



RIDGE

CRABBET PARK, OFFICE TO RESIDENTIAL

**ADDITIONAL INFORMATION TO
DISCHARGE PLANNING CONDITION 3**

AUGUST 2026

CRABBET PARK, OFFICE TO RESIDENTIAL

5033004-RDG-XX-XX-T-C-300002

Prepared for

Steel Frame Systems Ltd
Crabbet Park,
Turners Hill Road
Crawley
RH10 4ST

Prepared by

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VERSION CONTROL

[illegible]

1. AIM

The purpose of this statement is to provide additional information to address the responses to discharge of Planning Condition 3 contained within further information request planning application DM/26/0846 dated 30th April 2026.

The document is a supplementary technical note that should be read in conjunction with the original discharge of planning condition 3 report 5033004-RDG-XX-XX-T-C-300001 found within **Appendix A**.

2. ADDITIONAL INFORMATION FOR PLANNING CONDITION 3

The flood risk and drainage team have reviewed the submitted information and have the following comments: 'It is proposed for surface water to discharge into an existing surface water sewer via filter trench drains. It is proposed for foul water to discharge into an existing foul water sewer.

- 1. The discharge rate should be set as close as reasonably practicable to the greenfield runoff rate for the contributing site area being attenuated.*
- 2. Correspondence with the Water Authority is required to confirm the acceptability of both the surface water and foul water proposals. We would suggest that Thames Water are consulted on this application, we cannot access any information as to whether they have been at this stage.*
- 3. Design exceedance flow routes should be clearly shown on the proposed drainage layout.*
- 4. A management and maintenance plan should be provided.*
- 5. An allowance of 10% urban creep should be applied within the drainage calculations.*
- 6. Details should be provided to demonstrate that adequate water quality treatment is being achieved, in accordance with the CIRIA SuDS Manual.*

3. RIDGE RESPONSE

1: The discharge rate should be set as close as reasonably practicable to the greenfield runoff rate for the contributing site area being attenuated.

In accordance with CIRIA SuDS Manual, the minimum orifice size for filtration-based drainage systems should be 20mm to reduce risk of blockages. The original proposal incorporated a 25mm orifice which we have reduced to 23mm with the surface water hydraulic model updated. This is the lowest possible rate of surface water discharge for the scheme that has no flooding for all rainfall events including the 1 in 100 year + 40%cc storm event. A breakdown of the proposed flow against existing can be summarised in Table 1 and the below ground drainage strategy drawing in **Appendix B**.

Table 1 – Existing & Proposed Surface Water Flow Rates

	1 IN 2 YEAR	1 IN 30 YEAR	1 IN 100 YEAR	1 IN 100 YEAR +40% CC
Existing SW Flow Rate (l/s)	3.5	7.9	10.1	13.6
Proposed SW Flow Rate (l/s)	0.6	0.8	0.9	1.1
Greenfield Runoff Rate (l/s)	0.1	0.3	0.4	-

2: Correspondence with the Water Authority is required to confirm the acceptability of both the surface water and foul water proposals. We would suggest that Thames Water are consulted on this application, we cannot access any information as to whether they have been at this stage.

The existing property currently drains into separate Thames Water foul and surface water assets. The proposed drainage strategy follows the same design philosophy and therefore would not typically require consultation with Thames Water as there is no increase in FW load from the property. In addition Thames Water recommends that pre-planning enquiries are only considered for developments that consist of 10 or more properties.

3: Design exceedance flow routes should be clearly shown on the proposed drainage layout.

Exceedance flow paths have been added onto the proposed drainage strategy drawing – refer to the below ground drainage strategy in **Appendix B**.

4: A management and maintenance plan should be provided.

4. MAINTENANCE PLAN

All below ground drainage systems require regular maintenance to ensure they operate correctly. The drainage networks should be regularly inspected for blockages and cleared of unwanted debris/silt which will ensure performance and decrease the likelihood of future repairs.

This schedule details the following:

- Maintenance requirements and a suggested maintenance record.
- Explanation of the consequences of not carrying out the maintenance that is specified.
- Identification of areas where certain activities are prohibited (for example stockpiling materials on pervious surfaces).
- An action plan for dealing with accidental spillages

4.1. Responsibilities

During the construction phase of the development, the contractor is responsible for protecting the drainage system and undertaking any maintenance as needed.

Post construction, the dwelling owner has responsibility for ensuring the below ground drainage system is maintained.

Any new drainage associated with the development will remain within private ownership.

4.2. Health and Safety

To comply with the Construction (Design and Management) Regulations (CDM) 2015, designers must assess all foreseeable risks during construction and maintenance and the designer must minimise them by the following (in order of preference):

1. Avoid.
2. Reduce.
3. Identify and mitigate residual risks.

4.3. Operation and Maintenance Plan

4.3.1. Construction Phase

Appropriate measures shall be taken to protect the surface water drainage system during construction and surface water runoff. These measures shall be developed by the contractor, but as a minimum shall include:

- All foul water and surface water drains downstream of the site works as well as the relevant water authority will be identified.
- Underground services will be investigated and identified to avoid damage to them.
- All containers and tanks will have clear notices of their contents and how to handle them.
- Stockpiled material will be protected to reduce rainwater infiltration.
- Materials shall not be stockpiled over permeable paving unless a suitable temporary membrane is provided to ensure materials do not block voids in the paving construction.
- In the event of a spillage, Health and safety consideration are a priority and addressing accidental spillages should only be attempted if the nature of the spillage is known and any potential hazardous properties understood. The source of the spillage should be stopped, with excess surface spillage removed by suction tank or absorption matts. Silt traps and sumps should be emptied by suction tanker. Any areas of affected permeable paving should have the surface and laying course removed with the surfacing blocks cleaned and re-laid on new bedding material. Heavy pollution of the subbase will require removal and replacement of the sub-base.
- Heavy loads shall not be permitted in areas where cellular storage crates are located.
- All works should be constructed in accordance with Best Practice, British Standards and CIRIA documents C753 and C768.

4.4. Operational Phase

There are four categories for maintenance activities:

1. Regular maintenance.
2. Occasional maintenance.
3. Remedial maintenance.
4. Monitoring

Regular maintenance consists of basic tasks done on a frequent schedule, including vegetation management, litter and debris removal, and inspections.

Occasional maintenance comprises tasks that are likely to be required periodically, but on a less frequent basis than the regular tasks (e.g. sediment removal or filter replacement).

Remedial maintenance describes the intermittent tasks that may be required to rectify faults associated with the system, although the likelihood of faults can be minimised by good design, construction and regular maintenance activities. Where remedial work is found to be necessary, it is likely to be due to site-specific characteristics or unforeseen events, and so timings are difficult to predict. Remedial maintenance can comprise activities such as:

- inlet/outlet repairs
- erosion repairs
- reinstatement or realignment of edgings, barriers, rip-rap or other erosion control
- infiltration surface rehabilitation
- replacement of blocked filter fabrics

- construction stage sediment removal (although this activity should have been undertaken before the start of the maintenance contract)
- system rehabilitation immediately following a pollution event.

It is important to note that these remedial activities will not be required for all systems, but for the purpose of estimating whole life maintenance costs, a contingency sum of 15-20% should be added to the annual regular and occasional maintenance costs to cover the risk of these activities being required. Table 32.1 of the CIRIA SuDS Manual (C753), indicates typical key SuDS components operation and maintenance activities as shown below in Figure 1.

Monitoring consists of inspection only to assess performance.

TABLE 32.1 Typical key SuDS components operation and maintenance activities (for full specifications, see Chapters 11–23)													
Operation and maintenance activity	SuDS component												
	Pond	Wetland	Detention basin	Infiltration basin	Soakaway	Infiltration trench	Filter drain	Modular storage	Pervious pavement	Swale/bioretention/trees	Filter strip	Green roofs	Proprietary treatment systems
Regular maintenance													
Inspection	■	■	■	■	■	■	■	■	■	■	■	■	■
Litter and debris removal	■	■	■	■	□	■	■	□	■	■	■		□
Grass cutting	■	■	■	■	□	■	■	□	□	■	■		
Weed and invasive plant control	□	□	□	□		□	□		□		□	■	
Shrub management (including pruning)	□	□	□	□					□	□	□		
Shoreline vegetation management	■	■	□										
Aquatic vegetation management	■	■	□										
Occasional maintenance													
Sediment management ¹	■	■	■	■	■	■	■	■	■	■	■		■
Vegetation replacement	□	□	□	□						□	□	■	
Vacuum sweeping and brushing									■				
Remedial maintenance													
Structure rehabilitation /repair	□	□	□	□	□	□	□	□	□	□	□	□	
Infiltration surface reconditioning				□	□	□	□		□	□	□		

Key
 ■ will be required
 □ may be required

Notes
 1 Sediment should be collected and managed in pre-treatment systems, upstream of the main device.

Figure 1 – Extract of Table 32.1 from the SuDS Manual

4.4.1. Filter Trench Drains

Regular inspection and maintenance are required to ensure continuing operation to design performance standards. The treatment performance is dependent on maintenance and robust management plans will be required to ensure that maintenance is carried out in the long term.

The maintenance requirements for filter trench drains are described in Table 2. Specific maintenance needs of the system should be monitored, and maintenance schedules adjusted to suit requirements.

Table 2 – Maintenance requirements for Filter Trench Drains

MAINTENANCE SCHEDULE	REQUIRED ACTIONS	FREQUENCY
Regular maintenance	Remove litter (including leaf litter) and debris from filter drain surface, access chambers and pre-treatment devices	Monthly (or as required)
	Inspect filter drain surface, inlet/outlet pipework and control systems for blockages, clogging, standing water and structural damage	Monthly
	Inspect pre-treatment systems, inlets and perforated pipework for silt accumulation and establish appropriate silt removal frequencies	Six monthly
	Remove sediment from pre-treatment devices	Six monthly, or as required
Occasional maintenance	Remove or control tree roots where they are encroaching the sides of the filter drain, using recommended methods (eg NJUG, 2007 or BS 3998:2020)	As required
	At locations with high pollution loads, remove surface geotextile and replace, and wash or replace overlying filter medium	Five yearly, or as required
	Clear perforated pipework of blockages	As required

4.4.2. Drainage pipes, manholes and silt traps

Inspect manholes and silt traps for build-up of silt and general debris once a year; preferably after leaf fall in the autumn. If silt/debris is building up, then clean with jetting lorry / gully sucker and inspect pipe – repeat cleaning if required. If the pipes to be jetted are plastic, then a high flow, low pressure setting should be used so that the pipes are not damaged.

5: An allowance of 10% urban creep should be applied within the drainage calculations.

The surface water hydraulic model has been developed to incorporate a 10% urban creep factor – refer to proposed surface water drainage calculations in **Appendix C**.

6: Details should be provided to demonstrate that adequate water quality treatment is being achieved, in accordance with the CIRIA SuDS Manual.

Proposed surface and foul water drainage details have been developed in line with the original design principles produced by Cannon Consulting Engineers dated in August 2025. The proposed SuDS features have been designed in accordance with CIRIA SuDS Manual and provide adequate levels of water quality treatment for the proposed development.

5. CONCLUSION

The technical note specified above addresses the further information requested by Mid Sussex District Council to discharge condition 3 as part of the original planning application DM25/1023 dated 10th November 2025.

**APPENDIX A – 5033004-RDG-XX-XX-T-C-300001-DISCHARGE OF PLANNING
CONDITION 3**



RIDGE

CRABBET PARK, OFFICE TO RESIDENTIAL

RESPONSE TO PLANNING CONDITION 3

MARCH 2026

CRABBET PARK, OFFICE TO RESIDENTIAL

5033004-RDG-XX-XX-T-C-300001

Prepared for

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VERSION CONTROL

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1. AIM

The purpose of this statement is to provide information to enable the discharge of Planning Condition 3 contained within decision notice granted 10th November 2025 against planning application DM/25/1023.

2. PLANNING CONDITION 3

The development hereby permitted shall not commence, with the exception of demolition of the existing building, unless and until details of the proposed foul and surface water drainage and means of disposal have been submitted to and approved in writing by the local planning authority. The building shall not be occupied or brought into use, until all the approved drainage works have been carried out in accordance with the agreed details.

Reason: To ensure that the proposal is satisfactorily drained and to accord with Policy DP41 of the Mid Sussex District Council Plan 2014-2031 and the requirements of the NPPF.

3. RIDGE RESPONSE

The proposed surface water and foul drainage details have been developed in line with the information submitted with the planning application produced by Cannon Consulting Engineers referenced CCE/ZG181/FRA-02 for the demolition of the existing site office and construction of a single dwelling and associated works.

The general approach is to collect surface and foul water via two separate below ground drainage systems as outlined in the following sections of the report.

3.1. Proposed Surface Water Drainage

The surface water scheme has been designed in accordance with the surface water hierarchy.

1. Discharge to ground
2. Discharge to watercourse
3. Discharge to surface water sewer
4. Discharge to combined water sewer

Discharge of surface water via infiltration was explored but testing undertaken (in accordance with BRE365) showed all tests to failed – refer to Appendix A. There is no watercourse near to the proposed house, however there is an existing surface water drain within the proposed garden.

Even though the scheme is a minor development, Sustainable Drainage (SuDS) are proposed to be incorporated as per the scheme submitted with the planning application. Rainwater will be collected from the proposed building via a series of rainwater downpipes to the northern and southern elevation of the building. The downpipes for the northern elevation of the building will connect into two filter trench drains which will run east to south-west and discharge into an existing chamber (EX_S7) via a 25mm orifice plate outlet. The southern elevation drains into a separate filter trench drain which connect back onto the proposed surface water drainage network. Proposed external hardstanding and parking areas are also to drain via the proposed filter trench drains and connect into the main drainage network.

The proposed drained area breakdown can be summarised in Table 1 and shown Figure 1.

Table 1 – Proposed Area Breakdown

CONTRIBUTING AREA	AREA (M ²)
Building roof (yellow)	77
Filter Trench Drains (green/brown)	32
Parking & hardstanding areas (orange)	71
Total Area	180

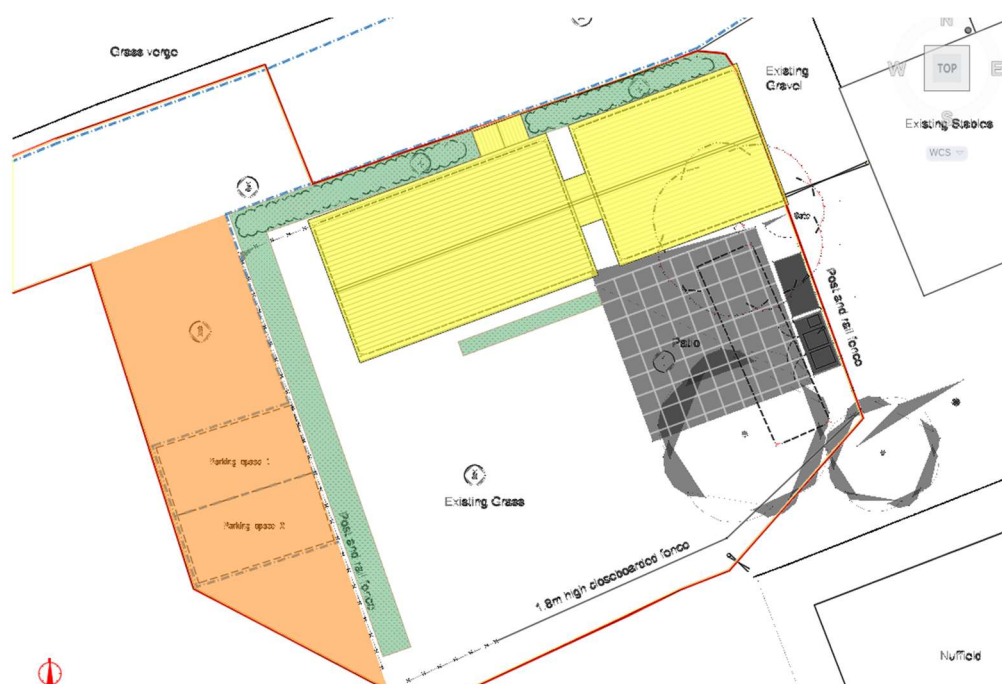


Figure 1 – Proposed Catchment Area Plan

The proposed surface water strategy has been modelled using InfoDrainage utilising the latest FEH rainfall data. Surface water calculations have been designed to not flood for the 1 in 2 year, 1 in 30 year, with sensitivity check for the 1 in 100 year + 40% climate change events. For full details of the surface water calculations – refer to Appendix B.

The proposed surface water drainage network will comprise of the following structures:

- 3 no. filter trench drains with dimensions specified in the proposed drainage strategy drawing and surface water calculations
- 3 no. 150mmDIA perforated underdrains
- 150mmDIA piped connections from filter trench drains
- Discharge into existing surface water network via chamber EX_S7

3.2. Proposed Foul Water Drainage

Foul water drainage from the new single dwelling is proposed to be collected below ground in a northern direction and connect onto an existing foul water chamber (EX_MH6). Refer to the proposed drainage strategy and installation details in Appendix C.

4. CONCLUSION

The below ground drainage specified above has followed the principles as outlined in the flood risk and drainage strategy produced by Cannon Consulting Engineers dated August 2025. Surface water is designed to discharge via SuDS into an existing surface water drain to the south of the house and foul water is designed to discharge into the foul drain to the north of the house.

APPENDIX A – INFILTRATION TEST RESULTS

Our Ref: 9942,SK,Ltr01,TA,JK,V1

Peacock 5 Ltd
314 Hayling Road
South Oxhey
WD19 7QB

15 December 2025

By Email

INFILTRATION TESTING AT CRABET PARK EQUESTRIAN CENTRE, CRAWLEY, RH10 4SW

1. INTRODUCTION

This letter report has been prepared on behalf of DHA Planning for the client Peacock 5 Ltd.

The primary objective of this ground investigation was to assess the infiltration potential of the natural soils beneath the site.

This was achieved by:

- Excavating a number of machine-dug trial pits across the site.
- Undertaking soakage testing in line with BRE Digest 365 guidance.
- Undertaking infiltration calculations to allow for an assessment of the suitability of soakaways or infiltration techniques for the future development of the site.

It is understood that the proposed development will comprise a residential housing development.

The purpose of this letter report is to provide factual data only.

GEOSPHERE ENVIRONMENTAL LTD

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2. SITE WORKS

2.1 Methodology

This ground investigation was carried out on the basis of the practices set out in BRE Digest 365, 'Soakaway Design'. 2016, which requires, in summary, a total of three infiltration tests to be undertaken in succession over a 24-hour period or tests to be undertaken on consecutive days.

The exploratory holes were positioned at Client supplied locations.

In general, where a test location showed limited or no infiltration, it was allowed to continue for circa 24 hours, the data obtained, and the test ceased. Where a test exhibited appreciable infiltration and the "75%" infiltration level was achieved, a further infiltration "run", or more was undertaken.

2.2 Scope

Site works were carried out on 27 October 2025, and comprised the following:

- Excavation of four machine excavated trial pits, (TP1 to TP4), all to a depth of 2.00m below ground level (bgl).
- Undertaking infiltration testing in line with BRE Digest 365 guidance.
- Undertaking infiltration calculations to allow for an assessment of the suitability of soakaways for the future development of the site.

A Site Plan, Drawing ref. 9942,SK,001,Rev0, detailing the exploratory hole locations is presented at the end of this letter report in Appendix 4.

2.3 Ground Conditions Encountered

The sequence of the strata encountered during the investigation generally disagrees with the anticipated geology as interpreted from geological mapping.

The sequence and indicative thickness of strata are summarised in Table 1 overleaf, with the Exploratory Hole Logs provided in Appendix 2.

Table 1 – Ground Conditions

Strata	Depth Encountered (mbgl)		Strata Thickness (m)	Location and Composition
	From	To		
Made Gound	0.00	0.10 - 0.40	0.10 - 0.40	TP01: Greyish brown sandy gravelly clay. Gravel of flint, chert, brick, glass, plastics and fabric. TP02, TP03, & TP04: Granular fill.
Granular Soils	0.20	0.40	0.20	TP01: Dark brown gravelly fine sand. Gravel of flint and chert.
Cohesive Soils	0.10 – 0.40	1.90 - 2.00	Unproven	All exploratory holes: Orange mottled brown / grey slightly silty clay.

2.4 Groundwater

Water was observed seeping into TP01 at 1.60mbg and TP02 and TP04 at 1.90mbgl. No water was encountered at TP03. Based on the ground conditions across the site, it has been inferred that the majority, if not all, of these water strikes were in pockets of perched water within the predominantly cohesive underlying soils.

2.5 Infiltration Testing Results

Soil infiltration testing was undertaken in accordance with BRE 365, 2016. The results are summarised in Table 2 below and are provided in full in Appendix 3, presented at the end of this letter report:

Table 2 – Summary of Soil Infiltration Results

Location	Test 1 (m/s)	Test 2 (m/s)	Test 3 (m/s)	Notes
SK1	Failed	n/a	n/a	After 24hrs of testing, infiltration did not reach 75%. Testing ceased at this point under prior agreement with Client.
SK2	Failed	n/a	n/a	After 24hrs of testing, infiltration did not reach 75%. Testing ceased at this point under prior agreement with Client.
SK3	Failed	n/a	n/a	After 24hrs of testing, infiltration did not reach 75%. Testing ceased at this point under prior agreement with Client.
SK4	Failed	n/a	n/a	After 24hrs of testing, infiltration did not reach 75%. Testing ceased at this point under prior agreement with Client.

We trust the above is clear and acceptable. If you have any questions, please do not hesitate to contact us.

Yours sincerely

Tilly Aldis

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Director

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Enclosures:

Appendix 1 – Report Limitations and Conditions

Appendix 2 – Exploratory Hole Logs

Appendix 3 – Infiltration Test Results

Appendix 4 – Drawings

APPENDICES

Appendix 1 – Report Limitations and Conditions

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report has been prepared for the sole use of the Client for the purposes described and no extended duty of care to any third party is implied or offered. Third parties using any information contained within this report do so at their own risk.

This report is prepared and written for the use stated herein; it should not be used for any other purposes without reference to Geosphere Environmental Limited. The report has been prepared in relation to the proposed end-use, should another end-use be intended, a further re-assessment may be required. It is likely that over time practises will improve and the relevant guidance and legislation be amended or superseded, which may necessitate a re-assessment of the site.

The accuracy of any map extracts cannot be guaranteed. It is possible that different conditions existed on site, between and subsequent to the various map surveys appended.

Whilst the report may express an opinion on possible configurations of strata between or beyond exploratory holes discussed or on the possible presence of features based on visual, verbal or published evidence, this is for guidance only and no liability can be accepted for its accuracy.

Appendix 2 – Exploratory Hole Logs

Trial Pit Logs
(TP1 – TP4)



Location: Crabbet Park, Crawley

27/10/2025

Project ID: 9942 SK

TP ID: TP1

Sheet 1 of 2



From:		To:	Geology Description	Legend	Samples					
0.00	0.20		MADE GROUND (Greyish brown slightly sandy slightly gravelly CLAY. Sand is fine. Gravel is composed of sub-angular to sub-rounded fine to medium flint and chert with brick fragments, fabric, plastics and glass)		Type/#	Depth (m)		Water (m)	Notes	
						From	To			
0.20	0.40		Dark brown slightly gravelly fine to medium SAND. Gravel is composed of sub-angular to sub-rounded fine to medium flint and chert.							
0.40	1.95		Stiff to very stiff orangish grey slightly silty CLAY.							

From:		To:	Detail Description	Shear Vane Tests						
				#	ID	Depth (m)	Test Type	Vane Size	Notes	

Weather Details		Preliminary Information	
Mostly Sunny & Dry	Pit set out by:	Client	
	CAT Sweep:	OK	
	Excavation Type:	Mini Digger	
Groundwater		Trialpit Information (m)	
Time Struck:	00:00	Pit Length (m):	1.70
Depth Struck:	1.60	Pit Depth (m):	1.95
Inflow Rate:	Slow	Pit Width (m):	0.35
Depth after 5 mins:		Continued/complete at:	
Depth after 10 mins:		Pit sides:	Stable
Depth after 15 mins:		Slight instability in/at:	
Depth after 20 mins:		Collapsed completely in/at:	
Comments / Standing Time / Dayworks			

Completed Totals for Trialpit									
Depth (m)	D	B	ES	WS				SV	
1.95	0	0	0	0				0	
Backfill / Standpipe Details									
#1: 0.63mm pipe to 2m (2m slotted)									
No Cover									
Backfill (top to bottom): Arisings/Spoil (1.30m), Gravel (0.65m)									
Personnel Details									
Operative:	Tilly Aldis								
CSCS:									
Site Engineer:									

Geosphere Environmental Ltd Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10 0BJ. Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk						 CREATED WITH DRILLITLOGS.COM			
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Total Standing Time:		Total Dayworks:	
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Geosphere Environmental Ltd

Daily Trialpit Record

Location: Crabbet Park, Crawley

Project ID: 9942_SK

TP ID: TP1



9942_SK-TP01

27/10/2025

Sheet 2 of 2

Height of Standpipe #1
above GL: 1.00m

Arisings/Spoil
(0.00m - 1.30m)

Gravel
(1.30m - 1.95m)

Base of Slotted Pipe

1.95m

Installation Details

Standpipe #1

Standpipe diameter: 0.63mm

Height above GL: 1.00m

Standpipe solid: 0.00m

Standpipe slotted: 2.00m

Standpipe slotted zone: 0.00m - 2.00m

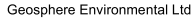
Geosock: No

Gas Tap: No

Cover

Cover Type: No Cover

Cover Size:



27/10/2025

Sheet 1 of 2

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Groundwater		Trialpit Information (m)		Backfill / Standpipe Details	
Time Struck:	00:00	Pit Length (m):	1.70	#1: 0.63mm pipe to 2m (1m solid & 1m slotted)	
Depth Struck:	1.90	Pit Depth (m):	1.90		
Inflow Rate:	Slow	Pit Width (m):	0.35	No Cover	
Depth after 5 mins:		Continued/complete at:		Backfill (top to bottom): Arisings/Spoil (1.45m), Gravel (0.45m)	
Depth after 10 mins:		Pit sides:	Stable		
Depth after 15 mins:		Slight instability in/at:		Personnel Details	
Depth after 20 mins:		Collapsed completely in/at:		Operative:	Tilly Aldis

Site Engineer:

Total Dayworks:

CREATED WITH
DRILLIT LOGS
DRILLITLOGS.COM



Geosphere Environmental Ltd

Daily Trialpit Record

Location: Crabbet Park, Crawley

Project ID: 9942_SK

TP ID: TP2



9942_SK-TP2

27/10/2025

Sheet 2 of 2

Height of Standpipe #1
above GL: 1.00m

Arisings/Spoil
(0.00m - 1.45m)

Base of Solid Pipe
#1
(1.00m)

Gravel
(1.45m - 1.90m)

1.90m

Installation Details

Standpipe #1

Standpipe diameter: 0.63mm

Height above GL: 1.00m

Standpipe solid: 1.00m

Standpipe slotted: 1.00m

Standpipe slotted zone: 1.00m - 2.00m

Geosock: No

Gas Tap: No

Cover

Cover Type: No Cover

Cover Size:



27/10/2025

TP ID: TP3

Sheet 1 of 2

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	Geosphere Environmental Ltd Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10 0BJ. Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk	
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Total Dayworks:

Geosphere Environmental Ltd
Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10
0BJ.
Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk





Geosphere Environmental Ltd

Daily Trialpit Record

Location: Crabbet Park, Crawley

Project ID: 9942_SK

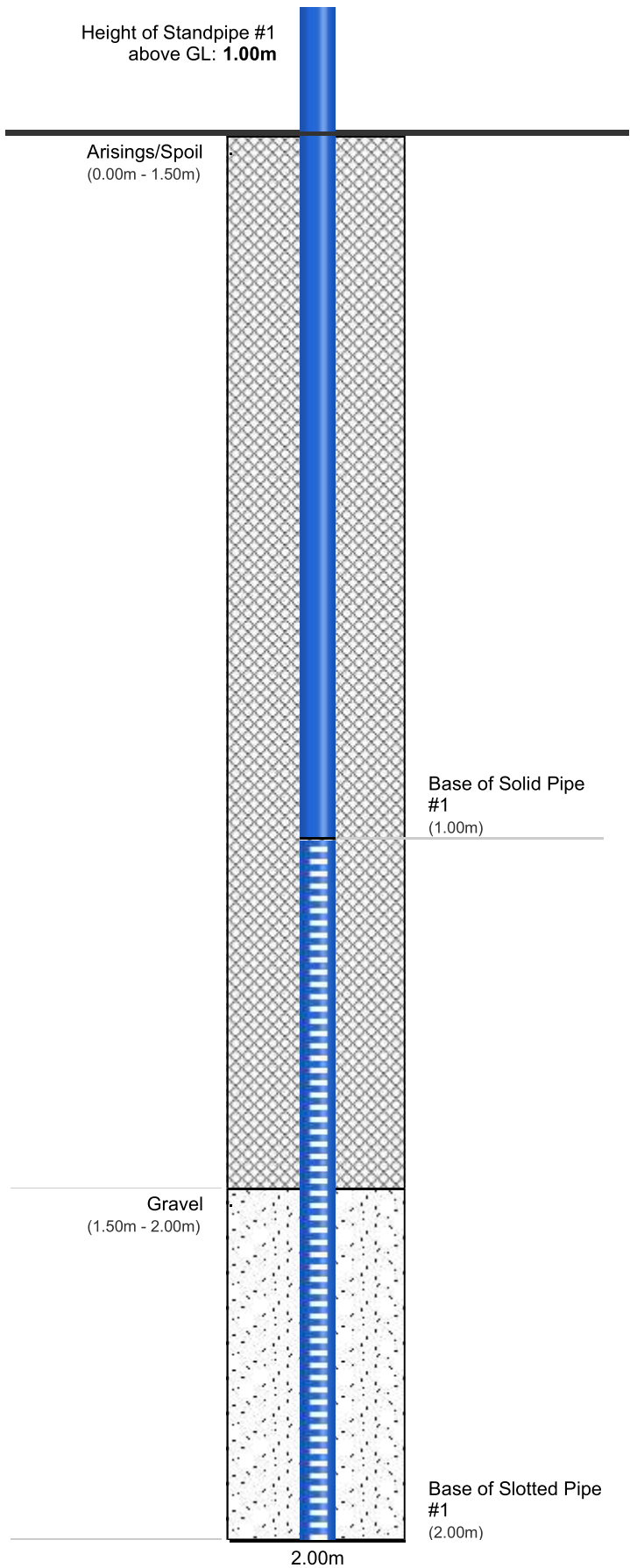
TP ID: TP3



9942_SK-TP3

27/10/2025

Sheet 2 of 2



Installation Details	
Standpipe #1	
Standpipe diameter:	0.63mm
Height above GL:	1.00m
Standpipe solid:	1.00m
Standpipe slotted:	1.00m
Standpipe slotted zone:	1.00m - 2.00m
Geosock:	No
Gas Tap:	No
Cover	
Cover Type:	No Cover
Cover Size:	



Location: Crabbet Park, Crawley

27/10/2025



Project ID: 9942 SK

TP ID: TP4

Sheet 1 of 2

[illegible]

Preliminary Information



Pit set out by:	Client
-----------------	--------

CAT Sweep:	OK
------------	----

Excavation Type:	Mini Digger
------------------	-------------

Completed Totals for Trialpit

Depth (m)	D	B	ES	WS				SV	
1.90	0	0	0	0				0	

Groundwater

Trialpit Information (m)

Time Struck: 00:00

Pit Length (m):	1.50
-----------------	------

Depth Struck: 1.90

Pit Depth (m):	1.90
----------------	------

Inflow Rate: Slow

Pit Width (m):	0.35
----------------	------

Inflow Rate: Slow

Pit Width (m):	0.35
----------------	------

Depth after 5 mins:

Continued/complete at:

Depth after 10 mins:

Pit sides:

Depth after 15 mins:

Slight instability in/at:

Depth after 20 mins:

Collapsed completely in/at:

Comments / Standing Time / Dayworks

Personnel Details

Operative:	Tilly Aldis
------------	-------------

CSCS:

Site Engineer:

Geosphere Environmental Ltd
Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10
0BJ.
Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk



Total Standing Time:

Total Dayworks:



Geosphere Environmental Ltd

Daily Trialpit Record

Location: Crabbet Park, Crawley

Project ID: 9942_SK

TP ID: TP4



9942_SK-TP4

27/10/2025

Sheet 2 of 2

Height of Standpipe #1
above GL: 1.00m

Base of Solid Pipe
#1
(1.00m)

1.90m

Installation Details

Standpipe #1

Standpipe diameter: 0.63mm

Height above GL: 1.00m

Standpipe solid: 1.00m

Standpipe slotted: 1.00m

Standpipe slotted zone: 1.00m - 2.00m

Geosock: No

Gas Tap: No

Cover

Cover Type: No Cover

Cover Size:

Appendix 3 – Infiltration Test Results



Geosphere Environmental Ltd

Soakaway Record

Location: Crabbet Park, Crawley

27/10/2025

Project ID: 9942_SK

SA ID: SK1

Sheet 1 of 1



Pit Details

Length of pit (m):	1.70	Depth of pit (mbgl):	1.95	Depth of standpipe (mbgl):	2.00	Gravel Backfill?	Yes
Width of pit (m):	0.35	Height of standpipe (m):	1.15	Weather Conditions:	Mostly Sunny & Dry		

RUN 1

Start Time:

27/10/2025 13:05:34

#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1	00:00:00	1.400	16		
2	00:01:08	1.400	17		
3	00:02:02	1.400	18		
4	00:03:01	1.400	19		
5	00:04:06	1.400	20		
6	00:05:10	1.400	21		
7	00:10:03	1.400	22		
8	00:21:04	1.380	23		
9	00:54:25	1.350	24		
10	20:15:34	0.850	25		
11	24:00:00	0.850	26		
12			27		
13			28		
14			29		
15			30		

RUN 2

Start Time:

...

#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

RUN 3

Start Time:

...

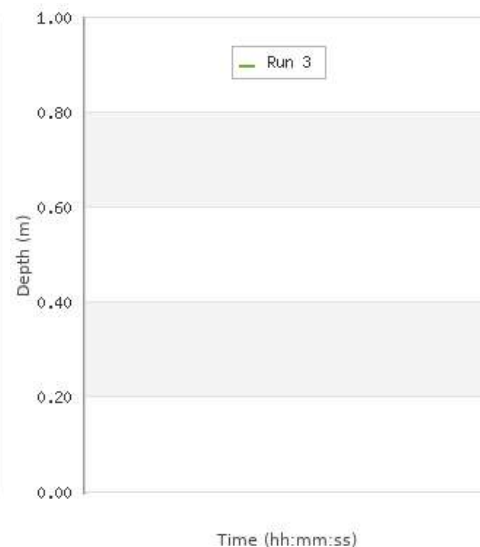
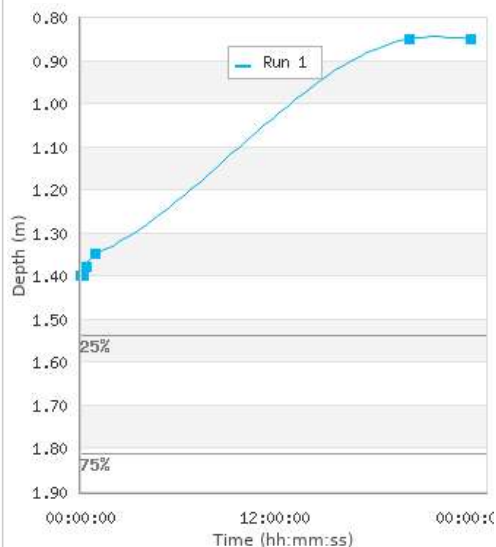
#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

h₇₅ (m): 1.813 h₂₅ (m): 1.538Active zone (m): h₇₅ - h₂₅ 0.275t₇₅ (s): t₂₅ (s):Active zone time (s): t₇₅ - t₂₅Effective volume (m³): V₇₅ - V₂₅ 0.049Effective area (m²): aP₅₀ 1.723

Insufficient data to calculate

No Data

No Data



Comments / Standing Time / Dayworks

Personnel Details

Operative: Tilly Aldis

CSCS:

Geosphere Environmental Ltd
Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10 0BJ.
Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk



Total Standing Time:

Total Dayworks:



Geosphere Environmental Ltd

Soakaway Record

Location: Crabbet Park, Crawley

27/10/2025

Project ID: 9942_SK

SA ID: SK2

Sheet 1 of 1



Pit Details

Length of pit (m):	1.70	Depth of pit (mbgl):	1.90	Depth of standpipe (mbgl):	2.00	Gravel Backfill?	Yes
Width of pit (m):	0.35	Height of standpipe (m):	1.17	Weather Conditions:	Mostly Sunny & Dry		

RUN 1

Start Time:

27/10/2025 12:24:39

#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1	00:00:00	1.300	16		
2	00:01:32	1.240	17		
3	00:02:22	1.230	18		
4	00:03:07	1.220	19		
5	00:04:05	1.220	20		
6	00:05:16	1.210	21		
7	00:09:52	1.200	22		
8	00:30:43	1.190	23		
9	00:52:34	1.170	24		
10	01:05:38	1.170	25		
11	01:33:54	1.150	26		
12	20:51:30	0.990	27		
13	24:00:00	0.990	28		
14			29		
15			30		

RUN 2

Start Time:

...

#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

RUN 3

Start Time:

...

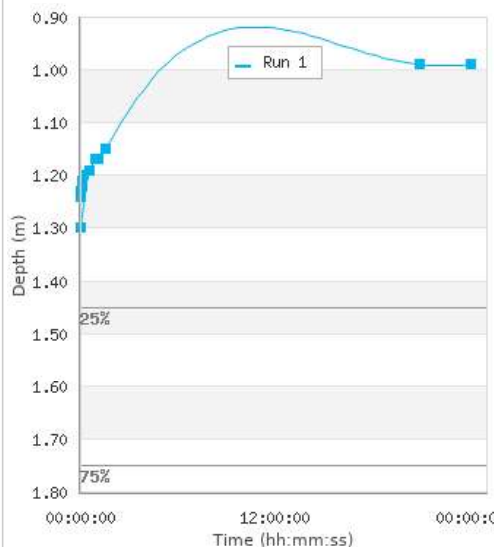
#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

h₇₅ (m): 1.750 h₂₅ (m): 1.450Active zone (m): h₇₅ - h₂₅ 0.300t₇₅ (s): t₂₅ (s):Active zone time (s): t₇₅ - t₂₅Effective volume (m³): V₇₅ - V₂₅ 0.054Effective area (m²): aP₅₀ 1.825

Insufficient data to calculate

No Data

No Data



Comments / Standing Time / Dayworks

Personnel Details

Operative: Tilly Aldis

CSCS:

Geosphere Environmental Ltd
Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10 0BJ.
Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk



Total Standing Time:

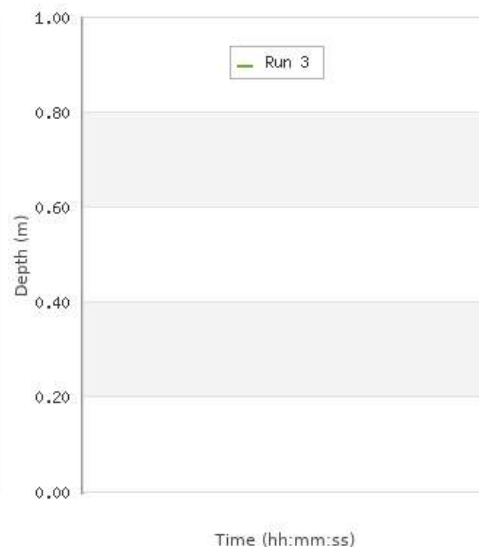
Total Dayworks:



Length of pit (m):	1.50	Depth of pit (mbgl):	2.00	Depth of standpipe (mbgl):	2.00	Gravel Backfill?	Yes
Width of pit (m):	0.35	Height of standpipe (m):	1.00	Weather Conditions:		Mostly Sunny & Dry	

RUN 3					
Start Time:					
...					
#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

No Data			

Comments / Standing Time / Dayworks

Personnel Details

Operative: Tilly Aldis

CSCS:

Geosphere Environmental Ltd
Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10 0BJ.
Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk



CREATED WITH

CREATED WITH
DRILLIT LOGS

DRILLITLOGS.COM

Total Standing Time:

Total Dayworks:



Geosphere Environmental Ltd

Soakaway Record

Location: Crabbet Park, Crawley

27/10/2025

Project ID: 9942_SK

SA ID: SK4

Sheet 1 of 1



Pit Details

Length of pit (m):	1.50	Depth of pit (mbgl):	1.90	Depth of standpipe (mbgl):	2.00	Gravel Backfill?	Yes
Width of pit (m):	0.35	Height of standpipe (m):	1.00	Weather Conditions:	Mostly Sunny & Dry		

RUN 1

Start Time:

27/10/2025 11:21:43

#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1	00:00:00	1.420	16	24:00:00	1.730
2	00:01:15	1.420	17		
3	00:02:08	1.430	18		
4	00:03:09	1.430	19		
5	00:04:04	1.430	20		
6	00:05:01	1.430	21		
7	00:10:42	1.440	22		
8	00:15:13	1.440	23		
9	00:21:24	1.460	24		
10	00:48:58	1.500	25		
11	01:15:31	1.540	26		
12	01:57:39	1.580	27		
13	02:28:35	1.610	28		
14	02:42:46	1.610	29		
15	21:50:27	1.730	30		

RUN 2

Start Time:

...

#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

RUN 3

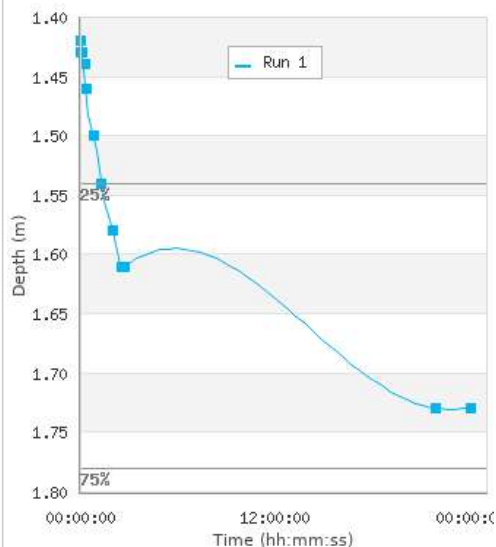
Start Time:

...

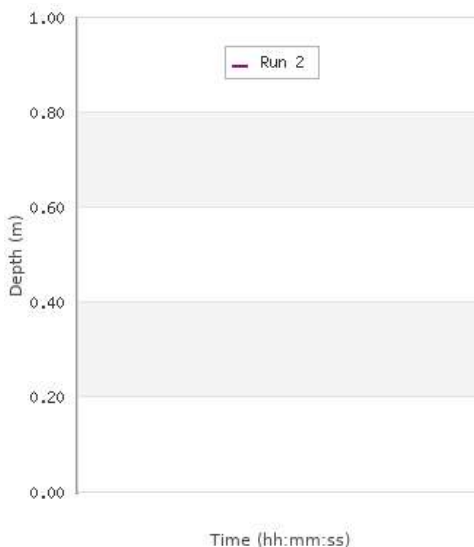
#	Time (hh:mm:ss)	Depth (m)	#	Time (hh:mm:ss)	Depth (m)
1			16		
2			17		
3			18		
4			19		
5			20		
6			21		
7			22		
8			23		
9			24		
10			25		
11			26		
12			27		
13			28		
14			29		
15			30		

h ₇₅ (m):	1.780	h ₂₅ (m):	1.540
Active zone (m):	h ₇₅ - h ₂₅		0.240
t ₇₅ (s):		t ₂₅ (s):	4531
Active zone time (s):	t ₇₅ - t ₂₅		
Effective volume (m ³):	V ₇₅ - V ₂₅		0.038
Effective area (m ²):	aP ₅₀		1.413

Insufficient data to calculate



No Data



No Data



Comments / Standing Time / Dayworks

Personnel Details

Operative: Tilly Aldis

CSCS:

Geosphere Environmental Ltd
Brightwell Barns, Ipswich Road, Brightwell, Suffolk, United Kingdom, IP10 0BJ.
Telephone: 01473 353 519 :: Email: info@geosphere-environmental.co.uk



Total Standing Time:

Total Dayworks:

Appendix 4 – Drawings

Site Plan – Drawing ref. 9942,SK,001,Rev0



Legend

- Site Boundary
- Infiltration Test Locations



GEOSPHERE ENVIRONMENTAL

Project

Crabbet Park Equestrian Centre, Crawley,
RH10 4SW

Drawing Title

Site Plan

Drawing Number

9942,SK,001,Rev0

Date

27/11/25

Author / Checked By

TA / JK

Source

Map data ©2025 Imagery ©2025 Airbus, Maxar
Technologies

APPENDIX B – PROPOSED SURFACE WATER CALCULATIONS

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 23/03/2026			
		Designed by: TW	Checked by: PCh		Approved By: PCh
Report Details: Type: Inflows Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH			



Catchment Area (1)

Type : Catchment Area

Area (ha)	0.001
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (2)

Type : Catchment Area

Area (ha)	0.001
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (3)

Type : Catchment Area

Area (ha)	0.003
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (7)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 23/03/2026			
		Designed by: TW	Checked by: PCh		Approved By: PCh
Report Details: Type: Inflows Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH			



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.001
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area

Type : Catchment Area

Area (ha)	0.004
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (4)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (8)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026			
	Designed by: TW	Checked by: PCh	Approved By: PCh	
Report Details: Type: Inflows Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			



Catchment Area (9)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Stormwater Controls Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





Filter Trench Drain

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	85.021
Depth (m)	0.801
Base Level (m)	84.220
Freeboard (mm)	191
Porosity (%)	30
Length (m)	7.367
Long. Slope (1:X)	500.00
Width (m)	0.800
Total Volume (m³)	1.170

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Outlets

Outlet

Outgoing Connection	1.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Stormwater Controls Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





Filter Trench Drain (1)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	85.230
Depth (m)	1.230
Base Level (m)	84.000
Freeboard (mm)	214
Porosity (%)	30
Length (m)	18.115
Long. Slope (1:X)	500.00
Width (m)	1.000
Total Volume (m³)	5.746

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Outlets

Outlet (1)

Outgoing Connection	1.001
Outlet Type	Orifice
Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	84.000

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026			
	Designed by: TW	Checked by: PCh	Approved By: PCh	
Report Details: Type: Stormwater Controls Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			



Filter Trench Drain (2)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	85.100
Depth (m)	0.970
Base Level (m)	84.130
Freeboard (mm)	100
Porosity (%)	30
Length (m)	5.000
Long. Slope (1:X)	400.00
Width (m)	0.600
Total Volume (m³)	0.845

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Outlets

Outlet

Outgoing Connection	2.001
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Connections Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		



Name	From	To	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)
2.002	S1	Filter Trench Drain (1)	1.801	Pipe	42.886		0.6	150
1.000	Filter Trench Drain	Filter Trench Drain (1)	2.419	Pipe	13.162		0.6	150
1.001	Filter Trench Drain (1)	EX_S7	1.325	Pipe	66.273		0.6	150
2.001	Filter Trench Drain (2)	S1	2.292	Pipe	60.318		0.6	150
2.000	S2	Filter Trench Drain (2)	1.063	Pipe	5.122		0.6	150

Name	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Velocity (m/s)
2.002	85.130	84.092	85.266	84.050		Levels		
1.000	85.036	84.220	85.266	84.036		None	0.0	
1.001	85.266	84.000	85.270	83.980		Levels	1.3	
2.001	85.113	84.130	85.130	84.092		None		
2.000	85.100	84.350	85.113	84.143		None		

Name	Culvert Type	Culvert Entrance	Wall Thickness (mm)	Material	Trench Width (mm)	Bedding Material	Surrounding Material
2.002	(None)	(None)	0		0		
1.000	(None)	(None)	0		0		
1.001	(None)	(None)	0		0		
2.001	(None)	(None)	0		0		
2.000	(None)	(None)	0		0		

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 23/03/2026			
		Designed by: TW	Checked by: PCh		Approved By: PCh
Report Details: Type: Inflow Summary Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Filter Trench Drain (1)		Time of Concentration	0.004	100	0	100	0.004
Catchment Area (1)	Filter Trench Drain (1)		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (2)	Filter Trench Drain (1)		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (3)	Filter Trench Drain (1)		Time of Concentration	0.003	100	0	100	0.003
Catchment Area (4)	Filter Trench Drain (1)		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (5)	S1		Time of Concentration	0.001	100	0	100	0.001
Catchment Area (7)	S2		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (8)	Filter Trench Drain		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (9)	S2		Time of Concentration	0.002	100	0	100	0.002
TOTAL		0.0		0.018				0.018

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026			
	Designed by: TW	Checked by: PCh	Approved By: PCh	
Report Details: Type: Outfall Details Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
EX_S7	Free Discharge			

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 2 years: +0 %: 120 mins: Summer	85.270	83.670	83.670	0.000	0.6	0.000	0.000	0.6	3.734	OK
S1	FEH: 2 years: +0 %: 60 mins: Winter	85.130	84.092	84.241	0.149	0.4	0.024	0.000	0.3	0.634	OK
S2	FEH: 2 years: +0 %: 15 mins: Summer	85.100	84.350	84.360	0.010	0.7	0.002	0.000	0.7	0.290	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 30 years: +0 %: 60 mins: Winter	85.270	83.670	83.670	0.000	0.9	0.000	0.000	0.9	5.002	OK
S1	FEH: 30 years: +0 %: 360 mins: Summer	85.130	84.092	84.431	0.339	0.4	0.054	0.000	0.5	2.724	Surcharged
S2	FEH: 30 years: +0 %: 15 mins: Summer	85.100	84.350	84.398	0.048	1.5	0.008	0.000	1.5	0.626	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 100 years: +0 %: 60 mins: Winter	85.270	83.670	83.670	0.000	1.0	0.000	0.000	1.0	5.602	OK
S1	FEH: 100 years: +0 %: 15 mins: Summer	85.130	84.092	84.471	0.379	1.6	0.060	0.000	0.6	0.380	Surcharged
S2	FEH: 100 years: +0 %: 15 mins: Summer	85.100	84.350	84.472	0.122	1.9	0.019	0.000	1.8	0.719	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 100 years: +40 %: 60 mins: Summer	85.270	83.670	83.670	0.000	1.2	0.000	0.000	1.2	6.559	OK
S1	FEH: 100 years: +40 %: 15 mins: Winter	85.130	84.092	84.623	0.531	1.3	0.084	0.000	0.8	0.389	Surcharged
S2	FEH: 100 years: +40 %: 30 mins: Summer	85.100	84.350	84.760	0.410	1.8	0.065	0.000	1.7	1.201	Surcharged

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 23/03/2026			
		Designed by: TW	Checked by: PCh		Approved By: PCh
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 2 years: +0 %: 15 mins: Summer	84.255	84.237	0.020	0.017	0.5	0.033	0.000	0.000	0.4	0.197		97.185
Filter Trench Drain (1)	FEH: 2 years: +0 %: 15 mins: Summer	84.212	84.211	0.175	0.211	3.1	1.050	0.000	0.000	0.6	0.741		81.728
Filter Trench Drain (2)	FEH: 2 years: +0 %: 15 mins: Summer	84.211	84.211	0.068	0.081	0.7	0.067	0.000	0.000	0.7	0.264		92.022

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026			
	Designed by: TW	Checked by: PCh	Approved By: PCh	
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 30 years: +0 %: 15 mins: Summer	84.397	84.397	0.162	0.177	1.0	0.300	0.000	0.000	2.0	0.559		74.337
Filter Trench Drain (1)	FEH: 30 years: +0 %: 15 mins: Summer	84.398	84.397	0.362	0.397	5.6	2.062	0.000	0.000	0.8	1.251		64.104
Filter Trench Drain (2)	FEH: 30 years: +0 %: 15 mins: Summer	84.398	84.398	0.255	0.268	1.5	0.236	0.000	0.000	0.7	0.432		72.107

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026			
	Designed by: TW	Checked by: PCh	Approved By: PCh	
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 100 years: +0 %: 15 mins: Summer	84.471	84.471	0.236	0.251	1.5	0.431	0.000	0.000	0.6	0.476		63.139
Filter Trench Drain (1)	FEH: 100 years: +0 %: 15 mins: Summer	84.471	84.470	0.435	0.470	7.6	2.460	0.000	0.000	0.9	1.464		57.193
Filter Trench Drain (2)	FEH: 100 years: +0 %: 15 mins: Summer	84.471	84.471	0.329	0.341	1.8	0.302	0.000	0.000	1.0	0.469		64.306

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026			
	Designed by: TW	Checked by: PCh	Approved By: PCh	
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max.
Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 100 years: +40 %: 15 mins: Summer	84.618	84.619	0.384	0.399	1.9	0.692	0.000	0.000	0.5	0.515		40.830
Filter Trench Drain (1)	FEH: 100 years: +40 %: 15 mins: Summer	84.619	84.618	0.583	0.618	9.8	3.263	0.000	0.000	1.0	1.842		43.204
Filter Trench Drain (2)	FEH: 100 years: +40 %: 15 mins: Summer	84.619	84.619	0.476	0.489	1.2	0.434	0.000	0.000	0.5	0.488	0	48.579

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026			
	Designed by: TW	Checked by: PCh	Approved By: PCh	
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 23/03/2026			
		Designed by: TW	Checked by: PCh		Approved By: PCh
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 2 years: +0 %: 60 mins: Winter	Pipe	S1	Filter Trench Drain (1)	85.130	84.241	0.150	0.634	0.3	0.01	0.3	OK
1.000	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.239	0.091	0.194	0.1	0.01	0.4	OK
1.001	FEH: 2 years: +0 %: 120 mins: Summer	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.235	0.018	3.734	0.5	0.03	0.6	Surcharged
2.001	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Filter Trench Drain (2)	S1	85.113	84.205	0.100	0.264	0.3	0.03	0.7	OK
2.000	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.360	0.037	0.290	0.5	0.01	0.7	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 23/03/2026			
		Designed by: TW	Checked by: PCh		Approved By: PCh
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 30 years: +0 %: 360 mins: Summer	Pipe	S1	Filter Trench Drain (1)	85.130	84.431	0.150	2.118	0.3	0.02	0.5	Surcharged
1.000	FEH: 30 years: +0 %: 480 mins: Summer	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.364	0.150	7.749	0.1	0.02	1.0	OK
1.001	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.487	0.022	5.002	0.6	0.04	0.9	Surcharged
2.001	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	Filter Trench Drain (2)	S1	85.113	84.392	0.150	0.403	0.4	0.03	0.7	Surcharged
2.000	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.398	0.150	0.621	0.3	0.02	1.5	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 23/03/2026		
	Designed by: TW	Checked by: PCh	Approved By: PCh
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	S1	Filter Trench Drain (1)	85.130	84.471	0.150	0.296	0.4	0.02	0.6	Surcharged
1.000	FEH: 100 years: +0 %: 120 mins: Summer	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.610	0.150	3.674	0.1	0.02	1.1	Surcharged
1.001	FEH: 100 years: +0 %: 60 mins: Winter	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.616	0.023	5.602	0.6	0.05	1.0	Surcharged
2.001	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	Filter Trench Drain (2)	S1	85.113	84.465	0.150	0.427	0.4	0.04	1.0	Surcharged
2.000	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.472	0.150	0.709	0.4	0.02	1.8	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 23/03/2026			
		Designed by: TW	Checked by: PCh		Approved By: PCh
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH			



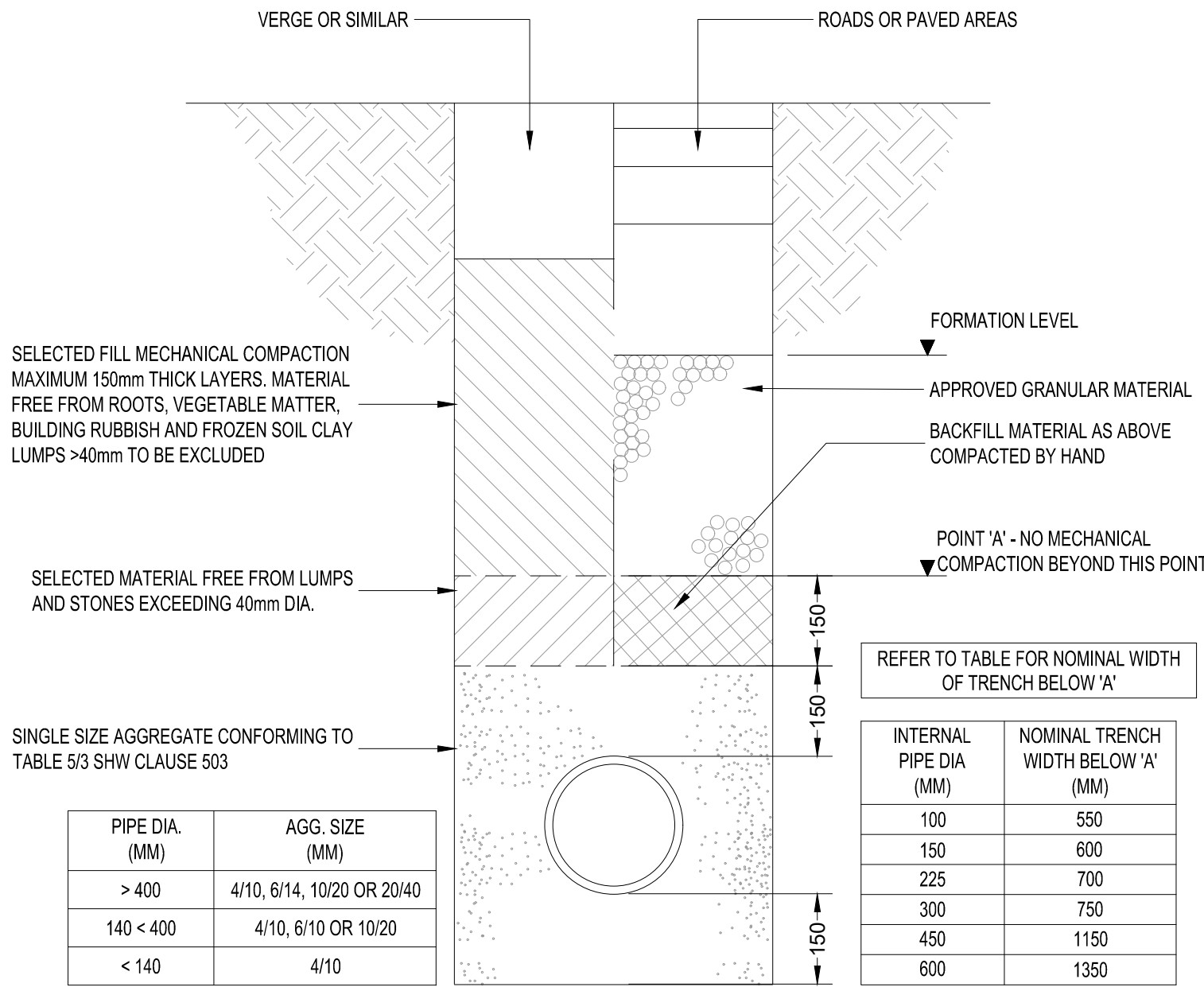
FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	S1	Filter Trench Drain (1)	85.130	84.623	0.150	0.262	0.3	0.03	0.8	Surcharged
1.000	FEH: 100 years: +40 %: 120 mins: Summer	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.848	0.150	2.774	0.1	0.02	1.1	Flood Risk
1.001	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.844	0.025	6.559	0.6	0.05	1.2	Surcharged
2.001	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Filter Trench Drain (2)	S1	85.113	84.755	0.150	0.717	0.4	0.04	0.9	Surcharged
2.000	FEH: 100 years: +40 %: 30 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.760	0.150	1.188	0.4	0.02	1.7	Surcharged

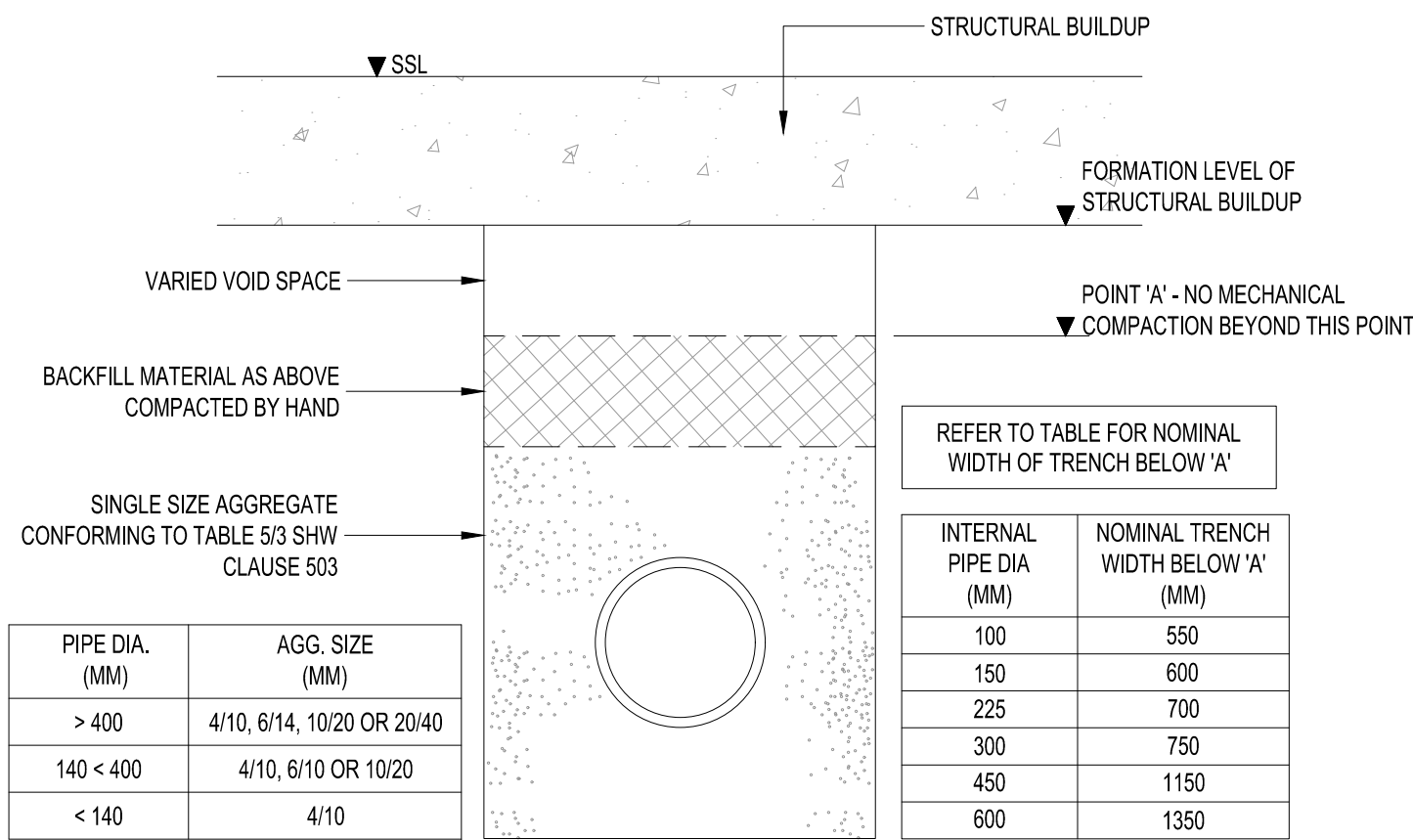
APPENDIX C – PROPOSED DRAINAGE STRATEGY & INSTALLATION DETAILS

NOTES:

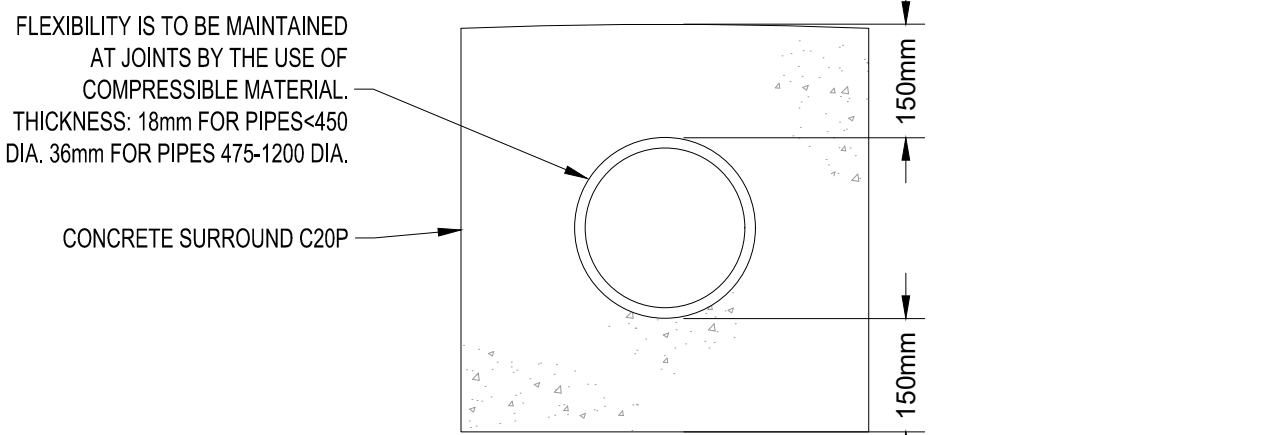
1. PIPEWORK LAID IN TYPE S GENERALLY BUT ARE LAID IN TYPE Z WHERE COVER IS LESS THAN:
600mm UNDER SOFT LANDSCAPED AREAS
900mm UNDER NON TRAFFICKED AREAS I.E. FOOTPATHS
1200mm UNDER ROADS



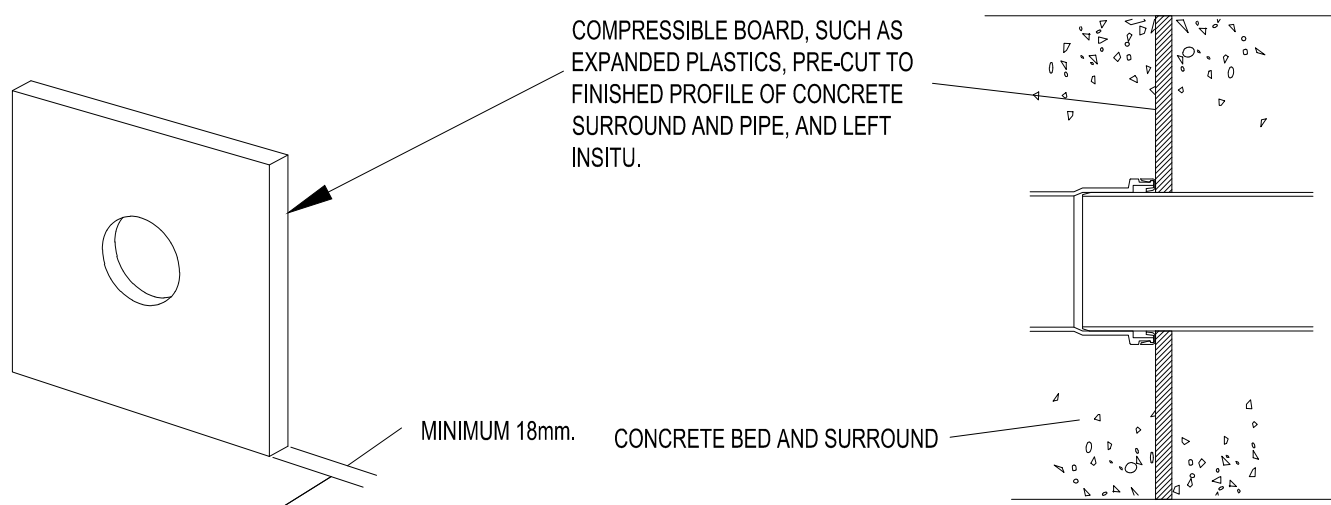
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GRANULAR BEDDING - TYPE S
SCALE: 1:10



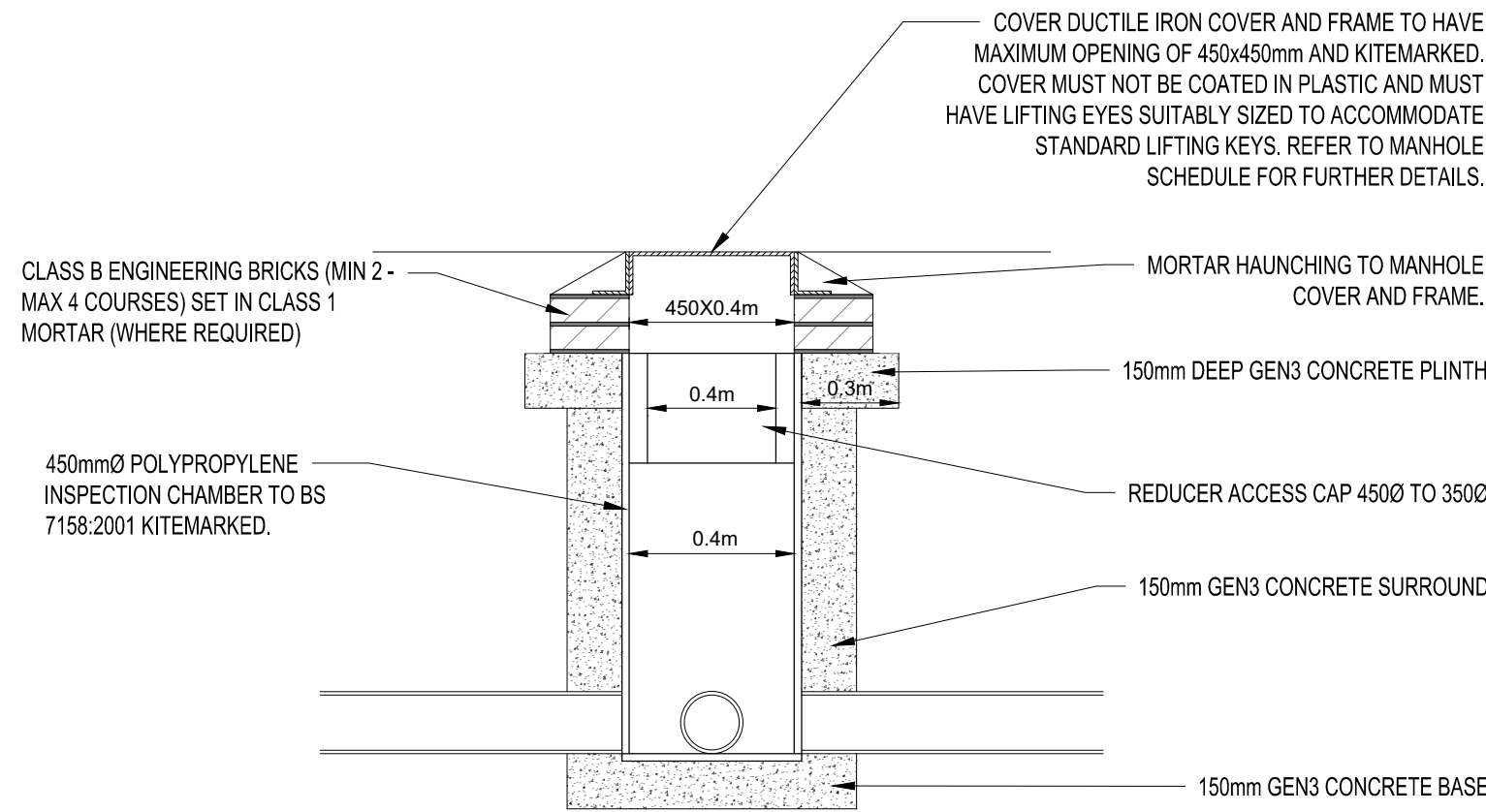
TYPICAL SECTION
PIPE BEDDING AND SURROUND - UNDER BUILDINGS (IN LOCATIONS OF NEW SLABS)
GRANULAR BEDDING - TYPE W
SCALE: 1:10



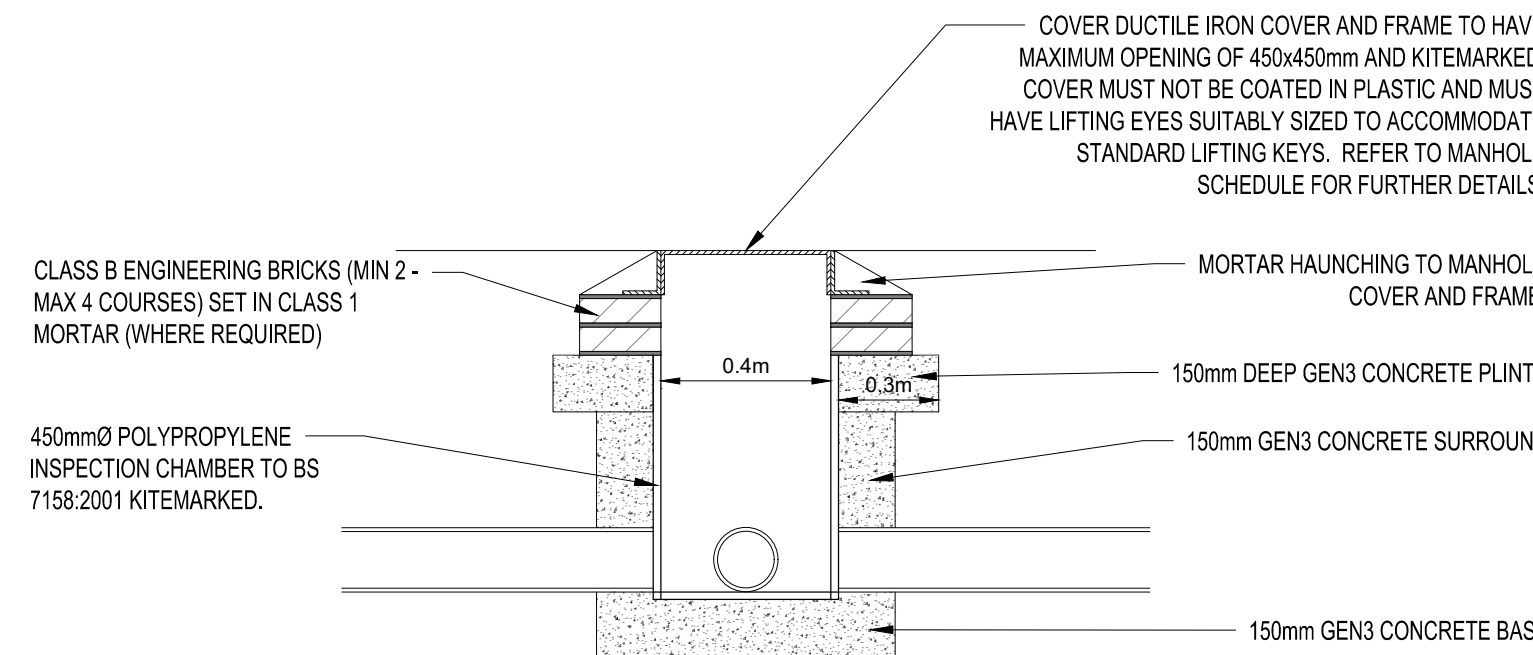
TYPICAL SECTION
PIPE BEDDING AND SURROUND - EXTERNAL
CONCRETE SURROUND - TYPE Z
SCALE: 1:10



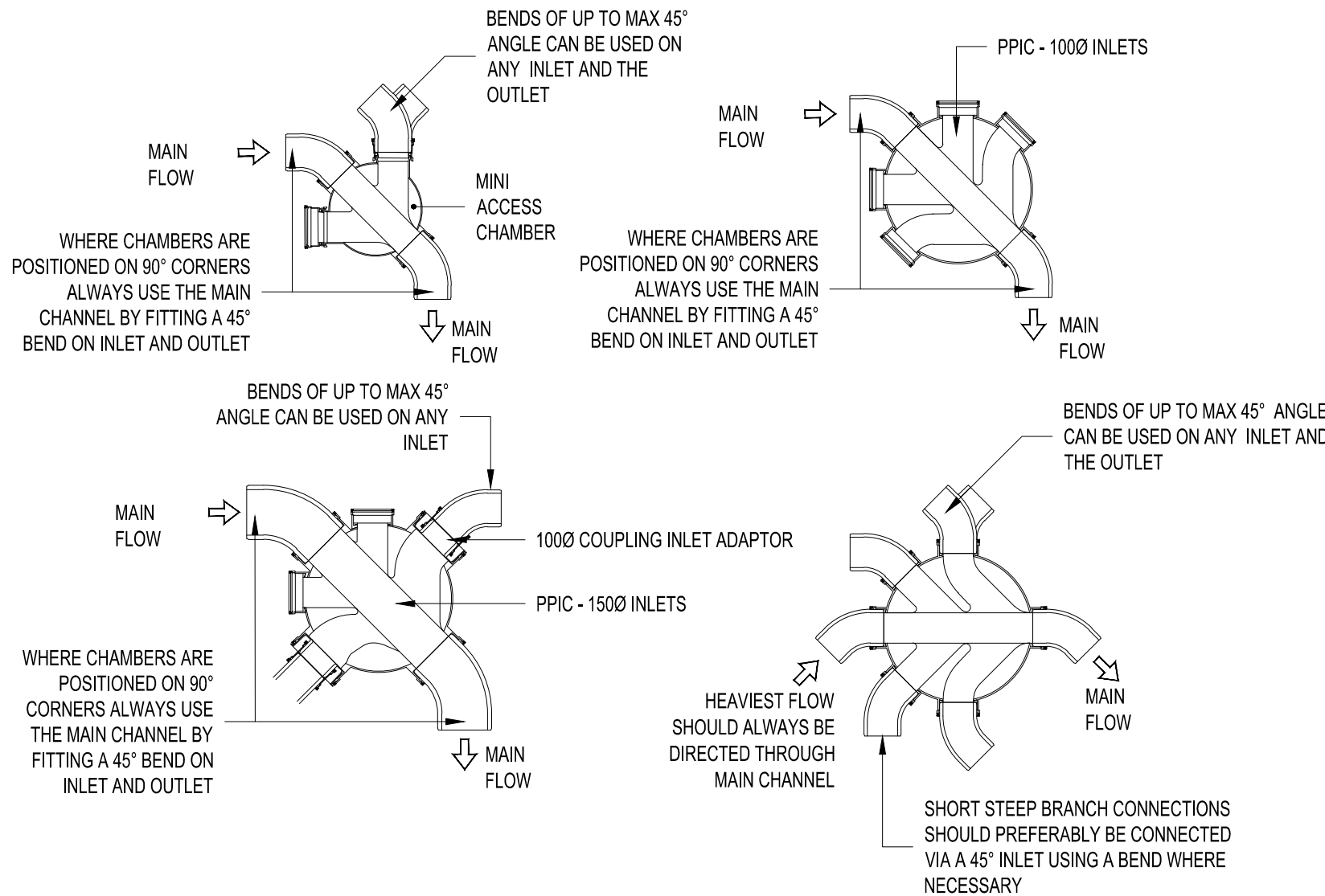
FLEXIBLE JOINT DETAIL
(I.E. WHERE CONCRETE SURROUND AT PIPE JOINT).
SCALE: 1:10



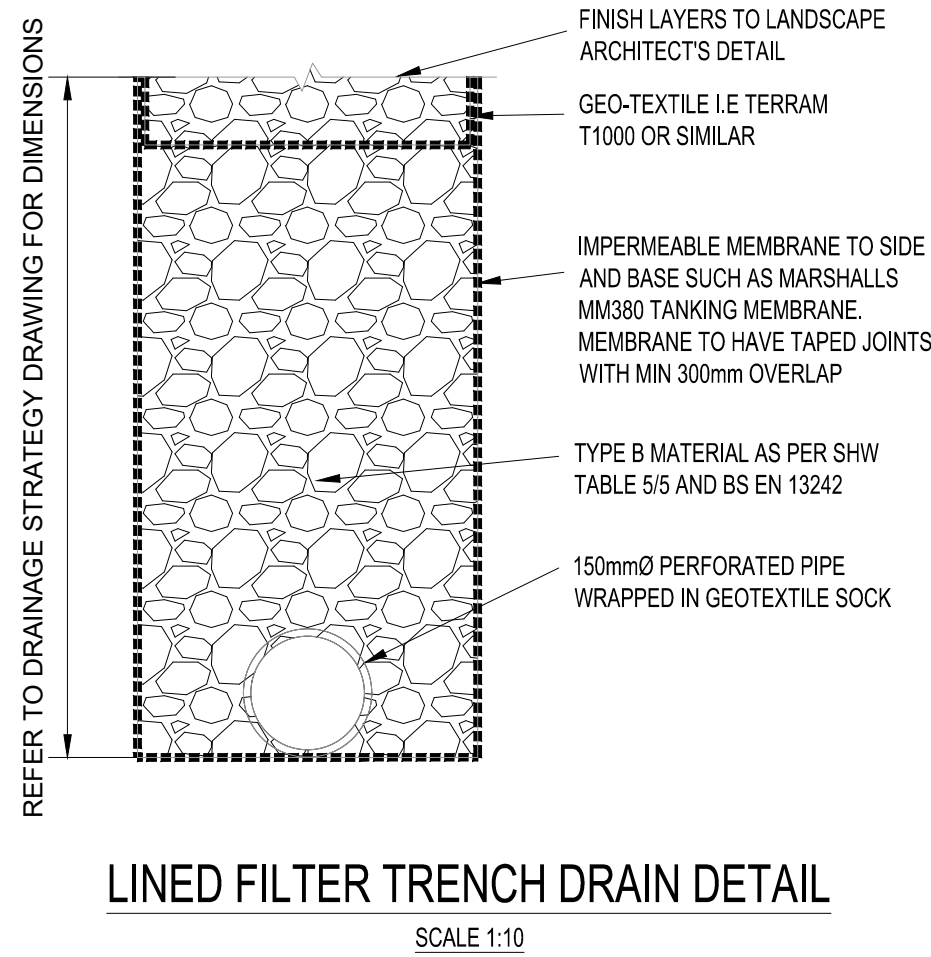
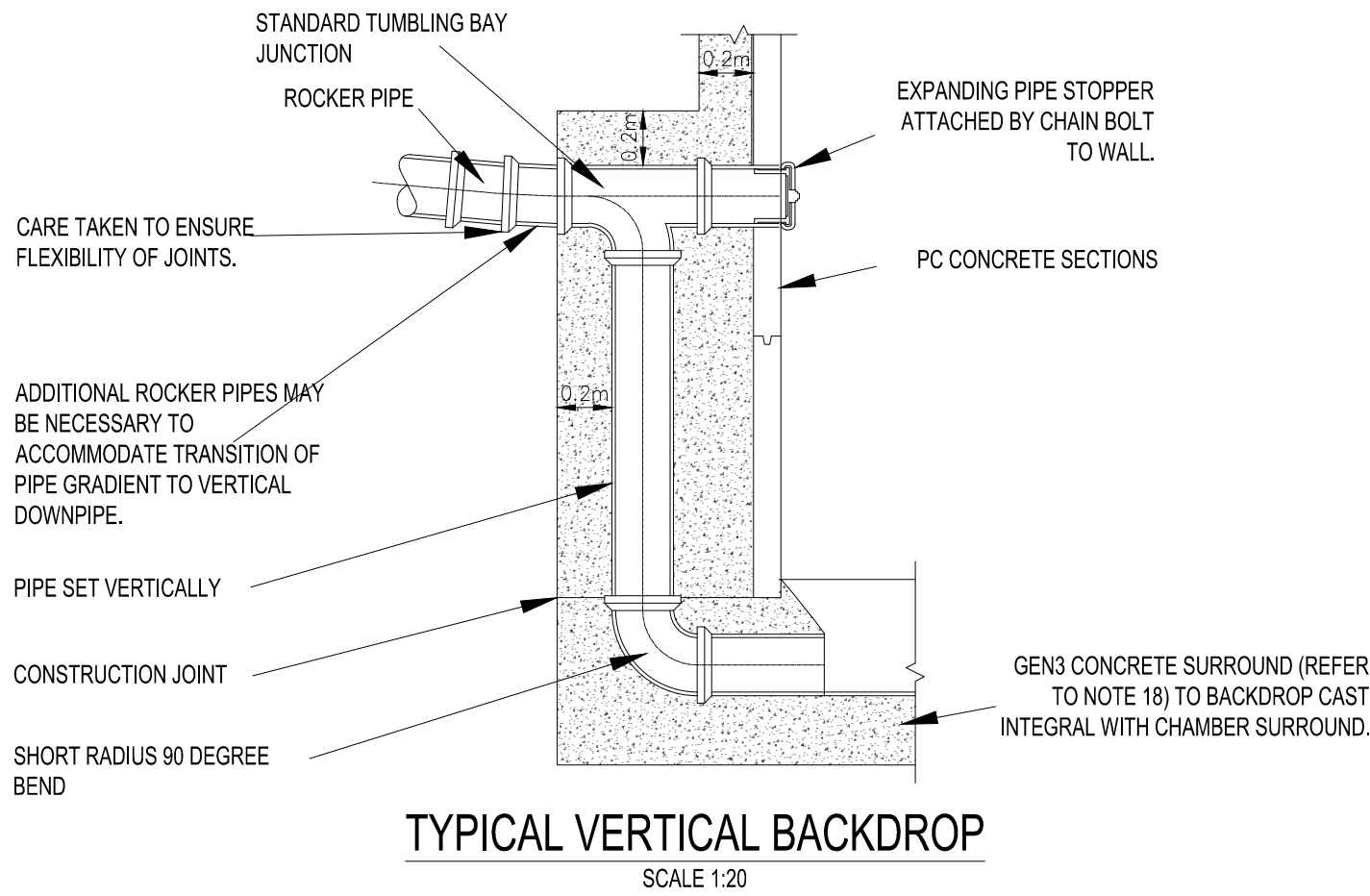
INSPECTION CHAMBER (DEEP)
FOR A DEPTH OF CHAMBER GREATER THAN 1.2m, MAXIMUM DEPTH OF 3m
SCALE 1:20 @ A1



INSPECTION CHAMBER (SHALLOW)
FOR A DEPTH OF CHAMBER FROM COVER LEVEL TO INVERT LEVEL OF PIPE CHAMBER LESS THAN 1.2m
SCALE 1:20 @ A1



PLAN
MINI ACCESS CHAMBER / PPIC TYPICAL INSTALLATION DETAILS
SCALE: 1:20



LINED FILTER TRENCH DRAIN DETAIL
SCALE 1:10

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CDM REGULATIONS 2015

Significant or non-obvious risks and risks which are difficult to manage are identified on this drawing using the following symbol

Identified to the right with brief accompanying text. For further details of the risks identified by designers, reference should be made to CDM hazard register.

P01	First issue	23/03/2026	TW	PCh
REV	DESCRIPTION	DATE	BY	CHKD
ORIGINATOR	www.ridge.co.uk			

RIDGE

PROJECT NUMBER: 5033004

CLIENT: STEEL FRAME SYSTEMS LTD

IN ASSOCIATION WITH:

PROJECT: SFS - CRABBET PARK, OFFICE TO RESI

TITLE: DRAINAGE DETAILS

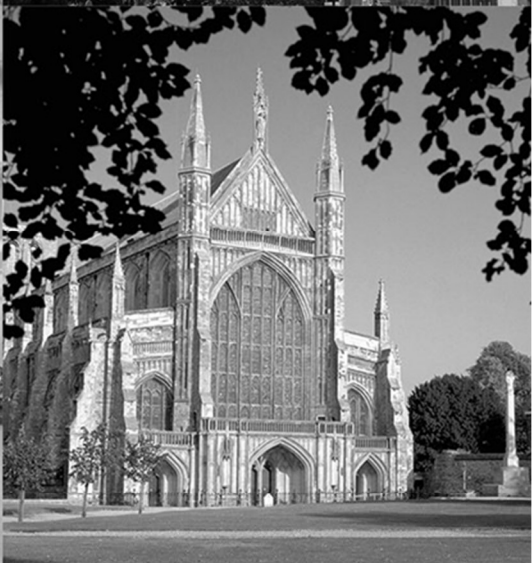
DRAWN BY: TW CHECKED BY: PCh APPROVED BY: PCh

SCALE @ A1: 1:50 DATE OF REVIEW: MAR 2026

ISO 19650 STATUS: S2 - Issued for Information

DRAWING No: 5033004-RDG-XX-XX-T-C-110501 Drainage Details.dwg

PROJECT: 5033004 ORG: RDG FUNCTION: XX SPATIAL: XX FORM: D DISCIPLINE: C NUMBER: 110501 REV: P01

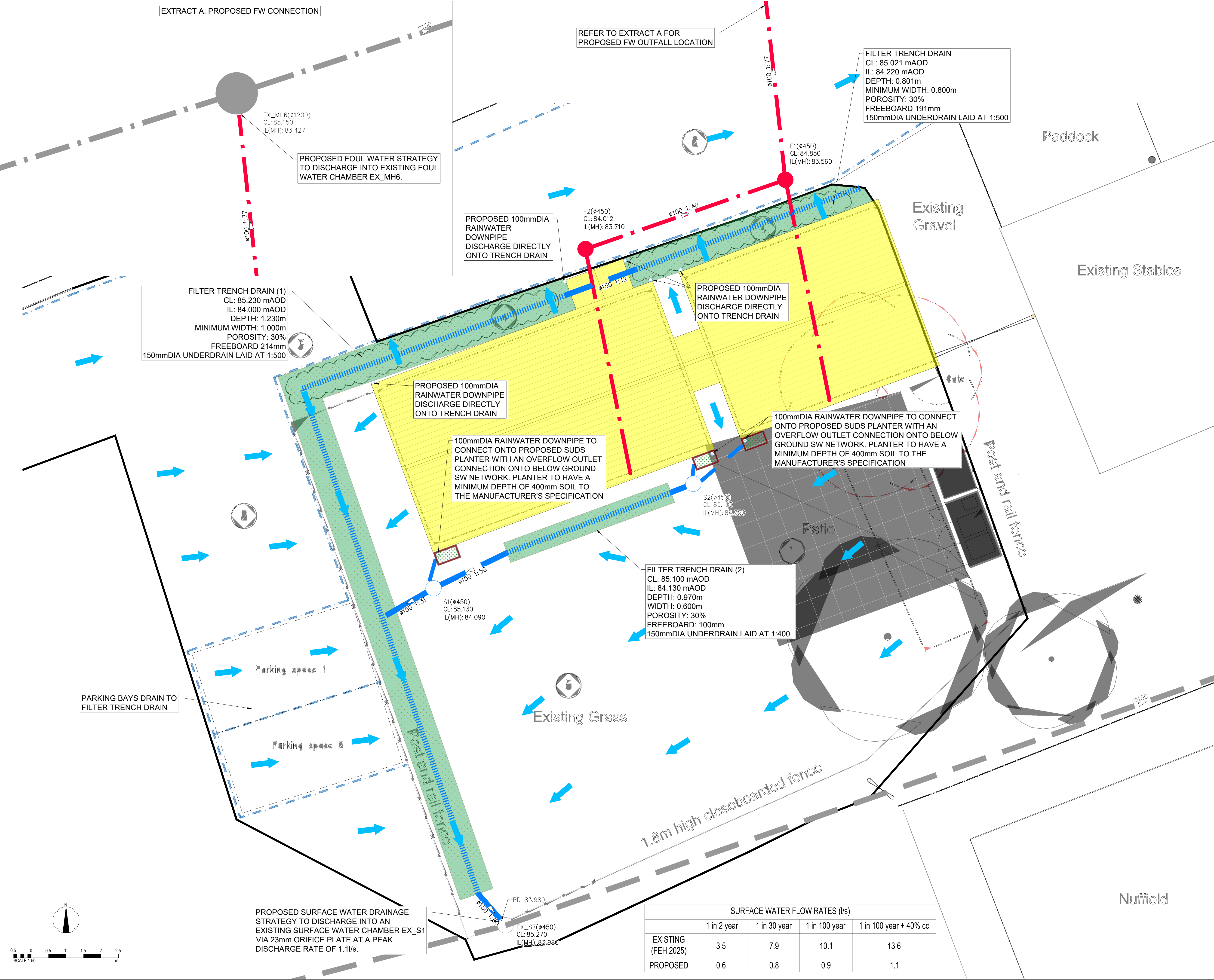


RIDGE



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APPENDIX B - PROPOSED BELOW GROUND DRAINAGE STRATEGY



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CDM REGULATIONS 2015

Significant or non-obvious risks and risks which are difficult to manage are identified on this drawing using the following symbol

Identified to the right with brief accompanying text. For further details of the risks identified by designers, reference should be made to CDM hazard register.

DRAINAGE KEY (1:250)	
KEY	DESCRIPTION
	NEW SURFACE WATER CHAMBER AND DRAIN
	EXISTING SURFACE WATER CHAMBER AND DRAIN
	NEW FILTER TRENCH DRAIN
	NEW DRAINAGE CHANNEL
	BUILDING FOOTPRINT
	NEW FOUL WATER CHAMBER AND DRAIN
	EXISTING FOUL WATER CHAMBER AND DRAIN
	EXCEEDANCE FLOW PATH
	NEW SUDS PLANTER

P03	Minor amendments as per MSDC comments	05/08/2026	TW	EP
P02	Exceedance flow paths added onto drawing	14/05/2026	TW	PCh
P01	First issue	23/03/2026	TW	PCh
REV	DESCRIPTION	DATE	BY	CHKD
ORIGINATOR: www.ridge.co.uk				



PROJECT NUMBER: 5033004

CLIENT: STEEL FRAME SYSTEMS LTD

IN ASSOCIATION WITH:

PROJECT: SFS - CRABBET PARK, OFFICE TO RESI

TITLE: PROPOSED DRAINAGE STRATEGY

DRAWN BY: TW CHECKED BY: PCh APPROVED BY: PCh

SCALE @ A1: 1:50 DATE OF REVIEW: MAR 2026

ISO 19650 STATUS: S2 - Issued for Information

DRAWING No: 5033004-RDG-XX-XX-T-C-110500 Drainage Strategy.dwg

PROJECT:	ORG:	FUNCTION:	SPATIAL:	FORM:	DISCIPLINE:	NUMBER:	REV:
5033004	RDG	XX	XX	D	C	110500	P03

APPENDIX C – PROPOSED SURFACE WATER CALCULATIONS

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Inflows Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





Catchment Area (1)

Type : Catchment Area

Area (ha)	0.001
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (2)

Type : Catchment Area

Area (ha)	0.001
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (3)

Type : Catchment Area

Area (ha)	0.003
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (7)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Details: Type: Inflows Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH		



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.001
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area

Type : Catchment Area

Area (ha)	0.004
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (4)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (8)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Inflows Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





Catchment Area (9)

Type : Catchment Area

Area (ha)	0.002
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff Coefficient	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Stormwater Controls Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





Filter Trench Drain

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	85.021
Depth (m)	0.801
Base Level (m)	84.220
Freeboard (mm)	151
Porosity (%)	30
Length (m)	7.367
Long. Slope (1:X)	500.00
Width (m)	0.800
Total Volume (m³)	1.240

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Outlets

Outlet

Outgoing Connection	1.000
Outlet Type	Under Drain

Advanced

Conductivity (m/hr)	50.0
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Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Stormwater Controls Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





Filter Trench Drain (1)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	85.230
Depth (m)	1.230
Base Level (m)	84.000
Freeboard (mm)	180
Porosity (%)	30
Length (m)	18.115
Long. Slope (1:X)	500.00
Width (m)	1.000
Total Volume (m³)	5.930

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Outlets

Outlet (1)

Outgoing Connection	1.001
Outlet Type	Orifice
Diameter (m)	0.023
Coefficient of Discharge	0.600
Invert Level (m)	84.000

Advanced

Conductivity (m/hr)	50.0
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Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Stormwater Controls Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





Filter Trench Drain (2)

Type : Infiltration Trench

Dimensions

Exceedance Level (m)	85.100
Depth (m)	0.970
Base Level (m)	84.130
Freeboard (mm)	100
Porosity (%)	30
Length (m)	5.000
Long. Slope (1:X)	400.00
Width (m)	0.600
Total Volume (m³)	0.845

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Outlets

Outlet

Outgoing Connection	2.001
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
---------------------	------

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Details: Type: Connections Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Name	From	To	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)
2.002	S1	Filter Trench Drain (1)	1.801	Pipe	36.024		0.6	150
1.000	Filter Trench Drain	Filter Trench Drain (1)	1.959	Pipe	10.658		0.6	150
1.001	Filter Trench Drain (1)	EX_S7	1.325	Pipe	66.273		0.6	150
2.001	Filter Trench Drain (2)	S1	2.292	Pipe	57.302		0.6	150
2.000	S2	Filter Trench Drain (2)	1.063	Pipe	5.122		0.6	150

Name	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Velocity (m/s)
2.002	85.200	84.090	85.266	84.040		Levels		
1.000	85.036	84.220	85.266	84.036		None	0.0	
1.001	85.266	84.000	85.270	83.980		None	1.1	
2.001	85.113	84.130	85.200	84.090		None		
2.000	85.100	84.350	85.113	84.143		None		

Name	Culvert Type	Culvert Entrance	Wall Thickness (mm)	Material	Trench Width (mm)	Bedding Material	Surrounding Material
2.002	(None)	(None)	0		0		
1.000	(None)	(None)	0		0		
1.001	(None)	(None)	0		0		
2.001	(None)	(None)	0		0		
2.000	(None)	(None)	0		0		

Project: 5033004 - SFS - Crabbet Park, Office to Resi		Date: 05/08/2026		
Designed by: TW		Checked by: EP	Approved By: EP	
Report Details: Type: Inflow Summary Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH		

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	Filter Trench Drain (1)		Time of Concentration	0.004	100	10	110	0.004
Catchment Area (1)	Filter Trench Drain (1)		Time of Concentration	0.001	100	10	110	0.001
Catchment Area (2)	Filter Trench Drain (1)		Time of Concentration	0.001	100	10	110	0.001
Catchment Area (3)	Filter Trench Drain (1)		Time of Concentration	0.003	100	10	110	0.004
Catchment Area (4)	Filter Trench Drain (1)		Time of Concentration	0.002	100	10	110	0.002
Catchment Area (5)	S1		Time of Concentration	0.001	100	10	110	0.001
Catchment Area (7)	S2		Time of Concentration	0.002	100	10	110	0.002
Catchment Area (8)	Filter Trench Drain		Time of Concentration	0.002	100	10	110	0.002
Catchment Area (9)	S2		Time of Concentration	0.002	100	10	110	0.002
TOTAL		0.0		0.018				0.020

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Details: Type: Outfall Details Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
EX_S7	Free Discharge			

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Title: Rainfall Analysis Criteria	Company Address: 3 Valentines Place, SE1 8QH			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Reduced
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	10
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH Type: FEH

Site Location	GB 530650 137500 TQ 30650 37500		
Rainfall Version	2022		
Summer	☒		
Winter	☒		

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	0.000
100.0	0.000
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	1440
30	1440
60	1440
120	1440
240	480
360	720
480	960
960	1920
1440	2880

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Title: UK and Ireland Rural Runoff Calculator	Company Address: 3 Valentines Place, SE1 8QH			

ICP SUDS / IH 124

Details

Method	ICP SUDS
Area (ha)	0.02
SAAR (mm)	855.0
Soil	0.47
Region	Region 7
Urban	0
Return Period (years)	0

Results

Region	QBAR Rural (L/s)	QBAR Urban (L/s)	Q 1 (years) (L/s)	Q 30 (years) (L/s)	Q 100 (years) (L/s)
Region 7	0.1	0.1	0.1	0.3	0.4

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 2 years: +0 %: 15 mins: Summer	85.270	83.980	83.996	0.016	0.5	0.000	0.000	0.5	1.847	OK
S1	FEH: 2 years: +0 %: 15 mins: Summer	85.200	84.090	84.233	0.143	0.9	0.023	0.000	0.4	0.418	OK
S2	FEH: 2 years: +0 %: 15 mins: Summer	85.100	84.350	84.360	0.010	0.7	0.002	0.000	0.7	0.315	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 30 years: +0 %: 15 mins: Summer	85.270	83.980	83.998	0.018	0.7	0.000	0.000	0.7	6.793	OK
S1	FEH: 30 years: +0 %: 15 mins: Summer	85.200	84.090	84.433	0.343	1.5	0.054	0.000	0.4	1.476	Surcharged
S2	FEH: 30 years: +0 %: 15 mins: Summer	85.100	84.350	84.433	0.083	1.6	0.013	0.000	1.6	0.785	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 100 years: +0 %: 15 mins: Summer	85.270	83.980	83.999	0.019	0.8	0.000	0.000	0.8	7.667	OK
S1	FEH: 100 years: +0 %: 15 mins: Summer	85.200	84.090	84.514	0.424	1.5	0.067	0.000	0.7	1.648	Surcharged
S2	FEH: 100 years: +0 %: 15 mins: Summer	85.100	84.350	84.513	0.163	2.0	0.026	0.000	2.0	0.969	Surcharged

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Junctions Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
EX_S7	FEH: 100 years: +40 %: 15 mins: Summer	85.270	83.980	84.001	0.021	0.9	0.000	0.000	0.9	10.796	OK
S1	FEH: 100 years: +40 %: 15 mins: Summer	85.200	84.090	84.679	0.589	1.6	0.094	0.000	0.8	2.411	Surcharged
S2	FEH: 100 years: +40 %: 15 mins: Summer	85.100	84.350	84.677	0.327	2.9	0.052	0.000	1.2	1.380	Surcharged

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 2 years: +0 %: 15 mins: Summer	84.256	84.238	0.021	0.018	0.5	0.035	0.000	0.000	0.5	0.272		97.197
Filter Trench Drain (1)	FEH: 2 years: +0 %: 15 mins: Summer	84.233	84.232	0.197	0.232	3.5	1.164	0.000	0.000	0.5	1.850		80.368
Filter Trench Drain (2)	FEH: 2 years: +0 %: 15 mins: Summer	84.232	84.233	0.089	0.103	0.7	0.086	0.000	0.000	0.7	0.314		89.771

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
	Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW		
Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 30 years: +0 %: 15 mins: Summer	84.433	84.433	0.198	0.213	1.2	0.363	0.000	0.000	1.6	4.359		70.709
Filter Trench Drain (1)	FEH: 30 years: +0 %: 15 mins: Summer	84.433	84.432	0.397	0.432	6.5	2.251	0.000	0.000	0.7	7.340		62.043
Filter Trench Drain (2)	FEH: 30 years: +0 %: 15 mins: Summer	84.433	84.433	0.290	0.303	1.6	0.267	0.000	0.000	1.0	0.961		68.405

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 100 years: +0 %: 15 mins: Summer	84.515	84.514	0.280	0.294	1.8	0.508	0.000	0.000	1.0	4.278		59.071
Filter Trench Drain (1)	FEH: 100 years: +0 %: 15 mins: Summer	84.514	84.513	0.478	0.513	7.8	2.694	0.000	0.000	0.8	8.293		54.582
Filter Trench Drain (2)	FEH: 100 years: +0 %: 15 mins: Summer	84.512	84.514	0.370	0.384	2.0	0.339	0.000	0.000	0.9	1.110		59.831

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
	Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW		
Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW		Company Address: 3 Valentines Place, SE1 8QH		



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Filter Trench Drain	FEH: 100 years: +40 %: 15 mins: Summer	84.679	84.678	0.444	0.458	2.0	0.798	0.000	0.000	1.5	6.180	25	35.663
Filter Trench Drain (1)	FEH: 100 years: +40 %: 15 mins: Summer	84.679	84.678	0.643	0.678	10.7	3.589	0.000	0.000	0.9	11.803	30	39.486
Filter Trench Drain (2)	FEH: 100 years: +40 %: 15 mins: Summer	84.677	84.678	0.535	0.548	1.2	0.487	0.000	0.000	0.6	1.614	15	42.306

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026			
	Designed by: TW	Checked by: EP	Approved By: EP	
Report Details: Type: Stormwater Controls Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH			

Status
OK
OK
OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S1	Filter Trench Drain (1)	85.200	84.233	0.150	0.416	0.2	0.01	0.4	OK
1.000	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.240	0.105	0.255	0.1	0.01	0.4	OK
1.001	FEH: 2 years: +0 %: 120 mins: Summer	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.287	0.018	4.628	0.5	0.03	0.6	Surcharged
2.001	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Filter Trench Drain (2)	S1	85.113	84.226	0.123	0.315	0.4	0.03	0.7	OK
2.000	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.360	0.047	0.315	0.5	0.01	0.7	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 30 years: +0 %: 480 mins: Summer	Pipe	S1	Filter Trench Drain (1)	85.200	84.489	0.150	2.254	0.2	0.02	0.6	Surcharged
1.000	FEH: 30 years: +0 %: 960 mins: Summer	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.381	0.150	17.726	0.1	0.02	1.3	Surcharged
1.001	FEH: 30 years: +0 %: 120 mins: Summer	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.560	0.021	12.629	0.6	0.04	0.8	Surcharged
2.001	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	Filter Trench Drain (2)	S1	85.113	84.427	0.150	0.531	0.5	0.04	1.0	Surcharged
2.000	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.433	0.150	0.702	0.4	0.02	1.6	OK

Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	S1	Filter Trench Drain (1)	85.200	84.514	0.150	1.018	0.3	0.02	0.7	Surcharg ed
1.000	FEH: 100 years: +0 %: 30 mins: Winter	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.618	0.150	4.378	0.1	0.02	1.3	Surcharg ed
1.001	FEH: 100 years: +0 %: 120 mins: Winter	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.700	0.022	15.292	0.6	0.04	0.9	Surcharg ed
2.001	FEH: 100 years: +0 %: 30 mins: Summer	Pipe	Filter Trench Drain (2)	S1	85.113	84.621	0.150	0.983	0.4	0.04	0.9	Surcharg ed
2.000	FEH: 100 years: +0 %: 15 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.513	0.150	0.886	0.4	0.03	2.0	Surcharg ed

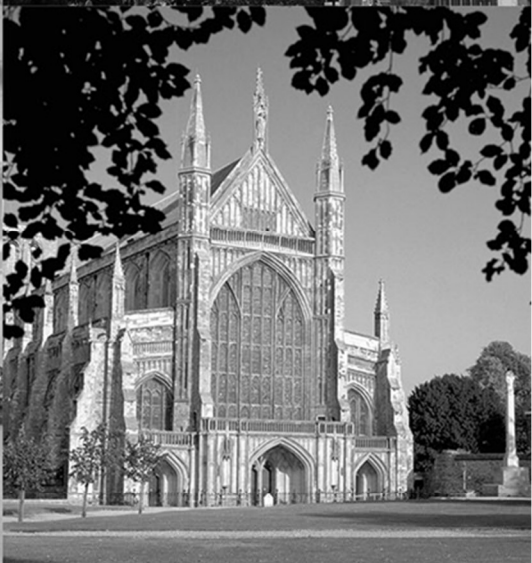
Project: 5033004 - SFS - Crabbet Park, Office to Resi	Date: 05/08/2026		
	Designed by: TW	Checked by: EP	Approved By: EP
Report Details: Type: Connections Summary Storm Phase: 5033044 - Proposed SW	Company Address: 3 Valentines Place, SE1 8QH		





FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2.002	FEH: 100 years: +40 %: 15 mins: Summer	Pipe	S1	Filter Trench Drain (1)	85.200	84.679	0.150	1.408	0.2	0.03	0.8	Surcharged
1.000	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	Filter Trench Drain	Filter Trench Drain (1)	85.036	84.889	0.150	8.333	0.1	0.02	1.3	Flood Risk
1.001	FEH: 100 years: +40 %: 120 mins: Summer	Pipe	Filter Trench Drain (1)	EX_S7	85.266	84.972	0.024	19.646	0.6	0.05	1.1	Surcharged
2.001	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Filter Trench Drain (2)	S1	85.113	84.673	0.150	0.990	0.5	0.03	0.7	Surcharged
2.000	FEH: 100 years: +40 %: 30 mins: Summer	Pipe	S2	Filter Trench Drain (2)	85.100	84.843	0.150	1.675	0.4	0.02	1.3	Flood Risk



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