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CH/JSS/AT

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Drainage Maintenance Schedule

Client: Harron Homes

Project: Merchant Fields, Cleckheaton

This drainage management and maintenance plan should be read in conjunction with the Drainage Layout prepared by Eastwood Consulting Engineers (drawings prefixed 48867).

Maintenance of the SuDS systems proposed for this site will be in accordance with the recommendations within The SuDS Manual (CIRIA C753, 2015) along with any recommendations provided by suppliers and product specifications.

Table 1 summarises maintenance actions and frequency for each component (surface and sub surface) of the drainage system. Additional maintenance to that scheduled will also be required after a flood event.

Features adopted by authorities such as drainage authorities, will be maintained under their normal regime of inspection and maintenance.

There is a 150 mm Yorkshire water surface water sewer entering the northern site boundary that discharges to an existing unnamed ditch/ swale feature within the site, ultimately connecting to Nann Hall Beck at a point immediately north-east of the site boundary. Yorkshire Water will continue

to maintain their asset and headwall. The unnamed ditch/ swale feature will be maintained by a private management company following general maintenance arrangements described in Table 1 below. A 3 m easement around this feature has been accommodated in the site layout to allow undisrupted flow to Nann Hall Beck and enable access for maintenance.

Maintenance access requirements need consideration for all proposed drainage features. A 3.5 m access track is proposed around the basin to ensure vehicle access to undertake maintenance tasks. Areas with sub surface attenuation have also been designed to enable vehicle access.

The maintenance schedule below should be followed to ensure flood risk on site does not increase through system blockages or poor maintenance. Following the maintenance schedule is required to ensure the drainage features remain functional for the lifetime of the development.

SuDS SYSTEM	**ACTION**	**FREQUENCY**
Sub-surface storage	Remove debris from catchment surface where it may affect performance	Monthly
	If the system allows rainfall infiltration from above, check filter surface for blockages. Remove and replace infiltration material if deemed necessary.	Annually
	Remove sediment from pre-treatment structures	Annually or as required
	Inspect inlets, outlets, vents and overflows to ensure they are operating as designed	Annually
	Remedial work to repair inlets, outlets, overflows and vents	As required
	Survey inside of storage area for sediment build up. Remove sediment if required.	As required
Silt trap manholes	Inspect surface structures of inlets and outlets removing obstructions and silt as necessary. Check there is no physical damage.	Monthly
	Inspect silt traps and note rate of sediment accumulation	Monthly in the first year and then annually (or more frequently if necessary)
	Remove cover and inspect ensuring water is flowing freely and that the route for water is unobstructed. Remove debris and silt.	Annually

Silt trap manholes	Undertake inspection after leaf fall in autumn.	
	Where there is a build-up of silt exceeding 50% of the sump depth, the excessive sediment shall be removed and disposed of at a licensed tip.	As required
Basin	Inspect surface inlet/ outlet structures removing obstructions and silt as necessary. Check there is no physical damage.	Monthly
	Mow grass access paths and verges surrounding basins at 35 to 50 mm minimum and 75 mm or as specified to provide a cared for appearance and allow pedestrian access.	Monthly or as required.
	Where silt accumulated on apron or around inlet/ outlet, then remove.	Annually or every 3 years as required
	Retain as much existing vegetation as possible to ensure rapid re-colonisation of open areas.	Annually or every 3 years as required
	Undertake silt removal during September-October to minimise damage to protected wildlife and ensure re-growth of aquatic vegetation before winter.	Annually or every 3 years as required
Swale feature/ drainage ditch	Mow surrounding amenity grass access paths and verges at 35 – 50 mm minimum and 75 mm maximum.	Monthly or as required
	Mow swales at 100 mm with 150 mm maximum to filter and control runoff in normal grass swales.	Monthly or as required
	Where marsh or wetland develops in the swale due to wet conditions, cut annually, or as required at 100 mm.	Annually or as required
	Where there is a build-up of silt, remove and spread on site. Undertake when ground is damp in autumn or early spring and transplant turf and overseed to original design levels.	As required
	Spread excavated material (silt) on site above the SuDS design profile, in accordance with EA *Waste Exemption Guidance*.	As required
	All damage to be returned to design profile unless there is a design flaw.	As required
Guttering, gullies and piped drainage system	General removal of litter and debris.	6 monthly, after autumn leaf fall (or as required)
	Cleaning of gullies, drainage channel and drainage channel sump units to remove debris and silt.	6 monthly, after autumn leaf fall (or

Guttering, gullies and piped drainage system	Cleaning of manholes to remove debris and silt.	more frequently if necessary)
	If the system allows rainfall infiltration from above, check filter surface for blockages. Remove and replace infiltration material if deemed necessary.	Annually
	Remove sediment from pre-treatment structures.	Annually or as required
	Inspection of all access chambers, inspection chambers, manholes and proprietary storage units to identify and make good any defects as necessary.	Annually
	Inspect inlets, outlets, vents and overflows to ensure they are operating as designed.	Annually
Vortex flow control	Remove Litter and Debris	Monthly
	Cleaning of flow control to remove debris and silt	Annually (or more frequently if necessary)
	Inspect inlets and outlets for blockages and clear if required	Monthly
	Repair any damages to flow control device and manhole	As required
	Repair any damage to manhole cover	As required
	Repair any damage to inlet/outlet	As required
Inlets	Inspection for debris and sediment build up.	Annually (and following poor performance)
	Inspect inlets for blockages and clear if required.	Monthly
	Inspect inlet pipework for blockages, clogging, standing water and structural damage.	Monthly
	If drain inlet has settled, cracked or moved, investigate and repair as appropriate.	As required

Table 1: SuDS Maintenance

Method statements will be provided prior to construction. These will include details on how contaminated water, erosion and sediment control will be dealt with during construction.

In addition to the maintenance advice provided in Table 1, during winter ensure that drainage structures are not blocked by ice, snow or any other debris during winter months.

Eastwood
CONSULTING ENGINEERS

APPENDICES

1 – Eastwood Consulting Engineers Live Maintenance Checklist

General Information			
Site ID			
Site Location and co-ordinates			
Elements forming the SUDs scheme		Approved drawing reference	
Inspection Frequency		Approved specification reference	
Type of Development		Specific purpose of any parts of the scheme (eg biodiversity, wildlife and visual aspects)	

Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
General Inspection Items								
Evidence of erosion, channelling, ponding (where not desirable) or other poor hydraulic performance								
Evidence of poor water quality								

Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
Silt/Sediment Accumulation								
Id there any sediment accumulation at inlets/outlets								
If yes, state the depth in mm								
Removal required? State waste disposal requirements have been compiled with environmental regulator								
Is surface clogging visible								

Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
Blockages/Litter Build up								
Is there evidence of litter build up (if yes, has this been removed)								
Is there evidence of clogging or blockages (if yes, has this been removed)								
Vegetation								
Is vegetation in the basin/swales satisfactory (density, weed growth, coverage)								
Does any area need weeding, mowing or pruning (if yes, has this been undertaken)								
Is there evidence of invasive species becoming established (state action required								

Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
Infrastructure								
Is the flow control in good condition (silt, damages, evidence of tampering) – if yes, please provide details								
Is there evidence of unauthorised inflows?								
Is the inflow/outflow structures in a suitable condition – please provide information								
Are there any other matters that could affect the performance of the system – if yes give details								

Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
Other Observations								
Information appended (photos etc)								
Suitability of current maintenance regime								
Continue as current Increase maintenance Decrease maintenance								
Next Inspection								
Proposed date for next inspection								

Further Comments	