

- Civil Engineering
- Structural Engineering

LOVELL

Innovation House,
Daten Park, Kelburn,
Birchwood, Warrington
WA3 6UT

For the attention of Mr. Richard Sedden

Date: 12/12/2024

RE: 19045 Edge Lane – Block A Levels

I can confirm that the levels were determined based on drainage constraints and the need to achieve level access to the ground floor apartments.

The heavily contaminated existing ground, which could not be removed from the site, and the need for additional clean cover contributed to the setting of the finished level across site. These levels influenced the road levels which in turn affect the drainage levels.

The main entrance to the carpark is set by an invert level of the surface water manhole S5 near the courtyard entrance of 85.575m. This manhole connects with a 900mm attenuation pipe which requires 1.2m of cover above it to comply with United Utilities' adoptable standards. This resulted in a cover level of 88.349 on the manhole at the carpark entrance.

The apartment block itself was placed approximately 150mm above the Carpark entrance level, in line with standard practice.

In summary the contamination set the site levels which governs the road levels and drainage levels. The road levels have also been influenced by the drainage attenuation and the cover required for them to be adopted. This in turn set the carpark level and consequently the apartment block entrance and the ground floor level.

All of the levels have resulted in the need for steps from the ground floor of the apartment onto Fairfield road.

Yours sincerely,

Stuart Fraser CEng MICE
UK Regional Director