

SuDS and Drainage Statement

Karenza, Hook Lane, Aldingbourne, West Sussex PO20 3TD

Rev: **2**

Ref: **C4044**

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Document Control

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Contents

1	INTRODUCTION	4
2	SITE GEOLOGY	5
3	EXISTING DRAINAGE	6
4	PROPOSED DRAINAGE STRATEGY	7
5	SUMMARY AND CONCLUSIONS	8
6	APPENDICES	9

1 Introduction

- 1.1.1 CGS Civils Ltd has been appointed to undertake a drainage strategy report for a proposed development at Karenza, Hook Lane in Aldingbourne.
- 1.1.2 The proposed development will consist of the extension and loft conversion of an existing dwelling. The proposed development is located at OS Grid Reference SU 93555 04462 and has the post code PO20 3TB.
- 1.1.3 The purpose of this drainage statement is to demonstrate how the development area can be satisfactorily drained without increasing flood risk onsite and elsewhere.

Fig 1. Site Location



2 Site Geology

2.1 British Geological Survey information

- 2.1.1 The British Geological Survey confirms the bedrock geology to be made up of London Clay Formation which is comprised of Clay, Silt and Sand. The BGS website confirms the superficial deposits on site to be made up of River Terrace Deposits which is comprised of Sand, Silt and Clay.
- 2.1.2 The British Geological survey also holds records of historical boreholes near the site which give some insight into the ground geology.
- Borehole SU90NW72 (Located approx. 550m North of the site) – Clay, gravel and sand.

Fig 2. British Geological Survey



2.2 Geological Assessment

- 2.2.1 Based upon the information gathered from the British Geological Survey, infiltration is viable on site.

3 Existing Drainage

- 3.1.1 It is not currently known how the existing dwelling discharges surface water runoff, however, based on anecdotal data, it is understood that surface water discharges to the foul network within Hook Lane via a combined connection.
- 3.1.2 A review of Hook Lane via Streetview uncovered the presence of gullies within the lane which hints at the presence of a highway drainage network. Investigation into this network is to be carried out to confirm if the gullies discharges into the existing foul sewer or a separate network.

Fig 3. Southern Water Sewer Records



4 Proposed Drainage Strategy

4.1 SuDS Hierarchy

- 4.1.1 All options for the destination of run-off generated on site have been assessed in line with the SuDS hierarchy as set out in Building Regulations Part H document and DEFRA's Draft National Standards for SuDS.

Table 1. SuDS Hierarchy

Discharge Destination	
Discharge to Ground	Based on British Geological Survey Borehole SU90NW72, infiltration is viable on site
Discharge to Watercourse	No nearby watercourse noted.
Discharge to Surface Water Sewer	An existing surface water sewer is located at the junction to St Johns Close which is approximately 130m to the east of the site.
Discharge to Other Sewer	Discharge of surface water runoff to a foul sewer is not recommended.

4.2 Surface Water Drainage

- 4.2.1 The British Geological Survey Borehole SU90NW72 confirms that infiltration is viable on site, including at shallow depth to support a shallow infiltration feature such as a raingarden.
- 4.2.2 Should infiltration be ruled out, then it is proposed that investigations into the existing drainage within Hook Lane are carried out to confirm if there is a separate highway drainage network or if the runoff discharges into the foul sewer.
- 4.2.3 In order to adhere to National Standards for SuDS, the discharge rate is to be restricted to greenfield runoff or 3l/s/ha. There is the opportunity to provide water treatment in addition amenity and biodiversity within the form of SuDS planters which can be utilised on site.

4.3 Foul water drainage

- 4.3.1 The foul water will discharge into the existing foul water network on site which is understood to discharge into the existing sewer within Hook Lane. Discharge is not expected to increase as a result of the proposed development.

5 Summary and Conclusions

- 5.1.1 CGS Civils has been instructed to produce a Drainage statement under National Planning Policy Framework (NPPF) to support the Planning Application for the extension and loft conversion of an existing dwelling.
- 5.1.2 The surface water is to be discharged to the ground via infiltration. Alternative means of discharge is to be sought via a connection to a potential existing highway drain.
- 5.1.3 The Foul water will discharge into the foul water network that serves Karenza and is understood to discharge into the foul water sewer within Hook Lane.
- 5.1.4 The report has demonstrated that the proposed drainage measures ensure that suitable means of surface water and foul drainage can be achieved for the proposed development.

6 Appendices

6.1 Appendix A – Site Plan



Proposed South Elevation



Proposed East Elevation



Proposed North Elevation



Proposed West Elevation

Notes

CDM REGULATIONS 2015

The client must abide by the Construction Design and Management Regulations 2015. The client must appoint a contractor, if more than one contractor is to be involved, the client will need to appoint (in writing) a principal designer (to plan, manage and coordinate the planning and design work) and a principal contractor (to plan, manage and coordinate the construction and ensure there are arrangements in place for managing and organising the project).

Domestic clients

The domestic client is to appoint a principal designer and a principal contractor when there is more than one contractor, if not your duties will automatically transferred to the contractor or principal contractor.

The designer can take on the duties, provided there is a written agreement between you and the designer to do so.

The Health and Safety Executive is to be notified as soon as possible before construction work starts if the works:

(a) Last longer than 30 working days and has more than 20 workers working simultaneously at any point in the project.

Or:

(b) Exceeds 500 person days.

All contractors/sub-contractors must ensure that they are in possession of the currently issued drawings and details before commencing the relevant 'work-stage'. All measurements to be checked before work begins; any discrepancies must be reported to the designer so that alterations can be made prior to commencement of building works.



No.	Revision/Issue	Date.
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Proposed Side Extension & Loft Conversion Plans and Elevations Planning
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