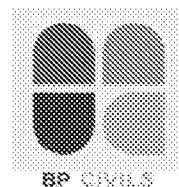
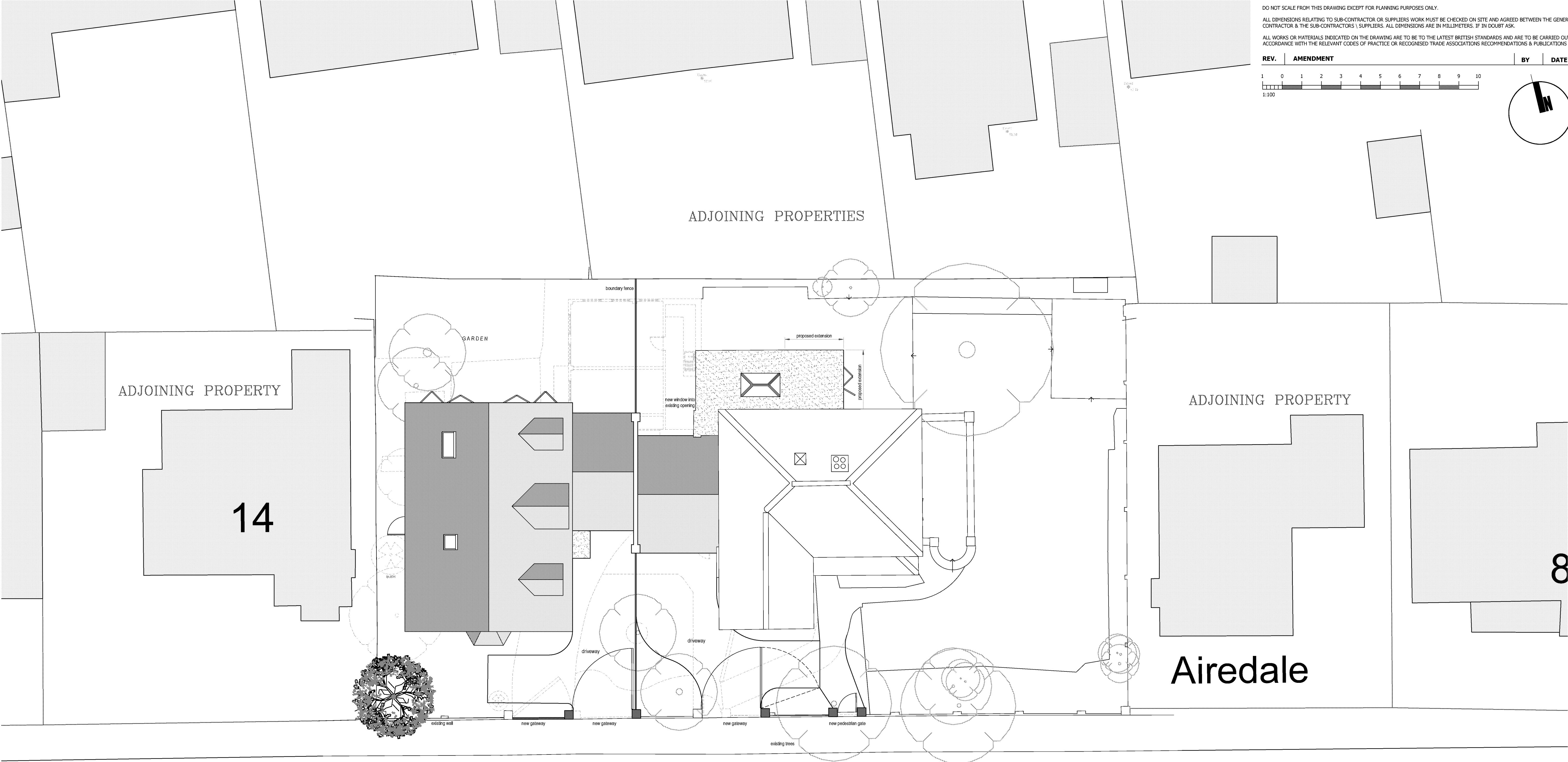


APPENDICES



Appendix A Site Layout



DO NOT SCALE FROM THIS DRAWING EXCEPT FOR PLANNING PURPOSES ONLY.

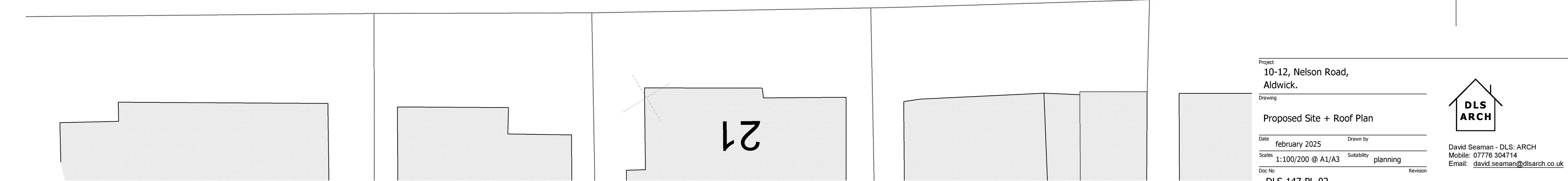
ALL DIMENSIONS RELATING TO SUB-CONTRACTOR OR SUPPLIERS WORK MUST BE CHECKED ON SITE AND AGREED BETWEEN THE GENERAL CONTRACTOR & THE SUB-CONTRACTORS' SUPPLIERS. ALL DIMENSIONS ARE IN MILLIMETERS. IF IN DOUBT ASK.

ALL WORKS OR MATERIALS INDICATED ON THE DRAWING ARE TO BE TO THE LATEST BRITISH STANDARDS AND ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT CODES OF PRACTICE OR RECOGNISED TRADE ASSOCIATIONS RECOMMENDATIONS & PUBLICATIONS

REV.	AMENDMENT	BY	DATE
1	0		
2	1		
3	2		
4	3		
5	4		
6	5		
7	6		
8	7		
9	8		
10	9		

1:100

NELSON ROAD



Project
10-12, Nelson Road,
Aldwick.

Drawing
Proposed Site + Roof Plan

Date
february 2025

Scales
1:100/200 @ A1/A3

Suitability
planning

Doc No
DLS-147-PL-02

Drawn by
David Seaman - DLS: ARCH

Mobile: 07776 304714

Email: david.seaman@dlsarch.co.uk

David Seaman - DLS: ARCH
Mobile: 07776 304714
Email: david.seaman@dlsarch.co.uk

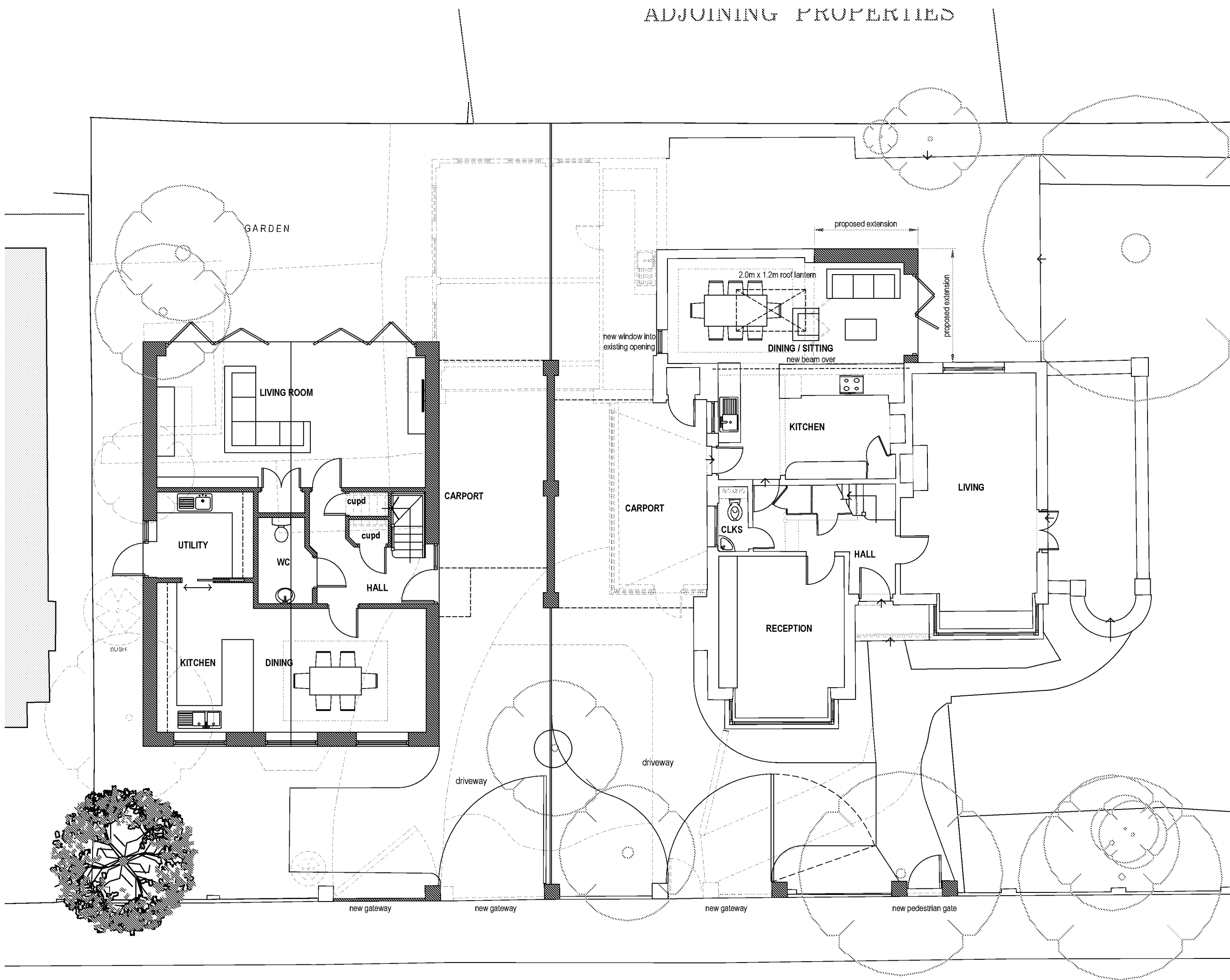
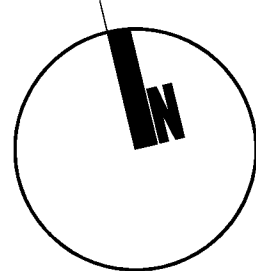
DO NOT SCALE FROM THIS DRAWING EXCEPT FOR PLANNING PURPOSES ONLY.

ALL DIMENSIONS RELATING TO SUB-CONTRACTOR OR SUPPLIERS WORK MUST BE CHECKED ON SITE AND AGREED BETWEEN THE GENERAL CONTRACTOR & THE SUB-CONTRACTORS / SUPPLIERS. ALL DIMENSIONS ARE IN MILLIMETERS, IF IN DOUBT ASK.

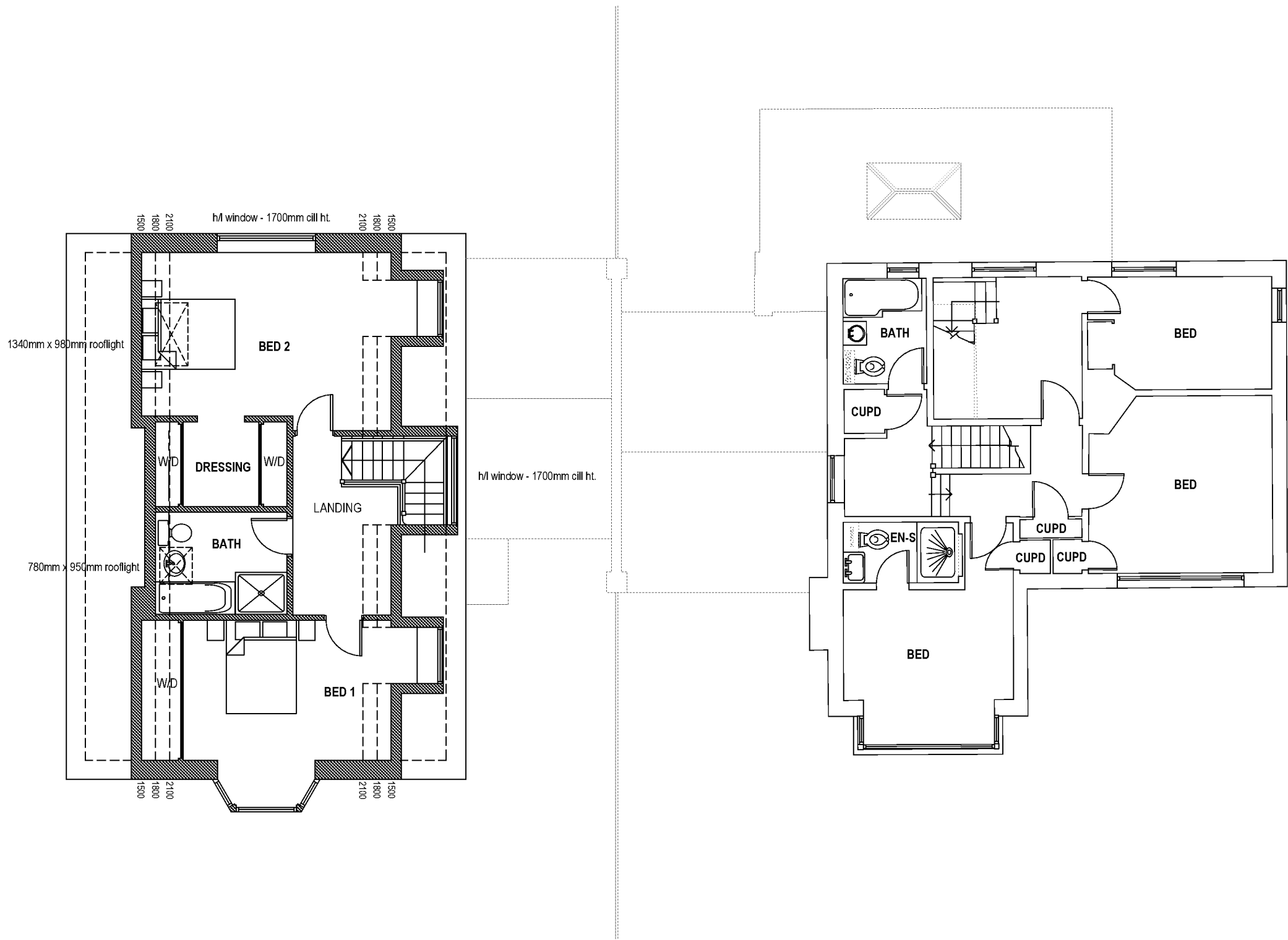
ALL WORKS OR MATERIALS INDICATED ON THE DRAWING ARE TO BE TO THE LATEST BRITISH STANDARDS AND ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT CODES OF PRACTICE OR RECOGNISED TRADE ASSOCIATIONS RECOMMENDATIONS & PUBLICATIONS

REV.	AMENDMENT	BY	DATE
1	0		
2	1		
3	2		
4	3		
5	4		
6	5		
7	6		
8	7		
9	8		
10	9		

1:100



GROUND FLOOR PLAN



FIRST FLOOR PLAN

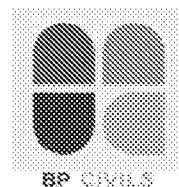
NELSON ROAD

legend	
	existing walls
	new walls
	existing to be demolished

Project	
10-12, Nelson Road, Aldwick.	
Drawing	
Proposed Floor Plans	
Date	february 2025
Drawn by	
Scales	1:100/200 @ A1/A3
Suitability	planning
Doc No	DLS-147-PL-03



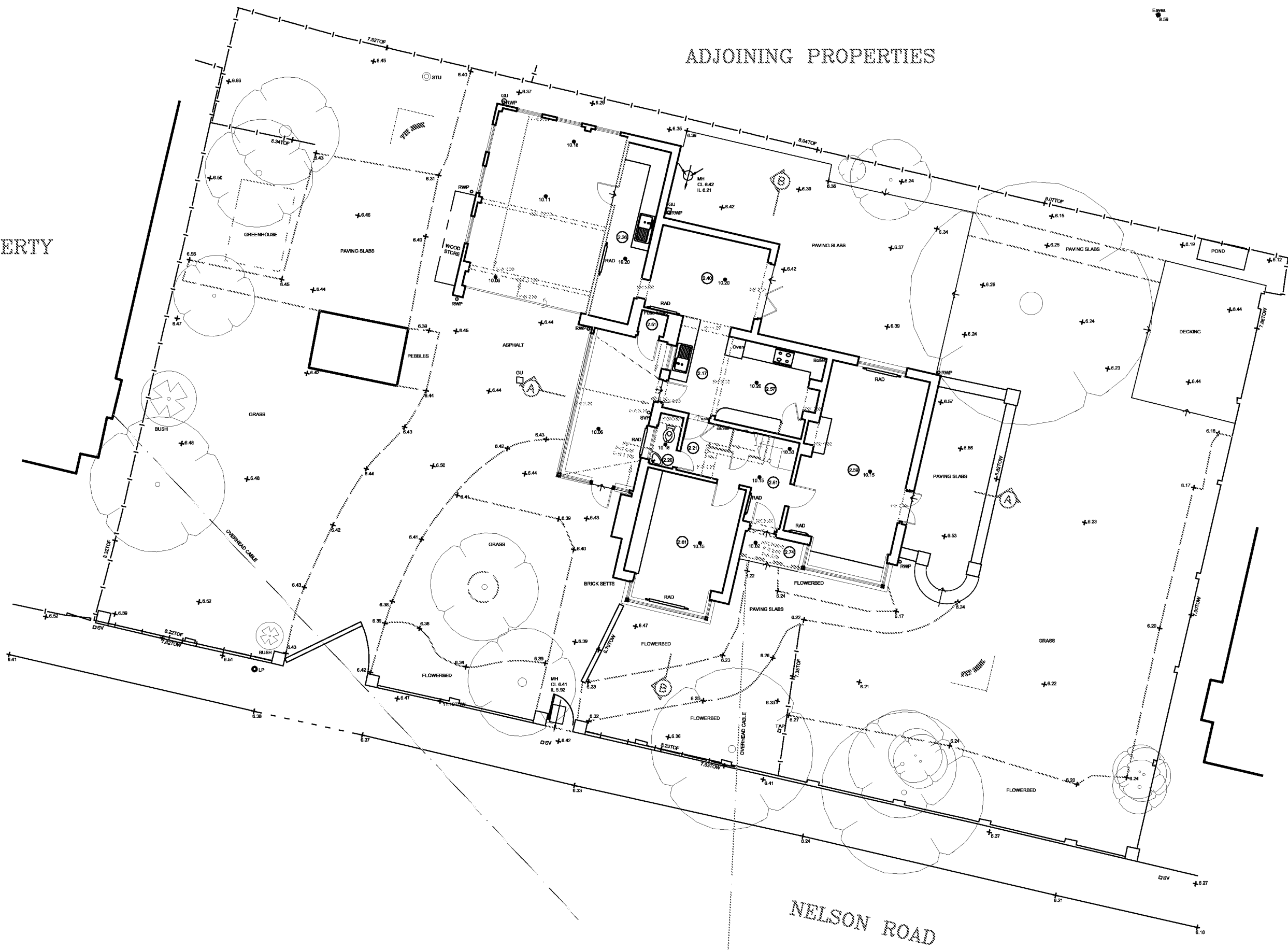
David Seaman - DLS: ARCH
Mobile: 07776 304714
Email: david.seaman@dlsarch.co.uk



Appendix B Topographic Survey



APPROXIMATE
DIRECTION
OF NORTH



copyright

Copyright of this drawing is retained by HB Surveys Ltd. Any discrepancies between this drawing and any other information should be reported to HB Surveys Ltd.

Drawing Naming Convention:

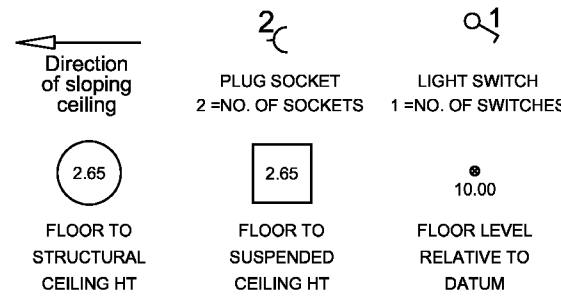
Job No/Code/Dwg type/Location/Ref

Code: 02 = Existing
Dwg Type: B = Building E = Elevation
S = Section T = Topographical
Location: B = Basement C = Ceiling Plan
E = External F = Front
G = Ground S = Side
1 = First R = Rear
R = Roof GA = General Layout
M = Mosaic AA = Section A-A
Ref Ref to individual dwg I.D. (e.g. Revision)

Standard Abbreviations (where applicable):

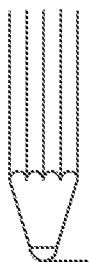
Building Survey	Land Survey
AB AIR BRICK ACU AIR CONDITIONING UNIT AH ACCESS HATCH AP ACCESS PANEL AV AIR VALVE BH BEAM HT BR BOILER BSL BEAM SLOTT LEVEL CB CUPBOARD CC CEILING CHANGE CH CLEAR INTERNAL HT CA CILL TO APEX HT CH CILL TO HEAD HT CS CILL TO SPRING HT DB DOOR BASE HT DH DOOR HEAD HT FA FIRE ALARM FAB FIRE ALARM BELL FX FIRE EXTINGUISHER FA FLOOR TO APEX HT FC FLOOR TO CILL HT F-H FLOOR TO HEAD HT F-S FLOOR TO SPRING HT GEA GROSS EXTERNAL AREA GIA GROSS INTERNAL AREA GU GULLY HT HEATER HW HOT WATER TANK MA NET INTERNAL AREA NTS NOT TO SCALE RAD RADIATOR RE RECESS HEAD HEIGHT RFV RAISED FLOOR VOID RL ROOF LIGHT RSH ROLLER SHUTTER RWP RAIN WATER PIPE SPO SPOT LIGHT SVP SOIL VENT PIPE V VENT	B BOLLARD BS BRICK SETTS BT B.T. COVER CAM CAMERA CATV CABLE TV COVER CL COVER LEVEL EL ELECTRIC COVER EP ELECTRIC POLE ER EARTH ROD FB FLOWERBED FH FIRE HYDRANT FW FOUL WATER GU GULLY GV GAS VALVE IC INSPECTION COVER IL INVERT LEVEL LP LAMP POST MH MANHOLE OHT OVERHEAD TELECOM P POST PM PARKING METER PI PIPE RD RODDING EYE RS ROAD SIGN RTW RETAINING WALL RWP RAIN WATER PIPE SA SITE AREA SI SIGN STU TREE STUMP SV STOP VALVE SVP SOIL VENT PIPE SW STORM WATER TOP TOP OF FENCE TOW TOP OF WALL TP TELEGRAPH POLE UTL UNABLE TO LIFT VP VENT PIPE WM WATER METER WT WATER TAP

Symbols (where applicable):



Notes:
The survey has been computed to ordnance survey 'active network'
All levels are in metres and relate to ordnance survey 'active network'
All direction arrows indicate UP unless otherwise stated.
Drainage pipe sizes (where shown) have been gauged from the surface (for safety reasons) and should be regarded as approximate only.
Visible features in the vicinity of any boundaries, as shown on this survey, may not represent the extent of legally conveyed ownership.
Whilst every effort has been made to determine wall materials, no guarantee is given. Materials should be regarded as assumed unless verified by a qualified third party.
Trees spread and height are approximate. Species should be regarded as assumed unless verified by a qualified third party.

Rev	Date	By	Description
-----	------	----	-------------



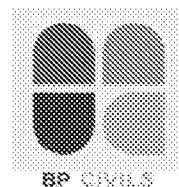
HB Surveys Ltd
Land & Measured Building Surveyors
Spring House, 60 Poplar Way, Midhurst, West Sussex GU39 9TA
t. 01730 814884 info@hbsurveys.com

Client: JANE STEVENTON

Project: 10-12 NELSON ROAD
ALDWICK
WEST SUSSEX

Drawing Title: EXISTING
TOPOGRAPHICAL SURVEY

Date: FEB 2025	Scale: 1:100@A1	Surveyor: KR	Drawn: KR	Checked: HB
Job No: 25001	Drawing No: 25015-02-T-E	Sheet No: 1 of 1	Rev:	



Appendix C Ground Management Ltd Site Investigation

GROUNDWATER MONITORING
AT
10-12 NELSON ROAD, ALDWICK
FOR
JANE STEVENTON

G6662

25 February 2025



Ground Management Ltd
Civil and Geotechnical Engineering Services

DOCUMENT CONTROL

Report Title: Groundwater Monitoring
10-12 Nelson Road, Aldwick

Report No./ Issue: G6662-01/1

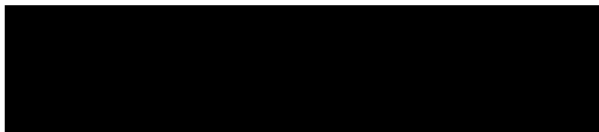
Report Status: Issued for Client Comment

Distribution: Jane Steventon PDF copy 25 February 2025

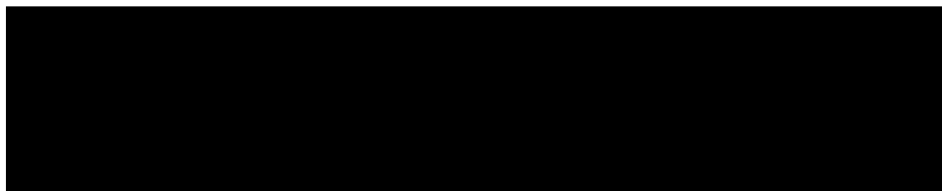
BP Civils

Prepared by: Alistair Tyler BSc MSc DIC CEng MICE

Signed:



Ground Management Ltd Robin Hill Farm Clay Lane Fishbourne Chichester West Sussex PO18 8AB



CONTENTS

1.0 Introduction

Figure 1: Site Location Plan

Figure 2: Exploratory Hole Location Plan

Exploratory Hole Logs: Boreholes BH1 and BH2

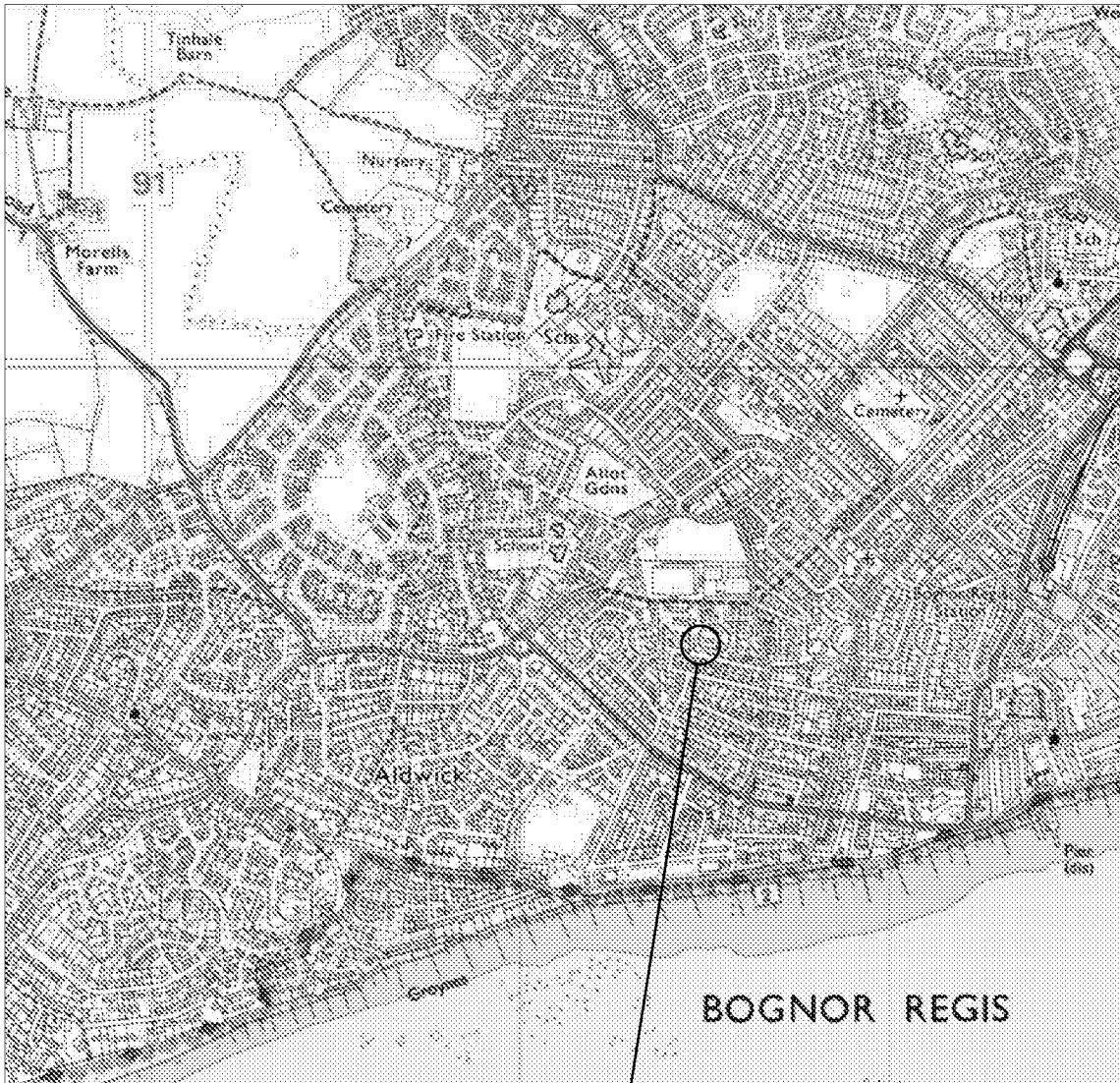
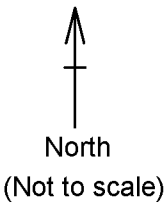
Groundwater Monitoring Results to 24 Feb 2025

Photographs

1.0 INTRODUCTION

- 1.1 Ground Management Ltd have installed groundwater monitoring 10-12 Nelson Road, Aldwick (location indicated on Figure 1) to inform drainage design for a proposed new residential development.
- 1.2 The work included excavation of two boreholes referenced BH1 and BH2 by dynamic sampling at locations indicated on Figure 2 each to a depths of 3m to investigate the ground profile and install standpipes to allow future monitoring of groundwater level. Borehole logs are attached.
- 1.3 The standpipes were installed on 17/2/25 and a record of the monitoring observations up to 24/2/25 is appended.
- 1.4 The work was carried out for Jane Steventon under instruction from BP Civils and nothing in this report confers or purports to confer on any third party, any benefit or any right to enforce any term of this report pursuant to the Contract (Rights of Third Parties) Act 1999.

Ground Management Ltd Civil and Geotechnical Engineering Services	Robin Hill Farm, Clay Lane, Fishbourne CHICHESTER, West Sussex PO18 8AB 01243 822222	PROJECT NO: G6662
		FIGURE REF: Figure 1
PROJECT: 10-12 Nelson Road, Aldwick	PREPARED: AJHT	
SECTION: Standpipe Installation	CHECKED: AJHT	
TITLE: Site Location Plan	DATE: Feb 2025	



Site Location

PROJECT: 10-12 Nelson Road, Aldwick

PREPARED: AJHT

SECTION: Standpipe Installation

CHECKED: AJHT

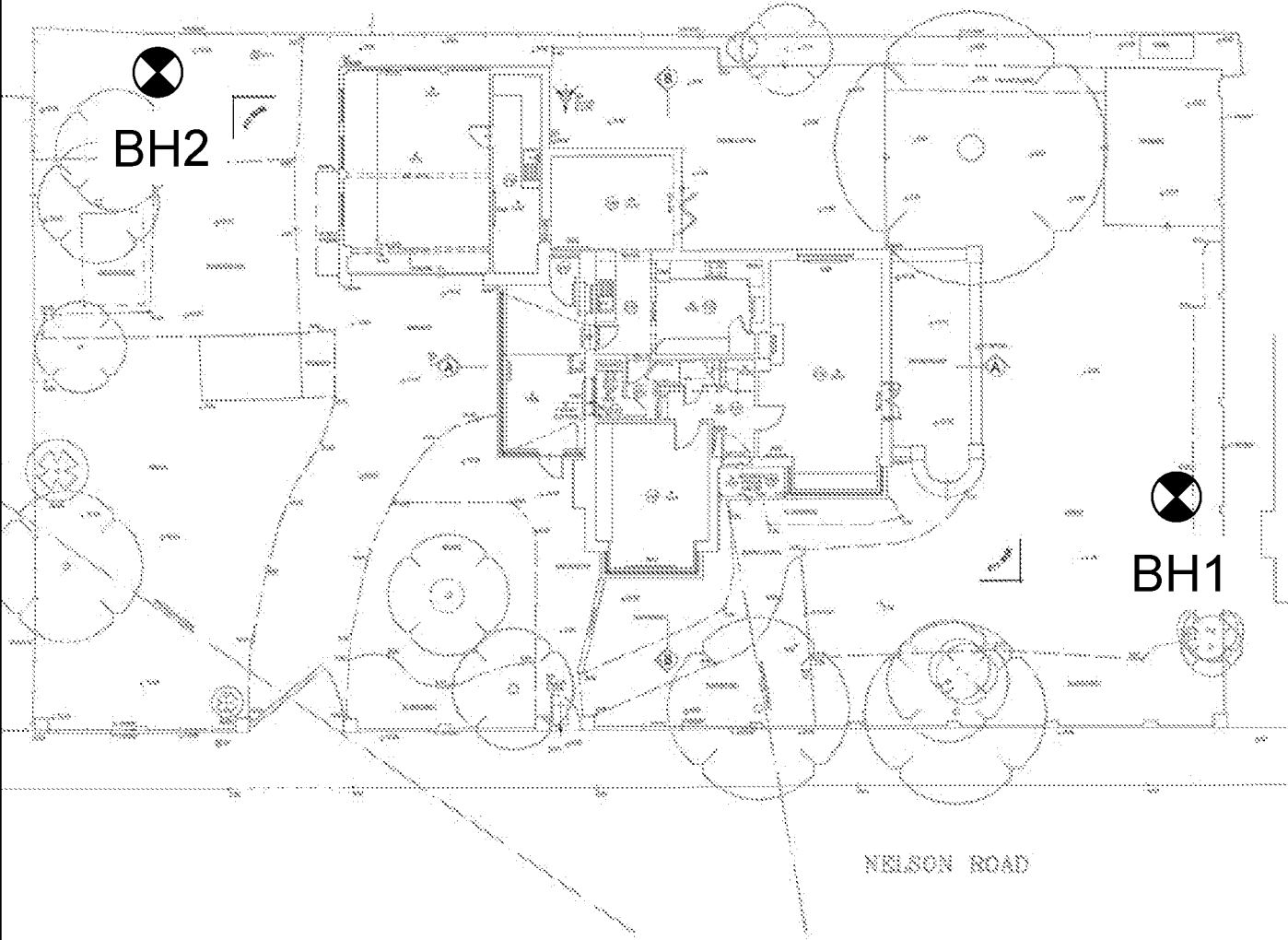
TITLE: Exploratory Hole Location Plan

DATE: Feb 2025

Exploratory hole locations are indicative only unless dimensioned



ADJOINING PROPERTIES



NELSON ROAD



Ground Management Ltd

Civil and Geotechnical Engineering Services

Robin Hill Farm, Clay Lane, Fishbourne
CHICHESTER, West Sussex, PO18 8AP

Site

10-12 Nelson Road, Aldwick PO21 2UE

Number
BH1

Excavation Method

Dynamic (windowless)
sampling using Archway Dart

Dimensions

80mm to 1.00m
70mm to 2.00m
60mm to 3.00m

Ground Level (mOD)

9.77

Client

Jane Steventon

Job
Number
G6662

Location

See location plan

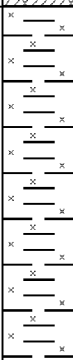
Dates

17/02/2025

Engineer

BP Civils

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Grass over moist brown and yellow brown slightly sandy (fine) slightly clayey silt TOPSOIL with occasional coarse medium and fine subangular flint gravel		
				9.52	0.25	Soft to firm becoming firm orange brown mottled grey brown silty CLAY		
			HV at 0.8m : 35, 35, 40 kPa		(0.95)			
			HV at 1.15m : 45, 45, 45 kPa	8.57	1.20	Orange brown, yellow brown and light grey brown slightly silty fine to medium SAND with occasional subangular to rounded flint gravel		
					(1.80)	... wet below 1.8m		
				6.77	3.00	... with much fine to medium chalk gravel and a little coarse subangular flint gravel below 2.8m		
						Complete at 3.00m		

Remarks

Seepage below 1.2m.
Borehole collapsed after removal of sample from 3.0m. Re-driven to install standpipe
19mm dia standpipe installed on completion - 2m slotted with geosoc and gravel surround then plain with bentonite pellet seal
Water level rose to 1.1m bgl after 1 hr
Ground level estimated by reference to HB Surveys Ltd's topographic survey dated Jan 2025

Scale
(approx)

1:20

Logged
By

AT

Figure No.

G6662.BH1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Slightly moist brown slightly sandy (fine) slightly clayey silt TOPSOIL with occasional coarse medium and fine subangular flint gravel . Some fine roots up to 2mm dia.		
				9.82	0.20	Firm orange brown silty CLAYwith occasional fine and medium subangular flint gravel		
			HV at 0.9m : 80, 80, 70 kPa			... some roots up to 3mm dia above 0.9m		
					(1.70)	... with a little fine sand below 1.3m		
			HV at 1.3m : 45, 45, 45 kPa					
				8.12	1.90	Orange brown, yellow brown and light grey brown slightly silty fine to medium SAND with a little subangular to rounded flint gravel		
						... occasional fine rootlet from 1.9m to 2.0m		
						... dark grey staining and hydrocarbon (fuel?) odour at 2.1m to 2.3m		
					(1.10)	... with much coarse and medium angular to subangular flint gravel and a little fine chalk gravel below 2.7m		
				7.02	3.00	Complete at 3.00m		

Remarks

Remarks
Seepage below 1.5m.
Borehole remained stable and open during excavation
19mm dia standpipe installed on completion - 2m slotted with geosoc and gravel surround then plain with bentonite pellet seal
Water level rose to 1.22m bgl after 30 minutes
Ground level estimated by reference to HB Surveys Ltd's topographic survey dated Jan 2025

Scale
(approx)

1:20

Logged
By

AT

Figure No.

G6662 BH2

Project No: G6662
10-12 Nelson Road Aldwick
24-Feb-25

		BH1	BH2			
Upstand (m)		0.000	0.330			
Ground Level (mAOD)		9.770	10.020			
Cover level (mAOD)		9.770	10.350			
Base dip (m)						

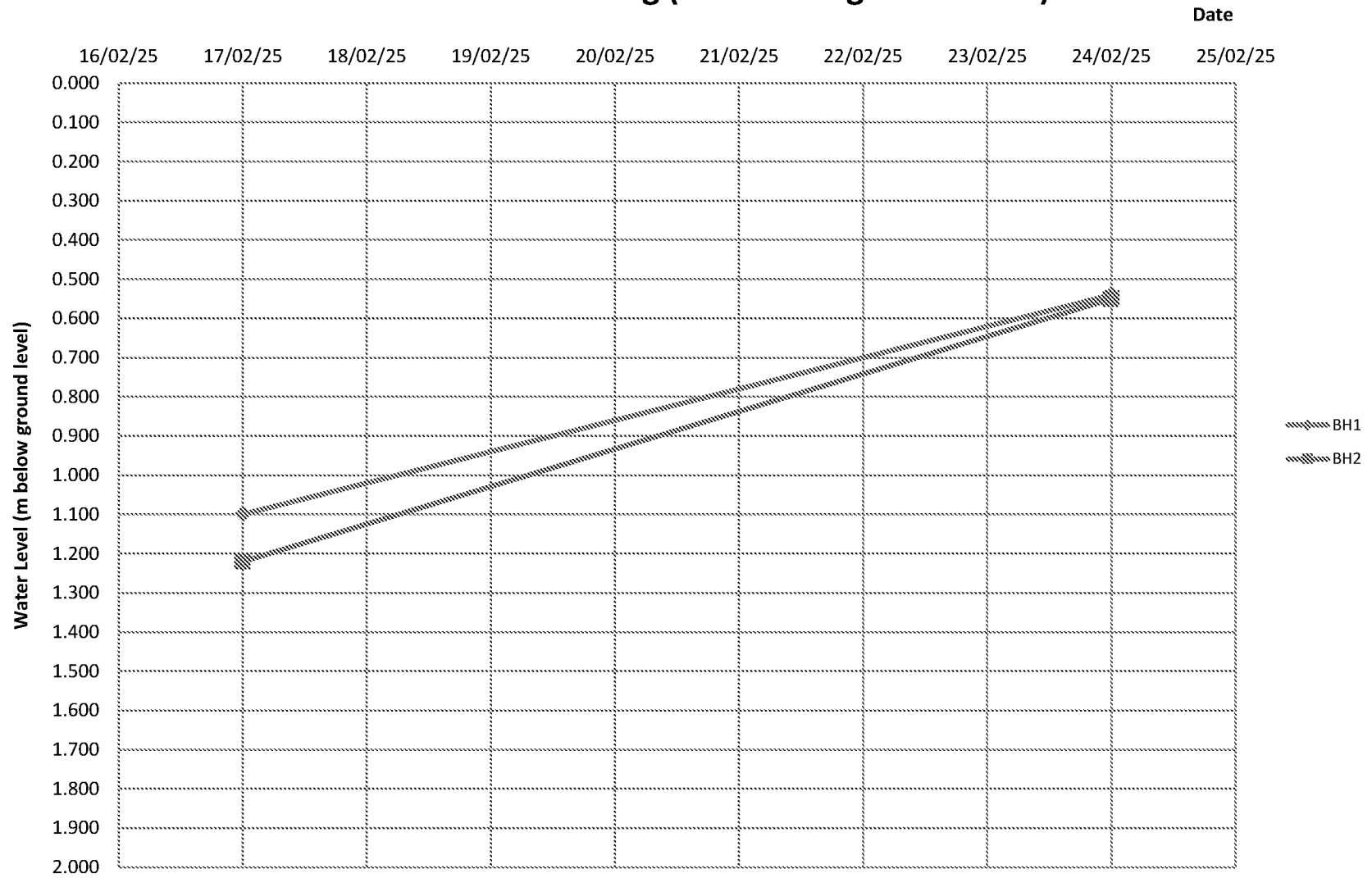
mAOD: metres Above Ordnance Datum

Ground levels estimated by reference to survey by HB Surveys Ltd's Jan 2025 survey

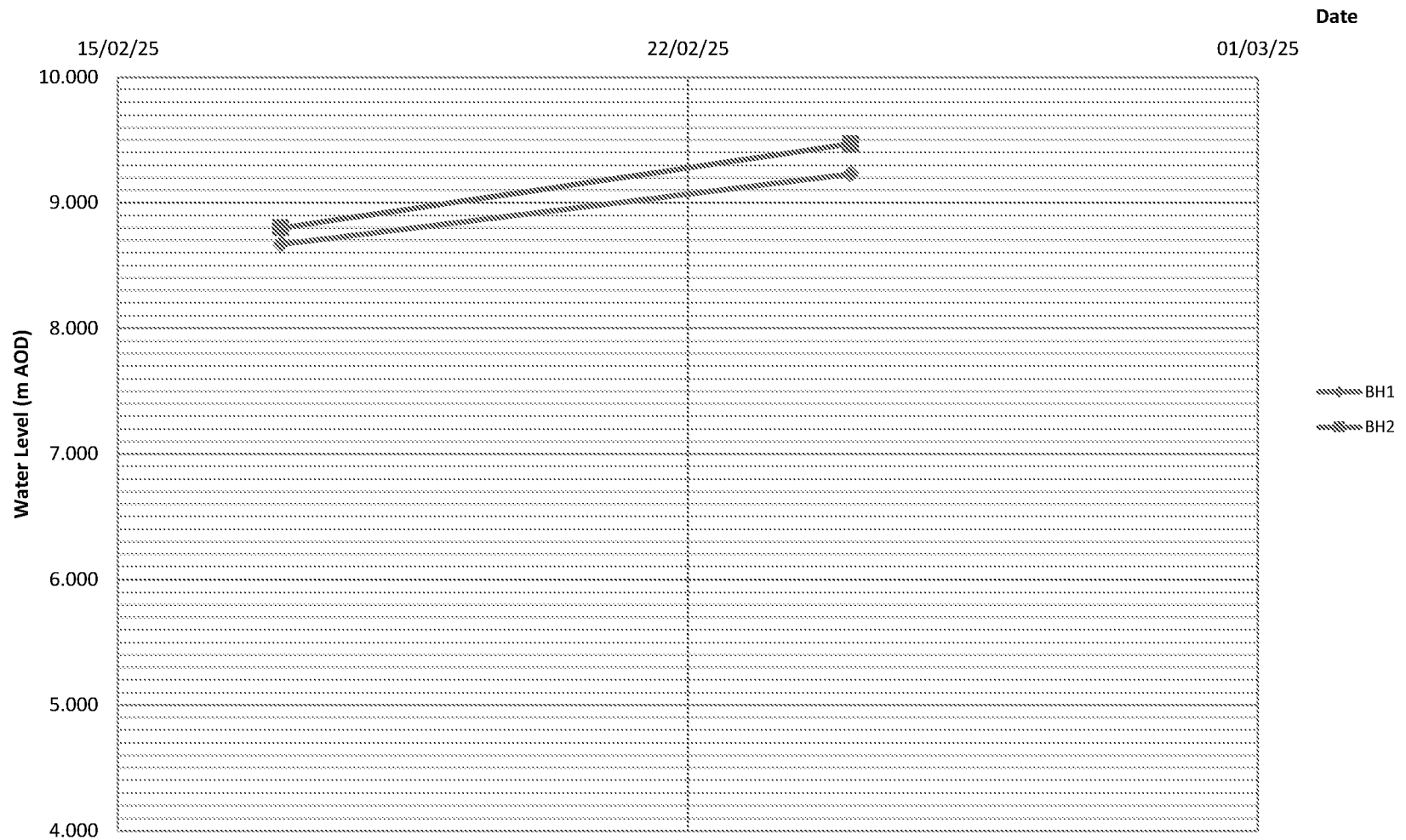
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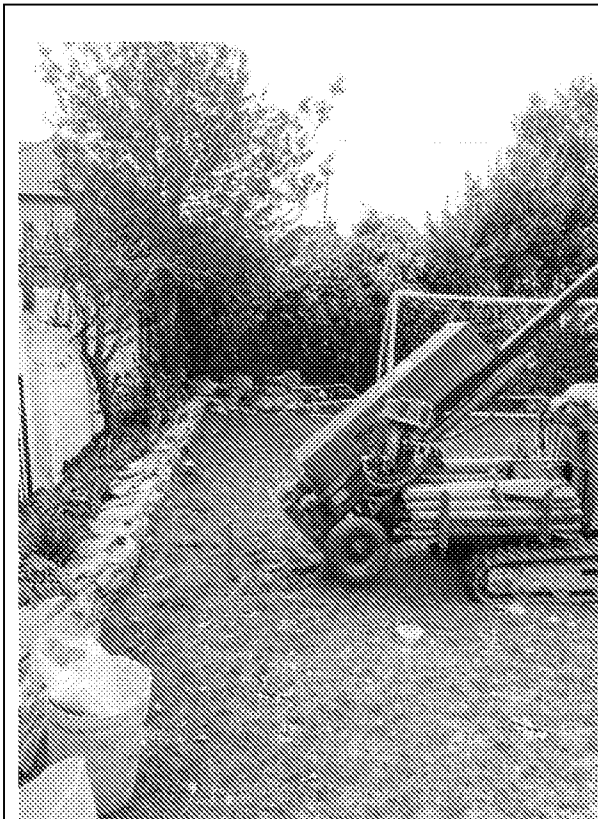
G6662 10-12 Nelson Road Aldwick

Water Level Monitoring (relative to ground level)



G6662 10-12 Nelson Road Aldwick Water Level Monitoring (relative to Ordnance Datum)

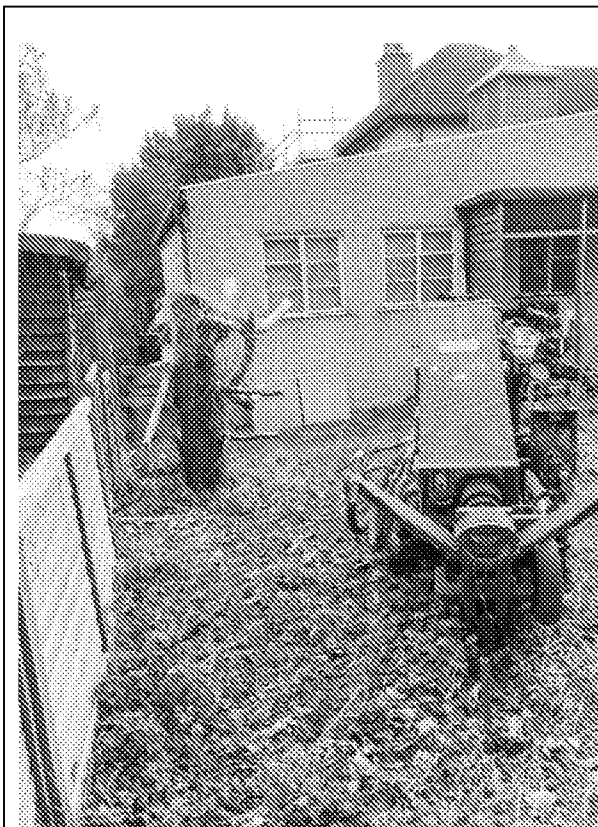




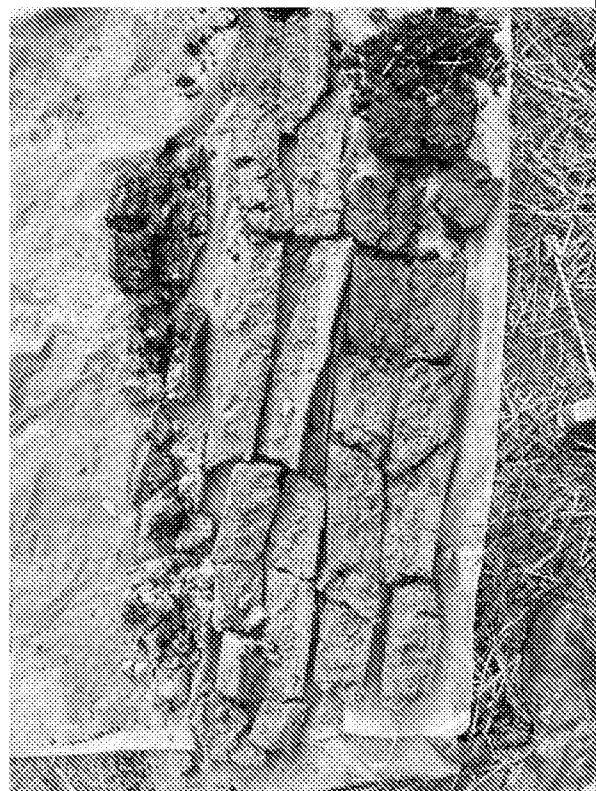
Photograph 1 : BH1 location



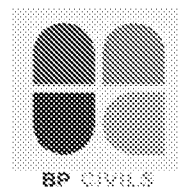
Photograph 2 : Extracted Samples BH1



Photograph 3 : BH2 Location



Photograph 4 : Extracted samples BH2



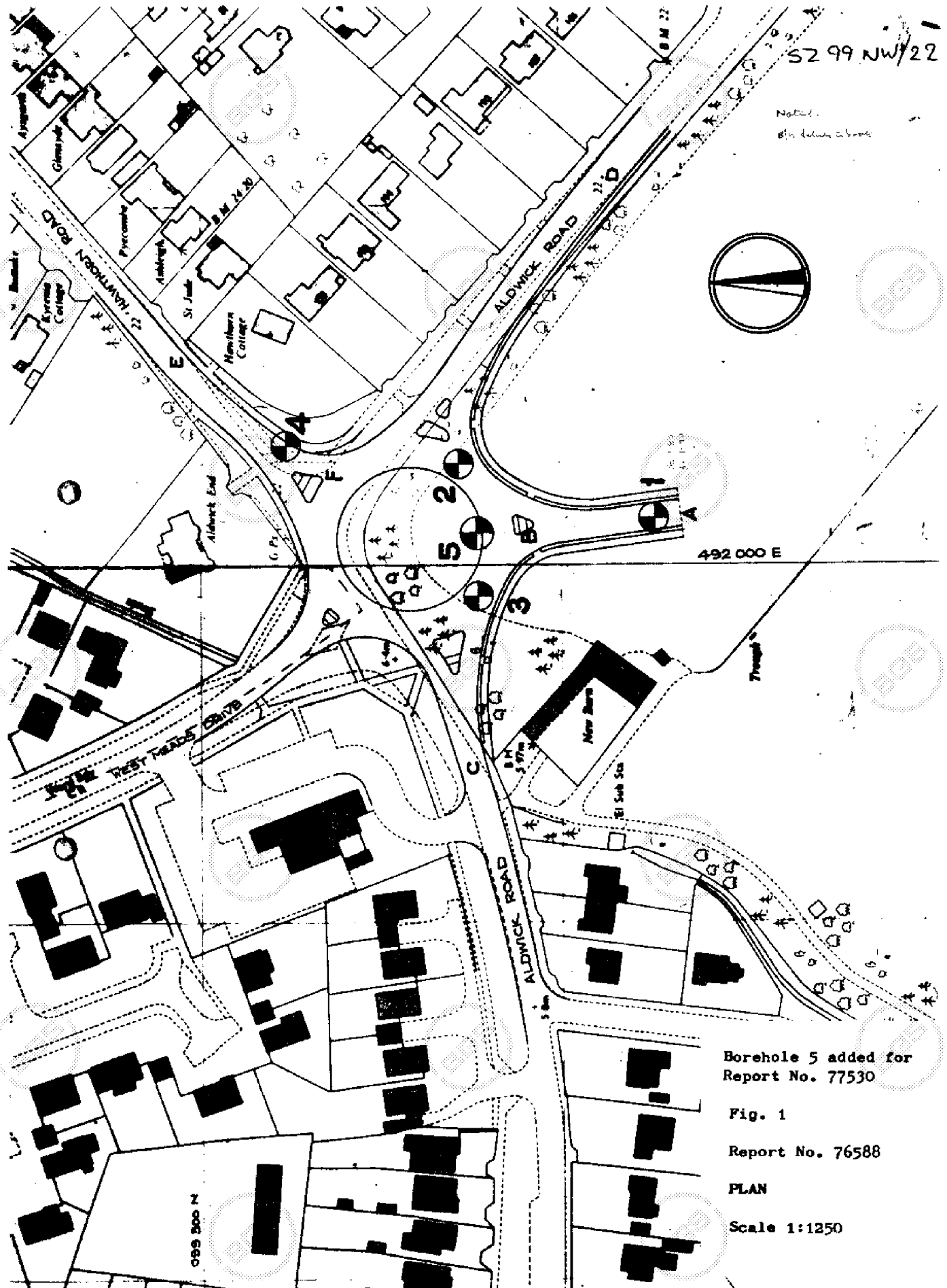
Appendix D BGS Records

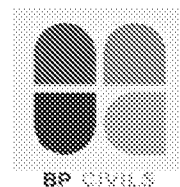


SZ 99 NW/22

Hammonds Corner. Borehole Report 76588 (BHS added for Ref No. 77530)

BH 1	0-10	Brown clay	} 1.70 ble
	0-40	Top Soil	
	1-40	Brown, slightly mottled clay	
	1-50	Lighter brown, slightly mottled	
	1-80	silty clay & 'grit'	
	1-90	Same, plus large stones.	
BH 2	0-20	Top Soil	} +1.80 ble
	1-40	Brown, slightly mottled clay	
	2-00	Lighter brown, slightly mottled silty clay & pieces of 'grit'	
BH 3	0-30	Top Soil	} +1.6 ble
	1-10	Brown, slightly mottled clay	
	1-20	Lighter brown slightly mottled silty clay & pieces of 'grit'	
	1-50	Same, plus some pieces of flint gravel.	
	1-90	Lighter brown, slightly mottled silty clay & grit.	
BH 4	0-35	Strong soil plus bricke & concrete frags.	
	1-40	Brown slightly mottled clay.	
	1-50	Lighter brown slightly mottled clay & 'grit'	





Appendix E Southern Water Public Sewer Records



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

Date: 11/02/25

Scale: 1:1250

Map Centre: 492498,99231

Data updated: 21/01/25

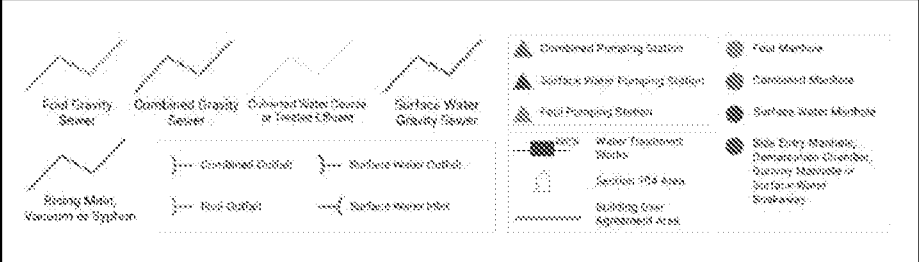
Our Ref: 1686452 - 1

Wastewater Plan A3
Powered by digdat

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.

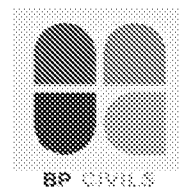


searches@bpcivils.co.uk

10-12 Nelson Road



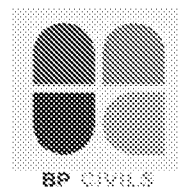
Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
2101	F	6.80	5.29	
2202	F	7.02	5.92	
2301	F	7.22	5.88	
3101	F	6.59	5.18	
3201	F	6.77	5.41	
3202	F	6.77	5.55	
3205	F	0.00	0.00	
3301	F	7.07	0.00	
3302	F	7.12	5.71	
3303	F	6.87	0.00	
3304	F	0.00	0.00	
3305	F	0.00	0.00	
3306	F	0.00	0.00	
4101	F	6.13	5.25	
4102	F	6.27	5.51	
4103	F	6.40	5.36	
4104	F	6.35	5.35	
4105	F	6.67	5.57	
4201	F	6.79	5.77	
4202	F	6.45	5.32	
4203	F	6.33	5.26	
4204	F	6.45	5.39	
4301	F	6.56	5.39	
4302	F	6.57	5.71	
4303	F	6.69	5.48	
4304	F	7.01	5.62	
5101	F	6.28	5.06	
5102	F	6.08	5.08	
5201	F	5.91	5.07	
5301	F	5.92	5.51	
5302	F	5.90	5.37	
5303	F	0.00	0.00	
6003	F	0.00	0.00	
6101	F	6.43	4.72	
6102	F	6.42	4.67	
6103	F	6.54	4.54	
6104	F	6.48	5.38	
6201	F	6.23	4.86	
6202	F	6.22	4.83	
6301	F	5.90	5.20	
6303	F	6.23	4.95	
6304	F	6.25	4.96	
7202	F	6.43	5.16	
7301	F	6.62	5.64	
2151	S	6.82	5.18	
2252	S	6.89	5.61	
2351	S	7.16	5.85	
3151	S	6.78	5.35	
3152	S	6.57	4.89	
3251	S	6.97	5.35	



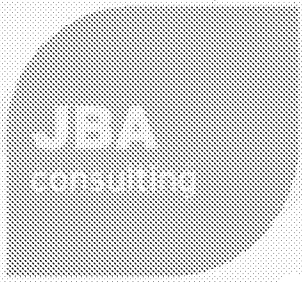
Appendix F West Sussex County Council Records



● MAIN LINE
○ JUNCTION
- - - - - BRIDGE
- - - - - TUNNEL
- - - - - RAILWAY
- - - - - CANAL
- - - - - DRAINAGE
- - - - - FENCE
- - - - - WALL
- - - - - GATE
- - - - - POLE
- - - - - LAMP
- - - - - SIGN
- - - - - POST
- - - - - TELEPHONE
- - - - - CABLE
- - - - - PIPE
- - - - - DRAIN
- - - - - GULLY
- - - - - MANHOLE
- - - - - WELLS
- - - - - POND
- - - - - LAKE
- - - - - RIVER
- - - - - STREAM
- - - - - FLOOD
- - - - - SAND
- - - - - GRAVEL
- - - - - CLAY
- - - - - LIME
- - - - - CEMENT
- - - - - BRICK
- - - - - TILE
- - - - - ROOF
- - - - - FLOOR
- - - - - WALL
- - - - - DOOR
- - - - - WINDOW
- - - - - CHIMNEY
- - - - - GATE
- - - - - POLE
- - - - - LAMP
- - - - - SIGN
- - - - - POST
- - - - - TELEPHONE
- - - - - CABLE
- - - - - PIPE
- - - - - DRAIN
- - - - - GULLY
- - - - - MANHOLE
- - - - - WELLS
- - - - - POND
- - - - - LAKE
- - - - - RIVER
- - - - - STREAM
- - - - - FLOOD
- - - - - SAND
- - - - - GRAVEL
- - - - - CLAY
- - - - - LIME
- - - - - CEMENT
- - - - - BRICK
- - - - - TILE
- - - - - ROOF
- - - - - FLOOR
- - - - - WALL
- - - - - DOOR
- - - - - WINDOW
- - - - - CHIMNEY



Appendix G Strategic Flood Risk Assessment Extracts



JBA
consulting

Arun District Council

**Level 1 and Level 2
Strategic Flood Risk
Assessment**

Final Report

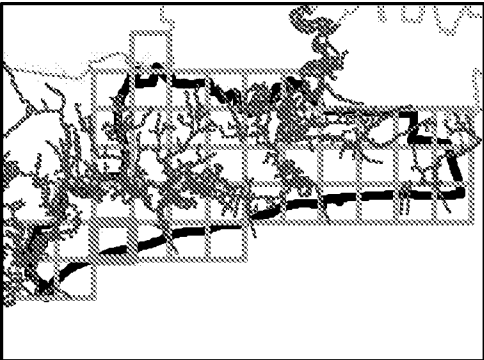
November 2016

Arun District Council
Civic Centre
Maltravers Road
LITTLEHAMPTON
West Sussex
BN17 5LF





Key Plan



Legend

-  Arun District SFRA boundary
-  Main Rivers
-  Aidingbourne Rife
-  Ash Grove
-  Barnham Lane Ditch
-  Barnham Rife
-  Black Ditch
-  Deasy Ponds Ditch
-  East Poling Drain
-  Elst Springs Ditch
-  Farning Rife
-  Forebridge Rife
-  Lidsey Rife
-  Little Tordington Stream
-  North Barnard Ditch
-  Pegham Harbour Channels
-  Pegham Rife
-  River Arun
-  Rope Walk Ditch
-  Ryebank Rife
-  Ghrigway Manor Ditch
-  West Poling Drain
-  Yelton Rife
-  Ordinary watercourse



REF	Date	Comments
A	June 2016	-
B		
C		

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ARUN DISTRICT COUNCIL

LEVEL 1 SFRA: APPENDIX B
WATERCOURSES

Sheet No: 5 of 46 Index Number: AGC_05

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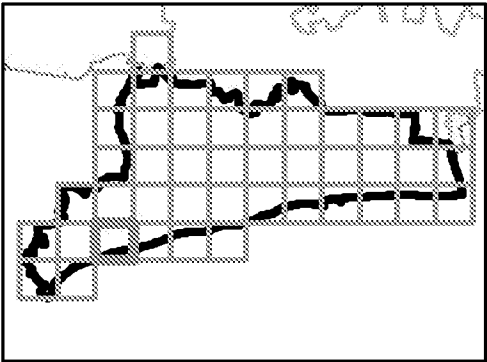




Notes

- Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.
- Zone 2: Comprised of land having between a 1 in 100 and 1 in 1,000 annual probability of river flooding or 1 in 200 and 1 in 1,000 annual probability of sea flooding in any year.
- Zone 3a: This zone comprises land assessed as having a greater than 1 in 100 annual probability of river flooding or a greater than 1 in 200 annual probability of flooding from sea in any year.
- Zone 3b: This zone comprises land where water has to flow or be stored in times of flood (the functional floodplain). The SFRA identified this Flood Zone as land which would flood with an annual probability of 1 in 20 years, where detailed modelling exists. In the absence of detailed hydraulic model information, a precautionary approach has been adopted with the assumption that the extent of Flood Zone 3b would be equal to Flood Zone 3a. If development is shown to be in Flood Zone 3a, further work should be undertaken as part of a detailed site specific

Key Plan



Legend

Arun District SFRA boundary

Flood Zone 3b

Flood Zone 3a

Flood Zone 2

00.1250.250.5

km

REF	Date	Comments
A	June 2016	-
B		
C		

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ARUN DISTRICT COUNCIL

LEVEL 1 SFRA: APPENDIX C FLOOD ZONES

Sheet No: 5 of 46 Index Number: AGC_05

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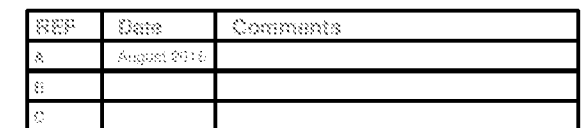


Hydraulic modelling has been undertaken as part of this SFRA to provide updated climate change flood mapping in the Arun District for Flood Zone 3a. This modelling followed the latest guidance for climate change in FRAs/SFRAs released by the Environment Agency in February 2016 (and updated in April 2016). Climate change for fluvial events has been based on the Higher Central estimates for the years 2031, 2061 and 2111. Present day flood risk information is available for comparison. Arun District is within the South East River Basin District and therefore allowance are:

- 2031 = +15% flows
- 2061 = +30% flows
- 2111 = +45% flows

For tidal/coastal models, undefended case still water level and defended case still water level with wave overtopping simulations have been completed to inform future flood risk within the Arun District. Again, climate change allowance predictions are for the years 2031, 2061 and 2111, with present day outputs for comparison.

	Acron District SFRA boundary		Future Flood Zone 3a (2001)
	Present Flood Zone 3a		Future Flood Zone 3a (2111)
	Future Flood Zone 3a (2031)		



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LEVEL 1 SFRA: APPENDIX D CLIMATE CHANGE MAPPING

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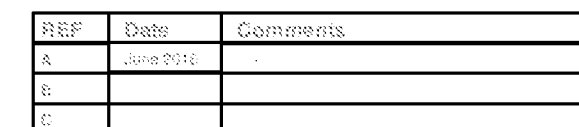


The updated Flood Map for Surface Water (uFMSW) shows the flooding that takes place from the "surface runoff" generated by rainwater (including snow and other precipitation) which:

- (a) is on the surface of the ground (whether or not it is moving), and
- (b) has not yet entered a watercourse, drainage system or public sewer.

Note: The uFMSW shows predictions of flooded areas but does not show whether individual properties will be affected by surface water flooding or have been affected in the past. The uFMSW should not be used to predict if individual properties will flood.

 Arun District SFRA boundary
 uFMSW 30-year extent
 uFMSW 100-year extent
 uFMSW 1,000-year extent



ARUN DISTRICT COUNCIL

Sheet No: 5 of 46 Index Number: AOC_05





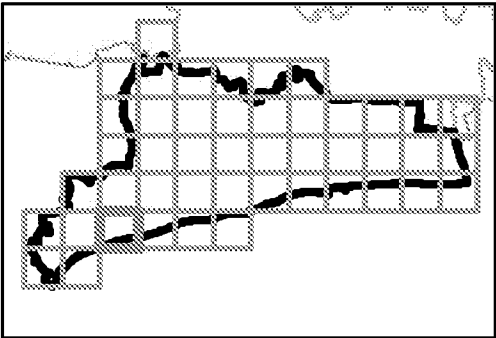
Notes

The Areas Susceptible to Groundwater Flooding (ASIGWF) is a strategic scale map showing groundwater flood areas on a 1km square grid. The data was produced to annotate Indicative Flood Risk Areas for Preliminary Flood Risk Assessment (PFRA) studies and allow the Lead Local Flood Authorities (LLFAs) to determine whether there may be a risk of flooding from groundwater.

This data shows the proportion of each 1km grid square where geological and hydrogeological condition show that groundwater might emerge. It does not show the likelihood of groundwater flooding occurring. It does not take account of the chance of flooding from groundwater rebound. This dataset covers a large area of land and only isolated locations within the overall susceptible area are actually likely to suffer the consequences of groundwater flooding.

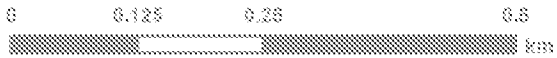
The ASIGWF data should be used only in combination with other information, for example local data or historic data. It should not be used as sole evidence for any specific flood risk management, land use planning or other decisions at any scale. However, the data can help to identify areas for assessment at a local scale where finer resolution datasets exist.

Key Plan



Legend

- Arun District SFRA boundary
- < 25%
- >= 25% <50%
- >= 50% <75%
- >= 75%



REF	Date	Comments
A	June 2012	-
B		
C		

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LEVEL 1 SFRA: APPENDIX F AREAS SUSCEPTIBLE TO GROUNDWATER

Sheet No: 5 of 46 Index Number: AGC_05

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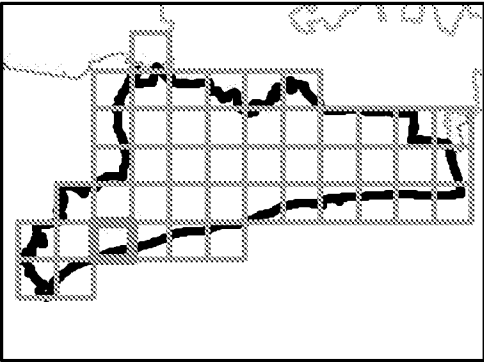
Notes

Flood Alerts are used to warn people of the possibility of flooding and encourage them to be alert, stay vigilant and make early preparations. It is issued earlier than a flood warning, to give customers advice notice of the possibility of flooding, but before we are fully confident that flooding in Flood Warning Areas is expected.

Flood Warnings warn people of expected flooding and encourage them to take action to protect themselves and their property.

Some areas may be covered by more than one flood warning area as they may be at risk of flooding from more than one

Key Plan



Legend

	Arun District SFRA boundary		065FWF5005
	065FWC0401		065FWC0801
	065FWF4903		065FWC0800
	088FWF4904		088FWC2501
	085FWF5301		085FWF5008
	065FWF5302		065FWF4901
	065FWF5007		065FWC0400
	088FWF5006		088FWC2402



REF	Date	Comments
A	June 2016	-
B		
C		

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LEVEL 1 SFRA: APPENDIX G
FLOOD WARNING AREAS

Sheet No: 5 of 46 Index Number: AGC_05

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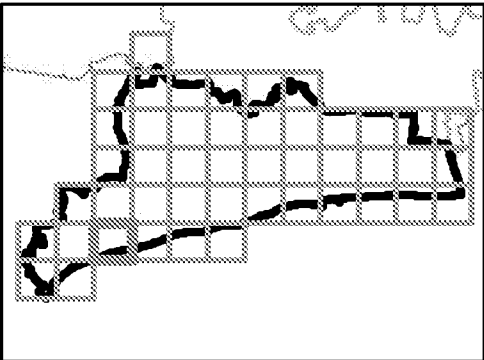
Notes

The Historic Flooding Map shows the recorded incidents and flood outlines provided by Arun District Council, West Sussex County Council, Southern Water and Environment Agency. Historical flood extent was obtained from the Environment Agency.

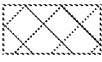
Flooding incidents provided have been categorised based upon the details provided in the records. Unknown flood points could not be determined from the information provided, and therefore could be from a number of sources.

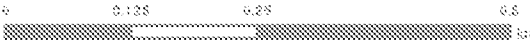
Please note that not all historical records may be shown on this map, and that it is therefore advised you contact Arun District Council for updated information post 2015.

Key Plan



Legend

-  Arun District SFRA boundary
-  Historic flood outline
- Source of flooding**
-  Fluvial
-  Coastal
-  Tidal
-  Surface Water
-  Future
-  Unknown



REF	Date	Comments
A	June 2016	-
B		
C		

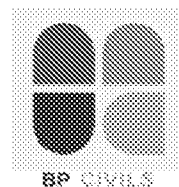
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ARUN DISTRICT COUNCIL LEVEL 1 SFRA: APPENDIX H HISTORIC FLOODING RECORDS

Sheet No: 5 of 46 Index Number: AGC_05

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Appendix H Greenfield Run-off Calculations

Calculated by:	Stuart Burnett
Site name:	10-12 Nelson Road
Site location:	Bognor

Site Details

Latitude:	50.78526° N
Longitude:	0.68916° W
Reference:	2221822809
Date:	Feb 13 2025 11:17

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance "Rainfall runoff management for developments", SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Runoff estimation approach

IH124

Site characteristics

Total site area (ha):	0.1
-----------------------	-----

Methodology

Q _{BAR} estimation method:	Calculate from SPR and SAAR
SPR estimation method:	Calculate from SOIL type

Notes

(1) Is $Q_{\text{BAR}} < 2.0 \text{ l/s/ha}$?

When Q_{BAR} is $< 2.0 \text{ l/s/ha}$ then limiting discharge rates are set at 2.0 l/s/ha .

Soil characteristics

	Default	Edited
SOIL type:	3	3
HOST class:	N/A	N/A
SPR/SPRHOST:	0.37	0.37

(2) Are flow rates $< 5.0 \text{ l/s}$?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

Hydrological characteristics

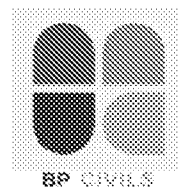
	Default	Edited
SAAR (mm):	703	703
Hydrological region:	7	7
Growth curve factor 1 year:	0.85	0.85
Growth curve factor 30 years:	2.3	2.3
Growth curve factor 100 years:	3.19	3.19
Growth curve factor 200 years:	3.74	3.74

(3) Is $\text{SPR/SPRHOST} \leq 0.3$?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

Q_{BAR} (l/s):	0.29	0.29
1 in 1 year (l/s):	0.25	0.25
1 in 30 years (l/s):	0.66	0.66
1 in 100 year (l/s):	0.92	0.92
1 in 200 years (l/s):	1.08	1.08

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement , which can both be found at www.uksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.



Appendix I Proposed Surface Water Drainage Calculations

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.500
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	✓
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)
S1	0.003	5.00	6.450		492481.008	99241.001	0.625
S2	0.003	5.00	6.450	450	492478.094	99228.846	0.710
S3			6.450	450	492480.508	99226.345	0.735
S4	0.009	5.00	6.450	450	492487.911	99224.571	0.790
S5	0.007	5.00	6.450	500	492491.555	99223.698	0.815
S6			6.250	1200	492490.381	99218.804	0.650
S7			6.250	1200	492534.182	99208.484	0.950
SWMH 5151			6.240	1200	492581.929	99197.235	1.270
S8	0.003	5.00	6.500		492491.260	99238.544	0.675

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S1	S2	12.499	0.600	5.825	5.740	0.085	147.1	150	5.25	50.0
1.001	S2	S3	3.476	0.600	5.740	5.715	0.025	139.0	150	5.32	50.0
1.002	S3	S4	7.613	0.600	5.715	5.660	0.055	138.4	150	5.47	50.0
1.003	S4	S5	3.747	0.600	5.660	5.635	0.025	149.9	150	5.55	50.0
1.004	S5	S6	5.033	0.600	5.635	5.600	0.035	143.8	150	5.65	50.0
1.005	S6	S7	45.000	0.600	5.600	5.300	0.300	150.0	150	6.56	50.0
1.006	S7	SWMH 5151	49.054	0.600	5.300	4.970	0.330	148.6	150	7.56	47.8
2.000	S8	S4	14.369	0.600	5.825	5.660	0.165	87.1	150	5.22	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	0.826	14.6	0.5	0.475	0.560	0.003	0.0
1.001	0.850	15.0	1.1	0.560	0.585	0.006	0.0
1.002	0.852	15.1	1.1	0.585	0.640	0.006	0.0
1.003	0.818	14.5	3.3	0.640	0.665	0.018	0.0
1.004	0.836	14.8	4.5	0.665	0.500	0.025	0.0
1.005	0.818	14.5	4.5	0.500	0.800	0.025	0.0
1.006	0.822	14.5	4.3	0.800	1.120	0.025	0.0
2.000	1.077	19.0	0.5	0.525	0.640	0.003	0.0

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	12.499	147.1	150	Circular	6.450	5.825	0.475	6.450	5.740	0.560
1.001	3.476	139.0	150	Circular	6.450	5.740	0.560	6.450	5.715	0.585
1.002	7.613	138.4	150	Circular	6.450	5.715	0.585	6.450	5.660	0.640
1.003	3.747	149.9	150	Circular	6.450	5.660	0.640	6.450	5.635	0.665
1.004	5.033	143.8	150	Circular	6.450	5.635	0.665	6.250	5.600	0.500
1.005	45.000	150.0	150	Circular	6.250	5.600	0.500	6.250	5.300	0.800
1.006	49.054	148.6	150	Circular	6.250	5.300	0.800	6.240	4.970	1.120
2.000	14.369	87.1	150	Circular	6.500	5.825	0.525	6.450	5.660	0.640

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1		Junction		S2	450	Manhole	Adoptable
1.001	S2	450	Manhole	Adoptable	S3	450	Manhole	Adoptable
1.002	S3	450	Manhole	Adoptable	S4	450	Manhole	Adoptable
1.003	S4	450	Manhole	Adoptable	S5	500	Manhole	Adoptable
1.004	S5	500	Manhole	Adoptable	S6	1200	Manhole	Adoptable
1.005	S6	1200	Manhole	Adoptable	S7	1200	Manhole	Adoptable
1.006	S7	1200	Manhole	Adoptable	SWMH 5151	1200	Manhole	Adoptable
2.000	S8		Junction		S4	450	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S1	492481.008	99241.001	6.450	0.625			0	1.000	5.825	150
S2	492478.094	99228.846	6.450	0.710	450		1	1.000	5.740	150
							0	1.001	5.740	150
S3	492480.508	99226.345	6.450	0.735	450		1	1.001	5.715	150
							0	1.002	5.715	150
S4	492487.911	99224.571	6.450	0.790	450		1	2.000	5.660	150
							2	1.002	5.660	150
							0	1.003	5.660	150
S5	492491.555	99223.698	6.450	0.815	500		1	1.003	5.635	150
							0	1.004	5.635	150
S6	492490.381	99218.804	6.250	0.650	1200		1	1.004	5.600	150
							0	1.005	5.600	150
S7	492534.182	99208.484	6.250	0.950	1200		1	1.005	5.300	150
							0	1.006	5.300	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SWMH 5151	492581.929	99197.235	6.240	1.270	1200	1	1.006	4.970	150
									
S8	492491.260	99238.544	6.500	0.675					
							0	2.000	5.825 150

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)	0.0		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
10	0	0	0
30	0	0	0
30	40	0	0
100	0	0	0
100	45	0	0

Node S5 Online Orifice Control

Flap Valve	x	Design Depth (m)	0.815	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	2.0		
Invert Level (m)	5.635	Diameter (m)	0.032		

Node S4 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	6.020	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	89	Depth (m)	0.300
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	8.253		

Node S5 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	6.020	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	89	Depth (m)	0.300
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	8.363		

Results for 2 year 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	S1	24	5.893	0.068	1.1	0.0000	0.0000	OK
30 minute summer	S2	22	5.891	0.151	1.4	0.0239	0.0000	SURCHARGED
30 minute summer	S3	23	5.890	0.175	1.1	0.0279	0.0000	SURCHARGED
30 minute summer	S4	23	5.891	0.231	2.0	0.0367	0.0000	SURCHARGED
30 minute summer	S5	23	5.891	0.256	1.5	0.0501	0.0000	SURCHARGED
30 minute summer	S6	24	5.627	0.027	1.0	0.0311	0.0000	OK
30 minute summer	S7	26	5.327	0.027	1.0	0.0309	0.0000	OK
30 minute summer	SWMH 5151	26	4.997	0.027	1.0	0.0000	0.0000	OK
30 minute summer	S8	23	5.894	0.069	1.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	S1	1.000	S2	-0.6	0.270	-0.038	0.1588	
30 minute summer	S2	1.001	S3	0.6	0.383	0.043	0.0612	
30 minute summer	S3	1.002	S4	-0.7	0.161	-0.046	0.1340	
30 minute summer	S4	1.003	S5	1.0	0.156	0.066	0.0660	
30 minute summer	S5	Orifice	S6	1.0				
30 minute summer	S6	1.005	S7	1.0	0.482	0.073	0.0986	
30 minute summer	S7	1.006	SWMH 5151	1.0	0.479	0.072	0.1069	2.7
30 minute summer	S8	2.000	S4	-0.7	0.151	-0.036	0.1828	

Results for 10 year 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
60 minute summer	S1	43	6.091	0.266	1.0	0.0000	0.0000	SURCHARGED
60 minute summer	S2	43	6.090	0.350	1.1	0.0557	0.0000	SURCHARGED
60 minute summer	S3	43	6.090	0.375	1.1	0.0597	0.0000	SURCHARGED
60 minute summer	S4	44	6.090	0.430	2.7	0.4409	0.0000	SURCHARGED
60 minute summer	S5	44	6.090	0.455	2.6	0.4606	0.0000	SURCHARGED
60 minute summer	S6	44	5.632	0.032	1.4	0.0360	0.0000	OK
60 minute summer	S7	46	5.332	0.032	1.4	0.0359	0.0000	OK
60 minute summer	SWMH 5151	46	5.002	0.032	1.4	0.0000	0.0000	OK
60 minute summer	S8	44	6.090	0.265	1.2	0.0000	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	0.5	0.228	0.037	0.2200	
60 minute summer	S2	1.001	S3	1.0	0.365	0.067	0.0612	
60 minute summer	S3	1.002	S4	-1.1	0.161	-0.074	0.1340	
60 minute summer	S4	1.003	S5	1.2	0.156	0.086	0.0660	
60 minute summer	S5	Orifice	S6	1.4				
60 minute summer	S6	1.005	S7	1.4	0.522	0.098	0.1223	
60 minute summer	S7	1.006	SWMH 5151	1.4	0.524	0.098	0.1325	6.5
60 minute summer	S8	2.000	S4	-0.7	0.151	-0.038	0.2530	

Results for 30 year 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
60 minute summer	S1	45	6.142	0.317	1.2	0.0000	0.0000	SURCHARGED
60 minute summer	S2	45	6.142	0.402	1.6	0.0639	0.0000	SURCHARGED
60 minute summer	S3	45	6.142	0.427	1.4	0.0679	0.0000	SURCHARGED
60 minute summer	S4	47	6.142	0.482	4.5	1.0760	0.0000	SURCHARGED
60 minute summer	S5	46	6.142	0.507	4.2	1.1029	0.0000	SURCHARGED
60 minute summer	S6	46	5.633	0.033	1.5	0.0370	0.0000	OK
60 minute summer	S7	48	5.333	0.033	1.5	0.0369	0.0000	OK
60 minute summer	SWMH 5151	48	5.002	0.032	1.5	0.0000	0.0000	OK
60 minute summer	S8	47	6.142	0.317	1.2	0.0000	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	0.7	0.227	0.048	0.2200	
60 minute summer	S2	1.001	S3	1.4	0.365	0.091	0.0612	
60 minute summer	S3	1.002	S4	-1.4	0.138	-0.093	0.1340	
60 minute summer	S4	1.003	S5	2.1	0.191	0.147	0.0660	
60 minute summer	S5	Orifice	S6	1.5				
60 minute summer	S6	1.005	S7	1.5	0.530	0.104	0.1272	
60 minute summer	S7	1.006	SWMH 5151	1.5	0.533	0.103	0.1378	8.4
60 minute summer	S8	2.000	S4	0.8	0.140	0.040	0.2530	

Results for 30 year +40% 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
60 minute summer	S1	50	6.233	0.408	1.3	0.0000	0.0000	FLOOD RISK
60 minute summer	S2	50	6.233	0.493	2.3	0.0785	0.0000	FLOOD RISK
60 minute summer	S3	50	6.233	0.518	2.0	0.0824	0.0000	FLOOD RISK
60 minute summer	S4	50	6.233	0.573	6.6	2.2220	0.0000	FLOOD RISK
60 minute summer	S5	49	6.233	0.598	5.6	2.2663	0.0000	FLOOD RISK
60 minute summer	S6	50	5.634	0.034	1.6	0.0386	0.0000	OK
60 minute summer	S7	51	5.334	0.034	1.6	0.0385	0.0000	OK
60 minute summer	SWMH 5151	52	5.004	0.034	1.6	0.0000	0.0000	OK
60 minute summer	S8	50	6.233	0.408	1.3	0.0000	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	1.0	0.228	0.072	0.2200	
60 minute summer	S2	1.001	S3	2.0	0.364	0.136	0.0612	
60 minute summer	S3	1.002	S4	1.7	0.118	0.114	0.1340	
60 minute summer	S4	1.003	S5	2.5	0.184	0.175	0.0660	
60 minute summer	S5	Orifice	S6	1.6				
60 minute summer	S6	1.005	S7	1.6	0.543	0.113	0.1352	
60 minute summer	S7	1.006	SWMH 5151	1.6	0.546	0.112	0.1465	11.8
60 minute summer	S8	2.000	S4	1.0	0.143	0.052	0.2530	

Results for 100 year 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
60 minute summer	S1	47	6.205	0.380	1.3	0.0000	0.0000	FLOOD RISK
60 minute summer	S2	48	6.205	0.465	2.1	0.0740	0.0000	FLOOD RISK
60 minute summer	S3	48	6.205	0.490	1.9	0.0780	0.0000	FLOOD RISK
60 minute summer	S4	48	6.205	0.545	6.3	1.8708	0.0000	FLOOD RISK
60 minute summer	S5	48	6.205	0.570	5.4	1.9098	0.0000	FLOOD RISK
60 minute summer	S6	49	5.634	0.034	1.6	0.0382	0.0000	OK
60 minute summer	S7	50	5.334	0.034	1.6	0.0381	0.0000	OK
60 minute summer	SWMH 5151	50	5.003	0.033	1.6	0.0000	0.0000	OK
60 minute summer	S8	48	6.205	0.380	1.5	0.0000	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	S1	1.000	S2	0.9	0.228	0.065	0.2200	
60 minute summer	S2	1.001	S3	1.9	0.365	0.125	0.0612	
60 minute summer	S3	1.002	S4	1.6	0.098	0.106	0.1340	
60 minute summer	S4	1.003	S5	2.6	0.164	0.178	0.0660	
60 minute summer	S5	Orifice	S6	1.6				
60 minute summer	S6	1.005	S7	1.6	0.539	0.110	0.1328	
60 minute summer	S7	1.006	SWMH 5151	1.6	0.542	0.110	0.1439	10.7
60 minute summer	S8	2.000	S4	1.2	0.122	0.061	0.2530	

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
60 minute winter	S1	52	6.430	0.605	1.3	0.0000	0.0000	FLOOD RISK
60 minute winter	S2	52	6.431	0.691	2.3	0.1098	0.0000	FLOOD RISK
60 minute winter	S3	52	6.431	0.716	2.0	0.1138	0.0000	FLOOD RISK
60 minute winter	S4	52	6.431	0.771	6.5	3.3333	0.0000	FLOOD RISK
60 minute winter	S5	52	6.431	0.796	5.5	3.4032	0.0000	FLOOD RISK
60 minute winter	S6	53	5.637	0.037	1.9	0.0416	0.0000	OK
60 minute winter	S7	55	5.337	0.037	1.9	0.0415	0.0000	OK
60 minute winter	SWMH 5151	55	5.006	0.036	1.9	0.0000	0.0000	OK
60 minute winter	S8	52	6.431	0.606	1.3	0.0000	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	S1	1.000	S2	1.0	0.228	0.068	0.2200	
60 minute winter	S2	1.001	S3	2.0	0.373	0.132	0.0612	
60 minute winter	S3	1.002	S4	1.7	0.117	0.111	0.1340	
60 minute winter	S4	1.003	S5	2.6	0.197	0.180	0.0660	
60 minute winter	S5	Orifice	S6	1.9				
60 minute winter	S6	1.005	S7	1.9	0.566	0.131	0.1501	
60 minute winter	S7	1.006	SWMH 5151	1.9	0.569	0.130	0.1625	15.6
60 minute winter	S8	2.000	S4	1.0	0.123	0.052	0.2530	