

Introduction

Scothern Construction are to construct a residential development in accordance with North Lincolnshire Council planning reference APP/Y2003/2/21/3266829.

The following drainage strategy is provided to comply with North Lincolnshire Council Lead Local Floody Authority (LLFA) requirements and to assist in the discharge of planning condition 12.

Sustainable Drainage Statement

The below highlights the developed drainage strategy for the residential development at North Street, Winterton.

We have taken into account ground conditions, topography and sustainable drainage best practice guidance for surface water management in developing this strategy.

The intrusive ground investigations have identified that infiltration via source control will be viable for this site. This is the proposed drainage strategy for the development in accordance with the sustainable drainage hierarchy.

Surface Water Drainage

On Plot Drainage

Dwelling roof water will be collected via rainwater pipes and conveyed to below ground cellular crate infiltration systems, situated within the rear garden curtilage.

Private driveways are proposed to be porous (Type A) and infiltrate directly into the ground.

Highway Drainage

The shared surface highway is proposed to be constructed using porous block paving techniques that will permit infiltration directly into the ground.

It is proposed to collect and convey surface water drainage from the impermeable asphalt highway to discharge into a below ground cellular crate infiltration system, to be located within the POS.

This cellular crate infiltration system has been designed to the 1 in 100year return period standards, including an allowance for climate change at 40%.

The selected location and dimensions of the cellular crate highway drainage system has been developed based on the emerging masterplan and site constraints.

Foul Water Drainage

It is proposed to collect and convey foul water effluent from the residential dwellings using a combination of gravity drainage and pumped mains. The primary sewerage network within the highway areas will be offered for adoption by Anglian Water Services.

It has been identified that a pump station and pumped main will be required to convey the flows of the foul drainage from the site to the existing public sewer.

The foul water pump station will be situated within the public open space (POS) to the Northeast of the site and offered for adoption by Anglian Water Services.

The foul sewerage network is to discharge to the existing public foul sewerage network in the junction of Newport Drive in accordance with Anglian Water Services criteria.

The above drainage statement is to be read in conjunction with the following documents:

- Impermeable Area Plan Drawing ref: CCL-21-0708-ALL-DET-EXT-C-004-P3
Proposed Impermeable Area Plan
- Cellular Crate Soakaway Calculations ref: 21-0708 Highway SA02
- Ground Investigations document ref: 47307-ECE-XX-XX-RP-C-0002 North Street,
Winterton - Phase 2 Site Investigation