080 min Summer	27.919	0.019	0.6	1.6	O K	15 min Winter	28.150	0.250	1.6	21.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	185.630	0.0	18	30 min Summer	120.567	0.0	33	60 min Summer	73.889	0.0	62	120 min Summer	43.472	0.0	120	180 min Summer	31.706	0.0	158	240 min Summer	25.287	0.0	188	360 min Summer	18.336	0.0	252	480 min Summer	14.573	0.0	320	600 min Summer	12.186	0.0	386	720 min Summer	10.523	0.0	456	960 min Summer	8.342	0.0	586	1440 min Summer	6.003	0.0	834	2160 min Summer	4.312	0.0	1168	2880 min Summer	3.407	0.0	1472	4320 min Summer	2.442	0.0	2204	5760 min Summer	1.930	0.0	2936	7200 min Summer	1.609	0.0	3640	8640 min Summer	1.386	0.0	4400	10080 min Summer	1.222	0.0	5120	15 min Winter	185.630	0.0	18
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous Pavemnt 2			
Date 04/12/2023 15:55 File pp2.SRCX		Designed by Chris Checked by			
Causeway		Source Control 2019.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	28.222	0.322	1.6	27.3	Flood Risk
60 min Winter	28.278	0.378	1.6	32.0	Flood Risk
120 min Winter	28.306	0.406	1.6	34.4	Flood Risk
180 min Winter	28.304	0.404	1.6	34.2	Flood Risk
240 min Winter	28.291	0.391	1.6	33.2	Flood Risk
360 min Winter	28.265	0.365	1.6	30.9	Flood Risk
480 min Winter	28.234	0.334	1.6	28.3	Flood Risk
600 min Winter	28.202	0.302	1.6	25.6	Flood Risk
720 min Winter	28.171	0.271	1.6	22.9	O K
960 min Winter	28.112	0.212	1.6	17.9	O K
1440 min Winter	28.016	0.116	1.6	9.8	O K
2160 min Winter	27.948	0.048	1.5	4.1	O K
2880 min Winter	27.938	0.038	1.2	3.2	O K
4320 min Winter	27.928	0.028	0.9	2.3	O K
5760 min Winter	27.922	0.022	0.7	1.8	O K
7200 min Winter	27.918	0.018	0.6	1.5	O K
8640 min Winter	27.916	0.016	0.5	1.3	O K
10080 min Winter	27.914	0.014	0.4	1.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	120.567	0.0	32		
60 min Winter	73.889	0.0	62		
120 min Winter	43.472	0.0	118		
180 min Winter	31.706	0.0	172		
240 min Winter	25.287	0.0	218		
360 min Winter	18.336	0.0	274		
480 min Winter	14.573	0.0	350		
600 min Winter	12.186	0.0	422		
720 min Winter	10.523	0.0	492		
960 min Winter	8.342	0.0	626		
1440 min Winter	6.003	0.0	866		
2160 min Winter	4.312	0.0	1124		
2880 min Winter	3.407	0.0	1476		
4320 min Winter	2.442	0.0	2184		
5760 min Winter	1.930	0.0	2936		
7200 min Winter	1.609	0.0	3656		
8640 min Winter	1.386	0.0	4488		
10080 min Winter	1.222	0.0	5056		
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DHA Transport Ltd		Page 3																																	
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Model Details Storage is Online Cover Level (m) 28.500 Porous Car Park Structure <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.04000</td><td>Width (m)</td><td>25.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>11.3</td></tr><tr><td>Max Percolation (l/s)</td><td>78.5</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>27.900</td><td>Membrane Depth (m)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.04000	Width (m)	25.0	Membrane Percolation (mm/hr)	1000	Length (m)	11.3	Max Percolation (l/s)	78.5	Slope (1:X)	0.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	27.900	Membrane Depth (m)	0
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Summer</td><td>14.573</td><td>0.0</td><td>316</td></tr><tr><td>600 min Summer</td><td>12.186</td><td>0.0</td><td>382</td></tr><tr><td>720 min Summer</td><td>10.523</td><td>0.0</td><td>448</td></tr><tr><td>960 min Summer</td><td>8.342</td><td>0.0</td><td>578</td></tr><tr><td>1440 min Summer</td><td>6.003</td><td>0.0</td><td>820</td></tr><tr><td>2160 min Summer</td><td>4.312</td><td>0.0</td><td>1148</td></tr><tr><td>2880 min Summer</td><td>3.407</td><td>0.0</td><td>1472</td></tr><tr><td>4320 min Summer</td><td>2.442</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.930</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.609</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.386</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.222</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>185.630</td><td>0.0</td><td>18</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	28.100	0.200	3.2	34.8	O K	30 min Summer	28.157	0.257	3.2	44.7	O K	60 min Summer	28.200	0.300	3.2	52.2	O K	120 min Summer	28.214	0.314	3.2	54.7	Flood Risk	180 min Summer	28.209	0.309	3.2	53.8	Flood Risk	240 min Summer	28.201	0.301	3.2	52.4	Flood Risk	360 min Summer	28.182	0.282	3.2	49.0	O K	480 min Summer	28.161	0.261	3.2	45.3	O K	600 min Summer	28.140	0.240	3.2	41.7	O K	720 min Summer	28.120	0.220	3.2	38.2	O K	960 min Summer	28.083	0.183	3.2	31.8	O K	1440 min Summer	28.022	0.122	3.2	21.3	O K	2160 min Summer	27.966	0.066	3.2	11.6	O K	2880 min Summer	27.947	0.047	3.0	8.2	O K	4320 min Summer	27.935	0.035	2.2	6.0	O K	5760 min Summer	27.928	0.028	1.8	4.8	O K	7200 min Summer	27.923	0.023	1.5	4.0	O K	8640 min Summer	27.920	0.020	1.3	3.5	O K	10080 min Summer	27.918	0.018	1.1	3.0	O K	15 min Winter	28.127	0.227	3.2	39.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	185.630	0.0	18	30 min Summer	120.567	0.0	33	60 min Summer	73.889	0.0	62	120 min Summer	43.472	0.0	120	180 min Summer	31.706	0.0	152	240 min Summer	25.287	0.0	182	360 min Summer	18.336	0.0	248	480 min Summer	14.573	0.0	316	600 min Summer	12.186	0.0	382	720 min Summer	10.523	0.0	448	960 min Summer	8.342	0.0	578	1440 min Summer	6.003	0.0	820	2160 min Summer	4.312	0.0	1148	2880 min Summer	3.407	0.0	1472	4320 min Summer	2.442	0.0	2204	5760 min Summer	1.930	0.0	2936	7200 min Summer	1.609	0.0	3664	8640 min Summer	1.386	0.0	4400	10080 min Summer	1.222	0.0	5136	15 min Winter	185.630	0.0	18
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Causeway		Source Control 2019.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	28.192	0.292	3.2	50.9	O K
60 min Winter	28.242	0.342	3.2	59.6	Flood Risk
120 min Winter	28.265	0.365	3.2	63.4	Flood Risk
180 min Winter	28.260	0.360	3.2	62.7	Flood Risk
240 min Winter	28.248	0.348	3.2	60.5	Flood Risk
360 min Winter	28.221	0.321	3.2	55.9	Flood Risk
480 min Winter	28.190	0.290	3.2	50.5	O K
600 min Winter	28.159	0.259	3.2	45.1	O K
720 min Winter	28.129	0.229	3.2	39.8	O K
960 min Winter	28.073	0.173	3.2	30.1	O K
1440 min Winter	27.987	0.087	3.2	15.1	O K
2160 min Winter	27.944	0.044	2.9	7.7	O K
2880 min Winter	27.935	0.035	2.3	6.1	O K
4320 min Winter	27.925	0.025	1.6	4.4	O K
5760 min Winter	27.920	0.020	1.3	3.5	O K
7200 min Winter	27.917	0.017	1.1	2.9	O K
8640 min Winter	27.914	0.014	0.9	2.5	O K
10080 min Winter	27.913	0.013	0.8	2.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	120.567	0.0	32		
60 min Winter	73.889	0.0	60		
120 min Winter	43.472	0.0	118		
180 min Winter	31.706	0.0	170		
240 min Winter	25.287	0.0	194		
360 min Winter	18.336	0.0	270		
480 min Winter	14.573	0.0	344		
600 min Winter	12.186	0.0	416		
720 min Winter	10.523	0.0	484		
960 min Winter	8.342	0.0	616		
1440 min Winter	6.003	0.0	838		
2160 min Winter	4.312	0.0	1124		
2880 min Winter	3.407	0.0	1472		
4320 min Winter	2.442	0.0	2204		
5760 min Winter	1.930	0.0	2936		
7200 min Winter	1.609	0.0	3672		
8640 min Winter	1.386	0.0	4408		
10080 min Winter	1.222	0.0	5000		
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min Summer</td><td>29.867</td><td>0.567</td><td>2.9</td><td>44.8</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>29.854</td><td>0.554</td><td>2.9</td><td>42.8</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>29.840</td><td>0.540</td><td>2.8</td><td>40.7</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>29.814</td><td>0.514</td><td>2.7</td><td>36.9</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>29.768</td><td>0.468</td><td>2.4</td><td>30.5</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>29.712</td><td>0.412</td><td>2.1</td><td>23.7</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>29.668</td><td>0.368</td><td>1.9</td><td>18.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>29.603</td><td>0.303</td><td>1.6</td><td>12.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>29.558</td><td>0.258</td><td>1.3</td><td>9.3</td><td>O K</td></tr><tr><td>7200 min 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Summer</td><td>18.336</td><td>0.0</td><td>246</td></tr><tr><td>480 min Summer</td><td>14.573</td><td>0.0</td><td>312</td></tr><tr><td>600 min Summer</td><td>12.186</td><td>0.0</td><td>380</td></tr><tr><td>720 min Summer</td><td>10.523</td><td>0.0</td><td>448</td></tr><tr><td>960 min Summer</td><td>8.342</td><td>0.0</td><td>580</td></tr><tr><td>1440 min Summer</td><td>6.003</td><td>0.0</td><td>838</td></tr><tr><td>2160 min Summer</td><td>4.312</td><td>0.0</td><td>1212</td></tr><tr><td>2880 min Summer</td><td>3.407</td><td>0.0</td><td>1584</td></tr><tr><td>4320 min Summer</td><td>2.442</td><td>0.0</td><td>2292</td></tr><tr><td>5760 min Summer</td><td>1.930</td><td>0.0</td><td>3000</td></tr><tr><td>7200 min Summer</td><td>1.609</td><td>0.0</td><td>3744</td></tr><tr><td>8640 min Summer</td><td>1.386</td><td>0.0</td><td>4416</td></tr><tr><td>10080 min Summer</td><td>1.222</td><td>0.0</td><td>5144</td></tr><tr><td>15 min 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min Summer	29.480	0.180	0.9	4.5	O K	15 min Winter	29.796	0.496	2.6	34.4	Flood Risk	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	185.630	0.0	18	30 min Summer	120.567	0.0	33	60 min Summer	73.889	0.0	62	120 min Summer	43.472	0.0	120	180 min Summer	31.706	0.0	146	240 min Summer	25.287	0.0	178	360 min Summer	18.336	0.0	246	480 min Summer	14.573	0.0	312	600 min Summer	12.186	0.0	380	720 min Summer	10.523	0.0	448	960 min Summer	8.342	0.0	580	1440 min Summer	6.003	0.0	838	2160 min Summer	4.312	0.0	1212	2880 min Summer	3.407	0.0	1584	4320 min Summer	2.442	0.0	2292	5760 min Summer	1.930	0.0	3000	7200 min Summer	1.609	0.0	3744	8640 min Summer	1.386	0.0	4416	10080 min Summer	1.222	0.0	5144	15 min Winter	185.630	0.0	18
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DHA Transport Ltd				Page 2	
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous pavement 4			
Date 04/12/2023 16:47 File pp4.SRCX		Designed by Chris Checked by			
Causeway		Source Control 2019.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	29.863	0.563	2.9	44.2	Flood Risk
60 min Winter	29.912	0.612	2.9	52.0	Flood Risk
120 min Winter	29.938	0.638	2.9	56.1	Flood Risk
180 min Winter	29.939	0.639	2.9	56.2	Flood Risk
240 min Winter	29.934	0.634	2.9	55.4	Flood Risk
360 min Winter	29.918	0.618	2.9	53.0	Flood Risk
480 min Winter	29.898	0.598	2.9	49.8	Flood Risk
600 min Winter	29.877	0.577	2.9	46.5	Flood Risk
720 min Winter	29.858	0.558	2.9	43.4	Flood Risk
960 min Winter	29.822	0.522	2.7	38.0	Flood Risk
1440 min Winter	29.759	0.459	2.4	29.4	Flood Risk
2160 min Winter	29.686	0.386	2.0	20.7	O K
2880 min Winter	29.631	0.331	1.7	15.2	O K
4320 min Winter	29.555	0.255	1.3	9.1	O K
5760 min Winter	29.508	0.208	1.1	6.0	O K
7200 min Winter	29.475	0.175	0.9	4.3	O K
8640 min Winter	29.452	0.152	0.8	3.2	O K
10080 min Winter	29.434	0.134	0.7	2.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	120.567	0.0	32		
60 min Winter	73.889	0.0	60		
120 min Winter	43.472	0.0	118		
180 min Winter	31.706	0.0	170		
240 min Winter	25.287	0.0	192		
360 min Winter	18.336	0.0	266		
480 min Winter	14.573	0.0	340		
600 min Winter	12.186	0.0	412		
720 min Winter	10.523	0.0	482		
960 min Winter	8.342	0.0	618		
1440 min Winter	6.003	0.0	880		
2160 min Winter	4.312	0.0	1256		
2880 min Winter	3.407	0.0	1616		
4320 min Winter	2.442	0.0	2332		
5760 min Winter	1.930	0.0	3008		
7200 min Winter	1.609	0.0	3744		
8640 min Winter	1.386	0.0	4416		
10080 min Winter	1.222	0.0	5144		
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN	Porous pavement 4																																		
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Model Details Storage is Online Cover Level (m) 30.000 Porous Car Park Structure <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.04000</td><td>Width (m)</td><td>31.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>17.0</td></tr><tr><td>Max Percolation (l/s)</td><td>146.4</td><td>Slope (1:X)</td><td>30.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>29.300</td><td>Membrane Depth (m)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.04000	Width (m)	31.0	Membrane Percolation (mm/hr)	1000	Length (m)	17.0	Max Percolation (l/s)	146.4	Slope (1:X)	30.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	29.300	Membrane Depth (m)	0
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DHA Transport Ltd				Page 1	
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous pavement 5			
Date 04/12/2023 16:40 File pp5.SRCX		Designed by Chris Checked by			
Causeway		Source Control 2019.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Half Drain Time : 118 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	29.030	0.330	0.9	7.8	O K
30 min Summer	29.076	0.376	1.0	10.2	O K
60 min Summer	29.105	0.405	1.1	11.8	Flood Risk
120 min Summer	29.114	0.414	1.1	12.3	Flood Risk
180 min Summer	29.114	0.414	1.1	12.3	Flood Risk
240 min Summer	29.111	0.411	1.1	12.2	Flood Risk
360 min Summer	29.101	0.401	1.1	11.6	Flood Risk
480 min Summer	29.089	0.389	1.0	10.9	O K
600 min Summer	29.077	0.377	1.0	10.2	O K
720 min Summer	29.064	0.364	1.0	9.6	O K
960 min Summer	29.041	0.341	0.9	8.4	O K
1440 min Summer	29.003	0.303	0.8	6.6	O K
2160 min Summer	28.959	0.259	0.7	4.8	O K
2880 min Summer	28.926	0.226	0.6	3.7	O K
4320 min Summer	28.880	0.180	0.5	2.3	O K
5760 min Summer	28.850	0.150	0.4	1.6	O K
7200 min Summer	28.829	0.129	0.3	1.2	O K
8640 min Summer	28.813	0.113	0.3	0.9	O K
10080 min Summer	28.800	0.100	0.3	0.7	O K
15 min Winter	29.053	0.353	0.9	9.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	185.630	0.0	18		
30 min Summer	120.567	0.0	32		
60 min Summer	73.889	0.0	60		
120 min Summer	43.472	0.0	100		
180 min Summer	31.706	0.0	132		
240 min Summer	25.287	0.0	166		
360 min Summer	18.336	0.0	234		
480 min Summer	14.573	0.0	302		
600 min Summer	12.186	0.0	368		
720 min Summer	10.523	0.0	434		
960 min Summer	8.342	0.0	562		
1440 min Summer	6.003	0.0	810		
2160 min Summer	4.312	0.0	1172		
2880 min Summer	3.407	0.0	1532		
4320 min Summer	2.442	0.0	2248		
5760 min Summer	1.930	0.0	2944		
7200 min Summer	1.609	0.0	3672		
8640 min Summer	1.386	0.0	4408		
10080 min Summer	1.222	0.0	5136		
15 min Winter	185.630	0.0	18		
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN			Porous pavement 5		
Date 04/12/2023 16:40 File pp5.SRCX			Designed by Chris Checked by		
Causeway			Source Control 2019.1		
Summary of Results for 100 year Return Period (+40%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	29.102	0.402	1.1	11.6	Flood Risk
60 min Winter	29.134	0.434	1.2	13.6	Flood Risk
120 min Winter	29.143	0.443	1.2	14.1	Flood Risk
180 min Winter	29.141	0.441	1.2	14.0	Flood Risk
240 min Winter	29.136	0.436	1.2	13.7	Flood Risk
360 min Winter	29.121	0.421	1.1	12.8	Flood Risk
480 min Winter	29.103	0.403	1.1	11.7	Flood Risk
600 min Winter	29.086	0.386	1.0	10.7	O K
720 min Winter	29.069	0.369	1.0	9.8	O K
960 min Winter	29.037	0.337	0.9	8.2	O K
1440 min Winter	28.986	0.286	0.8	5.9	O K
2160 min Winter	28.931	0.231	0.6	3.8	O K
2880 min Winter	28.892	0.192	0.5	2.7	O K
4320 min Winter	28.843	0.143	0.4	1.5	O K
5760 min Winter	28.814	0.114	0.3	0.9	O K
7200 min Winter	28.796	0.096	0.3	0.7	O K
8640 min Winter	28.782	0.082	0.2	0.5	O K
10080 min Winter	28.772	0.072	0.2	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	120.567	0.0	32		
60 min Winter	73.889	0.0	60		
120 min Winter	43.472	0.0	112		
180 min Winter	31.706	0.0	140		
240 min Winter	25.287	0.0	178		
360 min Winter	18.336	0.0	252		
480 min Winter	14.573	0.0	324		
600 min Winter	12.186	0.0	394		
720 min Winter	10.523	0.0	462		
960 min Winter	8.342	0.0	596		
1440 min Winter	6.003	0.0	848		
2160 min Winter	4.312	0.0	1208		
2880 min Winter	3.407	0.0	1560		
4320 min Winter	2.442	0.0	2252		
5760 min Winter	1.930	0.0	2992		
7200 min Winter	1.609	0.0	3672		
8640 min Winter	1.386	0.0	4400		
10080 min Winter	1.222	0.0	5112		
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DHA Transport Ltd		Page 4																								
Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 5																									
Date 04/12/2023 16:40 File pp5.SRCX	Designed by Chris Checked by																									
Causeway	Source Control 2019.1																									
Model Details Storage is Online Cover Level (m) 29.400 Porous Car Park Structure <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.04000</td><td>Width (m)</td><td>12.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>23.0</td></tr><tr><td>Max Percolation (l/s)</td><td>76.7</td><td>Slope (1:X)</td><td>40.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>28.700</td><td>Membrane Depth (m)</td><td>0</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.04000	Width (m)	12.0	Membrane Percolation (mm/hr)	1000	Length (m)	23.0	Max Percolation (l/s)	76.7	Slope (1:X)	40.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	28.700	Membrane Depth (m)	0
Infiltration Coefficient Base (m/hr)	0.04000	Width (m)	12.0																							
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Invert Level (m)	28.700	Membrane Depth (m)	0																							
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DHA Transport Ltd				Page 1																																																																																																																																																																																																																				
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 574 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>28.356</td><td>1.106</td><td>1.8</td><td>65.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>28.427</td><td>1.177</td><td>1.9</td><td>84.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>28.488</td><td>1.238</td><td>2.1</td><td>101.3</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>28.535</td><td>1.285</td><td>2.2</td><td>115.1</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>28.557</td><td>1.307</td><td>2.3</td><td>121.7</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>28.568</td><td>1.318</td><td>2.3</td><td>125.0</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>28.575</td><td>1.325</td><td>2.3</td><td>127.1</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>28.574</td><td>1.324</td><td>2.3</td><td>126.8</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>28.572</td><td>1.322</td><td>2.3</td><td>126.1</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>28.569</td><td>1.319</td><td>2.3</td><td>125.1</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>28.560</td><td>1.310</td><td>2.3</td><td>122.5</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>28.537</td><td>1.287</td><td>2.2</td><td>115.7</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>28.499</td><td>1.249</td><td>2.1</td><td>104.6</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>28.463</td><td>1.213</td><td>2.0</td><td>94.3</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>28.399</td><td>1.149</td><td>1.9</td><td>76.8</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>28.347</td><td>1.097</td><td>1.7</td><td>63.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>28.305</td><td>1.055</td><td>1.6</td><td>52.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>28.270</td><td>1.020</td><td>1.6</td><td>44.0</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>28.243</td><td>0.993</td><td>1.5</td><td>37.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>28.386</td><td>1.136</td><td>1.8</td><td>73.3</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>185.630</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>120.567</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>73.889</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>43.472</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>31.706</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>25.287</td><td>0.0</td><td>242</td></tr><tr><td>360 min Summer</td><td>18.336</td><td>0.0</td><td>360</td></tr><tr><td>480 min Summer</td><td>14.573</td><td>0.0</td><td>414</td></tr><tr><td>600 min Summer</td><td>12.186</td><td>0.0</td><td>476</td></tr><tr><td>720 min Summer</td><td>10.523</td><td>0.0</td><td>536</td></tr><tr><td>960 min Summer</td><td>8.342</td><td>0.0</td><td>672</td></tr><tr><td>1440 min Summer</td><td>6.003</td><td>0.0</td><td>940</td></tr><tr><td>2160 min Summer</td><td>4.312</td><td>0.0</td><td>1360</td></tr><tr><td>2880 min Summer</td><td>3.407</td><td>0.0</td><td>1756</td></tr><tr><td>4320 min Summer</td><td>2.442</td><td>0.0</td><td>2512</td></tr><tr><td>5760 min Summer</td><td>1.930</td><td>0.0</td><td>3280</td></tr><tr><td>7200 min Summer</td><td>1.609</td><td>0.0</td><td>3968</td></tr><tr><td>8640 min Summer</td><td>1.386</td><td>0.0</td><td>4672</td></tr><tr><td>10080 min Summer</td><td>1.222</td><td>0.0</td><td>5352</td></tr><tr><td>15 min 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K	10080 min Summer	28.243	0.993	1.5	37.5	O K	15 min Winter	28.386	1.136	1.8	73.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	185.630	0.0	19	30 min Summer	120.567	0.0	34	60 min Summer	73.889	0.0	64	120 min Summer	43.472	0.0	122	180 min Summer	31.706	0.0	182	240 min Summer	25.287	0.0	242	360 min Summer	18.336	0.0	360	480 min Summer	14.573	0.0	414	600 min Summer	12.186	0.0	476	720 min Summer	10.523	0.0	536	960 min Summer	8.342	0.0	672	1440 min Summer	6.003	0.0	940	2160 min Summer	4.312	0.0	1360	2880 min Summer	3.407	0.0	1756	4320 min Summer	2.442	0.0	2512	5760 min Summer	1.930	0.0	3280	7200 min Summer	1.609	0.0	3968	8640 min Summer	1.386	0.0	4672	10080 min Summer	1.222	0.0	5352	15 min Winter	185.630	0.0	19
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DHA Transport Ltd				Page 2	
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Basin/blanket 1			
Date 04/12/2023 16:50 File swl.SRCX		Designed by Chris Checked by			
Causeway		Source Control 2019.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	28.464	1.214		2.0 94.4	Flood Risk
60 min Winter	28.531	1.281		2.2 113.7	Flood Risk
120 min Winter	28.583	1.333		2.3 129.5	Flood Risk
180 min Winter	28.608	1.358		2.4 137.2	Flood Risk
240 min Winter	28.621	1.371		2.4 141.4	Flood Risk
360 min Winter	28.631	1.381		2.4 144.6	Flood Risk
480 min Winter	28.631	1.381		2.4 144.4	Flood Risk
600 min Winter	28.625	1.375		2.4 142.6	Flood Risk
720 min Winter	28.621	1.371		2.4 141.2	Flood Risk
960 min Winter	28.608	1.358		2.4 137.3	Flood Risk
1440 min Winter	28.576	1.326		2.3 127.3	Flood Risk
2160 min Winter	28.522	1.272		2.2 111.2	Flood Risk
2880 min Winter	28.471	1.221		2.0 96.4	Flood Risk
4320 min Winter	28.382	1.132	1.8	72.1	O K
5760 min Winter	28.311	1.061	1.7	54.0	O K
7200 min Winter	28.256	1.006	1.5	40.5	O K
8640 min Winter	28.216	0.966	1.4	31.1	O K
10080 min Winter	28.198	0.948	1.4	27.2	O K
Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	
30 min Winter		120.567	0.0	33	
60 min Winter		73.889	0.0	62	
120 min Winter		43.472	0.0	120	
180 min Winter		31.706	0.0	178	
240 min Winter		25.287	0.0	236	
360 min Winter		18.336	0.0	348	
480 min Winter		14.573	0.0	454	
600 min Winter		12.186	0.0	536	
720 min Winter		10.523	0.0	566	
960 min Winter		8.342	0.0	720	
1440 min Winter		6.003	0.0	1024	
2160 min Winter		4.312	0.0	1452	
2880 min Winter		3.407	0.0	1872	
4320 min Winter		2.442	0.0	2676	
5760 min Winter		1.930	0.0	3400	
7200 min Winter		1.609	0.0	4104	
8640 min Winter		1.386	0.0	4672	
10080 min Winter		1.222	0.0	5152	
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN	Basin/blanket 1																																		
Date 04/12/2023 16:50 File swl.SRCX	Designed by Chris Checked by																																		
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<u>Model Details</u> Storage is Online Cover Level (m) 28.750 <u>Complex Structure</u> <u>Infiltration Blanket</u> Infiltration Coefficient Base (m/hr) 0.01100 Diameter/Width (m) 7.5 Safety Factor 2.0 Length (m) 8.1 Porosity 0.30 Cap Volume Depth (m) 0.900 Invert Level (m) 27.250 <u>Infiltration Basin</u> Invert Level (m) 28.150 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.04000 Porosity 1.00 Infiltration Coefficient Side (m/hr) 0.04000 <table border="1"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> </tr> </thead> <tbody> <tr><td>0.000</td><td>218.0</td><td>1.400</td><td>344.0</td><td>2.800</td><td>344.0</td><td>4.200</td><td>344.0</td></tr> <tr><td>0.200</td><td>257.0</td><td>1.600</td><td>344.0</td><td>3.000</td><td>344.0</td><td>4.400</td><td>344.0</td></tr> <tr><td>0.400</td><td>300.0</td><td>1.800</td><td>344.0</td><td>3.200</td><td>344.0</td><td>4.600</td><td>344.0</td></tr> <tr><td>0.600</td><td>344.0</td><td>2.000</td><td>344.0</td><td>3.400</td><td>344.0</td><td>4.800</td><td>344.0</td></tr> <tr><td>0.800</td><td>344.0</td><td>2.200</td><td>344.0</td><td>3.600</td><td>344.0</td><td>5.000</td><td>344.0</td></tr> <tr><td>1.000</td><td>344.0</td><td>2.400</td><td>344.0</td><td>3.800</td><td>344.0</td><td></td><td></td></tr> <tr><td>1.200</td><td>344.0</td><td>2.600</td><td>344.0</td><td>4.000</td><td>344.0</td><td></td><td></td></tr> </tbody> </table>			Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	0.000	218.0	1.400	344.0	2.800	344.0	4.200	344.0	0.200	257.0	1.600	344.0	3.000	344.0	4.400	344.0	0.400	300.0	1.800	344.0	3.200	344.0	4.600	344.0	0.600	344.0	2.000	344.0	3.400	344.0	4.800	344.0	0.800	344.0	2.200	344.0	3.600	344.0	5.000	344.0	1.000	344.0	2.400	344.0	3.800	344.0			1.200	344.0	2.600	344.0	4.000	344.0		
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