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(SECTION A) Gravel car park block paving - - turf

(SECTION B) edge of gravel / verge

(SECTION C) Speed bump / Rumble Strip

BELOW GROUND DRAINAGE

The foul drainage is to connect to the existing cess-pit. This is to be fully detailed and confirmed by the contractor/drainage designer and agreed with the Building Inspector. Should a gravity system not be feasible, a suitable pumping installation should be provided with adequate storage and alert system

Storm drainage to an outflow to the public water course adjacent to the site with the permission of the local Water dustily company. If this is not possible a combined sewer may be connected to. Flow restriction when connecting to a public watercourse or sewer should be agreed with the Water Authority prior to construction.

The sewerage undertaker should be notified at least three weeks before it is intended to connect to the public sewer. Should this not be possible please discuss alternative options with the building control body before works commence.

The likelihood of surcharging should be discussed with the sewerage undertaker and the relevant action taken if necessary. Where the risk is considered low, building protection may be acceptable in the form of gulleys.

Changes in direction and gradient should be minims and access points provided where required. Connections should be made in the direction of flow and using prefabricated components.

When connecting to existing, repair couplings should be used to ensure a watertight joint and the junction packed to avoid differential settlement with adjacent pipes.

The system should be ventilated, pipes laid to even gradients and straight lines. Slight curves are acceptable subject to any blockages being accessible

Where pipes are laid within 1m of the building, backfill with concrete to a level below the lowest of the building, equal to the distance from the building less 150mm. Concrete encasements to have expansion joints at 9m maximum intervals

Where pipes pass through walls or substructure, provide bridge movement joints and structural lintels. Openings to be masked with suitable rodent barrier to prevent entry of vermin or fill material. All in accordance with ADH1, Section 2, Diagrams 7 and 8.Pipe gradients and sizes should be in accordance with ADH1, Section 2, Diagram 9.

The sewer should have a minimum diameter of 100mm with a minimum flow rate of 3.5 l/s. The drain carrying foul water should have a minimum internal diameter of 75mm. Drain gradients should be laid in accordance with ADH1, Section 2, Table 6.

Manholes and inspection chambers are to be constructed using precast units fixed in accordance with manufacturers instructions. Access fittings shall be not less than 225 diameter. where depth is less than 600mm, inspection chambers to be not less than 450 diameter. where not greater than 1200 deep, and manholes 1000 diameter. where depth is not more than 1500mm. Covers are to be appropriate duty, and must be screw fixed.

All foul drainage to have minimum falls of 1:40

All Storm Drainage to have minimum falls of 1:80

Pipes may be rigid or flexible, suitable materials for pipework include:

Vitrified clay to BS 65, BS EN 295, concrete to BS 5911, Copper (to BS 416 & BS EN 877) PVCu (to BS EN 1329), ABS (to BS EN 1455), Galvanised Steel (to BS 3868), others may be appropriate for use, note that not all are appropriate for trade effluents

Materials for pipes and jointing should be appropriate to the material of the pipes. Joints should be flexible and remain watertight.

In general, Rigid pipes to bed onto 100mm of Granular material conforming to BS EN 1610, with minimum 150mm selected fill over top. Flexible pipes to bed onto 100mm granular material and surrounded, with 100mm of granular fill free from stones larger than 40mm, with 200mm selected fill over top.

Where pipes are laid at shallow depths, encase in granular surround with compressible material overtop and reinforced concrete slab (300mm bearing on ground each side) over top. Dependent on ground conditions bedding may need to be increased

Sufficient and suitable access points should be provided in accordance with Table 11,12, 13, 14 and text 2.46 - 2.54. These are to be confirmed by specialist.

Workmanship to be in accordance with BS8000, care taken to prevent entry by rats and protected from trafficking.

An air or water test should be undertaken as described in BS8000

To be read in conjunction with 8219 04 01/02/03/04/05/06/07/08/09/10.

REV

A - 19.07.2022 - amendments as a result of design coordination
B - 26.10.2022 - drainage outfall amended and storage tank indicated - refer to M-EC drawing for detail

Revision Notes.

Drawing Status.

INFORMATION

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Project.
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Title.
Proposed Site Plan

Scale.	Drawn.	Checked.	Date.
1:200@A1	PJB	NC	20 05 2022

Drawing No.	Revision.
8219 04 05	B

HSSP A1