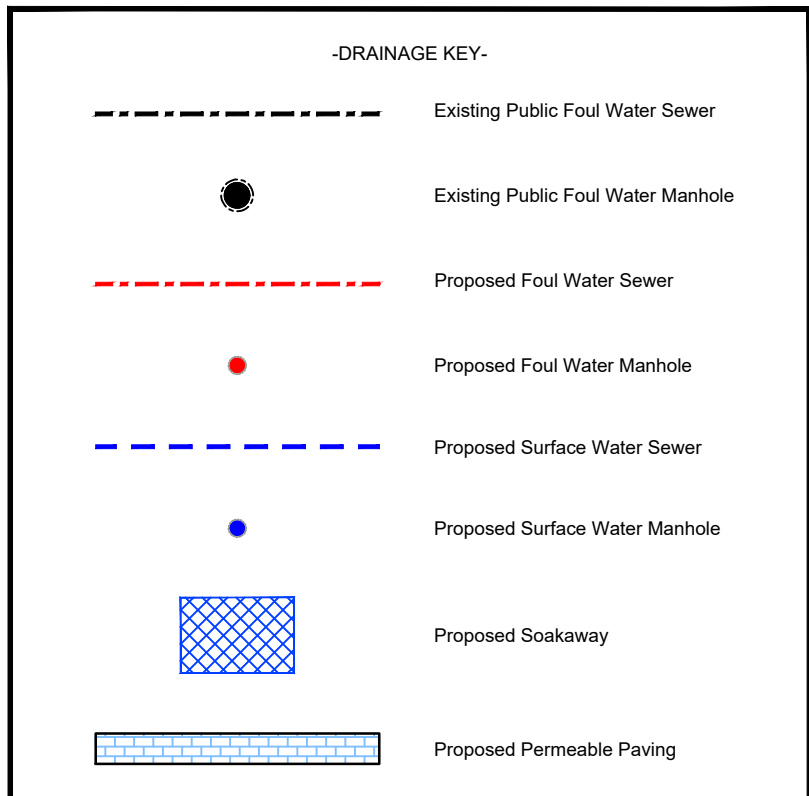




-SURFACE WATER STRATEGY-

- Surface water disposal should be managed in view of the SuDS hierarchy:
 - Infiltration
 - Watercourse
 - Public Surface Water Sewer(s)

IMPERMEABLE AREA

- Phase 1 of the development has a total post-development impermeable area of 17,896m² (1.79Ha).
- The increase in impermeable area(s) across this phase of development will be dealt with through sustainable means, adhering to the SuDS hierarchy as outlined above.

INFILTRATION

- Infiltration testing has been undertaken at the site by Resource & Environmental Consultants, dated July 2014.
- Trial Pit SA4 was the closest test location relative to Phase 1 of the development, where the rate of infiltration has been confirmed as being 1.53x10⁻⁴. This rate has been used for preliminary design calculations.

GROUNDWATER

- Of the exploratory holes located within the approximate bounds of Phase 1 (TP119, TP120 and TP123), or within the immediate vicinity of this area (SA4, TP125 and WS107), groundwater water only encountered within WS107, at a depth of 2.40m below ground level.

STRATEGY

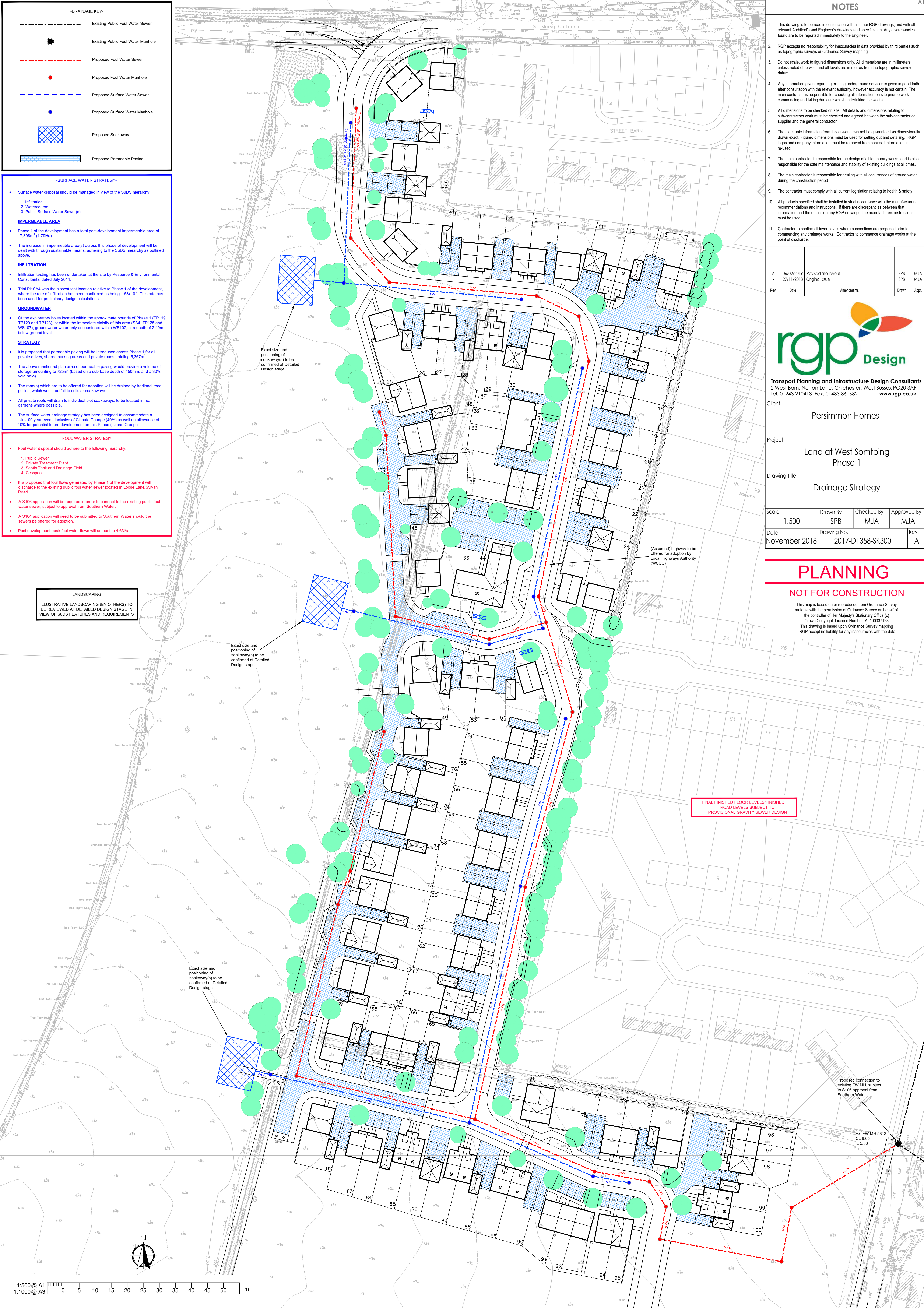
- It is proposed that permeable paving will be introduced across Phase 1 for all private drives, shared parking areas and private roads, totalling 5,367m².
- The above mentioned plan area of permeable paving would provide a volume of storage amounting to 725m³ (based on a sub-base depth of 450mm, and a 30% void ratio).
- The road(s) which are to be offered for adoption will be drained by traditional road gullies, which would outfall to cellular soakaways.
- All private roofs will drain to individual plot soakaways, to be located in rear gardens where possible.
- The surface water drainage strategy has been designed to accommodate a 1-in-100 year event, inclusive of Climate Change (40%) as well as an allowance of 10% for potential future development on this Phase (Urban Creep).

-FOUL WATER STRATEGY-

- Foul water disposal should adhere to the following hierarchy:
 - Public Sewer
 - Private Treatment Plant
 - Septic Tank and Drainage Field
 - Cesspool
- It is proposed that foul flows generated by Phase 1 of the development will discharge to the existing public foul water sewer located in Loose Lane/Sylvan Road.
- A S106 application will be required in order to connect to the existing public foul water sewer, subject to approval from Southern Water.
- A S104 application will need to be submitted to Southern Water should the sewers be offered for adoption.
- Post development peak foul water flows will amount to 4.63l/s.

-LANDSCAPING-

ILLUSTRATIVE LANDSCAPING (BY OTHERS) TO BE REVIEWED AT DETAILED DESIGN STAGE IN VIEW OF SuDS FEATURES AND REQUIREMENTS



- NOTES**
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 - Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
 - Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
 - All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
 - The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. RGP logos and company information must be removed from copies if information is re-used.
 - The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
 - The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
 - The contractor must comply with all current legislation relating to health & safety.
 - All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between that information and the details on any RGP drawings, the manufacturers instructions must be used.
 - Contractor to confirm all invert levels where connections are proposed prior to commencing any drainage works. Contractor to commence drainage works at the point of discharge.

Rev.	Date	Amendments	Drawn	Appr.
A	06/02/2019	Revised site layout	SPB	MJA
-	27/11/2018	Original Issue	SPB	MJA

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Client: Persimmon Homes

Project	Land at West Somtptng Phase 1		
Drawing Title	Drainage Strategy		
Scale	1:500	Drawn By	SPB
Date	November 2018	Checked By	MJA
		Approved By	MJA
		Drawing No.	2017-D1358-SK300
		Rev.	A

PLANNING

NOT FOR CONSTRUCTION

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FINAL FINISHED FLOOR LEVELS/FINISHED ROAD LEVELS SUBJECT TO PROVISIONAL GRAVITY SEWER DESIGN

Proposed connection to existing FW MH, subject to S106 approval from Southern Water

Ex. FW MH 5813 CL 0.05 IL 5.50

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Surface Water Drainage Preliminary Calculations

- Estimated volume of storage calculated to be in the region of **4600-6400m³** for **Sompting North**.
- **Swales** are proposed, providing storage, infiltration and improved water quality of surface water run-off to the outfall.
- Swales ideally to be 0.75m deep, 1m wide flat base with 1:4 sloping sides.
- **Attenuation ponds** to provide additional storage. Preferably these would be normally wet, with a freeboard of around 500mm from the normal water level to the shoulder of the pond, where the run-off would be stored.
- Every 1m² of pond would provide 0.5m³ of storage.
- **Permeable Paving** to be used in vehicular areas that will not be adopted. This will provide a level of storage and improve the quality of run-off due to filtration and biological process

Upper Brighton Road (A27)

Swale

Permeable Paving

Public Foul Water Sewer
A Section 106 application will be required in order to secure a connection to the existing Public Foul Water Sewer

Southern Water Foul Water Feasibility Study to be undertaken in view of proposed development and foul water strategy

CULVERT REQUIRED UNDER PUBLIC HIGHWAY - TO BE AGREED WITH WEST SUSSEX COUNTY COUNCIL (WSCC)

Pond - 1000m³

West Street

Overflow 20l/s

Land Drainage Consent

- Works relating to Ponds, Swales and Watercourses subject to Land Drainage Consent.

Ex. FW MH 5203
CL 12.56
IL 11.34

Ex. FW MH 4101
CL 11.98
IL 10.81

Ex. FW MH 5204
CL 12.42
IL 11.06

Ex. FW MH 5105
CL 12.46
IL 10.04

Ex. FW MH 6101
CL 12.56
IL 9.58

Ex. FW MH 4102
CL 11.39
IL 10.68

Ex. FW MH 5112
CL 11.60
IL 10.55

Ex. FW MH 6102
CL 12.46
IL 9.52

Ex. FW MH 7102
CL 13.20
IL 11.28

Ex. FW MH 7101
CL 13.30
IL 11.91

Ex. FW MH 7203
CL 13.97
IL 12.81

Ex. FW MH 7201
CL 14.73
IL 13.12

Ex. FW MH 7202
CL 14.75
IL 13.16

Ex. FW MH 6003
CL 11.95
IL 8.88

Ex. FW MH 6002
CL 11.52
IL 8.33

Ex. FW MH 611D
CL Unknown
IL 9.20

-KEY-

- Site Boundary
- Existing Public Foul Water Manhole
- Proposed Foul Water Manhole
- Existing Public Foul Water Sewer
- Proposed Foul Water Sewer
- Proposed Attenuation Feature (Swale/Pond)
- Proposed Culvert
- Proposed Porous Paving



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Client
Persimmon Homes & Sompting Estate Trustees

Project
Land at West Sompting

Drawing Title
Preliminary Drainage Strategy
Sompting North

Scale	1:2000	Drawn By	SPB	Checked By	MJA	Approved By	MJA
Date	Sept 2017	Drawing No.	2017/D1358/SK301	Rev.	-		



Southern Water Foul Water Feasibility Study to be undertaken in view of proposed development and foul water strategy

Ex. FW MH 5905
CL 10.09
IL 6.58

Ex. FW MH 5613
CL Unknown
IL Unknown

Ex. FW MH 6703
CL 9.49
IL 5.04

Ex. FW MH 6705
CL 8.81
IL 4.66

Ex. FW MH 7701
CL Unknown
IL Unknown

Ex. FW MH 7601
CL Unknown
IL Unknown

Ex. FW MH 8801
CL Unknown
IL Unknown

Ex. FW MH 8501
CL Unknown
IL Unknown

Ex. FW MH 7402
CL 2.15
IL 0.66

Public Foul Water Sewer
A Section 106 application will be required in order to secure a connection to the existing Public Foul Water Sewer

Southern Water Foul Water Feasibility Study to be undertaken in view of proposed development and foul water strategy

Ex. FW MH 7401
CL 2.21
IL 0.66

Ex. FW MH 7301
CL Unknown
IL Unknown

Ex. FW MH 5905
CL 10.09
IL 6.58

Ex. FW MH 5613
CL Unknown
IL Unknown

Ex. FW MH 6703
CL 9.49
IL 5.04

Ex. FW MH 6705
CL 8.81
IL 4.66

Ex. FW MH 7701
CL Unknown
IL Unknown

Ex. FW MH 7601
CL Unknown
IL Unknown

Ex. FW MH 8801
CL Unknown
IL Unknown

Ex. FW MH 8501
CL Unknown
IL Unknown

Ex. FW MH 7402
CL 2.15
IL 0.66

Public Foul Water Sewer
A Section 106 application will be required in order to secure a connection to the existing Public Foul Water Sewer

Southern Water Foul Water Feasibility Study to be undertaken in view of proposed development and foul water strategy

Ex. FW MH 7401
CL 2.21
IL 0.66

Ex. FW MH 7301
CL Unknown
IL Unknown

-KEY-

	Site Boundary
	Existing Public Foul Water Manhole
	Proposed Foul Water Manhole
	Existing Public Foul Water Sewer
	Proposed Foul Water Sewer
	Existing Watercourse
	5m Watercourse Buffer Zone
	Proposed Attenuation Feature (Swale/Pond)
	Proposed Culvert
	Proposed Porous Paving
	Flood Zone 3

NOTES

A3

1.

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4.

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-	11/09/2017	Original Issue	SPB
Rev.	Date	Amendments	Drawn

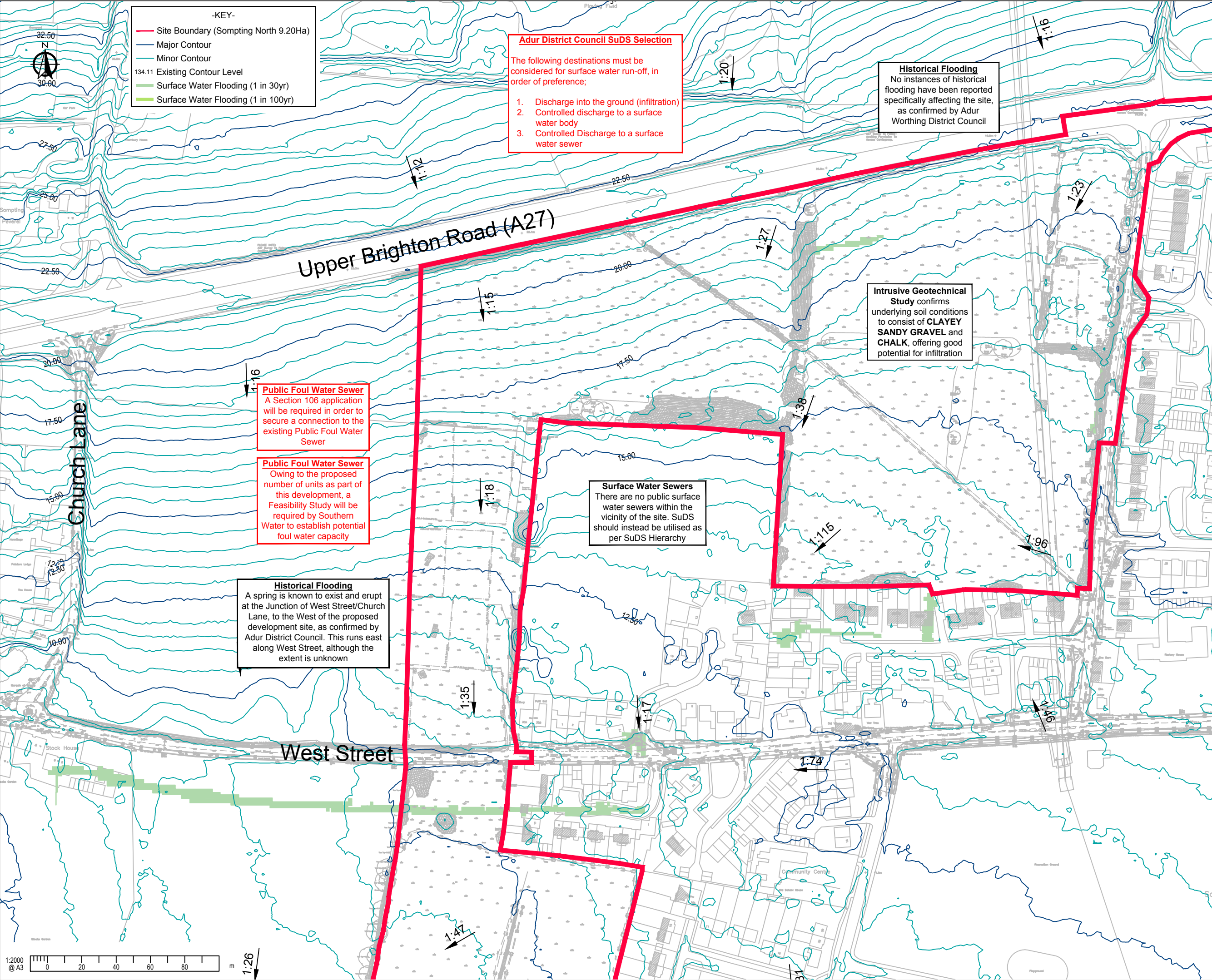
Transport Planning and Infrastructure Design Consultants
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Tel: 01243 210418 Fax: 01483 861682 www.rgp.co.uk

Client
Persimmon Homes & Sompting Estate Trustees

Project
Land at West Sompting

Drawing Title
Preliminary Drainage Strategy
Sompting South 2 of 2

Scale 1:2000	Drawn By SPB	Checked By MJA	Approved By MJA
Date Sept 2017	Drawing No. 2017/D1358/SK302	Rev. -	



-KEY-

- Site Boundary (Sompting North 9.20Ha)
- Major Contour
- Minor Contour
- 134.11 Existing Contour Level
- Surface Water Flooding (1 in 30yr)
- Surface Water Flooding (1 in 100yr)

Adur District Council SuDS Selection

The following destinations must be considered for surface water run-off, in order of preference;

- Discharge into the ground (infiltration)
- Controlled discharge to a surface water body
- Controlled Discharge to a surface water sewer

Historical Flooding

No instances of historical flooding have been reported specifically affecting the site, as confirmed by Adur Worthing District Council

Intrusive Geotechnical Study confirms underlying soil conditions to consist of **CLAYEY SANDY GRAVEL** and **CHALK**, offering good potential for infiltration

Public Foul Water Sewer

A Section 106 application will be required in order to secure a connection to the existing Public Foul Water Sewer

Public Foul Water Sewer

Owing to the proposed number of units as part of this development, a Feasibility Study will be required by Southern Water to establish potential foul water capacity

Surface Water Sewers

There are no public surface water sewers within the vicinity of the site. SuDS should instead be utilised as per SuDS Hierarchy

Historical Flooding

A spring is known to exist and erupt at the Junction of West Street/Church Lane, to the West of the proposed development site, as confirmed by Adur District Council. This runs east along West Street, although the extent is unknown

1:2000 @ A3

0 20 40 60 80 m

1:26

NOTES

A3

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A	28/09/2017	Revised site boundary	SPB
-	31/08/2017	Original Issue	SPB
Rev.	Date	Amendments	Drawn

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Design

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Tel: 01243 210418 Fax: 01483 861682

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Client

Persimmon Homes
Thames Valley

Project

Land at West Sompting Fringe,
Sompting, West Sussex BN15 0DQ

Drawing Title

Sompting North
SuDS/Drainage Constraints Plan

Scale

1:2000

Drawn By

SPB

Checked By

LDF

Approved By

LDF

Date

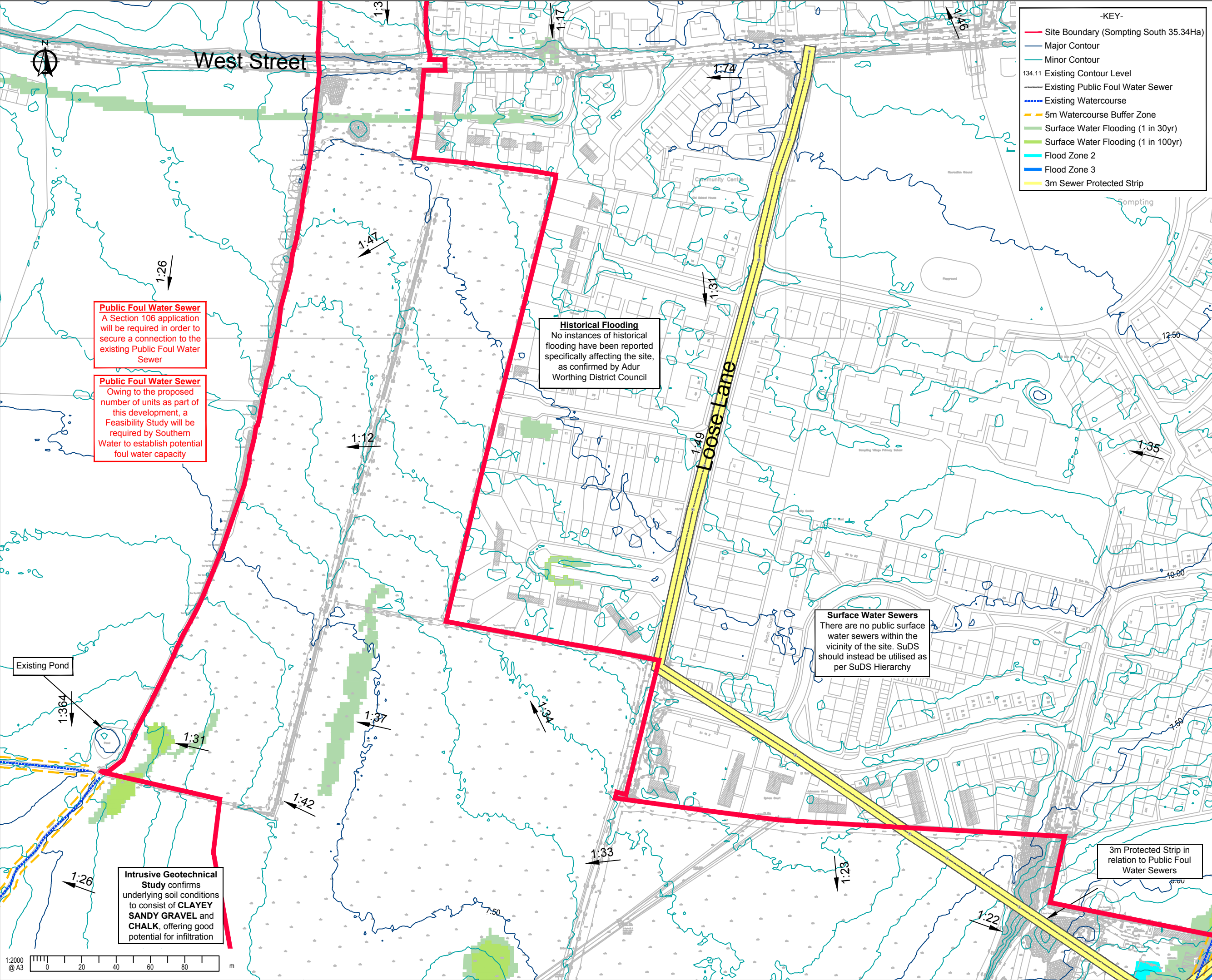
September 2017

Drawing No.

2017-D1358-SK1000

Rev.

A



NOTES

A3

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A	28/09/2017	Revised site boundary	SPB
-	31/08/2017	Original Issue	SPB
Rev.	Date	Amendments	Drawn

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Client

Persimmon Homes
Thames Valley

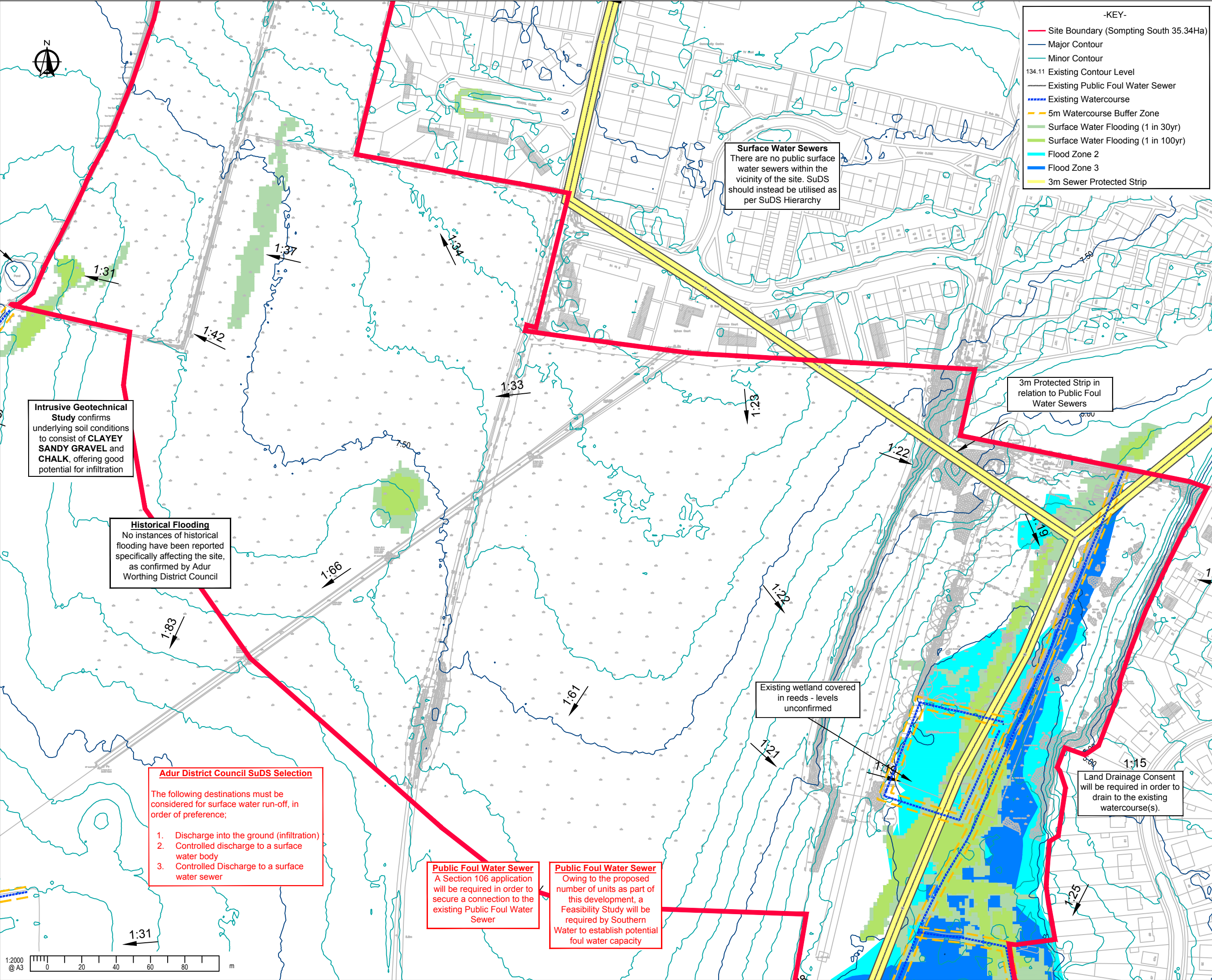
Project

Land at West Sompting Fringe,
Sompting, West Sussex BN15 0DQ

Drawing Title

Sompting South
SuDS/Drainage Constraints Plan (1/2)

Scale	1:2000	Drawn By	SPB	Checked By	LDF	Approved By	LDF
Date	September 2017	Drawing No.	2017-D1358-SK1001	Rev.	A		



NOTES

A3

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A	28/09/2017	Revised site boundary	SPB
-	31/08/2017	Original Issue	SPB
Rev.	Date	Amendments	Drawn

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Tel: 01243 210418 Fax: 01483 861682 www.rgp.co.uk

Client	Persimmon Homes Thames Valley		
Project	Land at West Sompting Fringe, Sompting, West Sussex BN15 0DQ		
Drawing Title	Sompting South SuDS/Drainage Constraints Plan (2/2)		
Scale	1:2000	Drawn By SPB	Checked By LDF
Date	September 2017	Approved By LDF	Rev. A
	Drawing No. 2017-D1358-SK1002		

APPENDICIES

Appendix A Architects Layout GA