SEAGATE HOMES (UK) LTD

James Road, Crowland

Sustainable Drainage System (SuDS) Method Statement

1. Contact Details:

• TBC – Site Manager

• TBC – Construction Manager

2. SuDS elements to be completed:

• Construction of under-drained infiltration trenches and attenuation basin as part of the surface water drainage system.

3. Construction Drawings:

Document to be read in conjunction with the following drawings:

• 12575-WMS-ZZ-XX-DR-C-39501-S8-P5 – S38 Layout

• 12575-WMS-ZZ-XX-DR-C-39503-S8-P3 – S38 Construction Details

• 12575-WMS-ZZ-XX-DR-C-39507-S8-P2 – S38 Kerbing

• 12575-WMS-ZZ-XX-DR-C-39201-S8-P5 – S104 Layout

• 12575-WMS-ZZ-XX-DR-C-39208-S8-P1 – S104 Infiltration Sewer Construction Detail

4. Proposed Surface Water Management (Pre-Development)

Site levels vary between 1.88m AOD to the northwest boundary of the site down to 1.15m AOD to the south-central area of the site. To the northern boundary of the site is an existing watercourse which is maintained by the North Level Internal Drainage Board and to the eastern boundary a riparian maintained ditch which connects to the IDB watercourse to the north.

The underlying soil strata make-up has been investigated and reported within the site investigation report for this site (Ground Engineering report C15122 October 2020). The ground conditions comprised a surface layer of made ground to between 0.20m and 0.80m depth, underlain by superficial Tidal Flat Deposits comprising sandy, silty clay, overlying very silty to silty Marine Sand at 0.50m to 1.30m depth. Groundwater was recorded between 2.05m and 3.40m depth during the investigation.

5. Proposed Surface Water Management (Construction Phase)

Refer to Construction Management plan showing the proposed site management / operation layout.

The attenuation basin will be formed following the site strip and bulk earth movements.

The sewer network will be constructed in the first instance with the perforated pipes laid under the infiltration trenches.

Surface water is to use the drainage system as it is built with the adoptable sewers constructed under a S104 agreement.

As the adjacent road is constructed sections of bullnose kerbing will be removed following binder course surfacing to allow water to flow into the infiltration trench/sewer.

Gullies are to be maintained and kept clear from debris. Materials are not to be stored near to gullies to avoid run off.

Manhole covers are to be lined with geotextile and covered with a thin layer pipe bedding material to minimise silt deposits into the system.

The proposed outfall for the surface water drainage system is to the existing IDB watercourse to the north of the site.

6. Proposed Protection Measures for SuDS during Construction Phase

The top of the infiltration trench and permanent permeable membrane (geotextile) shall be protected with a sacrificial layer geotextile and pipe bedding material to intercept any silt from the construction phase. Following construction these will be removed and engineering topsoil root zone installed.

The perimeter of the infiltration trenches and the perimeter of the attenuation basin shall be protected from site traffic by signing and guarding avoid vehicles trafficking them.

Manhole covers are to be lined with geotextile and covered with a thin layer pipe bedding material to minimise silt deposits into the system.

No materials are to be stored near SuDS features to avoid run-off into the features.

7. Proposed Surface Water Management (Post-Construction)

Following construction and prior to transition to maintenance periods, the surface water drainage system is to be surveyed and cleaned fully to ensure the removal of any silt or debris.

The protection to infiltration trenches is to be removed and the engineered topsoil root zone is installed.

The missing bullnose kerbing is to be laid on a mortar bed to suit final finished carriageway levels.

Document prepared by:	On behalf of:
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