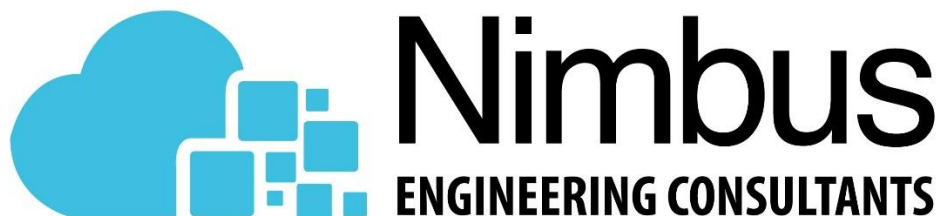


**TEMPORARY DRAINAGE STRATEGY AND
PERFORMANCE SPECIFICATION TO CONTROL
SURFACE WATER RUNOFF AND POLLUTION
PREVENTION PLAN**

DOCUMENT NUMBER.: C3309-R1-REV-A

PREPARED BY



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1. INTRODUCTION

1.1 Appointment

Nimbus Engineering have been appointed to provide a temporary drainage strategy and performance specification to control surface water runoff and Pollution Prevention Plan (in accordance with Environment Agency guidance). This information has been provided to ensure that all surface water during the construction stage is managed effectively on site, and there is no increased risk of flooding at this site or elsewhere, as well as to discharge part viii of condition 28 of the decision notice

1.2 Objectives

This report will provide information on temporary measures to be provided during the construction stage, in order to reduce the surface water run off leaving the site and to ensure there will be no increase in flood risk at the site or elsewhere, or contamination of the receiving groundwater during the construction stage.

1.3 Limitations

The general limitations of this report are:

- A number of data and information sources have been used to prepare this report. Whilst Nimbus Engineering believes them to be trustworthy, Nimbus Engineering is unable to guarantee the accuracy of data and information that has been provided by others;
- This report has been prepared using the best data and information that was available at the time of writing. There is the potential for further information or data to become available, leading to changes in the conclusions drawn by this report, for which Nimbus Engineering cannot be held responsible.

2. DEVELOPMENT PROPOSALS

The development proposals are as follows:

“Demolition of existing dwellings and redevelopment to provide a 66 bed care home (Use Class C2); associated basement; side / front lightwells with associated balustrades; subterranean and forecourt car parking; treatment room; detached substation; side access from Courtenay Avenue; removal 4 no. trees; amended boundary treatment; and associated works”

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3. GENERAL CONSTRUCTION WORKS

The site will commence with the digging out and installation of the attenuation system for the rainwater.

The attenuation tanks will be installed and kept clean and intact during the construction process and will be subject to inspections during the process as listed elsewhere.

All plant used for the construction process will be stored on the existing or new hardstanding and when refuelled on the hardstanding over drip trays to deal with any spillage. The plant and equipment will be checked by the site manager on a daily basis for fuel and oil leaks and any issue will be dealt with immediately. Any contaminated water will be removed and dealt with off site. Therefore there is no risk of blockages at the new permeable paving areas, or contamination of these areas, however they will mostly be laid following most of the construction works being completed.

During this construction process and because of the condition of the current materials and ground structure on site there will be very little requirement to create large storage of soils or aggregates on site, where we have to store on site the materials will be covered with tarpaulin, which will be held down to avoid rainwater washing the materials into the drainage system.

Any surface water arising during the construction period, will be present on the site would be by means of excessive rainfall. This will be dealt with by means of temporary lined drainage channels at the site being provided and lagoons, and pumping of any pooling water into a catchpit chamber prior to allowing the rainwater to disperse correctly into the new SuDS system.

Inspections during and after the construction of the SuDS components and the overall scheme will be carried out to ensure that the system is being constructed correctly and that design assumptions and criteria are not invalidated by changes made on site and variations in ground conditions.

The following inspections will be undertaken as necessary, and photographs will be taken at every stage of the project:

- Pre-excavation inspection to ensure that construction run off is being dealt with adequately on site and will not cause clogging of the SuDS components.
- Inspection of excavations for the attenuation tanks

- Inspection of manufacturers details of membranes, inlets, outlets and any control structures associated with the SuDS installation.
- Confirmation of sources for materials, i.e. soil, planting lists and material specifications.
- Inspections during laying of all the pipework.
- Inspections and testing during the placing of earthworks materials or filter materials.
- Inspection of the prepared SuDS components as they are installed.
- Final inspection before handover to the end user.

The contractor installing the SuDS scheme will be made fully aware of all the inspections that are to be carried out, all meetings will be timed to enable each step of the process to be signed off before starting the next phase of the works.

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All photographs and details of the inspection will be produced in the management plan for the site.

6. CONCLUSIONS

The purpose of this document is to ensure that all operatives are aware of the importance of the correct installation and operation of the SuDS system to this site and to deal with any surface water or potential flood risks during the construction and demolition phase of this project.

Furthermore, we have proposed sufficient measures such as lined drainage channels and temporary lagoons to make sure that any contaminated surface water from the construction works is taken off site, therefore does not enter the SuDS system, and does not contaminate the receiving groundwater.

All items listed in this document will be adhered to by all on site and will be managed by the Site Manager.

On completion of the project the SuDS system will be thoroughly checked and left clean and operating correctly.

Provision will be made in the construction contract to review the performance of the SuDS when it is completed, and to allow for any minor adjustments and refinements to be made to optimise the physical arrangements, based on observed performance.

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