FORMAVOID IN ACTION

Project:

North Manchester Hospital

Car Park 26 - Retrofit SuDS

Below formation pipe network

PCC kerb checkdam

The Project

Renewal & upgrade of an existing car park as part of the North Manchester General Hospital development masterplan.

The Solution

Retrofit shallow stormwater attenuation and implement a restricted discharge (previously unrestricted) into the main sewer to create room/capacity for new developments.

The 210mm deep Formavoid subbase (100mm Formavoid & 110mm Type 3 MOT cover) provided sufficient stormwater attenuation volume across the whole area to suitably restrict the outlet, whilst remaining shallow and above existing services.

The car park was on a sloping gradient and checkdams were incorporated into the subbase to optimise attenuation volume on a slope.

The car park was finished with an impermeable tarmac surface with linear channel drains at the surface collecting stormwater and discharging directly into the Formavoid subbase.

A great example of utilising a permeable subbase construction beneath an impermeable surface.

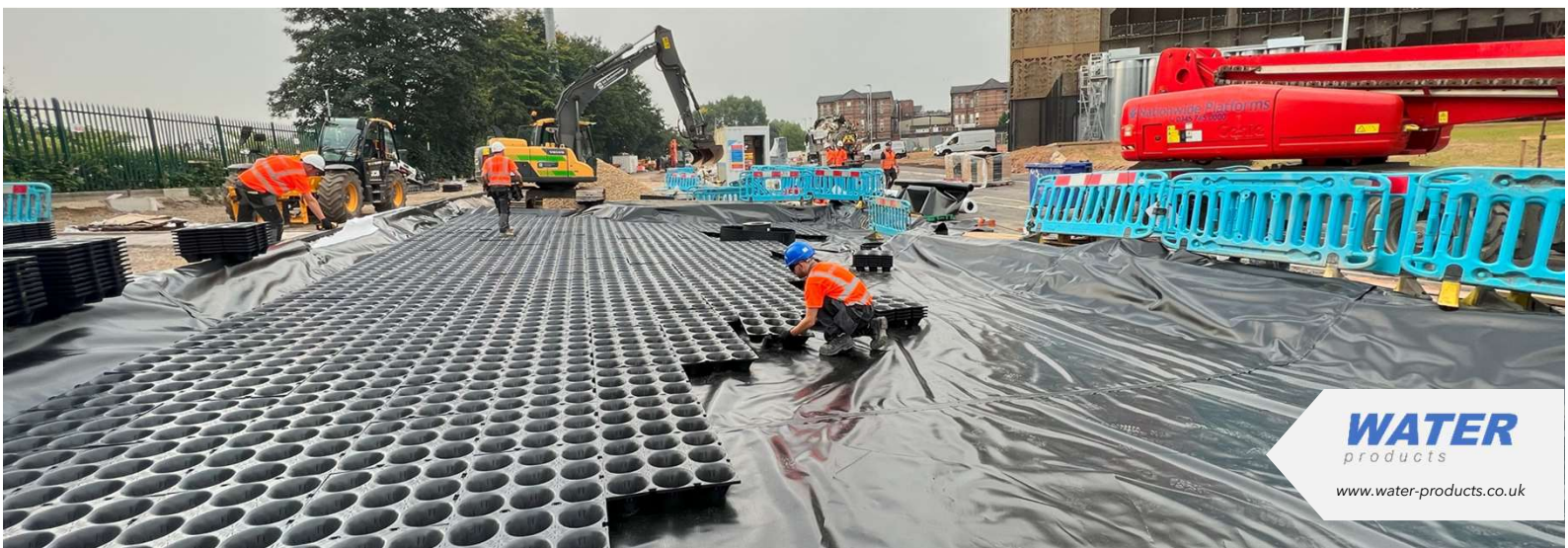
Environmental

- Carbon zero, recycled plastic Formavoid units
- 290tons of aggregate saved - saving 1,500kg of embodied carbon
- Shallow & above formation
- Controlled discharge of treated stormwater to the watercourse

Significant Facts & Figures

Attenuation provided: 250m^3
Formavoid area: 2,400m^2
Subbase depth: 210mm
Suitable for car loading and occasional HGV

Visit www.water-products.co.uk for more information.



WATER products
www.water-products.co.uk

FORMAVOID IN ACTION

Project:

North Manchester Hospital

Car Park 26 - Retrofit SuDS

Geomembrane installation & sealing to chambers

Linear channel drain

Formavoid installation with MOT Type 3

WATER products

www.water-products.co.uk

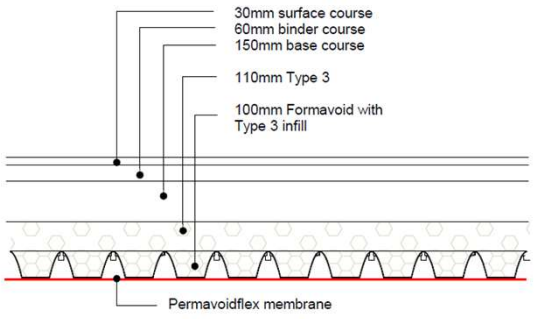
FORMAVOID IN ACTION

Project:

North Manchester Hospital

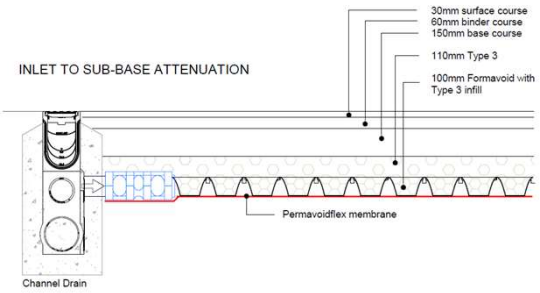
Car Park 26 - Retrofit SuDS

Formavoid Enhanced Subbase Build-Up

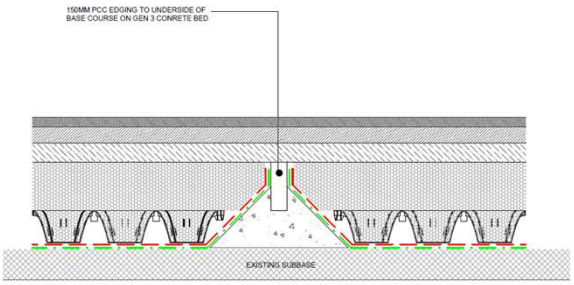


TYPICAL PAVEMENT CONSTRUCTION

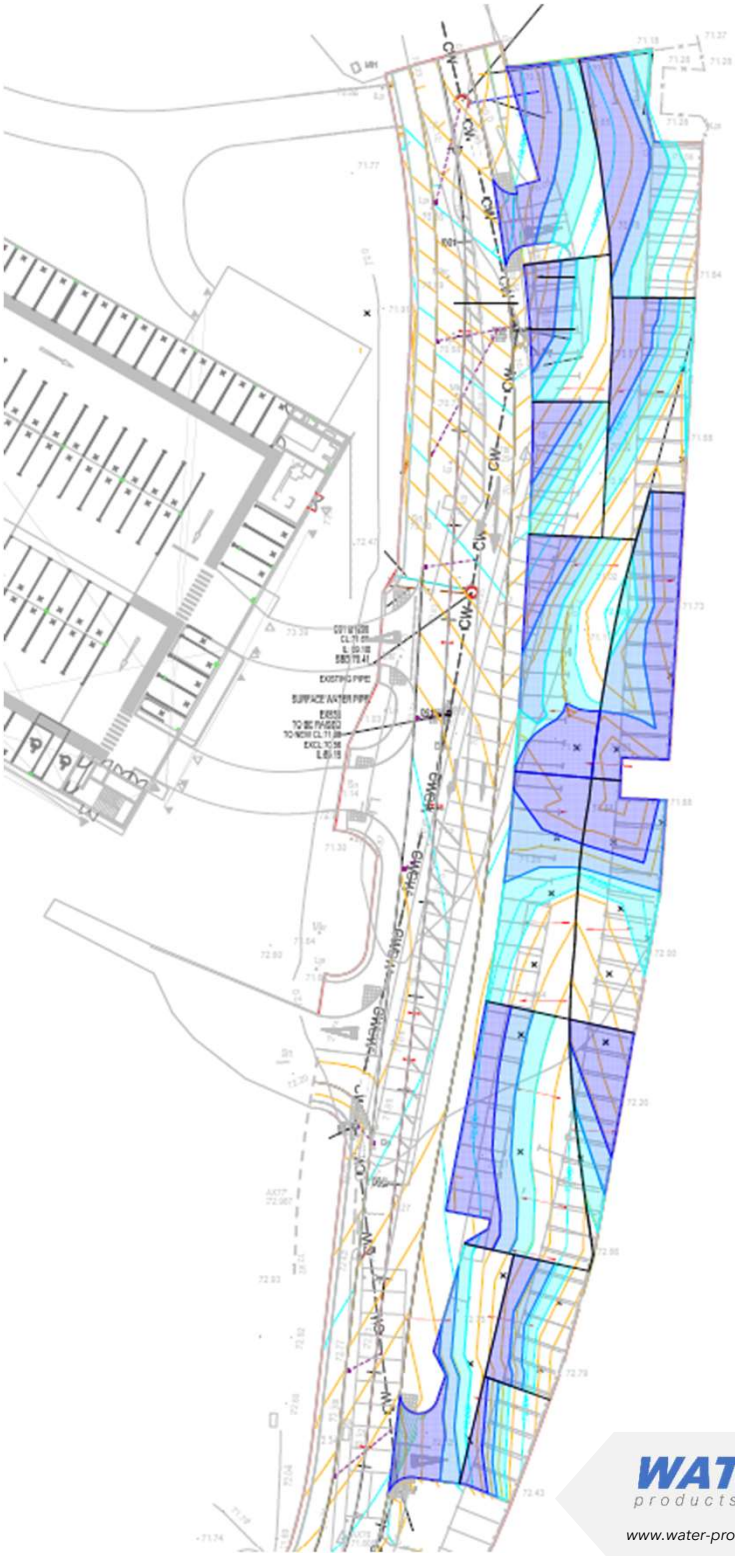
Formavoid Subbase Channel Inlet



Formavoid Checkdam Detail



Slope Attenuation Optimisation Analysis



WATER products

www.water-products.co.uk