

[REDACTED]

Please could you upload the e-mail below to the application folder BE/70/20/DOC as a consultation response from ADC Drainage Engineer?

Thank you

Raymond Cole
Principal Planning Officer
Directorate of Place

[REDACTED]



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Hi Chris,

Thank you for providing the revised information. My comments are as follows.

Condition 6- surface water drainage design

1. Figure showing groundwater monitoring locations awaited.
2. A surcharged outfall has been modelled, however the level of surcharge has been decreased and is insufficient. A surcharged level of 1.3m is currently modelled. As per original request, please model water level to be at top of bank level. Please provide any additional storage as required.
3. Modelled invert and cover levels are inconsistent to those on plan.
4. An overflow is proposed from the main flow control device at MH9. The overflow is proposed to be located above the 1 in 30 plus 30% cc level. The overflow must be located above the 1 in 100 year plus cc level.
5. A construction detail drawing should be provided for each of the proposed flow control devices, i.e. one of the hydrobrake with overflow at MH9 and one of the orifice at MH7. These should be site specific, with orifice diameters, hydrobrake references and levels specified.
6. Please detail the requirements that the full detention separator must meet. E.g. size, standards.

Condition 7- discharge of flows

Awaiting resolution of condition 6.

Condition 8- maintenance of SuDS

1. Frequency for maintenance of channel/ slot drains must be specified.
2. Balancing pond/ detention basin maintenance must be expanded upon to include frequency of vegetation cuts, removal of saplings, desilting, inlet/ outlet inspection, remediation, replacement of liner at end of design life.
3. Expand upon maintenance of flow control devices, see below for example of level of detail required for this. This level of detail should be provided for all elements of the designed suds system.
4. Will be reviewed further once condition 6 is resolved.

Flow Control Maintenance

Normally, little maintenance is required as there are no moving parts within the Flow Control. The Flow Control is fitted with pivoting by-pass door, which allows the manhole to be drained down should blockage occur. It is recommended that the unit be inspected at six monthly intervals with hose down if required. All flow controls are typically manufactured from grade 304 Stainless Steel which has an estimated life span in excess of the design life of drainage systems.

Maintenance Schedule	Required Action	Recommended Frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months, then six monthly
	Operation testing and jettling of debris to bypass door	Monthly
	Debris removal from catchment surface (where may cause risks to performance)	Monthly
	Remove sediment from control chamber sumps	Annually, or as required.
	Remove sediment and oil deposits from all trapped gullies including bottle gullies and catchpit chambers upstream of permeable paving to prevent silt entering permeable paving and reducing performance.	Annually, or as required.
Remedial actions	Repair/rehabilitation of inlets, outlets, overflows and vents.	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed.	Annually and after large storms

Kind regards,