



Drainage Addendum

Site: Land to the North of Arundel Road, Fontwell, West Sussex BN18 OSF

Client: Harlequin Developments

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

Date: June 2026

1.1 Introduction

- 1.1.1 This Drainage Technical Note (TN) has been produced in response to the latest response from West Sussex County Council (LLFA) dated 5th June 2026 in relation to Planning Application Reference: WA/18/26/PL concerning a proposed residential development of up to 64 units on Land to the North of Arundel Road, Fontwell, West Sussex BN18 OSF.
- 1.1.2 The site has been allocated in the Walberton Neighbourhood Plan for up to approximately 40 units and a childcare facility.
- 1.1.3 This application follows a previous Outline Planning Application (WA/74/24/OUT) for 56 residential dwellings and a stand-alone community building. That application was recommended for approval by Officers and received a unanimous resolution to grant permission at the January 2025 Planning Committee. However, agreement could not be reached with Walberton Parish Council in relation to the Section 106 provisions concerning the transfer of land for the community building, and the application was therefore withdrawn at the end of 2025. Notwithstanding this, the principle of residential development and the key technical matters including drainage were accepted by the LPA and all statutory consultees.

1.2 Responses to WSCC comments

- 1.2.1 WSCC full response is contained in **Appendix A** and can be summarised with response to each point as follows: -

Standard 1: runoff destinations

"While water butts are mentioned in 1.3.4 for rainwater harvesting, these are not included in the Drainage Strategy Plan. To ensure these are included during construction, we would recommend a note on the location of the water butts is added."

- 1.2.2 Water butts are shown on the detailed site layout drawing contained in **Appendix B**. A note has also been added to the drainage strategy drawing, contained in **Appendix C**.

"It has been demonstrated that infiltration is not a viable method of draining the site, as high groundwater levels mean a 1m freeboard cannot be provided between the base of the basin and the highest groundwater level (as stated in National Standards for SuDS). As there are no ordinary watercourses nearby, it is proposed to discharge surface water at a restricted rate into WSCC highways drainage, as previously discussed with highways. in January 2025. In those emails, the applicant proposed replacing a poor condition. 150mm diameter highway drainage pipe with a 225mm diameter pipe. This is not included in the Drainage Strategy Plan".

- 1.2.3 Sewer improvements have now been included on the drainage strategy drawing contained in **Appendix C**.

"While infiltration is not being used to drain the site, there are several instances where the drainage strategy implies infiltration is still being used. For example, paragraphs 1.3.23 and 1.3.34 and the Contributing Areas Plan and Drainage Strategy Plan all still mention infiltration or infiltration basin. This does not accurately reflect how the site is proposed to drain. There may be other instances where this is an issue. It is also important that this is reflected in any other relevant document submitted under this application, to ensure documents are consistent".

- 1.2.4 It can be confirmed, that as advised by the LLFA, there is no intention to use infiltration on the site due to the new requirement to provide the 1m clearance to ground water level which was previously accepted on the outline application

- 1.2.5 Reference to the infiltration basin has been removed from the drawings.

"Standard 2: management of everyday rainfall

While a swale is mentioned in para 1.3.20 to 1.3.21, it is not included in the Drainage Strategy Plan or calculations. We would recommend using the below example when assessing interception:"

- 1.2.6 The swale has now been removed from the scheme.

- 1.2.7 The Standard states that all permeable surfaces, whether lined or not, shall be assumed to comply provided there is no additional area drained to the permeable pavement. The area of hardstanding totalling 6,309m² comprises entirely of permeable paving therefore be seen to comply.

- 1.2.8 Given that infiltration is not permitted and the site constraints do not allow for the provision of rainwater harvesting the only option for dealing with the first 5mm of rainfall is via lined permeable paving. It is therefore not possible given the site constraints to accommodate the first 5mm from the roof areas which totals 3,072m². It should be noted however that all roofs drain via the permeable paving.

- 1.2.9 The standards state that there may be specific circumstances or constraints, such as the type or size of a development that mean it is not possible to deliver one or more of the standards.
- 1.2.10 In these circumstances the opportunity to meet the standard shall be maximised. Given the site constraints, it is considered that the standards have been maximised as far as possible.

Standard 3: management of extreme rainfall and flooding

In the Contributing Areas Plan, the footprint of the attenuation basin is not included, which conflicts with the National Standards for SuDS. We request this is updated, with the Drainage Strategy Plan and corresponding hydraulic calculations amended where necessary.

- 1.2.11 The footprint of the attenuation basin has now been included on the contributing drawings and corresponding calculations.

"It is unclear whether the design of the attenuation basin has considered the high groundwater levels. We request a cross section of the basin and porous paving, to ensure groundwater is considered in the design of SuDS features.

- 1.2.12 Cross section of the pond and porous paving have now been provided in **Appendix C**. The basin is at a level of 30.1m AOD which was the maximum ground water level recorded.

While the report states FEH 2022 rainfall model has been used, the calculations state FEH 1999 rainfall model has been used.

- 1.2.13 This point has already been addressed and accepted in the LLFA response dated 8th May 2026. The response from the LLFA is as below.

"The applicant has stated that the latest FEH data has been manually entered, therefore this is adequately addressed."

"It is unclear whether freeboard from the 1 in 100 year plus climate change event has been included in the basin design".

- 1.2.14 There is a freeboard of 50mm included in the design. It is considered that an ample Factor of Safety has been provided in the other drainage parameters to justify additional freeboard is not required as this will lead to an over engineered design. The design has been based on the following parameters.

- 1.2.15 The drainage has been designed for the 1 in 100 year plus 45% allowance for climate change.

- 1.2.16 A CV value of 1 has been used which is considered unrealistic. A CV value of 1 assumes that all rainfall will find its way into the drainage system and in turn offsite which is not realistic in a conventional drainage system.

- 1.2.17 Given the whole site drains via porous paving it is not feasible that all rainfall falling on the site will reach to attenuation basin so a CV less than 1 would be more applicable.

Standard 5: Amenity and Standard 6: Biodiversity

- 1.2.18 There appears to be some conflicts between the current Drainage Plan and the landscaping plans with regards to proposed tree planting locations and open SuDS features.

- 1.2.19 Trees has now been removed from the attenuation basin.

Standard 7: Design of drainage for construction, operation, maintenance, decommissioning and structural integrity A minimum 3m easement for the attenuation basin is required, for maintenance access

- 1.2.20 A 3m easement has been indication for maintenance access.

1.3 Summary and Conclusions

- 1.3.1 As set out in this technical note it can be demonstrated that all issues raised by the LLFA have been addressed.

APPENDIX A



WSCC Response

Ground Floor
Northleigh
County Hall
Chichester
West Sussex
PO19 1RH



Lead Local Flood Authority

Mr S Davis
Planning and Building Control
Arun District Council
Arun Civic Centre
Maltravers Road
Littlehampton
West Sussex
BN17 5LF

Date 5th June 2026

Dear Mr Davis,

RE: WA/18/26/PL - Land off Arundel Road Fontwell

Thank you for your consultation on the above site, received on 26th May 2026. We have reviewed the application as submitted and wish to make the following comments.

This is a full application for the erection of 64 residential dwellings with access off Arundel Road, together with associated parking, open space, play space, landscaping, drainage and infrastructure.

We **maintain our objection** to this application, and require additional information:

Standard 1: runoff destinations

While water butts are mentioned in 1.3.4 for rainwater harvesting, these are not included in the Drainage Strategy Plan. To ensure these are included during construction, we would recommend a note or the location of the water butts is added.

It has been demonstrated that infiltration is not a viable method of draining the site, as high groundwater levels mean a 1m freeboard cannot be provided between the base of the basin and the highest groundwater level (as stated in National Standards for SuDS). As there are no ordinary watercourses nearby, it is proposed to discharge surface water at a restricted rate into WSCC highways drainage, as previously discussed with highways in January 2025. In those emails, the applicant proposed replacing a poor condition 150mm diameter highway drainage pipe with a 225mm diameter pipe. This is not included in the Drainage Strategy Plan.

While infiltration is not being used to drain the site, there are several instances where the drainage strategy implies infiltration is still being used. For example, paragraphs 1.3.23 and 1.3.34 and the Contributing Areas Plan and Drainage Strategy Plan all still mention infiltration or infiltration basin. This does not accurately reflect how the site is proposed to drain. There may be other instances where this is an issue. It is also important that this is

reflected in any other relevant document submitted under this application, to ensure documents are consistent.

Standard 2: management of everyday rainfall

While a swale is mentioned in para 1.3.20 to 1.3.21, it is not included in the Drainage Strategy Plan or calculations.

We would recommend using the below example when assessing interception:

Positively drained surface area	Interception method	Details of how Standard 2 met
Parking/private road	Permeable surfaces	No additional drained area XXX area - provides XXX area of interception
Access road	Swale	Longitudinal gradient of swale less than 1:100 500mm base material Xxx swale vegetated base area - provides XXX area of interception
Residential areas		
School / medical building	Green roof	XXX area - XXX area of interception

This shall correspond with the Contributing Area Plan.

Standard 3: management of extreme rainfall and flooding

In the Contributing Areas Plan, the footprint of the attenuation basin is not included, which conflicts with the National Standards for SuDS. We request this is updated, with the Drainage Strategy Plan and corresponding hydraulic calculations amended where necessary.

It is unclear whether the design of the attenuation basin has considered the high groundwater levels. We request a cross section of the basin and porous paving, to ensure groundwater is considered in the design of SuDS features.

We will review this objection when the issues highlighted above are adequately addressed and we are formally reconsulted. When preparing any further documents to address the above comments, we recommend clearly highlighting where amendments have been made.

While the report states FEH 2022 rainfall model has been used, the calculations state FEH 1999 rainfall model has been used.

It is unclear whether freeboard from the 1 in 100 year plus climate change event has been included in the basin design.

Standard 5: Amenity and Standard 6: Biodiversity

There appears to be some conflicts between the current Drainage Plan and the landscaping plans with regards to proposed tree planting locations and open SuDS features.

Standard 7: Design of drainage for construction, operation, maintenance, decommissioning and structural integrity

A minimum 3m easement for the attenuation basin is required, for maintenance access.

Yours sincerely,

Eleanor Read

Flood Risk Management Team

[Redacted signature]

[REDACTED]

From: Elaine Walby on behalf of Planning.Responses
Sent: 09 June 2026 14:56
To: Planning Scanning
Subject: FW: Response to application WA/18/26/PL
Attachments: WA 18 26 PL recon May 26.pdf

PL- Consultation- WSCC Drainage response

Elaine Walby
Technical Support Assistant
Planning Services

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E: elaine.walby@arun.gov.uk

Arun District Council, Civic Centre, Maltravers Rd
Littlehampton, West Sussex, BN17 5LF
www.arun.gov.uk

To register to receive notification of planning applications in your area please go to <https://www1.arun.gov.uk/planning-application-finder>

Our priorities...



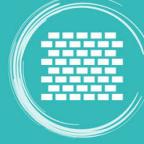
Improving the wellbeing of Arun



Delivering the right homes in the right places



Supporting our environment to support us



Fulfilling Arun's economic potential



Our core foundations



Connect with us: [Facebook](#) | [X](#) | [Instagram](#)

From: [REDACTED]
Sent: 05 June 2026 14:30
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Subject: Response to application WA/18/26/PL

CAUTION: This email originated from outside of the organisation. You should take extra care when clicking links or opening attachments - if you are unsure the content is safe contact the IT Helpdesk before clicking or opening.

Please could the attached response be distributed to the relevant case officer.

Regards

Flood Risk Management

Please do not reply directly to this email.

Any formal reconsultation on the application should be directed to [REDACTED] but the responding officer can be contacted directly via email if there are any questions relating to this response.

LEGAL DISCLAIMER
This email and any attachments are confidential and intended solely for the persons addressed. If it has come to you in error please reply to advise us but you should not read it, copy it, show it to anyone else nor make any other use of its content. West Sussex County Council takes steps to ensure emails and attachments are virus-free but you should carry out your own checks before opening any attachment.

APPENDIX B



Detailed masterplan



Residential Accommodation		
8no.	1-bed flats	Block
10no.	1-bed maisonettes	Semi / Detached
15no.	2-bed houses	Semi-Detached
9no.	3-bed houses	Semi-Detached
14no.	3-bed townhouses	Semi-Detached
2no.	4-bed houses	Detached
6no.	4-bed townhouses	Semi-Detached
64 Dwellings Total		
Car Parking:		
1.5 space per 1 bed flat		
2 spaces per 2 & 3 bed dwellings		
3 spaces per 4 bed dwellings		
22no. Visitors car spaces		

--- Application Site Boundary

J	23.06.26	Landscape Updated	MC	KE
I	18.06.26	Attenuation basin and colour amended	MC	KE
H	12.06.26	Site Layout amended	CV	KE
G	13.04.26	Car spaces renumbered	KE	AK
F	16.03.26	Key amended	KP	KE
E	16.03.26	Landscape updated	CV	KE
D	09.03.26	Site Layout amended	KP	KE
C	04.03.26	Site Layout amended	CV	KE
B	06.02.26	Site Layout amended	KP	AK
A	02.02.26	Roads amended	KP	KE
Rev	Date	Revision Details	Dr	Ch



E info@eceaarchitecture.com Creativity. Quality. Commerciality.
W eceaarchitecture.com Reimagining what's possible.

Client's Name
Harlequin Developments

Job Title
Land North of Arundel Road, Fontwell

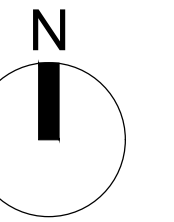
Drawing Title
Site Layout

Scale
1:500 @ A0 / 1:1000 @ A2

Drawn KE Checked AK Date 12.12.25

Job No 7428A Drawing No PL-02 Rev J

Status
APPROVAL



Key:	
	Timber Shed Cycle Storage Houses
	Cycle Storage maisonettes
	Recycling Storage
	Refuse Storage
	Refuse Collection Point
	Residents Dragging Distance
	Garden Gate
	Refuse Collection Point
	EV Charging Point
	Water Collection Butt
	Proposed 1.8m high closed boarded fence
	Proposed 1.8m high brick screen wall
	Proposed 0.9m high post in rail

C	23.06.26	Attenuation Basin and waterbutts amended	MC	KE
B	13.04.26	Car spaces renumbered	KE	AK
A	11.03.26	2.4m fence line added between gardens to plots 47-48	KP	KE
Rev	Date	Revision Details	Dr	Ch



Client's Name
Harlequin Developments

Job Title
Land North of Arundel Road, Fontwell

Drawing Title
Detailed Layout

Scale
1:250 @ A0 / 1:500 @ A2

Drawn
KE

Job No
7428A

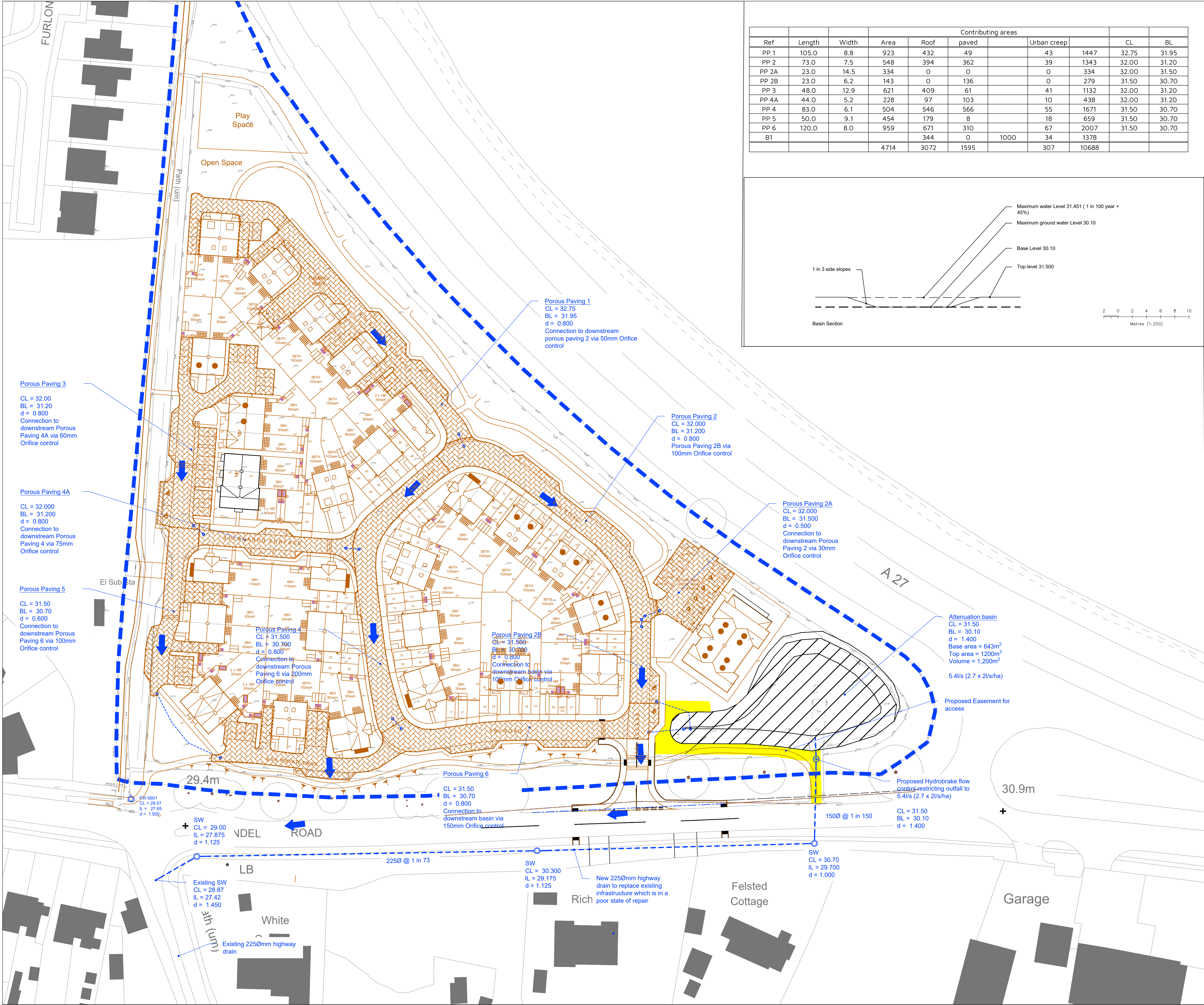
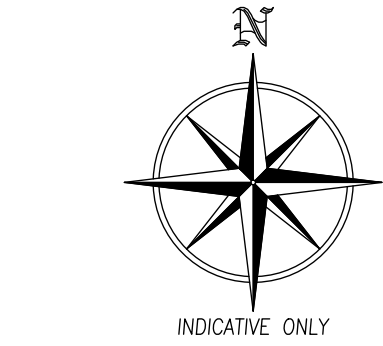
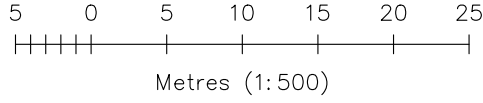
Status
APPROVAL



APPENDIX C



Updated Drainage Strategy and Calculations



Flood Exceedance route

Water Butts to be provided on all plots as shown on the architects layout plans.

P6	Layout attenuation basin amended	17.06.26	CS
P5	Amended to discharge to highway drain	19.05.26	CS
P4	Exceedance routes added	27.04.26	CS
P3	Amended layout	05.03.26	CS
P2	Amended to suit LLFA comments	27.09.24	CS
P1	First issue	28.05.24	CS

REV	AMENDMENTS	DATE	CHK
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Client
HARLEQUIN DEVELOPMENTS

Project
LAND NORTH OF ARUNDEL ROAD FONTWELL

Title
DRAINAGE STRATEGY PLAN

Dwg	Rev	Scale	Date
33186-D-02	P6	1:500	28.05.24



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: **A1**



INDICATIVE ONLY

5

0

5

10

15

20

25

Metres (1:500)

Proposed site area

-

2.74Ha

Proposed Porous pavement (Modelled)

-

4,714m²

Proposed porous paving (Draining to modelled)

-

1,595m²

Proposed roofs

-

3,072m²

Proposed pond

-

1,200m²

Proposed impermeable area

-

10,581m²

10% allowance for urban creep

-

307m²

Total contributing area

-

10,888m²

P3	Layout/areas amended	17.06.26	CS
P2	Layout amended	05.03.26	CS
P1	First issue	28.05.24	CS

REV	AMENDMENTS	DATE	CHK

Client

HARLEQUIN DEVELOPMENTS

Project

LAND NORTH OF ARUNDEL ROAD
FONTWELL

Title

CONTRIBUTING AREAS PLAN

Drwg	Rev	Scale	Date
33186-D-01	P3	1:500	28.05.24

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:

A1

DHA Transport Ltd							Page 1																																																																																																																																																																																																																																										
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous pavement 1																																																																																																																																																																																																																																															
Date 22/06/2026 16:52 File cas.CASX		Designed by Chris Checked by																																																																																																																																																																																																																																															
Causeway		Source Control 2019.1																																																																																																																																																																																																																																															
<p style="text-align: center;"><u>Cascade Summary of Results for pp1.SRCX</u></p> <p style="text-align: center;">Upstream Outflow To Overflow To Structures</p> <p style="text-align: center;">(None) pp2.SRCX (None)</p> <p style="text-align: center;">Half Drain Time : 205 minutes.</p> <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Control (l/s)</th><th>Max E Outflow (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>32.487</td><td>0.537</td><td>0.0</td><td>3.7</td><td>3.7</td><td>53.3</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>32.542</td><td>0.592</td><td>0.0</td><td>3.9</td><td>3.9</td><td>64.8</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>32.594</td><td>0.644</td><td>0.0</td><td>4.1</td><td>4.1</td><td>76.7</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>32.635</td><td>0.685</td><td>0.0</td><td>4.2</td><td>4.2</td><td>86.8</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>32.649</td><td>0.699</td><td>0.0</td><td>4.3</td><td>4.3</td><td>90.3</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>32.656</td><td>0.706</td><td>0.0</td><td>4.3</td><td>4.3</td><td>92.1</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>32.661</td><td>0.711</td><td>0.0</td><td>4.3</td><td>4.3</td><td>93.3</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>32.659</td><td>0.709</td><td>0.0</td><td>4.3</td><td>4.3</td><td>92.9</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>32.654</td><td>0.704</td><td>0.0</td><td>4.3</td><td>4.3</td><td>91.6</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>32.647</td><td>0.697</td><td>0.0</td><td>4.3</td><td>4.3</td><td>89.8</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>32.609</td><td>0.659</td><td>0.0</td><td>4.2</td><td>4.2</td><td>80.2</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>32.542</td><td>0.592</td><td>0.0</td><td>3.9</td><td>3.9</td><td>64.7</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>32.457</td><td>0.507</td><td>0.0</td><td>3.6</td><td>3.6</td><td>47.5</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>32.388</td><td>0.438</td><td>0.0</td><td>3.4</td><td>3.4</td><td>35.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>32.302</td><td>0.352</td><td>0.0</td><td>3.0</td><td>3.0</td><td>22.9</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>32.238</td><td>0.288</td><td>0.0</td><td>2.7</td><td>2.7</td><td>15.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>32.189</td><td>0.239</td><td>0.0</td><td>2.4</td><td>2.4</td><td>10.6</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>167.069</td><td>0.0</td><td>55.9</td><td>18</td></tr><tr><td>30 min Summer</td><td>102.772</td><td>0.0</td><td>69.8</td><td>33</td></tr><tr><td>60 min Summer</td><td>63.219</td><td>0.0</td><td>86.9</td><td>62</td></tr><tr><td>120 min Summer</td><td>38.889</td><td>0.0</td><td>107.9</td><td>120</td></tr><tr><td>180 min Summer</td><td>29.268</td><td>0.0</td><td>122.3</td><td>166</td></tr><tr><td>240 min Summer</td><td>23.922</td><td>0.0</td><td>133.7</td><td>196</td></tr><tr><td>360 min Summer</td><td>18.004</td><td>0.0</td><td>151.3</td><td>260</td></tr><tr><td>480 min Summer</td><td>14.716</td><td>0.0</td><td>165.2</td><td>330</td></tr><tr><td>600 min Summer</td><td>12.585</td><td>0.0</td><td>176.7</td><td>400</td></tr><tr><td>720 min Summer</td><td>11.075</td><td>0.0</td><td>186.7</td><td>470</td></tr><tr><td>960 min Summer</td><td>8.655</td><td>0.0</td><td>194.3</td><td>606</td></tr><tr><td>1440 min Summer</td><td>6.114</td><td>0.0</td><td>205.4</td><td>866</td></tr><tr><td>2160 min Summer</td><td>4.320</td><td>0.0</td><td>216.7</td><td>1236</td></tr><tr><td>2880 min Summer</td><td>3.376</td><td>0.0</td><td>224.8</td><td>1612</td></tr><tr><td>4320 min Summer</td><td>2.505</td><td>0.0</td><td>248.6</td><td>2332</td></tr><tr><td>5760 min Summer</td><td>2.027</td><td>0.0</td><td>266.4</td><td>3008</td></tr><tr><td>7200 min Summer</td><td>1.720</td><td>0.0</td><td>280.8</td><td>3744</td></tr></table>								Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status	15 min Summer	32.487	0.537	0.0	3.7	3.7	53.3	Flood Risk	30 min Summer	32.542	0.592	0.0	3.9	3.9	64.8	Flood Risk	60 min Summer	32.594	0.644	0.0	4.1	4.1	76.7	Flood Risk	120 min Summer	32.635	0.685	0.0	4.2	4.2	86.8	Flood Risk	180 min Summer	32.649	0.699	0.0	4.3	4.3	90.3	Flood Risk	240 min Summer	32.656	0.706	0.0	4.3	4.3	92.1	Flood Risk	360 min Summer	32.661	0.711	0.0	4.3	4.3	93.3	Flood Risk	480 min Summer	32.659	0.709	0.0	4.3	4.3	92.9	Flood Risk	600 min Summer	32.654	0.704	0.0	4.3	4.3	91.6	Flood Risk	720 min Summer	32.647	0.697	0.0	4.3	4.3	89.8	Flood Risk	960 min Summer	32.609	0.659	0.0	4.2	4.2	80.2	Flood Risk	1440 min Summer	32.542	0.592	0.0	3.9	3.9	64.7	Flood Risk	2160 min Summer	32.457	0.507	0.0	3.6	3.6	47.5	Flood Risk	2880 min Summer	32.388	0.438	0.0	3.4	3.4	35.4	O K	4320 min Summer	32.302	0.352	0.0	3.0	3.0	22.9	O K	5760 min Summer	32.238	0.288	0.0	2.7	2.7	15.3	O K	7200 min Summer	32.189	0.239	0.0	2.4	2.4	10.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	15 min Summer	167.069	0.0	55.9	18	30 min Summer	102.772	0.0	69.8	33	60 min Summer	63.219	0.0	86.9	62	120 min Summer	38.889	0.0	107.9	120	180 min Summer	29.268	0.0	122.3	166	240 min Summer	23.922	0.0	133.7	196	360 min Summer	18.004	0.0	151.3	260	480 min Summer	14.716	0.0	165.2	330	600 min Summer	12.585	0.0	176.7	400	720 min Summer	11.075	0.0	186.7	470	960 min Summer	8.655	0.0	194.3	606	1440 min Summer	6.114	0.0	205.4	866	2160 min Summer	4.320	0.0	216.7	1236	2880 min Summer	3.376	0.0	224.8	1612	4320 min Summer	2.505	0.0	248.6	2332	5760 min Summer	2.027	0.0	266.4	3008	7200 min Summer	1.720	0.0	280.8	3744
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																																										
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DHA Transport Ltd							Page 2
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN			Porous pavement 1				
Date 22/06/2026 16:52			Designed by Chris				
File cas.CASX			Checked by				
Causeway			Source Control 2019.1				
Cascade Summary of Results for ppl.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	32.153	0.203	0.0	2.2	2.2	7.6	O K
10080 min Summer	32.125	0.175	0.0	2.0	2.0	5.6	O K
15 min Winter	32.487	0.537	0.0	3.7	3.7	53.3	Flood Risk
30 min Winter	32.543	0.593	0.0	3.9	3.9	64.9	Flood Risk
60 min Winter	32.595	0.645	0.0	4.1	4.1	76.8	Flood Risk
120 min Winter	32.637	0.687	0.0	4.2	4.2	87.2	Flood Risk
180 min Winter	32.652	0.702	0.0	4.3	4.3	90.9	Flood Risk
240 min Winter	32.655	0.705	0.0	4.3	4.3	92.0	Flood Risk
360 min Winter	32.657	0.707	0.0	4.3	4.3	92.5	Flood Risk
480 min Winter	32.651	0.701	0.0	4.3	4.3	90.9	Flood Risk
600 min Winter	32.641	0.691	0.0	4.3	4.3	88.1	Flood Risk
720 min Winter	32.628	0.678	0.0	4.2	4.2	84.9	Flood Risk
960 min Winter	32.576	0.626	0.0	4.0	4.0	72.5	Flood Risk
1440 min Winter	32.485	0.535	0.0	3.7	3.7	52.8	Flood Risk
2160 min Winter	32.372	0.422	0.0	3.3	3.3	32.9	O K
2880 min Winter	32.284	0.334	0.0	2.9	2.9	20.6	O K
4320 min Winter	32.182	0.232	0.0	2.4	2.4	10.0	O K
5760 min Winter	32.120	0.170	0.0	2.0	2.0	5.4	O K
7200 min Winter	32.082	0.132	0.0	1.7	1.7	3.2	O K
8640 min Winter	32.057	0.107	0.0	1.5	1.5	2.1	O K
10080 min Winter	32.041	0.091	0.0	1.3	1.3	1.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
8640 min Summer	1.504	0.0	292.8	4416			
10080 min Summer	1.343	0.0	303.0	5144			
15 min Winter	167.069	0.0	55.9	18			
30 min Winter	102.772	0.0	69.8	32			
60 min Winter	63.219	0.0	86.9	60			
120 min Winter	38.889	0.0	107.9	118			
180 min Winter	29.268	0.0	122.3	172			
240 min Winter	23.922	0.0	133.7	202			
360 min Winter	18.004	0.0	151.3	274			
480 min Winter	14.716	0.0	165.2	352			
600 min Winter	12.585	0.0	176.7	428			
720 min Winter	11.075	0.0	186.7	504			
960 min Winter	8.655	0.0	194.3	644			
1440 min Winter	6.114	0.0	205.4	910			
2160 min Winter	4.320	0.0	216.7	1276			
2880 min Winter	3.376	0.0	224.8	1640			
4320 min Winter	2.505	0.0	248.6	2332			
5760 min Winter	2.027	0.0	266.5	3000			
7200 min Winter	1.720	0.0	280.9	3680			
8640 min Winter	1.504	0.0	292.9	4408			
10080 min Winter	1.343	0.0	303.2	5136			
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Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 1																																											
Date 22/06/2026 16:52	Designed by Chris																																											
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Causeway		Source Control 2019.1																																										
<p style="text-align: center;"><u>Cascade Rainfall Details for ppl.SRCX</u></p> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> <td>D2 (1km)</td> <td>0.258</td> <td>Cv (Summer)</td> <td>1.000</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>D3 (1km)</td> <td>0.379</td> <td>Cv (Winter)</td> <td>1.000</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>1999</td> <td>E (1km)</td> <td>0.310</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Site Location</td> <td></td> <td>F (1km)</td> <td>2.349</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>C (1km)</td> <td>-0.025</td> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+45</td> </tr> <tr> <td>D1 (1km)</td> <td>0.414</td> <td>Winter Storms</td> <td>Yes</td> <td></td> <td></td> </tr> </table> <p style="text-align: center;"><u>Time Area Diagram</u></p> <p style="text-align: center;">Total Area (ha) 0.145</p> <table> <tr> <td>Time (mins)</td> <td>Area</td> </tr> <tr> <td>From:</td> <td>To: (ha)</td> </tr> <tr> <td>0</td> <td>4 0.145</td> </tr> </table>			Rainfall Model	FEH	D2 (1km)	0.258	Cv (Summer)	1.000	Return Period (years)	100	D3 (1km)	0.379	Cv (Winter)	1.000	FEH Rainfall Version	1999	E (1km)	0.310	Shortest Storm (mins)	15	Site Location		F (1km)	2.349	Longest Storm (mins)	10080	C (1km)	-0.025	Summer Storms	Yes	Climate Change %	+45	D1 (1km)	0.414	Winter Storms	Yes			Time (mins)	Area	From:	To: (ha)	0	4 0.145
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Causeway		Source Control 2019.1																								
<p align="center"><u>Cascade Model Details for ppl.SRCX</u></p> <p align="center">Storage is Online Cover Level (m) 32.750</p> <p align="center"><u>Porous Car Park Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>8.8</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>105.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>256.7</td> <td>Slope (1:X)</td> <td>140.0</td> </tr> <tr> <td>Safety Factor</td> <td>1.0</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>31.950</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table> <p align="center"><u>Orifice Outflow Control</u></p> <p align="center">Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 31.950</p>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.8	Membrane Percolation (mm/hr)	1000	Length (m)	105.0	Max Percolation (l/s)	256.7	Slope (1:X)	140.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	31.950	Membrane Depth (m)	0
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.8																							
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<div>Cascade Summary of Results for pp2.SRCX</div> <div><div>Upstream Outflow To Overflow To Structures</div><div>pp2a.SRCX pp2b.SRCX (None) pp1.SRCX</div><div>Half Drain Time : 32 minutes.</div></div> <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 Control (l/s)</th><th>Max Σ Outflow (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>31.927</td><td>0.727</td><td></td><td>0.0</td><td>17.2</td><td>17.2</td><td>44.5 Flood Risk</td></tr><tr><td>30 min Summer</td><td>31.967</td><td>0.767</td><td></td><td>0.0</td><td>17.7</td><td>17.7</td><td>49.6 Flood Risk</td></tr><tr><td>60 min Summer</td><td>31.984</td><td>0.784</td><td></td><td>0.0</td><td>17.9</td><td>17.9</td><td>51.9 Flood Risk</td></tr><tr><td>120 min Summer</td><td>31.980</td><td>0.780</td><td></td><td>0.0</td><td>17.8</td><td>17.8</td><td>51.3 Flood Risk</td></tr><tr><td>180 min Summer</td><td>31.962</td><td>0.762</td><td></td><td>0.0</td><td>17.6</td><td>17.6</td><td>49.0 Flood Risk</td></tr><tr><td>240 min Summer</td><td>31.940</td><td>0.740</td><td></td><td>0.0</td><td>17.3</td><td>17.3</td><td>46.3 Flood Risk</td></tr><tr><td>360 min Summer</td><td>31.896</td><td>0.696</td><td></td><td>0.0</td><td>16.8</td><td>16.8</td><td>40.8 Flood Risk</td></tr><tr><td>480 min Summer</td><td>31.852</td><td>0.652</td><td></td><td>0.0</td><td>16.2</td><td>16.2</td><td>35.9 Flood Risk</td></tr><tr><td>600 min Summer</td><td>31.813</td><td>0.613</td><td></td><td>0.0</td><td>15.7</td><td>15.7</td><td>31.7 Flood Risk</td></tr><tr><td>720 min Summer</td><td>31.777</td><td>0.577</td><td></td><td>0.0</td><td>15.1</td><td>15.1</td><td>28.1 Flood Risk</td></tr><tr><td>960 min Summer</td><td>31.692</td><td>0.492</td><td></td><td>0.0</td><td>13.9</td><td>13.9</td><td>20.4 O K</td></tr><tr><td>1440 min Summer</td><td>31.575</td><td>0.375</td><td></td><td>0.0</td><td>11.9</td><td>11.9</td><td>11.9 O K</td></tr><tr><td>2160 min Summer</td><td>31.474</td><td>0.274</td><td></td><td>0.0</td><td>9.9</td><td>9.9</td><td>6.3 O K</td></tr><tr><td>2880 min Summer</td><td>31.417</td><td>0.217</td><td></td><td>0.0</td><td>8.5</td><td>8.5</td><td>4.0 O K</td></tr><tr><td>4320 min Summer</td><td>31.364</td><td>0.164</td><td></td><td>0.0</td><td>7.0</td><td>7.0</td><td>2.3 O K</td></tr><tr><td>5760 min Summer</td><td>31.338</td><td>0.138</td><td></td><td>0.0</td><td>6.1</td><td>6.1</td><td>1.6 O K</td></tr><tr><td>7200 min Summer</td><td>31.327</td><td>0.127</td><td></td><td>0.0</td><td>5.4</td><td>5.4</td><td>1.4 O K</td></tr></tbody></table> <div><table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min 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Summer	12.585	0.0	382.3	342	720 min Summer	11.075	0.0	403.9	404	960 min Summer	8.655	0.0	420.4	522	1440 min Summer	6.114	0.0	444.4	762	2160 min Summer	4.320	0.0	469.4	1108	2880 min Summer	3.376	0.0	487.1	1472	4320 min Summer	2.505	0.0	538.9	2204	5760 min Summer	2.027	0.0	578.3	2936	7200 min Summer	1.720	0.0	609.8	3672
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DHA Transport Ltd							Page 2
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN			Porous pavement 2				
Date 22/06/2026 16:52			Designed by Chris				
File cas.CASX			Checked by				
Causeway			Source Control 2019.1				
Cascade Summary of Results for pp2.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	31.318	0.118	0.0	4.8	4.8	1.2	O K
10080 min Summer	31.310	0.110	0.0	4.4	4.4	1.0	O K
15 min Winter	31.927	0.727	0.0	17.2	17.2	44.6	Flood Risk
30 min Winter	31.968	0.768	0.0	17.7	17.7	49.8	Flood Risk
60 min Winter	31.981	0.781	0.0	17.8	17.8	51.5	Flood Risk
120 min Winter	31.963	0.763	0.0	17.6	17.6	49.1	Flood Risk
180 min Winter	31.929	0.729	0.0	17.2	17.2	44.8	Flood Risk
240 min Winter	31.893	0.693	0.0	16.7	16.7	40.5	Flood Risk
360 min Winter	31.823	0.623	0.0	15.8	15.8	32.8	Flood Risk
480 min Winter	31.762	0.562	0.0	14.9	14.9	26.7	Flood Risk
600 min Winter	31.709	0.509	0.0	14.1	14.1	21.9	Flood Risk
720 min Winter	31.664	0.464	0.0	13.4	13.4	18.2	O K
960 min Winter	31.573	0.373	0.0	11.9	11.9	11.7	O K
1440 min Winter	31.464	0.264	0.0	9.7	9.7	5.9	O K
2160 min Winter	31.386	0.186	0.0	7.7	7.7	2.9	O K
2880 min Winter	31.346	0.146	0.0	6.5	6.5	1.8	O K
4320 min Winter	31.323	0.123	0.0	5.2	5.2	1.3	O K
5760 min Winter	31.309	0.109	0.0	4.3	4.3	1.0	O K
7200 min Winter	31.299	0.099	0.0	3.7	3.7	0.8	O K
8640 min Winter	31.291	0.091	0.0	3.2	3.2	0.7	O K
10080 min Winter	31.286	0.086	0.0	2.9	2.9	0.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
8640 min Summer	1.504	0.0	636.2	4400			
10080 min Summer	1.343	0.0	658.8	5112			
15 min Winter	167.069	0.0	121.1	17			
30 min Winter	102.772	0.0	151.1	30			
60 min Winter	63.219	0.0	188.4	48			
120 min Winter	38.889	0.0	233.7	86			
180 min Winter	29.268	0.0	264.9	124			
240 min Winter	23.922	0.0	289.3	158			
360 min Winter	18.004	0.0	327.4	226			
480 min Winter	14.716	0.0	357.3	290			
600 min Winter	12.585	0.0	382.3	354			
720 min Winter	11.075	0.0	403.9	414			
960 min Winter	8.655	0.0	420.4	532			
1440 min Winter	6.114	0.0	444.4	766			
2160 min Winter	4.320	0.0	469.4	1128			
2880 min Winter	3.376	0.0	487.2	1500			
4320 min Winter	2.505	0.0	538.9	2240			
5760 min Winter	2.027	0.0	578.3	2928			
7200 min Winter	1.720	0.0	609.9	3664			
8640 min Winter	1.504	0.0	636.4	4376			
10080 min Winter	1.343	0.0	659.1	5128			
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Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	7.5																							
Membrane Percolation (mm/hr)	1000	Length (m)	73.0																							
Max Percolation (l/s)	152.1	Slope (1:X)	75.0																							
Safety Factor	1.0	Depression Storage (mm)	5																							
Porosity	0.30	Evaporation (mm/day)	3																							
Invert Level (m)	31.200	Membrane Depth (m)	0																							
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<p style="text-align: center;"><u>Cascade Summary of Results for pp2a.SRCX</u></p> <p style="text-align: center;">Upstream Outflow To Overflow To Structures</p> <p style="text-align: center;">(None) pp2.SRCX (None)</p> <p style="text-align: center;">Half Drain Time : 282 minutes.</p> <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Control (l/s)</th><th>Max Σ Outflow (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>31.622</td><td>0.122</td><td>0.0</td><td>0.6</td><td>0.6</td><td>12.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>31.651</td><td>0.151</td><td>0.0</td><td>0.7</td><td>0.7</td><td>15.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>31.683</td><td>0.183</td><td>0.0</td><td>0.8</td><td>0.8</td><td>18.3</td><td>O K</td></tr><tr><td>120 min Summer</td><td>31.713</td><td>0.213</td><td>0.0</td><td>0.8</td><td>0.8</td><td>21.4</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>31.728</td><td>0.228</td><td>0.0</td><td>0.9</td><td>0.9</td><td>22.8</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>31.736</td><td>0.236</td><td>0.0</td><td>0.9</td><td>0.9</td><td>23.6</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>31.746</td><td>0.246</td><td>0.0</td><td>0.9</td><td>0.9</td><td>24.6</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>31.752</td><td>0.252</td><td>0.0</td><td>0.9</td><td>0.9</td><td>25.2</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>31.755</td><td>0.255</td><td>0.0</td><td>0.9</td><td>0.9</td><td>25.5</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>31.755</td><td>0.255</td><td>0.0</td><td>0.9</td><td>0.9</td><td>25.5</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>31.740</td><td>0.240</td><td>0.0</td><td>0.9</td><td>0.9</td><td>24.0</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>31.711</td><td>0.211</td><td>0.0</td><td>0.8</td><td>0.8</td><td>21.1</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>31.676</td><td>0.176</td><td>0.0</td><td>0.8</td><td>0.8</td><td>17.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>31.650</td><td>0.150</td><td>0.0</td><td>0.7</td><td>0.7</td><td>15.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>31.621</td><td>0.121</td><td>0.0</td><td>0.6</td><td>0.6</td><td>12.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>31.601</td><td>0.101</td><td>0.0</td><td>0.6</td><td>0.6</td><td>10.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>31.586</td><td>0.086</td><td>0.0</td><td>0.5</td><td>0.5</td><td>8.6</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>167.069</td><td>0.0</td><td>12.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>102.772</td><td>0.0</td><td>15.2</td><td>33</td></tr><tr><td>60 min Summer</td><td>63.219</td><td>0.0</td><td>19.5</td><td>62</td></tr><tr><td>120 min Summer</td><td>38.889</td><td>0.0</td><td>24.4</td><td>122</td></tr><tr><td>180 min Summer</td><td>29.268</td><td>0.0</td><td>27.8</td><td>180</td></tr><tr><td>240 min Summer</td><td>23.922</td><td>0.0</td><td>30.4</td><td>208</td></tr><tr><td>360 min Summer</td><td>18.004</td><td>0.0</td><td>34.5</td><td>270</td></tr><tr><td>480 min Summer</td><td>14.716</td><td>0.0</td><td>37.7</td><td>338</td></tr><tr><td>600 min Summer</td><td>12.585</td><td>0.0</td><td>40.4</td><td>406</td></tr><tr><td>720 min Summer</td><td>11.075</td><td>0.0</td><td>42.7</td><td>476</td></tr><tr><td>960 min Summer</td><td>8.655</td><td>0.0</td><td>44.4</td><td>610</td></tr><tr><td>1440 min Summer</td><td>6.114</td><td>0.0</td><td>46.8</td><td>880</td></tr><tr><td>2160 min Summer</td><td>4.320</td><td>0.0</td><td>49.5</td><td>1272</td></tr><tr><td>2880 min Summer</td><td>3.376</td><td>0.0</td><td>51.2</td><td>1644</td></tr><tr><td>4320 min Summer</td><td>2.505</td><td>0.0</td><td>56.3</td><td>2376</td></tr><tr><td>5760 min Summer</td><td>2.027</td><td>0.0</td><td>60.4</td><td>3112</td></tr><tr><td>7200 min Summer</td><td>1.720</td><td>0.0</td><td>63.4</td><td>3816</td></tr></table>								Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status	15 min Summer	31.622	0.122	0.0	0.6	0.6	12.2	O K	30 min Summer	31.651	0.151	0.0	0.7	0.7	15.1	O K	60 min Summer	31.683	0.183	0.0	0.8	0.8	18.3	O K	120 min Summer	31.713	0.213	0.0	0.8	0.8	21.4	Flood Risk	180 min Summer	31.728	0.228	0.0	0.9	0.9	22.8	Flood Risk	240 min Summer	31.736	0.236	0.0	0.9	0.9	23.6	Flood Risk	360 min Summer	31.746	0.246	0.0	0.9	0.9	24.6	Flood Risk	480 min Summer	31.752	0.252	0.0	0.9	0.9	25.2	Flood Risk	600 min Summer	31.755	0.255	0.0	0.9	0.9	25.5	Flood Risk	720 min Summer	31.755	0.255	0.0	0.9	0.9	25.5	Flood Risk	960 min Summer	31.740	0.240	0.0	0.9	0.9	24.0	Flood Risk	1440 min Summer	31.711	0.211	0.0	0.8	0.8	21.1	Flood Risk	2160 min Summer	31.676	0.176	0.0	0.8	0.8	17.6	O K	2880 min Summer	31.650	0.150	0.0	0.7	0.7	15.0	O K	4320 min Summer	31.621	0.121	0.0	0.6	0.6	12.1	O K	5760 min Summer	31.601	0.101	0.0	0.6	0.6	10.1	O K	7200 min Summer	31.586	0.086	0.0	0.5	0.5	8.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	15 min Summer	167.069	0.0	12.0	19	30 min Summer	102.772	0.0	15.2	33	60 min Summer	63.219	0.0	19.5	62	120 min Summer	38.889	0.0	24.4	122	180 min Summer	29.268	0.0	27.8	180	240 min Summer	23.922	0.0	30.4	208	360 min Summer	18.004	0.0	34.5	270	480 min Summer	14.716	0.0	37.7	338	600 min Summer	12.585	0.0	40.4	406	720 min Summer	11.075	0.0	42.7	476	960 min Summer	8.655	0.0	44.4	610	1440 min Summer	6.114	0.0	46.8	880	2160 min Summer	4.320	0.0	49.5	1272	2880 min Summer	3.376	0.0	51.2	1644	4320 min Summer	2.505	0.0	56.3	2376	5760 min Summer	2.027	0.0	60.4	3112	7200 min Summer	1.720	0.0	63.4	3816
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Winter</td><td>31.726</td><td>0.226</td><td>0.0</td><td>0.9</td><td>0.9</td><td>22.6</td><td>Flood Risk</td></tr><tr><td>1440 min Winter</td><td>31.689</td><td>0.189</td><td>0.0</td><td>0.8</td><td>0.8</td><td>18.9</td><td>O K</td></tr><tr><td>2160 min Winter</td><td>31.648</td><td>0.148</td><td>0.0</td><td>0.7</td><td>0.7</td><td>14.8</td><td>O K</td></tr><tr><td>2880 min Winter</td><td>31.618</td><td>0.118</td><td>0.0</td><td>0.6</td><td>0.6</td><td>11.8</td><td>O K</td></tr><tr><td>4320 min Winter</td><td>31.587</td><td>0.087</td><td>0.0</td><td>0.5</td><td>0.5</td><td>8.7</td><td>O K</td></tr><tr><td>5760 min Winter</td><td>31.568</td><td>0.068</td><td>0.0</td><td>0.4</td><td>0.4</td><td>6.8</td><td>O K</td></tr><tr><td>7200 min Winter</td><td>31.555</td><td>0.055</td><td>0.0</td><td>0.4</td><td>0.4</td><td>5.5</td><td>O K</td></tr><tr><td>8640 min Winter</td><td>31.547</td><td>0.047</td><td>0.0</td><td>0.3</td><td>0.3</td><td>4.7</td><td>O K</td></tr><tr><td>10080 min Winter</td><td>31.542</td><td>0.042</td><td>0.0</td><td>0.3</td><td>0.3</td><td>4.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>8640 min Summer</td><td>1.504</td><td>0.0</td><td>65.8</td><td>4504</td></tr><tr><td>10080 min Summer</td><td>1.343</td><td>0.0</td><td>67.7</td><td>5248</td></tr><tr><td>15 min Winter</td><td>167.069</td><td>0.0</td><td>12.0</td><td>18</td></tr><tr><td>30 min Winter</td><td>102.772</td><td>0.0</td><td>15.2</td><td>33</td></tr><tr><td>60 min Winter</td><td>63.219</td><td>0.0</td><td>19.5</td><td>62</td></tr><tr><td>120 min Winter</td><td>38.889</td><td>0.0</td><td>24.4</td><td>118</td></tr><tr><td>180 min Winter</td><td>29.268</td><td>0.0</td><td>27.8</td><td>174</td></tr><tr><td>240 min Winter</td><td>23.922</td><td>0.0</td><td>30.4</td><td>226</td></tr><tr><td>360 min Winter</td><td>18.004</td><td>0.0</td><td>34.5</td><td>280</td></tr><tr><td>480 min Winter</td><td>14.716</td><td>0.0</td><td>37.7</td><td>358</td></tr><tr><td>600 min Winter</td><td>12.585</td><td>0.0</td><td>40.4</td><td>434</td></tr><tr><td>720 min Winter</td><td>11.075</td><td>0.0</td><td>42.7</td><td>510</td></tr><tr><td>960 min Winter</td><td>8.655</td><td>0.0</td><td>44.4</td><td>654</td></tr><tr><td>1440 min Winter</td><td>6.114</td><td>0.0</td><td>46.8</td><td>936</td></tr><tr><td>2160 min Winter</td><td>4.320</td><td>0.0</td><td>49.6</td><td>1320</td></tr><tr><td>2880 min Winter</td><td>3.376</td><td>0.0</td><td>51.2</td><td>1700</td></tr><tr><td>4320 min Winter</td><td>2.505</td><td>0.0</td><td>56.3</td><td>2424</td></tr><tr><td>5760 min Winter</td><td>2.027</td><td>0.0</td><td>60.4</td><td>3168</td></tr><tr><td>7200 min Winter</td><td>1.720</td><td>0.0</td><td>63.4</td><td>3824</td></tr><tr><td>8640 min 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Winter	31.689	0.189	0.0	0.8	0.8	18.9	O K	2160 min Winter	31.648	0.148	0.0	0.7	0.7	14.8	O K	2880 min Winter	31.618	0.118	0.0	0.6	0.6	11.8	O K	4320 min Winter	31.587	0.087	0.0	0.5	0.5	8.7	O K	5760 min Winter	31.568	0.068	0.0	0.4	0.4	6.8	O K	7200 min Winter	31.555	0.055	0.0	0.4	0.4	5.5	O K	8640 min Winter	31.547	0.047	0.0	0.3	0.3	4.7	O K	10080 min Winter	31.542	0.042	0.0	0.3	0.3	4.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	8640 min Summer	1.504	0.0	65.8	4504	10080 min Summer	1.343	0.0	67.7	5248	15 min Winter	167.069	0.0	12.0	18	30 min Winter	102.772	0.0	15.2	33	60 min Winter	63.219	0.0	19.5	62	120 min Winter	38.889	0.0	24.4	118	180 min Winter	29.268	0.0	27.8	174	240 min Winter	23.922	0.0	30.4	226	360 min Winter	18.004	0.0	34.5	280	480 min Winter	14.716	0.0	37.7	358	600 min Winter	12.585	0.0	40.4	434	720 min Winter	11.075	0.0	42.7	510	960 min Winter	8.655	0.0	44.4	654	1440 min Winter	6.114	0.0	46.8	936	2160 min Winter	4.320	0.0	49.6	1320	2880 min Winter	3.376	0.0	51.2	1700	4320 min Winter	2.505	0.0	56.3	2424	5760 min Winter	2.027	0.0	60.4	3168	7200 min Winter	1.720	0.0	63.4	3824	8640 min Winter	1.504	0.0	65.9	4504	10080 min Winter	1.343	0.0	67.8	5224
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<p style="text-align: center;"><u>Cascade Summary of Results for pp2b.SRCX</u></p> <p style="text-align: center;">Upstream Outflow To Overflow To Structures</p> <p style="text-align: center;">pp2.SRCX basin.SRCX (None) pp2a.SRCX pp1.SRCX</p> <p style="text-align: center;">Half Drain Time : 15 minutes.</p> <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Control (l/s)</th><th>Max Σ Outflow (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>31.244</td><td>0.544</td><td></td><td>0.0</td><td>14.7</td><td>14.7</td><td>16.7 Flood Risk</td></tr><tr><td>30 min Summer</td><td>31.319</td><td>0.619</td><td></td><td>0.0</td><td>15.7</td><td>15.7</td><td>19.9 Flood Risk</td></tr><tr><td>60 min Summer</td><td>31.399</td><td>0.699</td><td></td><td>0.0</td><td>16.8</td><td>16.8</td><td>23.4 Flood Risk</td></tr><tr><td>120 min Summer</td><td>31.456</td><td>0.756</td><td></td><td>0.0</td><td>17.5</td><td>17.5</td><td>25.8 Flood Risk</td></tr><tr><td>180 min Summer</td><td>31.458</td><td>0.758</td><td></td><td>0.0</td><td>17.6</td><td>17.6</td><td>25.9 Flood Risk</td></tr><tr><td>240 min Summer</td><td>31.455</td><td>0.755</td><td></td><td>0.0</td><td>17.5</td><td>17.5</td><td>25.7 Flood Risk</td></tr><tr><td>360 min Summer</td><td>31.438</td><td>0.738</td><td></td><td>0.0</td><td>17.3</td><td>17.3</td><td>25.0 Flood Risk</td></tr><tr><td>480 min Summer</td><td>31.413</td><td>0.713</td><td></td><td>0.0</td><td>17.0</td><td>17.0</td><td>23.9 Flood Risk</td></tr><tr><td>600 min Summer</td><td>31.383</td><td>0.683</td><td></td><td>0.0</td><td>16.6</td><td>16.6</td><td>22.7 Flood Risk</td></tr><tr><td>720 min Summer</td><td>31.352</td><td>0.652</td><td></td><td>0.0</td><td>16.2</td><td>16.2</td><td>21.3 Flood Risk</td></tr><tr><td>960 min Summer</td><td>31.264</td><td>0.564</td><td></td><td>0.0</td><td>15.0</td><td>15.0</td><td>17.6 Flood Risk</td></tr><tr><td>1440 min Summer</td><td>31.136</td><td>0.436</td><td></td><td>0.0</td><td>13.0</td><td>13.0</td><td>12.1 O K</td></tr><tr><td>2160 min Summer</td><td>31.019</td><td>0.319</td><td></td><td>0.0</td><td>10.8</td><td>10.8</td><td>7.1 O K</td></tr><tr><td>2880 min Summer</td><td>30.951</td><td>0.251</td><td></td><td>0.0</td><td>9.4</td><td>9.4</td><td>4.4 O K</td></tr><tr><td>4320 min Summer</td><td>30.888</td><td>0.188</td><td></td><td>0.0</td><td>7.7</td><td>7.7</td><td>2.5 O K</td></tr><tr><td>5760 min Summer</td><td>30.852</td><td>0.152</td><td></td><td>0.0</td><td>6.7</td><td>6.7</td><td>1.6 O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>167.069</td><td>0.0</td><td>132.1</td><td>46</td></tr><tr><td>30 min Summer</td><td>102.772</td><td>0.0</td><td>164.8</td><td>56</td></tr><tr><td>60 min Summer</td><td>63.219</td><td>0.0</td><td>205.4</td><td>72</td></tr><tr><td>120 min Summer</td><td>38.889</td><td>0.0</td><td>254.7</td><td>120</td></tr><tr><td>180 min Summer</td><td>29.268</td><td>0.0</td><td>288.7</td><td>148</td></tr><tr><td>240 min Summer</td><td>23.922</td><td>0.0</td><td>315.3</td><td>178</td></tr><tr><td>360 min Summer</td><td>18.004</td><td>0.0</td><td>356.9</td><td>242</td></tr><tr><td>480 min Summer</td><td>14.716</td><td>0.0</td><td>389.4</td><td>306</td></tr><tr><td>600 min Summer</td><td>12.585</td><td>0.0</td><td>416.6</td><td>368</td></tr><tr><td>720 min Summer</td><td>11.075</td><td>0.0</td><td>440.2</td><td>432</td></tr><tr><td>960 min Summer</td><td>8.655</td><td>0.0</td><td>458.2</td><td>550</td></tr><tr><td>1440 min Summer</td><td>6.114</td><td>0.0</td><td>484.4</td><td>786</td></tr><tr><td>2160 min Summer</td><td>4.320</td><td>0.0</td><td>511.6</td><td>1136</td></tr><tr><td>2880 min Summer</td><td>3.376</td><td>0.0</td><td>531.0</td><td>1484</td></tr><tr><td>4320 min Summer</td><td>2.505</td><td>0.0</td><td>587.4</td><td>2208</td></tr><tr><td>5760 min Summer</td><td>2.027</td><td>0.0</td><td>630.3</td><td>2936</td></tr></table>								Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status	15 min Summer	31.244	0.544		0.0	14.7	14.7	16.7 Flood Risk	30 min Summer	31.319	0.619		0.0	15.7	15.7	19.9 Flood Risk	60 min Summer	31.399	0.699		0.0	16.8	16.8	23.4 Flood Risk	120 min Summer	31.456	0.756		0.0	17.5	17.5	25.8 Flood Risk	180 min Summer	31.458	0.758		0.0	17.6	17.6	25.9 Flood Risk	240 min Summer	31.455	0.755		0.0	17.5	17.5	25.7 Flood Risk	360 min Summer	31.438	0.738		0.0	17.3	17.3	25.0 Flood Risk	480 min Summer	31.413	0.713		0.0	17.0	17.0	23.9 Flood Risk	600 min Summer	31.383	0.683		0.0	16.6	16.6	22.7 Flood Risk	720 min Summer	31.352	0.652		0.0	16.2	16.2	21.3 Flood Risk	960 min Summer	31.264	0.564		0.0	15.0	15.0	17.6 Flood Risk	1440 min Summer	31.136	0.436		0.0	13.0	13.0	12.1 O K	2160 min Summer	31.019	0.319		0.0	10.8	10.8	7.1 O K	2880 min Summer	30.951	0.251		0.0	9.4	9.4	4.4 O K	4320 min Summer	30.888	0.188		0.0	7.7	7.7	2.5 O K	5760 min Summer	30.852	0.152		0.0	6.7	6.7	1.6 O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	15 min Summer	167.069	0.0	132.1	46	30 min Summer	102.772	0.0	164.8	56	60 min Summer	63.219	0.0	205.4	72	120 min Summer	38.889	0.0	254.7	120	180 min Summer	29.268	0.0	288.7	148	240 min Summer	23.922	0.0	315.3	178	360 min Summer	18.004	0.0	356.9	242	480 min Summer	14.716	0.0	389.4	306	600 min Summer	12.585	0.0	416.6	368	720 min Summer	11.075	0.0	440.2	432	960 min Summer	8.655	0.0	458.2	550	1440 min Summer	6.114	0.0	484.4	786	2160 min Summer	4.320	0.0	511.6	1136	2880 min Summer	3.376	0.0	531.0	1484	4320 min Summer	2.505	0.0	587.4	2208	5760 min Summer	2.027	0.0	630.3	2936
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																													
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous pavement 6					
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Causeway		Source Control 2019.1					
Cascade Summary of Results for pp2b.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
7200 min Summer	30.835	0.135	0.0	5.9	5.9	1.3	O K
8640 min Summer	30.825	0.125	0.0	5.3	5.3	1.1	O K
10080 min Summer	30.817	0.117	0.0	4.8	4.8	1.0	O K
15 min Winter	31.244	0.544	0.0	14.7	14.7	16.7	Flood Risk
30 min Winter	31.320	0.620	0.0	15.8	15.8	19.9	Flood Risk
60 min Winter	31.401	0.701	0.0	16.8	16.8	23.4	Flood Risk
120 min Winter	31.459	0.759	0.0	17.6	17.6	25.9	Flood Risk
180 min Winter	31.454	0.754	0.0	17.5	17.5	25.7	Flood Risk
240 min Winter	31.442	0.742	0.0	17.4	17.4	25.2	Flood Risk
360 min Winter	31.398	0.698	0.0	16.8	16.8	23.3	Flood Risk
480 min Winter	31.346	0.646	0.0	16.1	16.1	21.1	Flood Risk
600 min Winter	31.295	0.595	0.0	15.4	15.4	18.9	Flood Risk
720 min Winter	31.247	0.547	0.0	14.7	14.7	16.8	Flood Risk
960 min Winter	31.142	0.442	0.0	13.1	13.1	12.4	O K
1440 min Winter	31.012	0.312	0.0	10.7	10.7	6.8	O K
2160 min Winter	30.916	0.216	0.0	8.5	8.5	3.3	O K
2880 min Winter	30.866	0.166	0.0	7.1	7.1	1.9	O K
4320 min Winter	30.831	0.131	0.0	5.6	5.6	1.2	O K
5760 min Winter	30.816	0.116	0.0	4.7	4.7	0.9	O K
7200 min Winter	30.805	0.105	0.0	4.0	4.0	0.8	O K
8640 min Winter	30.796	0.096	0.0	3.5	3.5	0.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
7200 min Summer	1.720	0.0	664.7	3672			
8640 min Summer	1.504	0.0	693.5	4400			
10080 min Summer	1.343	0.0	718.2	5112			
15 min Winter	167.069	0.0	132.1	46			
30 min Winter	102.772	0.0	164.8	55			
60 min Winter	63.219	0.0	205.4	72			
120 min Winter	38.889	0.0	254.7	118			
180 min Winter	29.268	0.0	288.7	150			
240 min Winter	23.922	0.0	315.3	182			
360 min Winter	18.004	0.0	356.9	250			
480 min Winter	14.716	0.0	389.4	316			
600 min Winter	12.585	0.0	416.6	380			
720 min Winter	11.075	0.0	440.2	442			
960 min Winter	8.655	0.0	458.2	560			
1440 min Winter	6.114	0.0	484.4	794			
2160 min Winter	4.320	0.0	511.6	1148			
2880 min Winter	3.376	0.0	531.0	1500			
4320 min Winter	2.505	0.0	587.4	2248			
5760 min Winter	2.027	0.0	630.4	2936			
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8640 min Winter	1.504	0.0	693.7	4336			
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File cas.CASX	Checked by																									
Causeway		Source Control 2019.1																								
<p style="text-align: center;"><u>Cascade Model Details for pp2b.SRCX</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 31.500</p> <p style="text-align: center;"><u>Porous Car Park Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>6.2</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>39.6</td> <td>Slope (1:X)</td> <td>75.0</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>30.700</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table> <p style="text-align: center;"><u>Orifice Outflow Control</u></p> <p style="text-align: center;">Diameter (m) 0.100 Discharge Coefficient 0.600 Invert Level (m) 30.700</p>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	6.2	Membrane Percolation (mm/hr)	1000	Length (m)	23.0	Max Percolation (l/s)	39.6	Slope (1:X)	75.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	30.700	Membrane Depth (m)	0
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	6.2																							
Membrane Percolation (mm/hr)	1000	Length (m)	23.0																							
Max Percolation (l/s)	39.6	Slope (1:X)	75.0																							
Safety Factor	2.0	Depression Storage (mm)	5																							
Porosity	0.30	Evaporation (mm/day)	3																							
Invert Level (m)	30.700	Membrane Depth (m)	0																							
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DHA Transport Ltd		Page 1					
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous pavement 3					
Date 22/06/2026 16:53 File cas.CASX		Designed by Chris Checked by					
Causeway		Source Control 2019.1					
Cascade Summary of Results for pp3.SRCX							
Upstream Outflow To Overflow To Structures							
(None) pp4 a.SRCX (None)							
Half Drain Time : 89 minutes.							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (1/s)	Max Control (1/s)	Max Σ Outflow (1/s)	Max Volume (m³)	Status
15 min Summer	31.853	0.653	0.0	5.9	5.9	41.3	Flood Risk
30 min Summer	31.909	0.709	0.0	6.2	6.2	48.6	Flood Risk
60 min Summer	31.949	0.749	0.0	6.4	6.4	54.3	Flood Risk
120 min Summer	31.967	0.767	0.0	6.5	6.5	57.0	Flood Risk
180 min Summer	31.969	0.769	0.0	6.5	6.5	57.2	Flood Risk
240 min Summer	31.964	0.764	0.0	6.4	6.4	56.4	Flood Risk
360 min Summer	31.944	0.744	0.0	6.4	6.4	53.6	Flood Risk
480 min Summer	31.922	0.722	0.0	6.2	6.2	50.4	Flood Risk
600 min Summer	31.898	0.698	0.0	6.1	6.1	47.2	Flood Risk
720 min Summer	31.875	0.675	0.0	6.0	6.0	44.1	Flood Risk
960 min Summer	31.804	0.604	0.0	5.7	5.7	35.3	Flood Risk
1440 min Summer	31.690	0.490	0.0	5.1	5.1	23.2	O K
2160 min Summer	31.566	0.366	0.0	4.4	4.4	12.9	O K
2880 min Summer	31.481	0.281	0.0	3.8	3.8	7.6	O K
4320 min Summer	31.394	0.194	0.0	3.0	3.0	3.6	O K
5760 min Summer	31.343	0.143	0.0	2.5	2.5	2.0	O K
7200 min Summer	31.312	0.112	0.0	2.1	2.1	1.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
15 min Summer	167.069	0.0	45.3	18			
30 min Summer	102.772	0.0	56.5	32			
60 min Summer	63.219	0.0	70.2	60			
120 min Summer	38.889	0.0	87.0	94			
180 min Summer	29.268	0.0	98.5	126			
240 min Summer	23.922	0.0	107.6	162			
360 min Summer	18.004	0.0	121.7	230			
480 min Summer	14.716	0.0	132.8	298			
600 min Summer	12.585	0.0	142.1	364			
720 min Summer	11.075	0.0	150.1	432			
960 min Summer	8.655	0.0	156.3	558			
1440 min Summer	6.114	0.0	165.3	794			
2160 min Summer	4.320	0.0	174.5	1148			
2880 min Summer	3.376	0.0	181.2	1500			
4320 min Summer	2.505	0.0	200.5	2204			
5760 min Summer	2.027	0.0	215.2	2936			
7200 min Summer	1.720	0.0	227.0	3672			
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN			Porous pavement 3				
Date 22/06/2026 16:53			Designed by Chris				
File cas.CASX			Checked by				
Causeway			Source Control 2019.1				
Cascade Summary of Results for pp3.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	31.293	0.093	0.0	1.9	1.9	0.8	O K
10080 min Summer	31.282	0.082	0.0	1.7	1.7	0.7	O K
15 min Winter	31.853	0.653	0.0	5.9	5.9	41.3	Flood Risk
30 min Winter	31.910	0.710	0.0	6.2	6.2	48.8	Flood Risk
60 min Winter	31.951	0.751	0.0	6.4	6.4	54.6	Flood Risk
120 min Winter	31.966	0.766	0.0	6.4	6.4	56.8	Flood Risk
180 min Winter	31.962	0.762	0.0	6.4	6.4	56.2	Flood Risk
240 min Winter	31.950	0.750	0.0	6.4	6.4	54.4	Flood Risk
360 min Winter	31.915	0.715	0.0	6.2	6.2	49.5	Flood Risk
480 min Winter	31.877	0.677	0.0	6.0	6.0	44.4	Flood Risk
600 min Winter	31.839	0.639	0.0	5.9	5.9	39.5	Flood Risk
720 min Winter	31.802	0.602	0.0	5.7	5.7	35.1	Flood Risk
960 min Winter	31.708	0.508	0.0	5.2	5.2	25.0	Flood Risk
1440 min Winter	31.564	0.364	0.0	4.3	4.3	12.8	O K
2160 min Winter	31.431	0.231	0.0	3.4	3.4	5.1	O K
2880 min Winter	31.359	0.159	0.0	2.7	2.7	2.4	O K
4320 min Winter	31.302	0.102	0.0	2.0	2.0	1.0	O K
5760 min Winter	31.281	0.081	0.0	1.6	1.6	0.6	O K
7200 min Winter	31.272	0.072	0.0	1.4	1.4	0.5	O K
8640 min Winter	31.266	0.066	0.0	1.2	1.2	0.4	O K
10080 min Winter	31.261	0.061	0.0	1.1	1.1	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
8640 min Summer	1.504	0.0	237.0	4352			
10080 min Summer	1.343	0.0	245.6	5112			
15 min Winter	167.069	0.0	45.3	18			
30 min Winter	102.772	0.0	56.5	31			
60 min Winter	63.219	0.0	70.2	58			
120 min Winter	38.889	0.0	87.0	96			
180 min Winter	29.268	0.0	98.5	134			
240 min Winter	23.922	0.0	107.6	172			
360 min Winter	18.004	0.0	121.7	246			
480 min Winter	14.716	0.0	132.8	316			
600 min Winter	12.585	0.0	142.1	386			
720 min Winter	11.075	0.0	150.1	450			
960 min Winter	8.655	0.0	156.3	576			
1440 min Winter	6.114	0.0	165.3	808			
2160 min Winter	4.320	0.0	174.5	1144			
2880 min Winter	3.376	0.0	181.2	1472			
4320 min Winter	2.505	0.0	200.5	2176			
5760 min Winter	2.027	0.0	215.2	2912			
7200 min Winter	1.720	0.0	227.1	3648			
8640 min Winter	1.504	0.0	237.0	4264			
10080 min Winter	1.343	0.0	245.6	4952			
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Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 3																																											
Date 22/06/2026 16:53	Designed by Chris																																											
File cas.CASX	Checked by																																											
Causeway		Source Control 2019.1																																										
<p align="center"><u>Cascade Rainfall Details for pp3.SRCX</u></p> <table> <tr> <td>Rainfall Model</td> <td>FEH</td> <td>D2 (1km)</td> <td>0.258</td> <td>Cv (Summer)</td> <td>1.000</td> </tr> <tr> <td>Return Period (years)</td> <td>100</td> <td>D3 (1km)</td> <td>0.379</td> <td>Cv (Winter)</td> <td>1.000</td> </tr> <tr> <td>FEH Rainfall Version</td> <td>1999</td> <td>E (1km)</td> <td>0.310</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Site Location</td> <td></td> <td>F (1km)</td> <td>2.349</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>C (1km)</td> <td>-0.025</td> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+45</td> </tr> <tr> <td>D1 (1km)</td> <td>0.414</td> <td>Winter Storms</td> <td>Yes</td> <td></td> <td></td> </tr> </table> <p align="center"><u>Time Area Diagram</u></p> <p align="center">Total Area (ha) 0.116</p> <table> <tr> <td>Time (mins)</td> <td>Area</td> </tr> <tr> <td>From:</td> <td>To: (ha)</td> </tr> <tr> <td>0</td> <td>4 0.116</td> </tr> </table>			Rainfall Model	FEH	D2 (1km)	0.258	Cv (Summer)	1.000	Return Period (years)	100	D3 (1km)	0.379	Cv (Winter)	1.000	FEH Rainfall Version	1999	E (1km)	0.310	Shortest Storm (mins)	15	Site Location		F (1km)	2.349	Longest Storm (mins)	10080	C (1km)	-0.025	Summer Storms	Yes	Climate Change %	+45	D1 (1km)	0.414	Winter Storms	Yes			Time (mins)	Area	From:	To: (ha)	0	4 0.116
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Time (mins)	Area																																											
From:	To: (ha)																																											
0	4 0.116																																											
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Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 3																									
Date 22/06/2026 16:53 File cas.CASX	Designed by Chris Checked by																									
Causeway Source Control 2019.1																										
<p align="center"><u>Cascade Model Details for pp3.SRCX</u></p> <p align="center">Storage is Online Cover Level (m) 32.000</p> <p align="center"><u>Porous Car Park Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>12.9</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>48.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>172.0</td> <td>Slope (1:X)</td> <td>50.0</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>31.200</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table> <p align="center"><u>Orifice Outflow Control</u></p> <p align="center">Diameter (m) 0.060 Discharge Coefficient 0.600 Invert Level (m) 31.200</p>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	12.9	Membrane Percolation (mm/hr)	1000	Length (m)	48.0	Max Percolation (l/s)	172.0	Slope (1:X)	50.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	31.200	Membrane Depth (m)	0
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	12.9																							
Membrane Percolation (mm/hr)	1000	Length (m)	48.0																							
Max Percolation (l/s)	172.0	Slope (1:X)	50.0																							
Safety Factor	2.0	Depression Storage (mm)	5																							
Porosity	0.30	Evaporation (mm/day)	3																							
Invert Level (m)	31.200	Membrane Depth (m)	0																							
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous pavement 4	
Date 22/06/2026 16:54 File cas.CASX		Designed by Chris Checked by	
Causeway		Source Control 2019.1	



Cascade Summary of Results for pp4.SRCX

Upstream Outflow To Overflow To
Structures

pp4 a.SRCX pp6.SRCX (None)
pp3.SRCX

Half Drain Time : 5 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	31.460	0.760	0.0	67.8	67.8	34.9	Flood Risk
30 min Summer	31.434	0.734	0.0	66.5	66.5	32.5	Flood Risk
60 min Summer	31.357	0.657	0.0	62.3	62.3	26.1	Flood Risk
120 min Summer	31.236	0.536	0.0	55.1	55.1	17.3	Flood Risk
180 min Summer	31.147	0.447	0.0	49.2	49.2	12.0	O K
240 min Summer	31.083	0.383	0.0	44.4	44.4	8.8	O K
360 min Summer	31.004	0.304	0.0	37.7	37.7	5.6	O K
480 min Summer	30.968	0.268	0.0	32.9	32.9	4.3	O K
600 min Summer	30.947	0.247	0.0	29.2	29.2	3.7	O K
720 min Summer	30.931	0.231	0.0	26.6	26.6	3.2	O K
960 min Summer	30.905	0.205	0.0	22.0	22.0	2.5	O K
1440 min Summer	30.875	0.175	0.0	17.0	17.0	1.8	O K
2160 min Summer	30.848	0.148	0.0	13.1	13.1	1.3	O K
2880 min Summer	30.830	0.130	0.0	10.9	10.9	1.0	O K
4320 min Summer	30.812	0.112	0.0	8.5	8.5	0.8	O K
5760 min Summer	30.803	0.103	0.0	7.1	7.1	0.6	O K
7200 min Summer	30.797	0.097	0.0	6.1	6.1	0.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	167.069	0.0	129.6	13
30 min Summer	102.772	0.0	161.0	21
60 min Summer	63.219	0.0	199.7	38
120 min Summer	38.889	0.0	247.2	68
180 min Summer	29.268	0.0	279.8	98
240 min Summer	23.922	0.0	305.4	128
360 min Summer	18.004	0.0	345.4	186
480 min Summer	14.716	0.0	376.8	246
600 min Summer	12.585	0.0	403.0	306
720 min Summer	11.075	0.0	425.7	366
960 min Summer	8.655	0.0	443.3	490
1440 min Summer	6.114	0.0	468.9	734
2160 min Summer	4.320	0.0	495.6	1100
2880 min Summer	3.376	0.0	514.9	1468
4320 min Summer	2.505	0.0	570.7	2196
5760 min Summer	2.027	0.0	613.2	2928
7200 min Summer	1.720	0.0	647.8	3632

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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN			Porous pavement 4				
Date 22/06/2026 16:54			Designed by Chris				
File cas.CASX			Checked by				
Causeway			Source Control 2019.1				
Cascade Summary of Results for pp4.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	30.792	0.092	0.0	5.3	5.3	0.5	O K
10080 min Summer	30.786	0.086	0.0	4.8	4.8	0.4	O K
15 min Winter	31.448	0.748	0.0	67.2	67.2	33.8	Flood Risk
30 min Winter	31.396	0.696	0.0	64.4	64.4	29.3	Flood Risk
60 min Winter	31.277	0.577	0.0	57.7	57.7	20.1	Flood Risk
120 min Winter	31.112	0.412	0.0	46.7	46.7	10.3	O K
180 min Winter	31.020	0.320	0.0	39.1	39.1	6.2	O K
240 min Winter	30.975	0.275	0.0	34.1	34.1	4.6	O K
360 min Winter	30.937	0.237	0.0	27.5	27.5	3.4	O K
480 min Winter	30.915	0.215	0.0	23.7	23.7	2.8	O K
600 min Winter	30.900	0.200	0.0	21.1	21.1	2.4	O K
720 min Winter	30.889	0.189	0.0	19.4	19.4	2.2	O K
960 min Winter	30.870	0.170	0.0	16.2	16.2	1.7	O K
1440 min Winter	30.843	0.143	0.0	12.5	12.5	1.2	O K
2160 min Winter	30.818	0.118	0.0	9.4	9.4	0.8	O K
2880 min Winter	30.806	0.106	0.0	7.6	7.6	0.7	O K
4320 min Winter	30.795	0.095	0.0	5.8	5.8	0.5	O K
5760 min Winter	30.784	0.084	0.0	4.6	4.6	0.4	O K
7200 min Winter	30.777	0.077	0.0	3.9	3.9	0.4	O K
8640 min Winter	30.772	0.072	0.0	3.4	3.4	0.3	O K
10080 min Winter	30.768	0.068	0.0	3.1	3.1	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
8640 min Summer	1.504	0.0	677.0	4376			
10080 min Summer	1.343	0.0	702.3	4984			
15 min Winter	167.069	0.0	129.6	13			
30 min Winter	102.772	0.0	161.0	22			
60 min Winter	63.219	0.0	199.7	38			
120 min Winter	38.889	0.0	247.2	68			
180 min Winter	29.268	0.0	279.8	98			
240 min Winter	23.922	0.0	305.4	126			
360 min Winter	18.004	0.0	345.4	186			
480 min Winter	14.716	0.0	376.8	248			
600 min Winter	12.585	0.0	403.0	308			
720 min Winter	11.075	0.0	425.7	368			
960 min Winter	8.655	0.0	443.3	492			
1440 min Winter	6.114	0.0	468.9	748			
2160 min Winter	4.320	0.0	495.6	1124			
2880 min Winter	3.376	0.0	514.9	1468			
4320 min Winter	2.505	0.0	570.7	2192			
5760 min Winter	2.027	0.0	613.2	2904			
7200 min Winter	1.720	0.0	647.8	3672			
8640 min Winter	1.504	0.0	677.0	4304			
10080 min Winter	1.343	0.0	702.4	5128			
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN	Porous pavement 4																																											
Date 22/06/2026 16:54	Designed by Chris																																											
File cas.CASX	Checked by																																											
Causeway		Source Control 2019.1																																										
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DHA Transport Ltd		Page 4																								
Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 4																									
Date 22/06/2026 16:54 File cas.CASX	Designed by Chris Checked by																									
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Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	6.1																							
Membrane Percolation (mm/hr)	1000	Length (m)	83.0																							
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Invert Level (m)	30.700	Membrane Depth (m)	0																							
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DHA Transport Ltd		Page 1					
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN		Porous pavement 4A					
Date 22/06/2026 16:54 File cas.CASX		Designed by Chris Checked by					
Causeway		Source Control 2019.1					
Cascade Summary of Results for pp4 a.SRCX							
Upstream Outflow To Overflow To Structures							
pp3.SRCX pp4.SRCX (None)							
Half Drain Time : 45 minutes.							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	31.469	0.269	0.0	5.6	5.6	18.4	O K
30 min Summer	31.533	0.333	0.0	6.4	6.4	22.9	O K
60 min Summer	31.608	0.408	0.0	7.1	7.1	28.0	O K
120 min Summer	31.671	0.471	0.0	7.7	7.7	32.3	O K
180 min Summer	31.691	0.491	0.0	7.9	7.9	33.7	O K
240 min Summer	31.700	0.500	0.0	8.0	8.0	34.3	Flood Risk
360 min Summer	31.703	0.503	0.0	8.0	8.0	34.5	Flood Risk
480 min Summer	31.696	0.496	0.0	8.0	8.0	34.1	O K
600 min Summer	31.686	0.486	0.0	7.9	7.9	33.4	O K
720 min Summer	31.674	0.474	0.0	7.8	7.8	32.6	O K
960 min Summer	31.630	0.430	0.0	7.4	7.4	29.5	O K
1440 min Summer	31.555	0.355	0.0	6.6	6.6	24.4	O K
2160 min Summer	31.473	0.273	0.0	5.7	5.7	18.7	O K
2880 min Summer	31.415	0.215	0.0	5.0	5.0	14.8	O K
4320 min Summer	31.356	0.156	0.0	4.0	4.0	10.7	O K
5760 min Summer	31.322	0.122	0.0	3.4	3.4	8.4	O K
7200 min Summer	31.304	0.104	0.0	3.0	3.0	7.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
15 min Summer	167.069	0.0	62.4	39			
30 min Summer	102.772	0.0	77.8	34			
60 min Summer	63.219	0.0	96.8	62			
120 min Summer	38.889	0.0	119.9	120			
180 min Summer	29.268	0.0	135.9	152			
240 min Summer	23.922	0.0	148.4	180			
360 min Summer	18.004	0.0	167.9	246			
480 min Summer	14.716	0.0	183.2	314			
600 min Summer	12.585	0.0	196.0	380			
720 min Summer	11.075	0.0	207.1	448			
960 min Summer	8.655	0.0	215.6	578			
1440 min Summer	6.114	0.0	227.9	824			
2160 min Summer	4.320	0.0	240.7	1188			
2880 min Summer	3.376	0.0	249.9	1532			
4320 min Summer	2.505	0.0	276.6	2244			
5760 min Summer	2.027	0.0	296.9	2944			
7200 min Summer	1.720	0.0	313.2	3656			
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN			Porous pavement 4A				
Date 22/06/2026 16:54			Designed by Chris				
File cas.CASX			Checked by				
Causeway			Source Control 2019.1				
Cascade Summary of Results for pp4 a.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	31.294	0.094	0.0	2.6	2.6	6.5	O K
10080 min Summer	31.287	0.087	0.0	2.3	2.3	6.0	O K
15 min Winter	31.469	0.269	0.0	5.6	5.6	18.4	O K
30 min Winter	31.533	0.333	0.0	6.4	6.4	22.8	O K
60 min Winter	31.609	0.409	0.0	7.2	7.2	28.0	O K
120 min Winter	31.673	0.473	0.0	7.8	7.8	32.5	O K
180 min Winter	31.692	0.492	0.0	7.9	7.9	33.8	O K
240 min Winter	31.700	0.500	0.0	8.0	8.0	34.4	Flood Risk
360 min Winter	31.696	0.496	0.0	8.0	8.0	34.1	O K
480 min Winter	31.680	0.480	0.0	7.8	7.8	32.9	O K
600 min Winter	31.660	0.460	0.0	7.6	7.6	31.6	O K
720 min Winter	31.638	0.438	0.0	7.4	7.4	30.1	O K
960 min Winter	31.576	0.376	0.0	6.8	6.8	25.8	O K
1440 min Winter	31.479	0.279	0.0	5.8	5.8	19.2	O K
2160 min Winter	31.387	0.187	0.0	4.5	4.5	12.8	O K
2880 min Winter	31.335	0.135	0.0	3.7	3.7	9.3	O K
4320 min Winter	31.299	0.099	0.0	2.8	2.8	6.8	O K
5760 min Winter	31.286	0.086	0.0	2.2	2.2	5.9	O K
7200 min Winter	31.277	0.077	0.0	1.9	1.9	5.3	O K
8640 min Winter	31.271	0.071	0.0	1.7	1.7	4.8	O K
10080 min Winter	31.266	0.066	0.0	1.5	1.5	4.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
8640 min Summer	1.504	0.0	327.0	4400			
10080 min Summer	1.343	0.0	338.7	5136			
15 min Winter	167.069	0.0	62.4	39			
30 min Winter	102.772	0.0	77.8	34			
60 min Winter	63.219	0.0	96.8	62			
120 min Winter	38.889	0.0	119.9	118			
180 min Winter	29.268	0.0	135.9	162			
240 min Winter	23.922	0.0	148.4	186			
360 min Winter	18.004	0.0	167.9	260			
480 min Winter	14.716	0.0	183.2	332			
600 min Winter	12.585	0.0	196.0	404			
720 min Winter	11.075	0.0	207.1	470			
960 min Winter	8.655	0.0	215.6	600			
1440 min Winter	6.114	0.0	227.9	840			
2160 min Winter	4.320	0.0	240.7	1188			
2880 min Winter	3.376	0.0	249.9	1524			
4320 min Winter	2.505	0.0	276.6	2200			
5760 min Winter	2.027	0.0	296.9	2936			
7200 min Winter	1.720	0.0	313.3	3600			
8640 min Winter	1.504	0.0	327.0	4384			
10080 min Winter	1.343	0.0	338.9	5056			
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Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 4A																																											
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Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.2																							
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Summer</td><td>31.099</td><td>0.399</td><td>0.0</td><td>12.3</td><td>12.3</td><td>10.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>31.057</td><td>0.357</td><td>0.0</td><td>11.6</td><td>11.6</td><td>8.7</td><td>O K</td></tr><tr><td>360 min Summer</td><td>30.991</td><td>0.291</td><td>0.0</td><td>10.2</td><td>10.2</td><td>5.8</td><td>O K</td></tr><tr><td>480 min Summer</td><td>30.943</td><td>0.243</td><td>0.0</td><td>9.2</td><td>9.2</td><td>4.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>30.907</td><td>0.207</td><td>0.0</td><td>8.3</td><td>8.3</td><td>2.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>30.881</td><td>0.181</td><td>0.0</td><td>7.5</td><td>7.5</td><td>2.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>30.840</td><td>0.140</td><td>0.0</td><td>6.2</td><td>6.2</td><td>1.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>30.811</td><td>0.111</td><td>0.0</td><td>4.4</td><td>4.4</td><td>0.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>30.789</td><td>0.089</td><td>0.0</td><td>3.1</td><td>3.1</td><td>0.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>30.777</td><td>0.077</td><td>0.0</td><td>2.4</td><td>2.4</td><td>0.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>30.762</td><td>0.062</td><td>0.0</td><td>1.8</td><td>1.8</td><td>0.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>30.755</td><td>0.055</td><td>0.0</td><td>1.5</td><td>1.5</td><td>0.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>30.751</td><td>0.051</td><td>0.0</td><td>1.2</td><td>1.2</td><td>0.2</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>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>167.069</td><td>0.0</td><td>25.3</td><td>14</td></tr><tr><td>30 min Summer</td><td>102.772</td><td>0.0</td><td>31.6</td><td>23</td></tr><tr><td>60 min Summer</td><td>63.219</td><td>0.0</td><td>39.4</td><td>40</td></tr><tr><td>120 min Summer</td><td>38.889</td><td>0.0</td><td>48.9</td><td>72</td></tr><tr><td>180 min Summer</td><td>29.268</td><td>0.0</td><td>55.5</td><td>104</td></tr><tr><td>240 min Summer</td><td>23.922</td><td>0.0</td><td>60.7</td><td>134</td></tr><tr><td>360 min Summer</td><td>18.004</td><td>0.0</td><td>68.7</td><td>194</td></tr><tr><td>480 min Summer</td><td>14.716</td><td>0.0</td><td>75.0</td><td>252</td></tr><tr><td>600 min Summer</td><td>12.585</td><td>0.0</td><td>80.2</td><td>310</td></tr><tr><td>720 min Summer</td><td>11.075</td><td>0.0</td><td>84.8</td><td>370</td></tr><tr><td>960 min Summer</td><td>8.655</td><td>0.0</td><td>88.2</td><td>490</td></tr><tr><td>1440 min Summer</td><td>6.114</td><td>0.0</td><td>93.2</td><td>730</td></tr><tr><td>2160 min Summer</td><td>4.320</td><td>0.0</td><td>98.3</td><td>1088</td></tr><tr><td>2880 min Summer</td><td>3.376</td><td>0.0</td><td>101.9</td><td>1448</td></tr><tr><td>4320 min Summer</td><td>2.505</td><td>0.0</td><td>112.7</td><td>2196</td></tr><tr><td>5760 min Summer</td><td>2.027</td><td>0.0</td><td>120.7</td><td>2896</td></tr><tr><td>7200 min Summer</td><td>1.720</td><td>0.0</td><td>127.1</td><td>3592</td></tr></tbody></table>				Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status	15 min Summer	31.205	0.505	0.0	14.1	14.1	17.4	Flood Risk	30 min Summer	31.215	0.515	0.0	14.2	14.2	18.1	Flood Risk	60 min Summer	31.198	0.498	0.0	14.0	14.0	16.9	O K	120 min Summer	31.147	0.447	0.0	13.1	13.1	13.6	O K	180 min Summer	31.099	0.399	0.0	12.3	12.3	10.8	O K	240 min Summer	31.057	0.357	0.0	11.6	11.6	8.7	O K	360 min Summer	30.991	0.291	0.0	10.2	10.2	5.8	O K	480 min Summer	30.943	0.243	0.0	9.2	9.2	4.0	O K	600 min Summer	30.907	0.207	0.0	8.3	8.3	2.9	O K	720 min Summer	30.881	0.181	0.0	7.5	7.5	2.2	O K	960 min Summer	30.840	0.140	0.0	6.2	6.2	1.3	O K	1440 min Summer	30.811	0.111	0.0	4.4	4.4	0.8	O K	2160 min Summer	30.789	0.089	0.0	3.1	3.1	0.5	O K	2880 min Summer	30.777	0.077	0.0	2.4	2.4	0.4	O K	4320 min Summer	30.762	0.062	0.0	1.8	1.8	0.3	O K	5760 min Summer	30.755	0.055	0.0	1.5	1.5	0.2	O K	7200 min Summer	30.751	0.051	0.0	1.2	1.2	0.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	15 min Summer	167.069	0.0	25.3	14	30 min Summer	102.772	0.0	31.6	23	60 min Summer	63.219	0.0	39.4	40	120 min Summer	38.889	0.0	48.9	72	180 min Summer	29.268	0.0	55.5	104	240 min Summer	23.922	0.0	60.7	134	360 min Summer	18.004	0.0	68.7	194	480 min Summer	14.716	0.0	75.0	252	600 min Summer	12.585	0.0	80.2	310	720 min Summer	11.075	0.0	84.8	370	960 min Summer	8.655	0.0	88.2	490	1440 min Summer	6.114	0.0	93.2	730	2160 min Summer	4.320	0.0	98.3	1088	2880 min Summer	3.376	0.0	101.9	1448	4320 min Summer	2.505	0.0	112.7	2196	5760 min Summer	2.027	0.0	120.7	2896	7200 min Summer	1.720	0.0	127.1	3592
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Σ Outflow (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																																						
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DHA Transport Ltd							Page 2
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN			Porous pavement 5				
Date 22/06/2026 16:54			Designed by Chris				
File cas.CASX			Checked by				
Causeway			Source Control 2019.1				
Cascade Summary of Results for pp5.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
8640 min Summer	30.749	0.049	0.0	1.1	1.1	0.2	O K
10080 min Summer	30.746	0.046	0.0	1.0	1.0	0.1	O K
15 min Winter	31.204	0.504	0.0	14.1	14.1	17.4	Flood Risk
30 min Winter	31.207	0.507	0.0	14.1	14.1	17.6	Flood Risk
60 min Winter	31.174	0.474	0.0	13.6	13.6	15.4	O K
120 min Winter	31.093	0.393	0.0	12.2	12.2	10.5	O K
180 min Winter	31.023	0.323	0.0	10.9	10.9	7.1	O K
240 min Winter	30.969	0.269	0.0	9.8	9.8	4.9	O K
360 min Winter	30.896	0.196	0.0	8.0	8.0	2.6	O K
480 min Winter	30.853	0.153	0.0	6.7	6.7	1.6	O K
600 min Winter	30.834	0.134	0.0	5.8	5.8	1.2	O K
720 min Winter	30.823	0.123	0.0	5.1	5.1	1.0	O K
960 min Winter	30.804	0.104	0.0	4.0	4.0	0.7	O K
1440 min Winter	30.784	0.084	0.0	2.8	2.8	0.5	O K
2160 min Winter	30.767	0.067	0.0	2.0	2.0	0.3	O K
2880 min Winter	30.757	0.057	0.0	1.6	1.6	0.2	O K
4320 min Winter	30.750	0.050	0.0	1.2	1.2	0.2	O K
5760 min Winter	30.746	0.046	0.0	0.9	0.9	0.1	O K
7200 min Winter	30.741	0.041	0.0	0.8	0.8	0.1	O K
8640 min Winter	30.738	0.038	0.0	0.7	0.7	0.1	O K
10080 min Winter	30.736	0.036	0.0	0.6	0.6	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
8640 min Summer	1.504	0.0	132.5	4360			
10080 min Summer	1.343	0.0	137.0	5016			
15 min Winter	167.069	0.0	25.3	15			
30 min Winter	102.772	0.0	31.6	24			
60 min Winter	63.219	0.0	39.4	42			
120 min Winter	38.889	0.0	48.9	76			
180 min Winter	29.268	0.0	55.5	106			
240 min Winter	23.922	0.0	60.7	136			
360 min Winter	18.004	0.0	68.7	192			
480 min Winter	14.716	0.0	75.0	250			
600 min Winter	12.585	0.0	80.2	306			
720 min Winter	11.075	0.0	84.8	366			
960 min Winter	8.655	0.0	88.2	482			
1440 min Winter	6.114	0.0	93.2	714			
2160 min Winter	4.320	0.0	98.3	1104			
2880 min Winter	3.376	0.0	101.9	1436			
4320 min Winter	2.505	0.0	112.7	2172			
5760 min Winter	2.027	0.0	120.7	2912			
7200 min Winter	1.720	0.0	127.2	3656			
8640 min Winter	1.504	0.0	132.5	4400			
10080 min Winter	1.343	0.0	137.1	5064			
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DHA Transport Ltd		Page 3																																										
Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 5																																											
Date 22/06/2026 16:54	Designed by Chris																																											
File cas.CASX	Checked by																																											
Causeway		Source Control 2019.1																																										
<p style="text-align: center;"><u>Cascade Rainfall Details for pp5.SRCX</u></p> <table><tr><td>Rainfall Model</td><td>FEH</td><td>D2 (1km)</td><td>0.258</td><td>Cv (Summer)</td><td>1.000</td></tr><tr><td>Return Period (years)</td><td>100</td><td>D3 (1km)</td><td>0.379</td><td>Cv (Winter)</td><td>1.000</td></tr><tr><td>FEH Rainfall Version</td><td>1999</td><td>E (1km)</td><td>0.310</td><td>Shortest Storm (mins)</td><td>15</td></tr><tr><td>Site Location</td><td></td><td>F (1km)</td><td>2.349</td><td>Longest Storm (mins)</td><td>10080</td></tr><tr><td>C (1km)</td><td>-0.025</td><td>Summer Storms</td><td>Yes</td><td>Climate Change %</td><td>+45</td></tr><tr><td>D1 (1km)</td><td>0.414</td><td>Winter Storms</td><td>Yes</td><td></td><td></td></tr></table> <p style="text-align: center;"><u>Time Area Diagram</u></p> <p style="text-align: center;">Total Area (ha) 0.066</p> <table><tr><td>Time (mins)</td><td>Area</td></tr><tr><td>From: To:</td><td>(ha)</td></tr><tr><td>0</td><td>4 0.066</td></tr></table>			Rainfall Model	FEH	D2 (1km)	0.258	Cv (Summer)	1.000	Return Period (years)	100	D3 (1km)	0.379	Cv (Winter)	1.000	FEH Rainfall Version	1999	E (1km)	0.310	Shortest Storm (mins)	15	Site Location		F (1km)	2.349	Longest Storm (mins)	10080	C (1km)	-0.025	Summer Storms	Yes	Climate Change %	+45	D1 (1km)	0.414	Winter Storms	Yes			Time (mins)	Area	From: To:	(ha)	0	4 0.066
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From: To:	(ha)																																											
0	4 0.066																																											
©1982-2019 Innovyze																																												

DHA Transport Ltd		Page 4																								
Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 5																									
Date 22/06/2026 16:54	Designed by Chris																									
File cas.CASX	Checked by																									
Causeway		Source Control 2019.1																								
<p align="center"><u>Cascade Model Details for pp5.SRCX</u></p> <p align="center">Storage is Online Cover Level (m) 31.500</p> <p align="center"><u>Porous Car Park Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>9.1</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>50.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>126.4</td> <td>Slope (1:X)</td> <td>50.0</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>30.700</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table> <p align="center"><u>Orifice Outflow Control</u></p> <p align="center">Diameter (m) 0.100 Discharge Coefficient 0.600 Invert Level (m) 30.700</p>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	9.1	Membrane Percolation (mm/hr)	1000	Length (m)	50.0	Max Percolation (l/s)	126.4	Slope (1:X)	50.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	30.700	Membrane Depth (m)	0
Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	9.1																							
Membrane Percolation (mm/hr)	1000	Length (m)	50.0																							
Max Percolation (l/s)	126.4	Slope (1:X)	50.0																							
Safety Factor	2.0	Depression Storage (mm)	5																							
Porosity	0.30	Evaporation (mm/day)	3																							
Invert Level (m)	30.700	Membrane Depth (m)	0																							
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DHA Transport Ltd							Page 1
Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN				Porous pavement 6			
Date 22/06/2026 16:55				Designed by Chris			
File cas.CASX				Checked by			
Causeway				Source Control 2019.1			
Cascade Summary of Results for pp6.SRCX							
Upstream Outflow To Overflow To Structures							
pp5.SRCX basin.SRCX (None)							
pp4 a.SRCX							
pp3.SRCX							
Half Drain Time : 60 minutes.							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	31.176	0.476	0.0	29.7	29.7	137.0	O K
30 min Summer	31.285	0.585	0.0	33.5	33.5	168.4	Flood Risk
60 min Summer	31.391	0.691	0.0	36.9	36.9	199.0	Flood Risk
120 min Summer	31.448	0.748	0.0	38.5	38.5	215.5	Flood Risk
180 min Summer	31.469	0.769	0.0	39.1	39.1	221.5	Flood Risk
240 min Summer	31.471	0.771	0.0	39.2	39.2	222.1	Flood Risk
360 min Summer	31.447	0.747	0.0	38.5	38.5	215.2	Flood Risk
480 min Summer	31.409	0.709	0.0	37.4	37.4	204.1	Flood Risk
600 min Summer	31.368	0.668	0.0	36.2	36.2	192.5	Flood Risk
720 min Summer	31.330	0.630	0.0	35.0	35.0	181.6	Flood Risk
960 min Summer	31.235	0.535	0.0	31.8	31.8	154.0	Flood Risk
1440 min Summer	31.108	0.408	0.0	27.1	27.1	117.5	O K
2160 min Summer	31.000	0.300	0.0	22.3	22.3	86.3	O K
2880 min Summer	30.939	0.239	0.0	19.0	19.0	68.9	O K
4320 min Summer	30.895	0.195	0.0	15.3	15.3	56.1	O K
5760 min Summer	30.871	0.171	0.0	12.7	12.7	49.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
15 min Summer	167.069	0.0	232.2	28			
30 min Summer	102.772	0.0	289.2	38			
60 min Summer	63.219	0.0	360.5	62			
120 min Summer	38.889	0.0	446.6	94			
180 min Summer	29.268	0.0	505.7	126			
240 min Summer	23.922	0.0	552.2	160			
360 min Summer	18.004	0.0	624.7	226			
480 min Summer	14.716	0.0	681.6	290			
600 min Summer	12.585	0.0	729.2	356			
720 min Summer	11.075	0.0	770.3	418			
960 min Summer	8.655	0.0	801.9	542			
1440 min Summer	6.114	0.0	847.9	782			
2160 min Summer	4.320	0.0	896.9	1144			
2880 min Summer	3.376	0.0	931.3	1500			
4320 min Summer	2.505	0.0	1030.9	2204			
5760 min Summer	2.027	0.0	1108.6	2936			
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Eclipse House Eclipse Park Sittingbourne Road Maidstone ME14 3EN				Porous pavement 6			
Date 22/06/2026 16:55				Designed by Chris			
File cas.CASX				Checked by			
Causeway				Source Control 2019.1			
Cascade Summary of Results for pp6.SRCX							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max E Outflow (l/s)	Max Volume (m³)	Status
7200 min Summer	30.856	0.156	0.0	11.0	11.0	44.8	O K
8640 min Summer	30.843	0.143	0.0	9.6	9.6	41.3	O K
10080 min Summer	30.834	0.134	0.0	8.6	8.6	38.5	O K
15 min Winter	31.176	0.476	0.0	29.7	29.7	137.1	O K
30 min Winter	31.284	0.584	0.0	33.5	33.5	168.3	Flood Risk
60 min Winter	31.392	0.692	0.0	36.9	36.9	199.4	Flood Risk
120 min Winter	31.441	0.741	0.0	38.3	38.3	213.5	Flood Risk
180 min Winter	31.449	0.749	0.0	38.5	38.5	215.7	Flood Risk
240 min Winter	31.435	0.735	0.0	38.1	38.1	211.6	Flood Risk
360 min Winter	31.382	0.682	0.0	36.6	36.6	196.4	Flood Risk
480 min Winter	31.324	0.624	0.0	34.8	34.8	179.7	Flood Risk
600 min Winter	31.271	0.571	0.0	33.1	33.1	164.3	Flood Risk
720 min Winter	31.223	0.523	0.0	31.4	31.4	150.7	Flood Risk
960 min Winter	31.121	0.421	0.0	27.6	27.6	121.4	O K
1440 min Winter	30.998	0.298	0.0	22.2	22.2	85.8	O K
2160 min Winter	30.911	0.211	0.0	17.2	17.2	60.8	O K
2880 min Winter	30.880	0.180	0.0	13.7	13.7	51.9	O K
4320 min Winter	30.850	0.150	0.0	10.3	10.3	43.1	O K
5760 min Winter	30.832	0.132	0.0	8.4	8.4	37.9	O K
7200 min Winter	30.820	0.120	0.0	7.1	7.1	34.5	O K
8640 min Winter	30.809	0.109	0.0	6.2	6.2	31.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
7200 min Summer	1.720	0.0	1170.2	3672			
8640 min Summer	1.504	0.0	1222.0	4408			
10080 min Summer	1.343	0.0	1266.3	5136			
15 min Winter	167.069	0.0	232.2	28			
30 min Winter	102.772	0.0	289.2	38			
60 min Winter	63.219	0.0	360.5	60			
120 min Winter	38.889	0.0	446.6	96			
180 min Winter	29.268	0.0	505.7	134			
240 min Winter	23.922	0.0	552.2	170			
360 min Winter	18.004	0.0	624.7	238			
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<p align="center"><u>Cascade Model Details for pp6.SRCX</u></p> <p align="center">Storage is Online Cover Level (m) 31.500</p> <p align="center"><u>Porous Car Park Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>8.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>120.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>266.7</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>30.700</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table> <p align="center"><u>Orifice Outflow Control</u></p> <p align="center">Diameter (m) 0.150 Discharge Coefficient 0.600 Invert Level (m) 30.700</p>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.0	Membrane Percolation (mm/hr)	1000	Length (m)	120.0	Max Percolation (l/s)	266.7	Slope (1:X)	0.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	30.700	Membrane Depth (m)	0
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Date 22/06/2026 16:51 File cas.CASX		Designed by Chris Checked by					
Causeway		Source Control 2019.1					
Cascade Summary of Results for pp6.SRCX							
Upstream Outflow To Overflow To Structures							
pp5.SRCX basin.SRCX (None)							
pp4.SRCX							
pp4 a.SRCX							
pp3.SRCX							
Half Drain Time : 60 minutes.							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	31.176	0.476	0.0	29.7	29.7	137.0	O K
30 min Summer	31.285	0.585	0.0	33.5	33.5	168.4	Flood Risk
60 min Summer	31.391	0.691	0.0	36.9	36.9	199.0	Flood Risk
120 min Summer	31.448	0.748	0.0	38.5	38.5	215.5	Flood Risk
180 min Summer	31.469	0.769	0.0	39.1	39.1	221.5	Flood Risk
240 min Summer	31.471	0.771	0.0	39.2	39.2	222.1	Flood Risk
360 min Summer	31.447	0.747	0.0	38.5	38.5	215.2	Flood Risk
480 min Summer	31.409	0.709	0.0	37.4	37.4	204.1	Flood Risk
600 min Summer	31.368	0.668	0.0	36.2	36.2	192.5	Flood Risk
720 min Summer	31.330	0.630	0.0	35.0	35.0	181.6	Flood Risk
960 min Summer	31.235	0.535	0.0	31.8	31.8	154.0	Flood Risk
1440 min Summer	31.108	0.408	0.0	27.1	27.1	117.5	O K
2160 min Summer	31.000	0.300	0.0	22.3	22.3	86.3	O K
2880 min Summer	30.939	0.239	0.0	19.0	19.0	68.9	O K
4320 min Summer	30.895	0.195	0.0	15.3	15.3	56.1	O K
5760 min Summer	30.871	0.171	0.0	12.7	12.7	49.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
15 min Summer	167.069	0.0	232.2	28			
30 min Summer	102.772	0.0	289.2	38			
60 min Summer	63.219	0.0	360.5	62			
120 min Summer	38.889	0.0	446.6	94			
180 min Summer	29.268	0.0	505.7	126			
240 min Summer	23.922	0.0	552.2	160			
360 min Summer	18.004	0.0	624.7	226			
480 min Summer	14.716	0.0	681.6	290			
600 min Summer	12.585	0.0	729.2	356			
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7200 min Summer	30.856	0.156	0.0	11.0	11.0	44.8	O K
8640 min Summer	30.843	0.143	0.0	9.6	9.6	41.3	O K
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Return Period (years)	100	D3 (1km)	0.379	Cv (Winter)	1.000																																							
FEH Rainfall Version	1999	E (1km)	0.310	Shortest Storm (mins)	15																																							
Site Location		F (1km)	2.349	Longest Storm (mins)	10080																																							
C (1km)	-0.025	Summer Storms	Yes	Climate Change %	+45																																							
D1 (1km)	0.414	Winter Storms	Yes																																									
Time (mins)	Area																																											
From:	To: (ha)																																											
0	4 0.201																																											
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DHA Transport Ltd		Page 5																								
Eclipse House Sittingbourne Road Maidstone ME14 3EN	Porous pavement 6																									
Date 22/06/2026 16:51	Designed by Chris																									
File cas.CASX	Checked by																									
Causeway		Source Control 2019.1																								
<p align="center"><u>Cascade Model Details for pp6.SRCX</u></p> <p align="center">Storage is Online Cover Level (m) 31.500</p> <p align="center"><u>Porous Car Park Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Width (m)</td> <td>8.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>120.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>266.7</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>30.700</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table> <p align="center"><u>Orifice Outflow Control</u></p> <p align="center">Diameter (m) 0.150 Discharge Coefficient 0.600 Invert Level (m) 30.700</p>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	8.0	Membrane Percolation (mm/hr)	1000	Length (m)	120.0	Max Percolation (l/s)	266.7	Slope (1:X)	0.0	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	30.700	Membrane Depth (m)	0
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