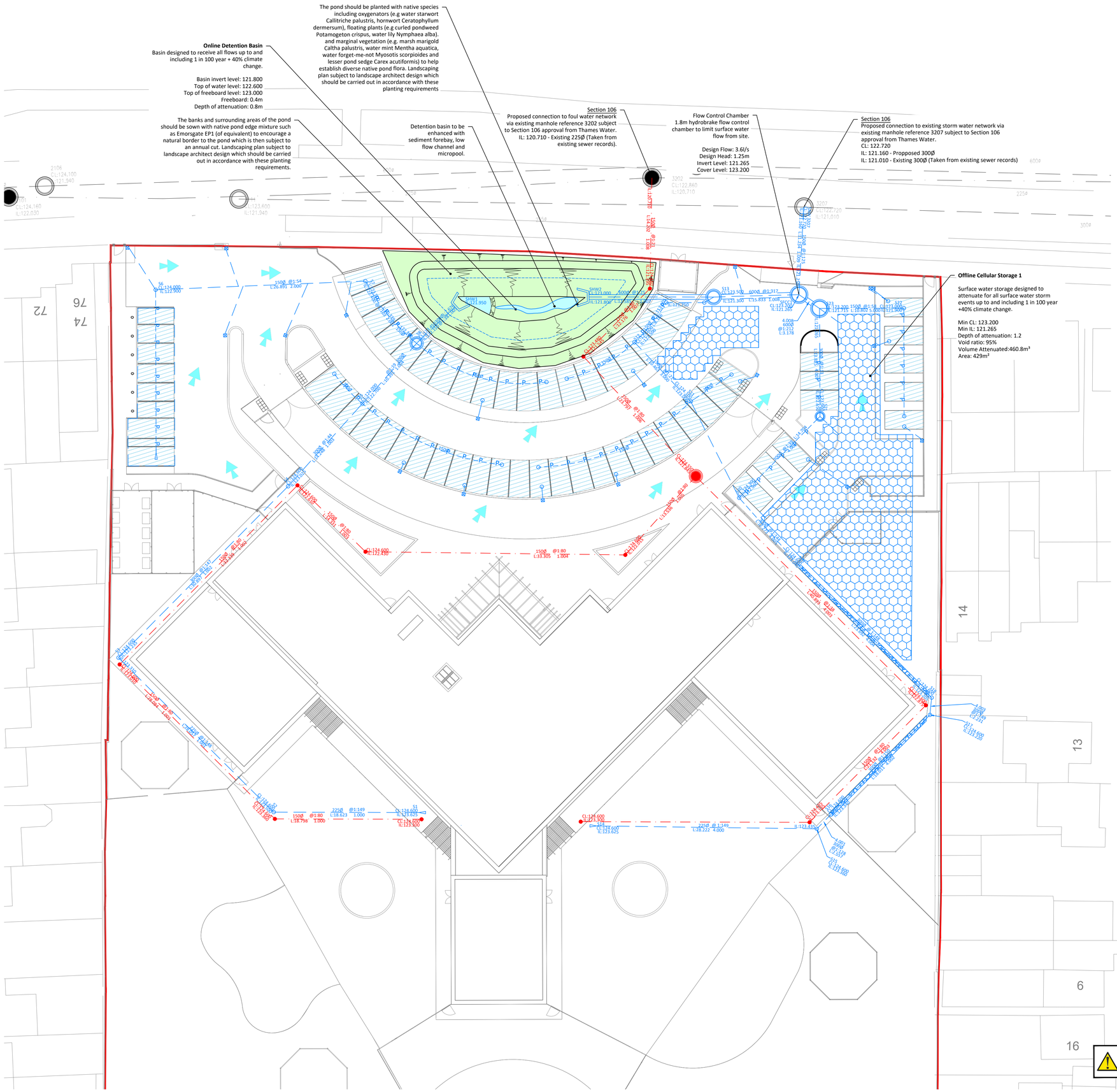

Table 1.0 - Detention basin operation & maintenance requirements

Maintenance Schedule	Required Action	Recommended Frequency
Regular maintenance	Litter and debris removal.	Monthly.
	Grass cutting - for spillways and access routes.	Monthly (during growing season) or as required
	Grass cutting - meadow grass in and around basin.	Half yearly (spring - before nesting season, and autumn)
	Manage other vegetation and remove nuisance plants.	Monthly (at start then as required).
	Tidy all dead growth before start of growing season.	Annually.
	Remove sediments from inlets, outlet and forebay.	Annually. (or as required)
	Manage wetlands plants in outlet pool - where provided.	Annually.
Occasional maintenance	Re-seed area of poor vegetation growth.	Annually. (or as required)
	Prune and trim trees and remove cuttings.	2 years, (or as required)
	Remove sediments from forebay, when 50% full and from micropools if volume is reduced by >25%	3-10 years, (or as required)
Remedial actions	Repair of erosion or other damage by re-seeding or re-turfing.	As required.
	Realignment of rip-rap.	As required.
	Repair/rehabilitation of inlets, outlets and overflows.	As required.
	Re-level uneven surfaces and reinstate design levels.	As required.
Monitoring	Inspect inlets, outlets and overflows for blockages, and clear if required.	Monthly/after large storms.
	Inspect banksides, structures and pipework, etc for evidence of physical damage.	Monthly/after large storms.
	Inspect inlets and facility surface for slit accumulation. Establish appropriate slit removal frequencies.	Half yearly
	Check penstocks and other mechanical devices.	Half yearly

Table 1.2 - Operation and maintenance requirements for permeable paving

Maintenance schedule	Required action	Record frequency
Regular maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface)	Once a year, after autumn leaf, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations.
Occasional maintenance	Stabilise and mow contributing and adjacent areas	As required
	Removal of weeds or management using glyphosate applied directly into the weeds by an applicator rather than spraying	As required - once per year on less frequently used pavements
Remedial actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50mm of the level of the paving	As required
	Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material	As required
	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10-15 years or as required
Monitoring	Initial inspection	Monthly for three months after installation
	Inspect for evidence of poor operation and/or weed growth - if required, take remedial action	Three-monthly, 48 hours after large storms in first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

Surface Water Drainage Heirarchy	
Discharge to soakaway	Infiltration testing has been undertaken as part of Soiltechnics initial ground investigation report STU5850. Test results conclude that discharge by infiltration would be unfeasible.
Discharge to watercourse/ditch	No ditches are present within close vicinity of the site so discharging to a watercourse/ditch has been deemed unfeasible.
Discharge to a sewer	The proposed strategy is to outfall the surface water drainage into the existing Thames Water manhole 3207 subject to Section 106 approval. A pre-development enquiry has been undertaken and an agreed flow rate of 3.6 l/s has been agreed.

General Notes

This drawing is to be used in conjunction with all relevant drawings, specifications and details.

All dimensions are in metres unless noted otherwise.

Do not scale from this drawing.

Drawing Key

- Site boundary
- Existing foul water drainage
- Existing surface water drainage
- } Taken from sewer records
- Proposed surface water drainage
- Indicative private trapped pot gully
- Proposed private headwall
- Proposed foul drainage
- Tanked Permeable paving
- Cellular storage crate
- Flood routing arrows
- Filter Drain
- Pond Area

Water Quality Management

Water quality management in accordance with document E26 of SUDs manual

Total SUDs mitigation index = mitigation index + 0.5 (mitigation index)

Network 1

Pollution hazard indices for different land use classifications 26.2	Pollution Hazard Level	Total Suspended Solids (TSS)	Metals	Hydro carbons
Commercial Roofs	Low	0.3	0.2 (up to 0.8 where there is potential for metals to leach from the roof)	0.05
Individual property driveways, residential car parks, low traffic roads (e.g cul de sacs, homezones and general access roads) and non-residential car parking with infrequent change (e.g schools, offices) i.e <300 traffic movements/day	Low	0.5	0.4	0.4

Indicative SUDs mitigation indices for discharges to surface waters 26.3	Mitigation Indices		
Types of SUDs Components	**Total Suspended Solids (TSS)**	**Metals**	**Hydro carbons**
Pond	0.7	0.7	0.5
Permeable Paving	0.7	0.6	0.7
Filter Drain	0.4	0.4	0.4

Total SUDs mitigation index ≥ pollution hazard index therefore SUDs mitigation is appropriate as per in accordance with document E26 of SUDs manual

Table 1.3 - Operation and maintenance requirements for pipes, gullies and manholes

Maintenance schedule	Required action	Record frequency
Regular maintenance	Inspect and identify areas that are not operating correctly. If required, take remedial action	Monthly for first 3 months and then six monthly
	Debris removal from catchment surface (where may cause risk to performance)	Monthly
	Remove sediment from pre-treatment structure (e.g. gullies)	Annually or as required
	Cleaning/jetting of annually, or as required, pipes and manholes	As required

Drawing is not to be used for construction until status is CONSTRUCTION

jpp
- Infrastructure Design
- Structural Engineering
- Development Planning
- Professional Advice
- Geotechnical & Environmental
- Surveying

Northampton
Grand Union Works, Whilton Locks, Daventry
Northamptonshire, NN11 2NH
T: 01604 781811
Poole Milton Keynes Warwick
E: mail@jppuk.net W: jppuk.net

Client	Luton Borough Council
Project	New SEN School Kestrel Way, Luton
Title	Drainage Strategy Plan

Scale at A1	1:250	Drawn by	EH	Checked by	TL	Date	June 2023
Status		Project ref		Drawing no.			Revision
FOR PLANNING		25910		102			