



Flood Risk Assessment

St Mary's Church Hall & 1-1a New Road
Shoreham-by-Sea, BN43 5ZQ

Client

W Group

Ref: 14008

Date: October 2025

Consulting Engineers

GTA Civils & Transport Ltd

Maple House

192 – 198 London Road

Burgess Hill

West Sussex, RH15 9RD

Tel: 01444 871444

Index

1	Introduction	2
2	Existing Site and Current Flood Conditions	3
3	Proposed Development and SuDS & Foul Drainage Strategy	5

Schedule of Appendices

- A Site Location Maps & Aerial Photo
- B Flood Maps – Environment Agency
- C Topographic Survey, Sewer Records & Excerpts from CCTV Survey
- D Architect's Scheme Drawings
- E Proposed Drainage Strategy Layout & Drainage Calculation Sheets

Issue	Issue date	Compiled	Checked
Preliminary Issue	16 October 2025	JP	FV / MR
First Issue	21 October 2025	JP	FV / MR

1 Introduction

- 1.1 This FRA report has been prepared for the Client in relation to the proposed development at St Mary's Church Hall & 1-1a New Road, Shoreham-by-Sea, BN43 5ZQ. No responsibility is accepted to any third party for all or part of this study in connection with this or any other development.
- 1.2 GTA Civils & Transport Limited was appointed by W Group to prepare a Flood Risk Assessment (FRA) report as required by the Environment Agency and Adur & Worthing Council in order to achieve Planning Permission.
- 1.3 This report will take the form of a formal Flood Risk Assessment in accordance with the 2025 National Planning Policy Framework (NPPF) and the current Planning Practice Guidance (PPG).

2 Existing Site and Current Flood Conditions

- 2.1 The application site lies in the centre of Shoreham-by-Sea, in the area administered by Adur & Worthing Council (AWC). It comprises a 2-storey Community Centre. Site location maps and an aerial view are shown in Appendix A.
- 2.2 Hydrology: The nearest Main River to the site is the River Adur, which is approximately 120m to the south at its closest. This flows broadly east - southeast into the English Channel.
- 2.3 Topography: Topography: a topographic survey is contained in Appendix C. The site is flat and level, overall with external levels ranging between 7.05m AOD and 6.69m AOD. The ground floor's lowest measured level is 6.80m AOD.
- 2.4 Geology: according to the BGS's online map, the site's solid geology is Newhaven Chalk Formation. Overlaying drift deposits are recorded as Head (clay, silt, sand and gravel).
- 2.5 Public sewers: Southern Water's sewer records are shown in Appendix C. This area is served by both foul and combined public sewerage. A 300mm diameter foul sewer flows west under New Road to the south and a 300mm dia combined sewer flows southwards under East Street.
- 2.6 A CCTV survey has been conducted. All drainage is routed west to the combined sewer in East Road – refer to Appendix C. The excerpts from this survey include a link to the full online, interactive report. (Note that the outfall manhole was seized up – unable to be lifted. The survey shall be finished during the next stage and the connection with the public sewer confirmed.
- 2.7 Tidal flooding: the Environment Agency's (EA) Rivers and Seas flood map in Appendix B shows the site lying in Flood Zone 1 (FZ1 – Low Risk). Sites located in FZ1 have an Annual Exceedance Probability (AEP) of less than 1 in 1000 years (<0.1%) of flooding.
- 2.8 The climate change mapping available online does not show data for this area. The EA have confirmed that the site lies in FZ1 in their response to a Product 4 request – refer to the email and associated flood maps provided by the EA in Appendix B.
- 2.9 Fluvial flooding: there are no fluvially influenced rivers / watercourses in this vicinity.
- 2.10 Surface water flooding: this *can* occur when excess rainwater does not infiltrate into the ground, or is not intercepted by urban drainage systems, and instead flows across the surface. The EA's online Surface Water Depth Flood Map for the 2040-2060 epoch, in Appendix B, shows the site is, largely speaking, unaffected by flooding from this source. Although there is a small pattern that affects a small area to the north elevation, this is contained in a localised 'dish'. Any such flood volume would be routed via the drainage networks in this and the neighbouring sites – to the nearby combined sewer.

- 2.11 Climate Change: the EA provides guidance on the level of climate change to apply for developments. This is on a catchment basis – this site falling within the Adur and Ouse Management Catchment. The correct level of CC that would apply here is 37% - but only relevant if any part of this were in FZ2/3.
- 2.12 Artificial sources: flooding from reservoirs, canals and docks. The EA's Reservoirs Flood Map in Appendix B shows the site is not liable to flood from a nearby reservoir failing. There are no docks or canals nearby.
- 2.13 Groundwater Flooding: Groundwater flooding can occur when groundwater rises up from the underlying aquifer to flood subsurface infrastructure or to emerge at the ground surface. The SFRA does not indicate any localised flooding from this source. This is a change of use application, in effect, and so there is no increase in any such risk as a result of this proposal.
- 2.14 Historical Flooding: the EA's historical flood map in Appendix B shows this site has not been affected by flooding in the past.
- 2.15 In conclusion, the flood risk profile of this site is **Low**.

3 Proposed Development and SuDS & Foul Drainage Strategy

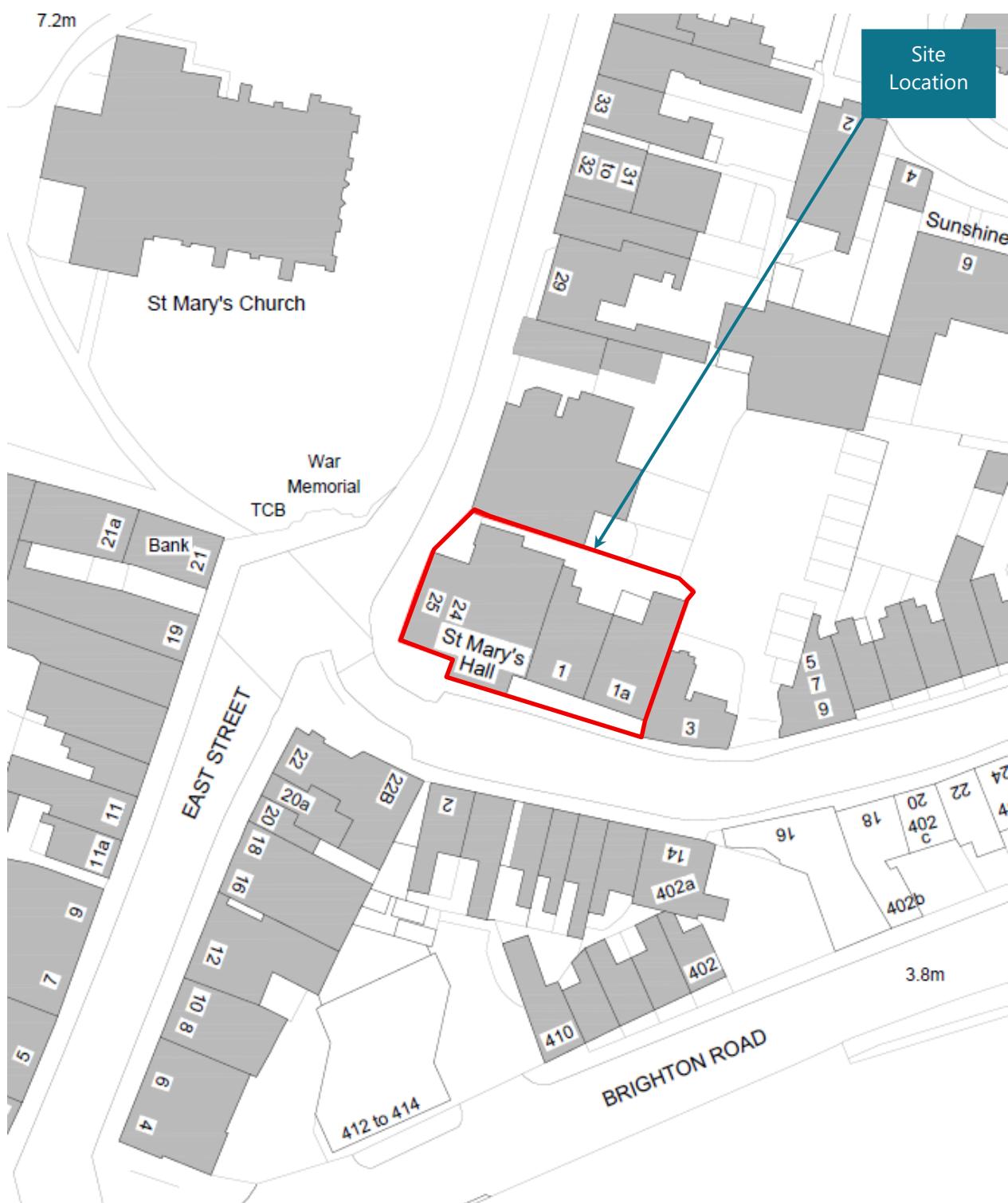
- 3.1 The proposed scheme is to convert part of this 2-storey community centre (and build an upwards extension to form 2 additional storeys) to create 7 dwelling units (5 houses and 2 flats); the remaining space shall be kept as a community centre. The proposed scheme drawings are shown in Appendix D. The building's footprint shall be reduced with enlarged space for gardens created by dismantling some built form at the rear. Because of the generous floor to ceiling heights, an additional storey can/shall be created.
- 3.2 The roof shall be replaced from flat B onwards. The garden spaces will be surfaced throughout with permeable surfaces (eg grass, gravel and the like.)
- 3.3 As concluded in section 2.15 above, the site's flood risk profile is Low. No mitigation is needed or proposed.
- 3.4 The Sequential and Exception Tests are not needed for sites in FZ1, Low Risk.
- 3.5 The SuDS hierarchy has been applied: there is very limited external space and none within the site's demise that is greater than 5m from foundations. There is no watercourse nearby. This leaves only the nearby public combined sewer in East Road.
- 3.6 The surface water from the roof and external area to the north of the building will be routed to the existing outfall close to the NW corner. This is known to run to the combined sewer (refer to section 2.6 and the CCTV Survey in Appendix C.) None of the drainage upstream of the outfall will be used as it is in too poor condition.
- 3.7 A drainage strategy layout is shown in Appendix E.
- 3.8 Flow drainage calculations for both existing and proposed scenarios (the 100 years plus 45% CC' storm event) are shown in Appendix E. FEH22 hydrological data and Cv values of 1.0 have been used. The proposed runoff rate and volume shall be reduced compared to existing, due to the reduced contributing area once the gardens are made permeable.
- 3.9 Maintenance of the drainage networks shall be the responsibility of each of the freeholders. The pipes/manholes shall be maintained in line with industry standards.
- 3.10 Conclusion: This development will not increase the flood risk, either on this site or to neighbouring properties, and so complies fully with the 2025 NPPF and current PPG.

- End of Report -

Appendix A

Site Location Maps & Aerial Photo



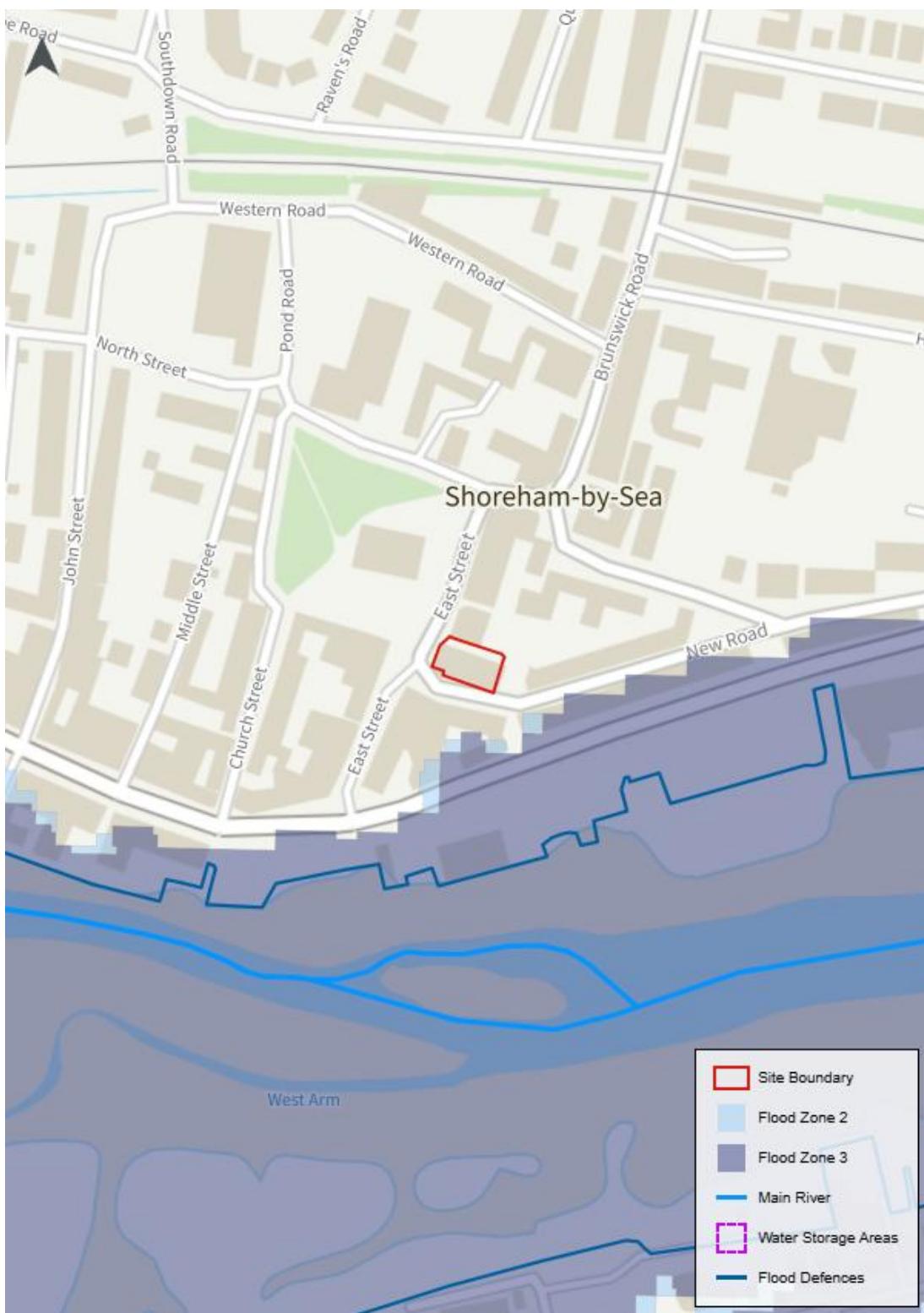




Appendix B

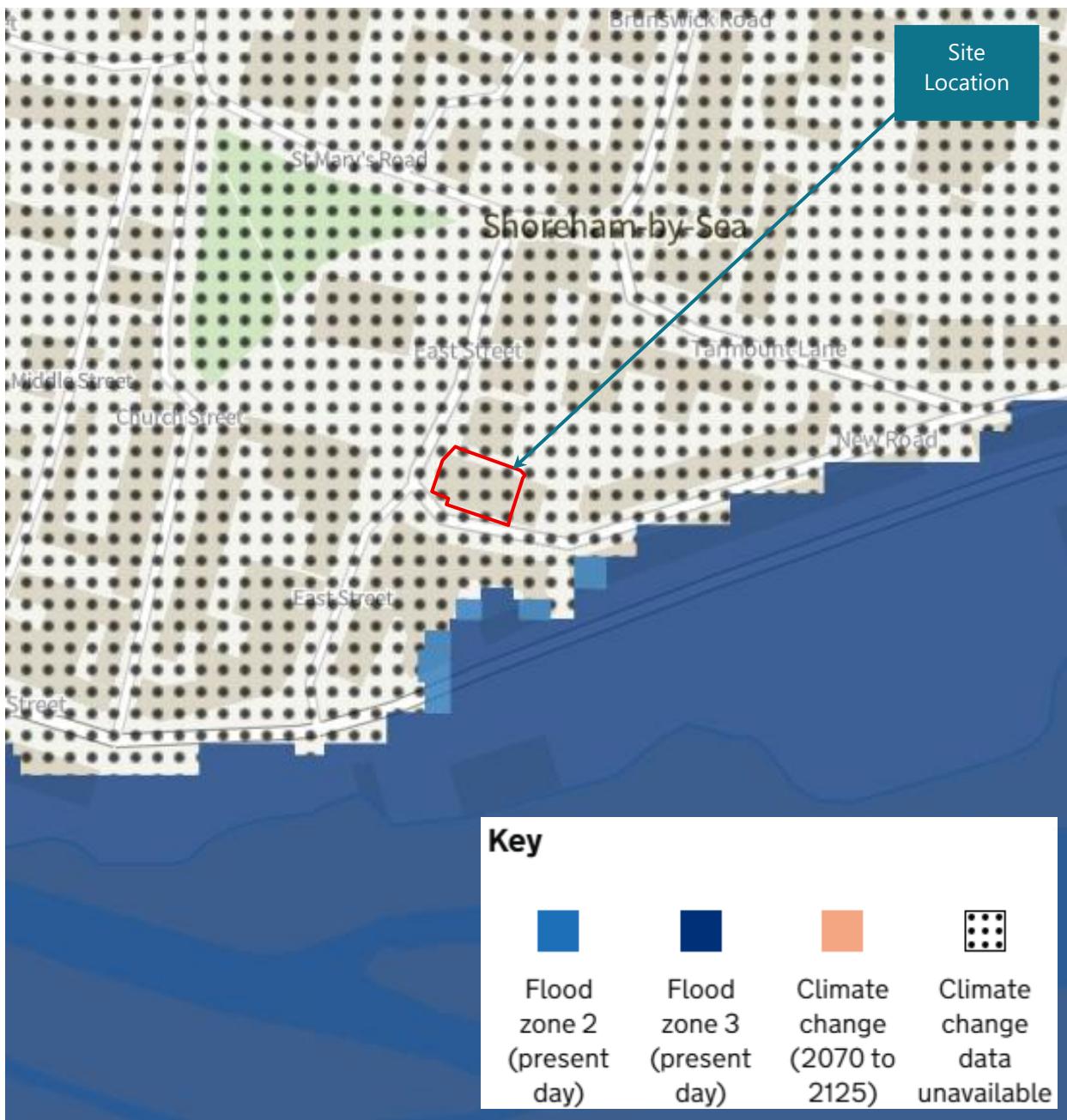
Environment Agency Flood Maps

**Environment Agency Main Rivers Map**



Environment Agency Flood Map for Planning

The site is located in Flood Zone 1

**Environment Agency Flood Map for Planning (with Climate Change)**

From: PSO West Sussex <PSOWestSussex@environment-agency.gov.uk>
Sent: 03 September 2025 09:35
To: John Pakenham <jpakenham@gta-civils.co.uk>
Cc: SSD Enquiries <SSDEnquiries@environment-agency.gov.uk>
Subject: RE: EIR2025/24405 - Data Request - St Mary's Church Hall & 1-1a New Road, Shoreham-by-Sea, BN43 5ZQ

Dear John,

Thank you for your Product 4 data request for **St Mary's Church Hall & 1-1a New Road, Shoreham-by-Sea, BN43 5ZQ**.

Please be advised that your requested site is within Flood Zone 1. We are therefore unable to provide Product 4/Flood Risk Assessment data from our detailed fluvial or tidal models which is relevant to your site. Please see the attached letter and maps that will provide further information.

This information is supplied subject to the notice which can be viewed via the following link:

<http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Rights of appeal: If you are not satisfied you can contact us within 2 calendar months to ask for our decision to be reviewed. We shall review our response to your request and give you our decision in writing within 40 working days.

If you are still not satisfied following this, you can raise a concern with the Information Commissioner, who is the statutory regulator for Freedom of Information and the Environmental Information Regulations. The contact details are:

- Address: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF
- Tel: 0303 123 1113
- Website: <http://ico.org.uk>

If you have any further queries about this request, please do not hesitate to contact us at psowestsussex@environment-agency.gov.uk.

Kind regards,

Amy O'Donnell (she/her)

Flood & Coastal Risk Officer

Partnership and Strategic Overview West Sussex, Solent and South Downs

Environment Agency | Teville Gate House, Teville Road, Worthing, West Sussex, BN11 1UR

PSOWestSussex@environment-agency.gov.uk



Environment
Agency



Legend

- Site Boundary
- 0.5% AEP (2012) (Defended)
- 0.5% AEP (2070) (Defended)
- 0.5% AEP (2115) (Defended)
- 0.1% AEP (2012) (Defended)

Annual Exceedance Probability (AEP) The probability of a flood of a particular magnitude, or greater occurring in any given year.

Scale: 1:10,000

0 0.225 0.45
Kilometers



Legend

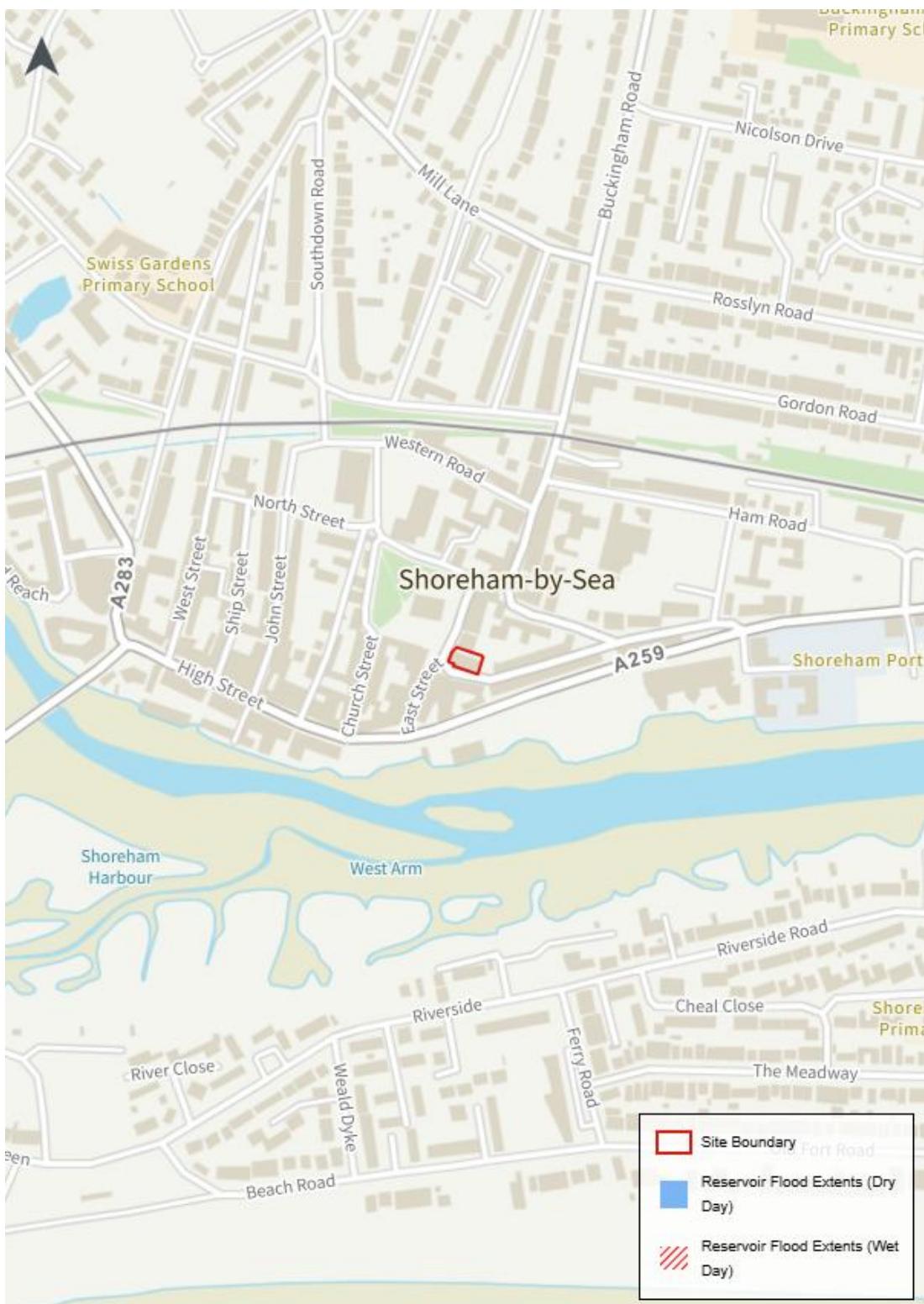
- Site Boundary
- 0.5% AEP (2012) (Undefended)
- 0.5% AEP (2070) (Undefended)
- 0.5% AEP (2115) (Undefended)
- 0.1% AEP (2012) (Undefended)

Annual Exceedance Probability (AEP) The probability of a flood of a particular magnitude, or greater occurring in any given year.

Scale: 1:10,000

0 0.225 0.45
Kilometers

**Environment Agency Surface Water Flood Extents Map**



Environment Agency Flood Risk from Reservoirs

The site is clear from the risk of flooding from this source

**DEFRA Historical Flooding Map**

Neither this site nor anywhere in the vicinity has been affected by flooding in the past

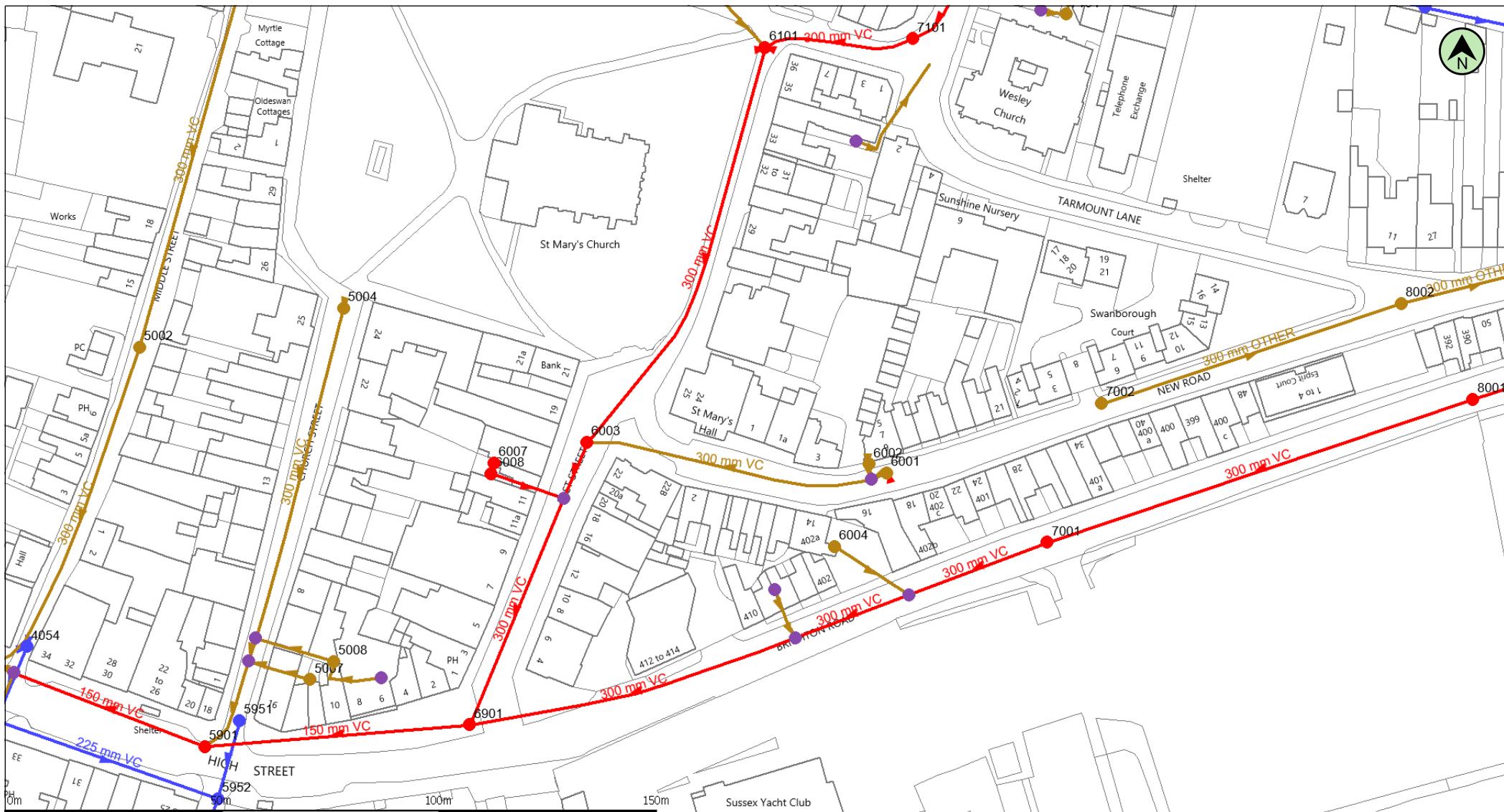
Appendix C

Topographic Survey, Sewer Records & Excerpts from CCTV Survey



1094SM | St Marys | 24-25 East Street, Shoreham

1094SM | St Marys | 24-25 East Street, Shoreham



(c) Crown copyright and database rights 2025 Ordnance Survey AC0000808122

Date: 20/08/25

Scale: 1:1250

Map Centre: 521667,105070

Data updated: 23/07/25

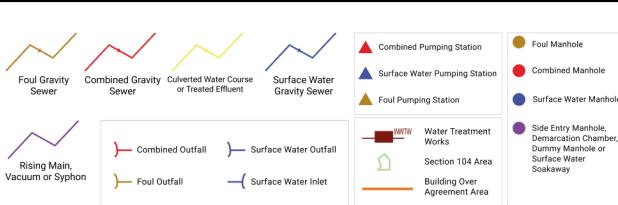
Our Ref: 1856222 - 1

Wastewater Plan A4
Powered by digitat

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2025 Ordnance Survey AC0000808122. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

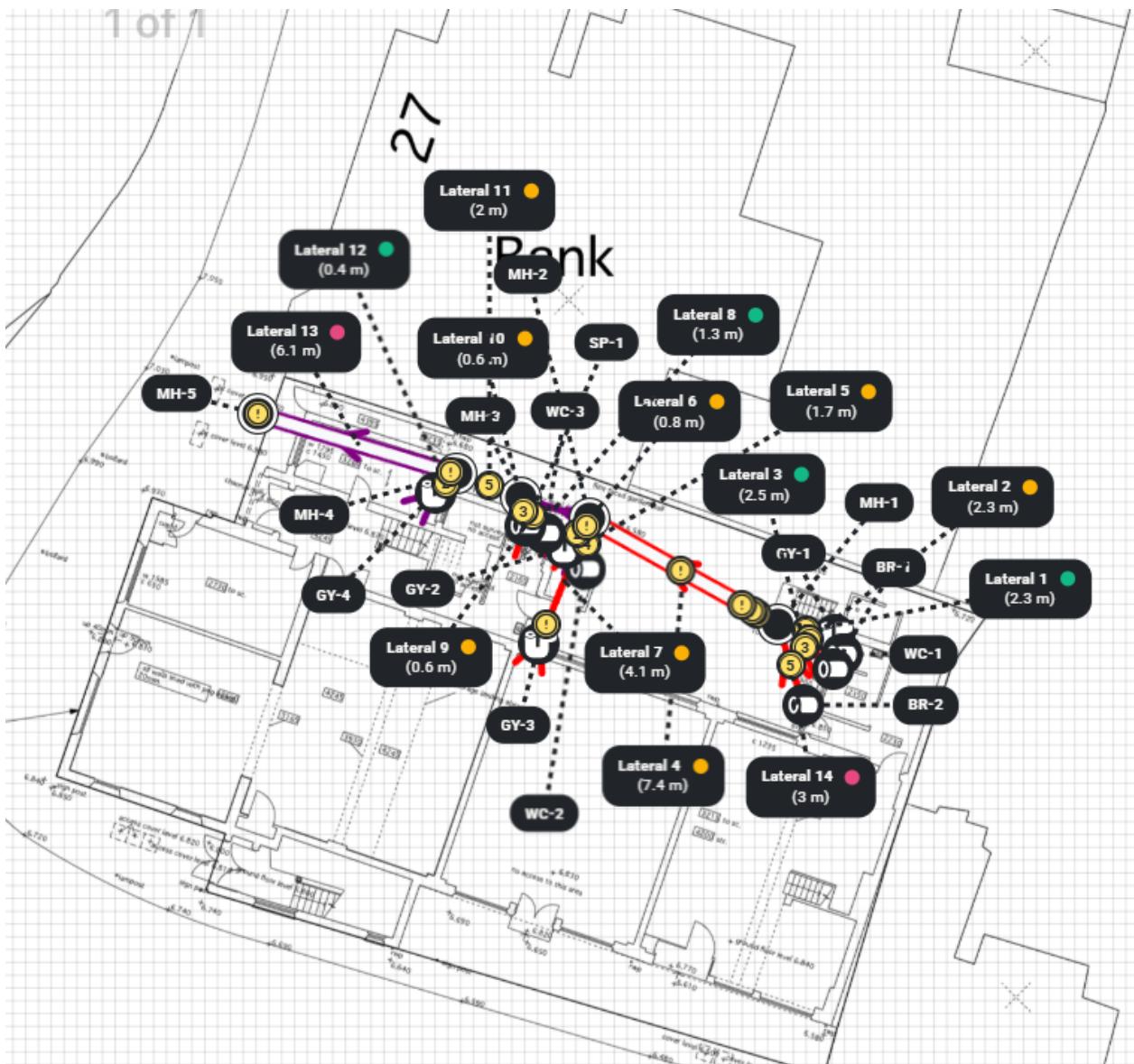
WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.



kdaines@gtacivils.co.uk

14008/FVV







Happy Drains
Lees@happydrains.co.uk

PDF Report

2025-08-26

C1016241

MSCC5 (Commercial)

25 East Street, Shoreham-by-Sea, West Sussex, BN43 5ZQ,
United Kingdom

Supplier

Organization Happy Drains

Engineer Ross Perry

Surveyor certification number

Client

Name W Group

Contact Phone Number 07825874605

Address 25 East Street, Shoreham-by-Sea, West Sussex, BN43 5ZQ, United Kingdom

Job Reference

Click for the FULL LIVE REPORT & plan

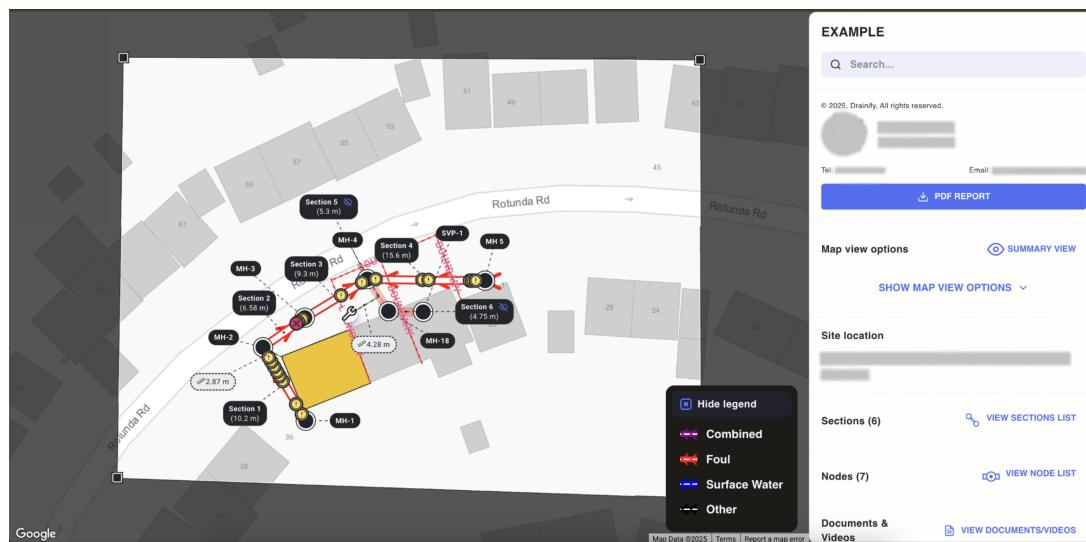


Produced using
Drainify



Interactive Report

Experience your report in full detail with our
interactive viewer



Interactive data visualizations

Full plan details

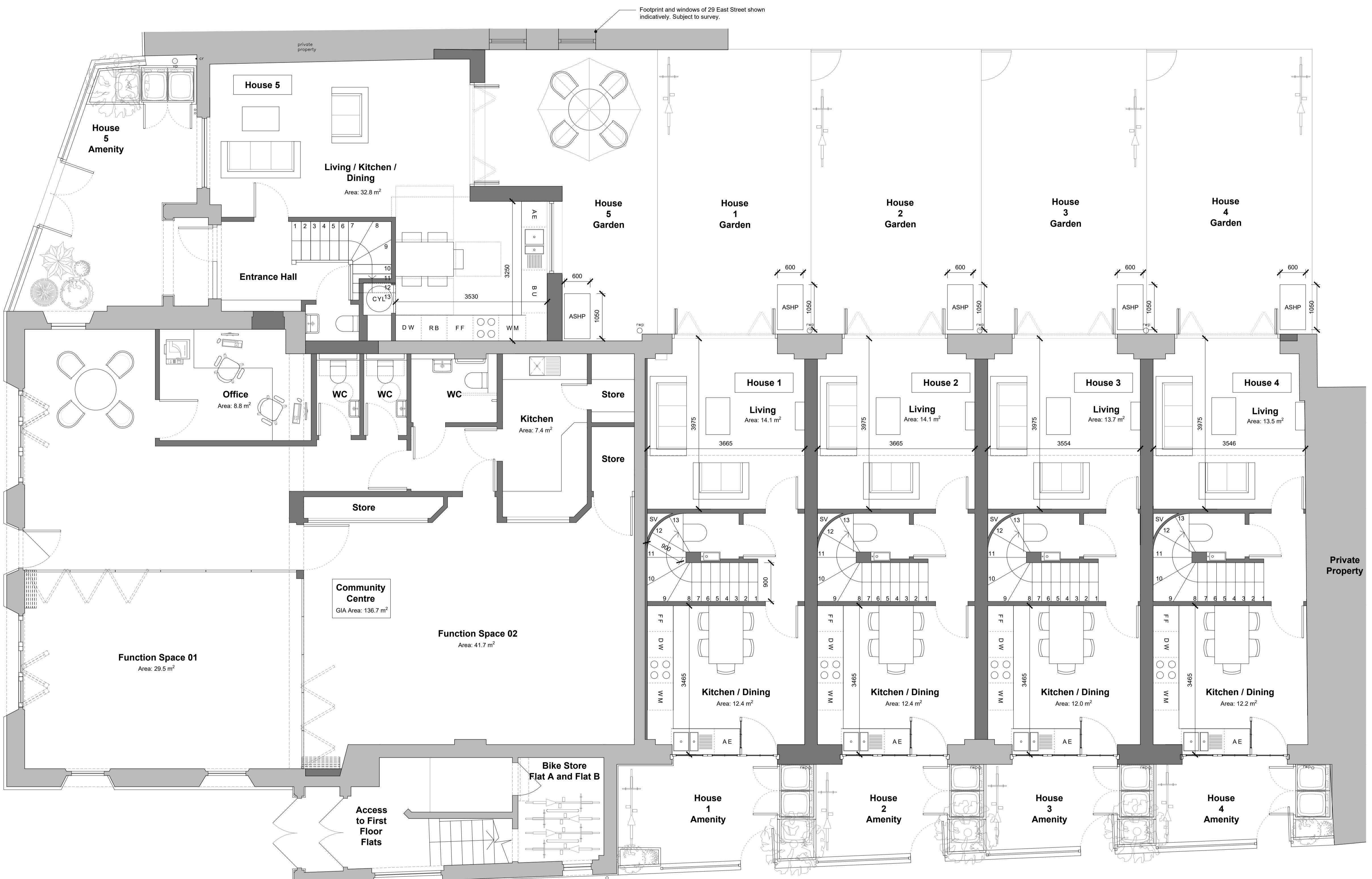
Easy sharing and downloading

[Open Interactive Report](#)

Click the button above to access your full interactive report experience

Appendix D

Architect's Scheme Drawings



drawing title:
Proposed
Ground Floor Plan

scale @ A1:

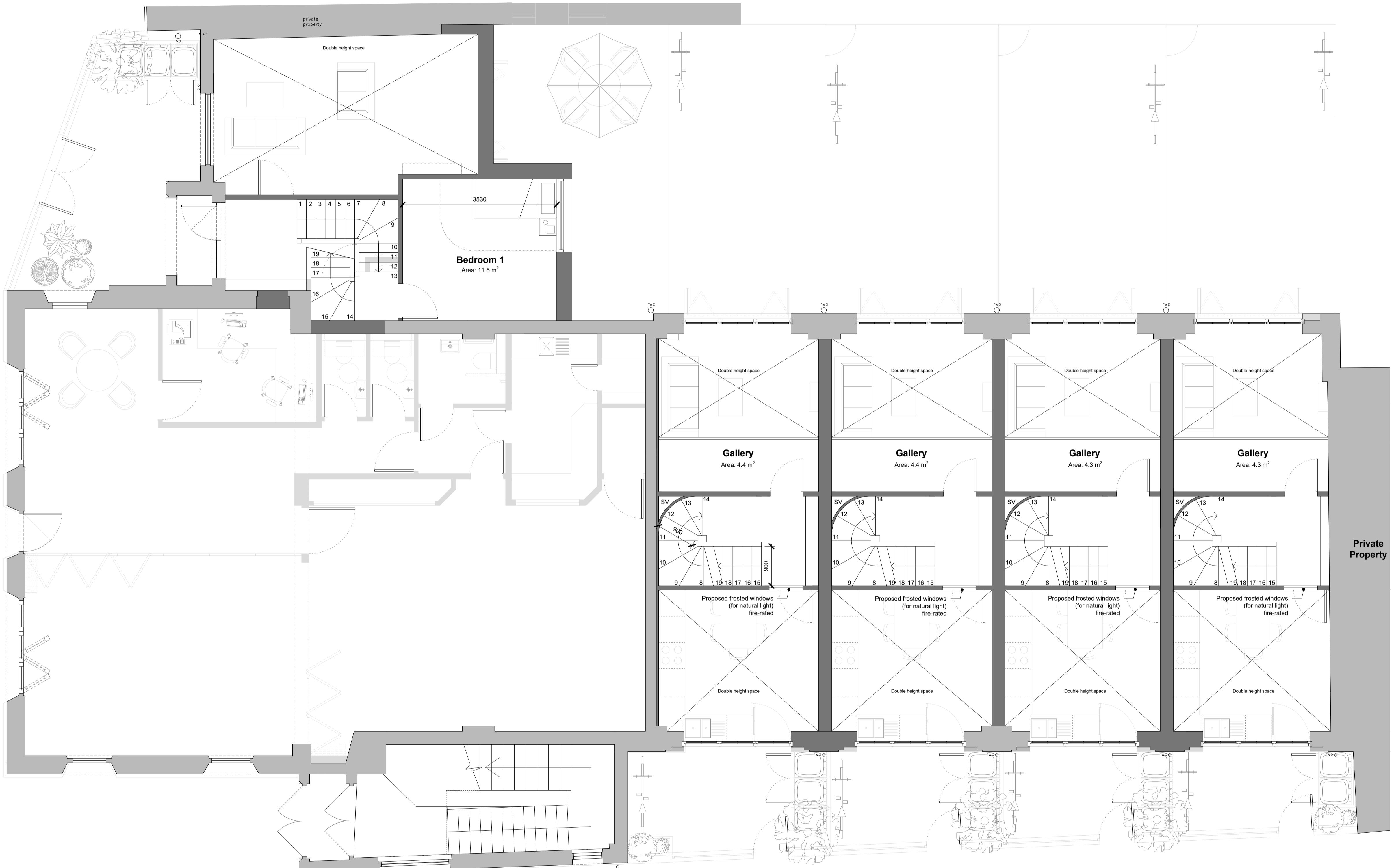
1:50

(21)000

drawing no.

revision

C



C	21/10/2025	Issued for information. Furniture layouts amended. House 05 stair layout amended.	SP	PT
B	19/09/2025	Issued for information.	SP	PT
A	04/09/2025	Issued for information.	SP	PT
/	28/08/2025	Issued for information.	SP	PT

rev. date notes drawn checked

This drawing is the property of Willow Design & Planning Ltd © and protected by the Copyright, Designs and Patents Act, 1988. Do Not Scale. All dimensions and conditions are to be checked on site prior to preparing drawings or commencing any work.

client:
Empire Land and Homes Ltd.

architect:
WILLOW
DESIGN PLANNING DELIVERY
370 The Yard Brighton Road,
Shoreham by Sea,
West Sussex, BN43 6RE
tel: 01273 456519
info@willowarchitects.net

issued for:
Information

drawn by: SP checked by: PT

project north:



drawing title:
Proposed
Lower First Floor Plan

scale @ A1:
1:50

(21)001

drawing no. C

revision



1 Proposed
1 First Floor Plan
1:50
0 0.5 1.0 2.0 3.0 4.0 5.0
Scale in metres

drawing title: Proposed
First Floor Plan
scale @ A1: 1:50

(21)002
drawing no. C
revision

C 21/10/2025 Issued for information, Furniture layouts amended. House 05 stair layout amended. SP PT
B 19/09/2025 Issued for information. SP PT
A 04/09/2025 Issued for information. SP PT
/ 28/08/2025 Issued for information. SP PT
rev. date notes drawn checked

This drawing is the property of Willow Design & Planning Ltd © and protected by the Copyright, Designs and Patents Act, 1988. Do Not Scale. All dimensions and conditions are to be checked on site prior to preparing drawings or commencing any work.

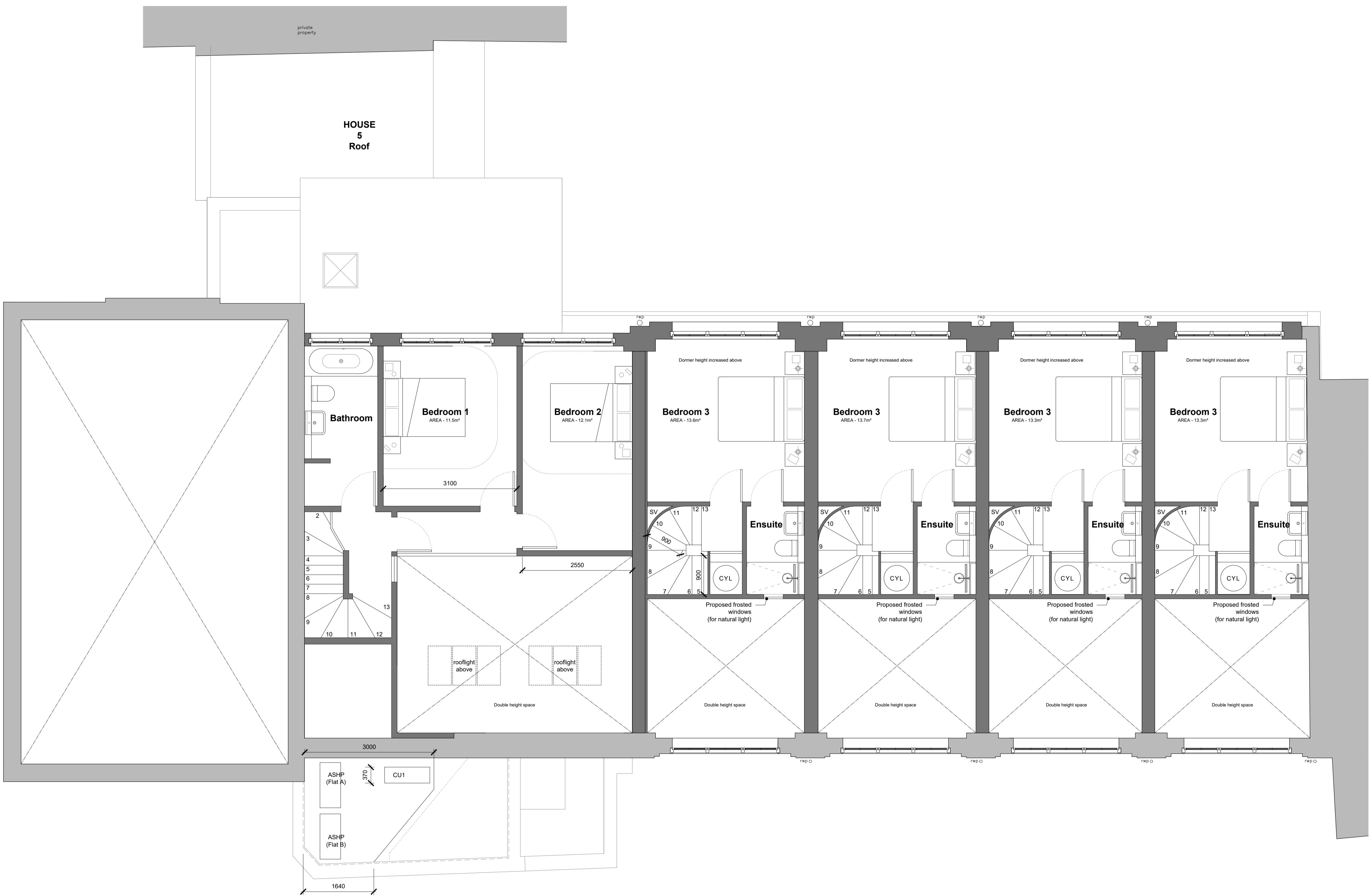
client: Empire Land and Homes Ltd.

architect: **WILLOW**
DESIGN PLANNING DELIVERY
370 The Yard Brighton Road,
Shoreham by Sea,
West Sussex, BN43 6RE
tel: 01273 456519
info@willowarchitects.net

issued for: Information
drawn by: SP checked by: PT

project north:





1 Proposed
1:50
0 0.5 1.0 2.0 3.0 4.0 5.0
Scale in metres

C 21/10/2025 Issued for information. Furniture layouts amended. SP PT

B 19/09/2025 Issued for information. SP PT

A 04/09/2025 Issued for information. SP PT

/ 28/08/2025 Issued for information. SP PT

rev. date notes drawn checked

This drawing is the property of Willow Design & Planning Ltd © and protected by the Copyright, Designs and Patents Act, 1988. Do Not Scale. All dimensions and conditions are to be checked on site prior to preparing drawings or commencing any work.

client:
Empire Land and Homes Ltd.

architect:
WILLOW
DESIGN PLANNING DELIVERY
370 The Yard Brighton Road,
Shoreham by Sea,
West Sussex, BN43 6RE
tel: 01273 456519
info@willowarchitects.net

issued for:
Information

drawn by:
SP checked by:
PT

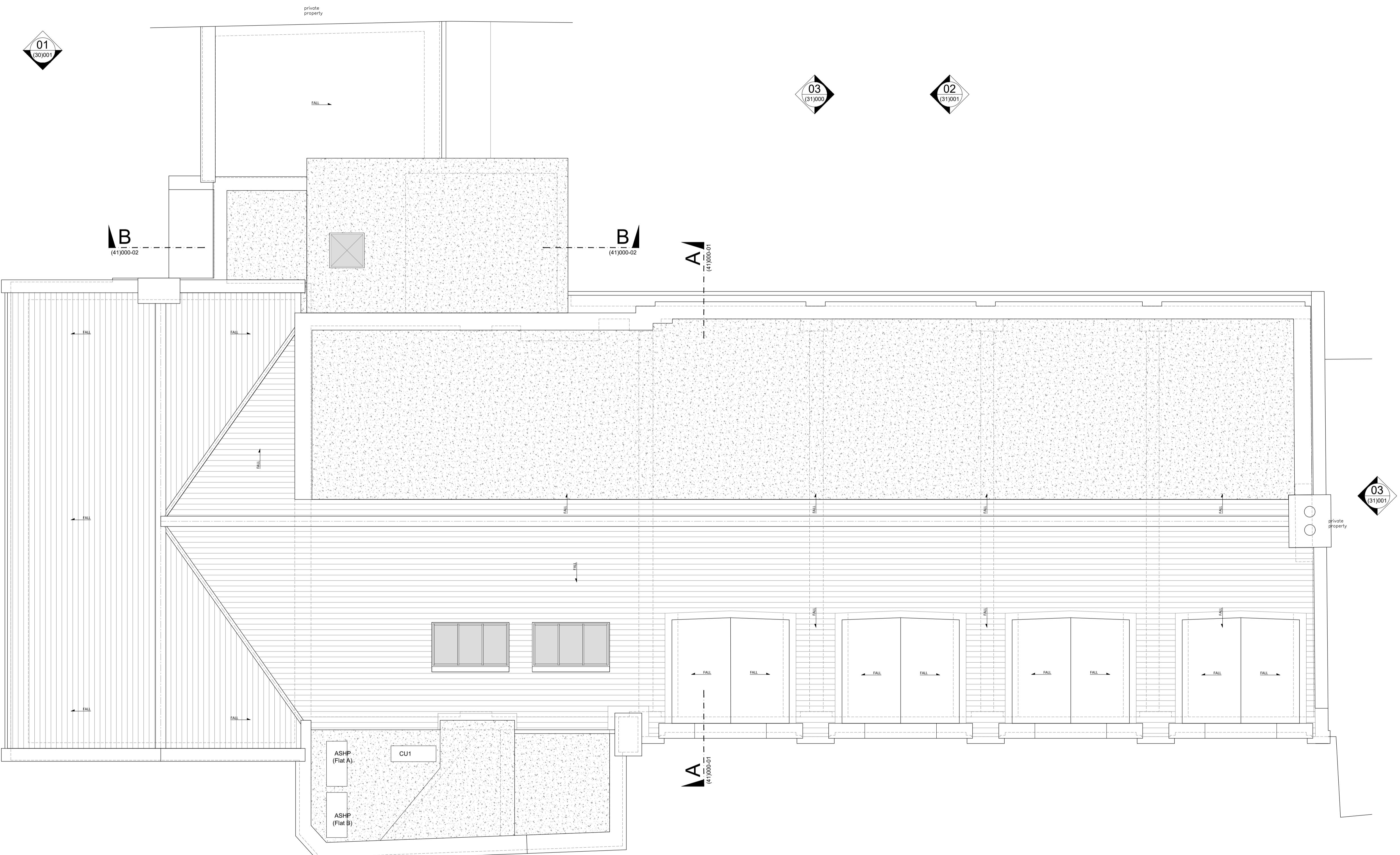
project north:



drawing title:
Proposed
Second Floor Plan
scale @ A1:
1:50

(21)003
drawing no.
revision

key:			
B	21/10/2025	Issued for information. Massing adjusted. MEP equipment indicated.	SP PT
A	19/09/2025	Issued for information.	SP PT
/	04/09/2025	Issued for information.	SP PT
rev. date	notes	drawn	checked
This drawing is the property of Willow Design & Planning Ltd © and protected by the Copyright, Designs and Patents Act, 1988. Do Not Scale. All dimensions and conditions are to be checked on site prior to preparing drawings or commencing any work.			
client:	Empire Land and Homes Ltd.		
architect:	WILLOW DESIGN PLANNING DELIVERY		
370 The Yard Brighton Road, Shoreham by Sea, West Sussex, BN43 6RE tel: 01273 456519 info@willowarchitects.net			
issued for:	Information		
drawn by:	SP	checked by:	PT
project north:			
drawing title:	Proposed Roof Plan		
scale @ A1:	1:50		
1	Proposed Roof Plan		
0 0.5 1.0 2.0 3.0 4.0 5.0			
Scale in metres			



1 Proposed
Roof Plan 1:50
0 0.5 1.0 2.0 3.0 4.0 5.0
Scale in metres

*Roof plan drawn indicatively from measured survey information.

(21)004

B

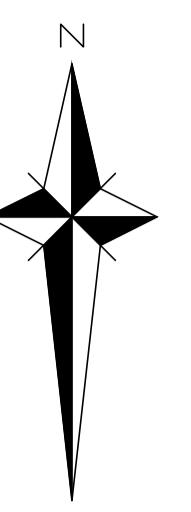
drawing no. revision

Appendix E

Proposed Drainage Strategy Layout & Drainage Calculation Sheets

GENERAL NOTES

- The location, size, depth and identification of existing services may be shown or referred to on this drawing have been assessed from non intrusive observations, recordings, trials or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. Any discrepancies shall be notified to gta prior to works commencing.
- Tender or billing drawings shall not be used for construction or the ordering of materials.
- Do not scale. All dimensions and levels to be site confirmed.
- This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
- Copyright : This drawing must not be copied, amended or reproduced without the prior written agreement of gta.
- All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the clients risk. gta hold no responsibility for resulting abortive works or costs.



DESIGN NOTES

- SURFACE WATER DISCHARGE RATES CALCULATED BASED ON 1 IN 100YR + 45% CC STORM EVENT.
- EXISTING SURFACE WATER DISCHARGE RATE CALCULATED AT 1.26L, BASED ON AN APPLIED IMPERMEABLE AREA OF 0.025HA. PROPOSED SURFACE WATER DISCHARGE RATE CALCULATED AT 13.0L, BASED ON AN APPLIED IMPERMEABLE AREA OF 0.021HA.
- NO OPPORTUNITY FOR SUDS DUE TO DEPTH AND SPACE CONSTRAINTS.
- ALL EXISTING DRAINS SHOWN BASED ON CCTV SURVEY BY 'HAPPY DRAINS' ON 26/08/25
- ALL DRAIN POINTS SUBJECT TO CONFIRMATION BY ARCHITECT

KEY

- Existing Foul Water Sewer
- Existing Combined Water Sewer
- Proposed Combined Water Sewer
- Proposed Surface Water Sewer
- Proposed Foul Water Sewer
- RWP
- Proposed Rainwater Pipe
- RP
- Proposed Rodding Point
- PPCP
- Proposed 800mm³ Catchpit
- FIC
- Proposed 450mm³ Foul Inspection Chamber
- CW
- Proposed 450mm³ Combined Sewer Chamber
- SVP
- Proposed Sol Vent Pipe
- Direction of Flow
- Non-Return Valve

→

P4	Updated to reflect client comments	20.10.25	KW	FV
P3	Updated with redundant existing drainage hidden	15.10.25	AW	FV
P2	Updated to reflect client comments	14.10.25	AW	FV
P1	Initial Issue	01.10.25	AW	FV
Rev	Amendments	Date	Dsn	Chk

Status PRELIMINARY

Client W GROUP

Architect WILLOW

Project ST MARY'S CHURCH SHOREHAM

Title PROPOSED DRAINAGE STRATEGY PLAN

Date OCTOBER 2025 Scale @ A1 1:100

Clients Ref. Project Ref. 14008

gta Civils & Transport
Gloucester House, 66a Church Walk,
Burges Hill, West Sussex, RH15 9AS
Tel: 01444 871444 Web: www.gtacivils.co.uk

Drawing Number 14008_1100 Rev. P4



Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	45	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
Depth/Area 1	0.025	5.00	6.700		-16.711	80.936	0.400
1			6.800	1200	-7.184	79.315	0.600
2			7.000	1200	4.324	76.986	1.050

Links

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)
1.000	Depth/Area 1	1	9.664	6.300	6.200	0.100	96.6	100	5.21
1.001	1	2	11.741	6.200	5.950	0.250	47.0	100	5.38

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)
1.000	0.782	6.1	6.6	0.300	0.500	0.025
1.001	1.127	8.9	6.6	0.500	0.950	0.025

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s) x
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume x
Winter CV	1.000	Additional Storage (m³/ha)	20.0	

Storm Durations

30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
100	45	0	0

**Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	Depth/Area 1	16	6.700	0.400	20.3	1.6532	0.0000	FLOOD RISK
30 minute summer	1	19	6.800	0.600	16.4	0.6786	0.2942	FLOOD
30 minute summer	2	17	6.045	0.095	14.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link Node	DS Node	Outflow (l/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	Depth/Area 1	1.000	1	16.4	2.668	0.0756	
30 minute summer	1	1.001	2	14.2	1.609	0.0909	12.5

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	45	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Nodes

	Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
Depth/Area 1	0.021		5.00	6.700		-16.711	80.936	0.400
1				6.800	1200	-7.184	79.315	0.600
2				7.000	1200	4.324	76.986	1.050

Links

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)
1.000	Depth/Area 1	1	9.664	6.300	6.200	0.100	96.6	100	5.21
1.001	1	2	11.741	6.200	5.950	0.250	47.0	100	5.38

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)
1.000	0.782	6.1	5.5	0.300	0.500	0.021
1.001	1.127	8.9	5.5	0.500	0.950	0.021

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s) x
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume x
Winter CV	1.000	Additional Storage (m³/ha)	20.0	

Storm Durations

30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
100	45	0	0

**Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	Depth/Area 1	16	6.700	0.400	17.0	1.0651	0.0000	FLOOD RISK
30 minute summer	1	20	6.725	0.525	14.4	0.5936	0.0000	FLOOD RISK
30 minute summer	2	17	6.045	0.095	13.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link Node	DS Node	Outflow (l/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	Depth/Area 1	1.000	1	14.4	2.337	0.0756	
30 minute summer	1	1.001	2	13.5	1.527	0.0909	10.8



Civil Engineering - Transport Planning - Flood Risk

GTA Civils & Transport, Maple House, 192-198 London Road, Burgess Hill, West Sussex, RH15 9RD

T: 01444 871444 E: enquiries@gtacivils.co.uk www.gtacivils.co.uk

GTA Civils & Transport Limited, Registered in England No. 11917461. VAT Registration No. 319 2609 02

