



TABLE 21.3 Operation and maintenance requirements for attenuation storage tanks		
Maintenance schedule	Required action	Typical frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary.	Annually
Remedial actions	Remove sediment from pre-treatment structures and/or internal feedings.	Annually, or as required
	Repair/rehabilitate 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
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required

Connections to existing chambers shown on Yorkshire Water records. Details to be confirmed.

NOTE: RWP's, Pop-ups, below slab network, and connections into the main drainage runs have not been shown. An allowance should be made for these items, including pipework, inspection chambers, gullies, thresh drains, and additional manholes.

Below ground attenuation structure 200m³ free volume

DO NOT SCALE

- Notes
- All levels shown are in meters and are relative to ordnance datum (m AOD).
 - Attenuation free volume required is 200m³ based on a 1 in 100 year storm + 40% Climate change.
 - Invert levels of all existing chambers and connection points are to be confirmed and engineer advised prior to commencement of any Drainage Works.
 - Concrete bed and surround is required to all gully leads and to all pipes in highways/hardsland where cover to pipe <1200mm
 - All pipes to be either extra strength V.C. to BS 65 or PVC to BS 4660 or BS 5481 'UPONOR ULTRARIB' or concrete pipes Class 120 to BS 5911
 - All RWP & PP locations are indicative and accurate positions should be taken from the Architects drawings.
 - Existing sewer positions are indicative and are not to be used in conjunction with design. Contractor to confirm location.
 - All RWP connections to proposed manholes to be 1000. All Surface water sewers between manholes to be 1000 unless noted otherwise. All gully leads to be 1500.
 - Contractor is responsible for positioning of MHs so they do not sit between two surface materials.
 - Design subject to LLFA approval.
 - Adoptable drainage subject to YWL S104 approval

S.H.E.
Do not excavate until all underground services have been identified and marked out. Refer to service providers drawings and to the utilities survey drawings. Unknown underground services may exist. Check for services by carrying out a scan with a cable avoidance tool.

Legend

- Proposed SW Network
- Proposed Permeable Paving
- Proposed Manhole
- Proposed FW Network

First Issue	TC	P1	JC	08.04.2020
AMENDMENT	BY	REV	CHK	DATE
Rev P = Preliminary T = Tender C = Construction LCI = Last Construction Issue				
In instances where this drawing completes or partly completes a contract, Billingham George & Partners will consider that it's product has been validated, unless in a period not exceeding 90 working days, the client advises to the contrary.				
Client	Housing 21			
Project	Kenmore Drive Extra Care			
Drawing Title	Proposed Drainage			
Drawn	TC	Date	08/04/20	
Checked	JC	Date	08/04/20	
Scale	1:250 @ A1	Original Size	A1	
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NOTE: Existing services must be located & identified on site prior to any works commencing.