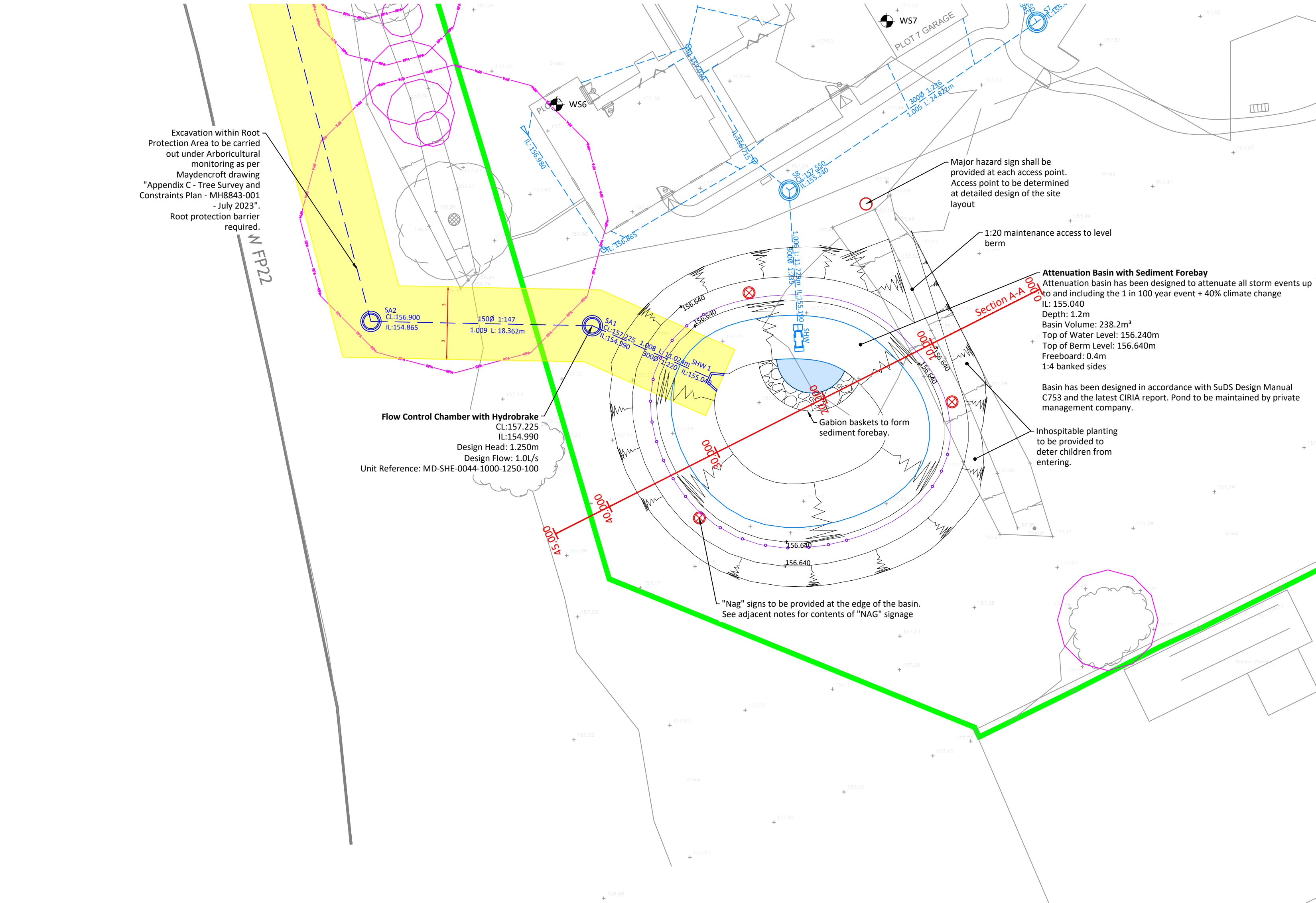
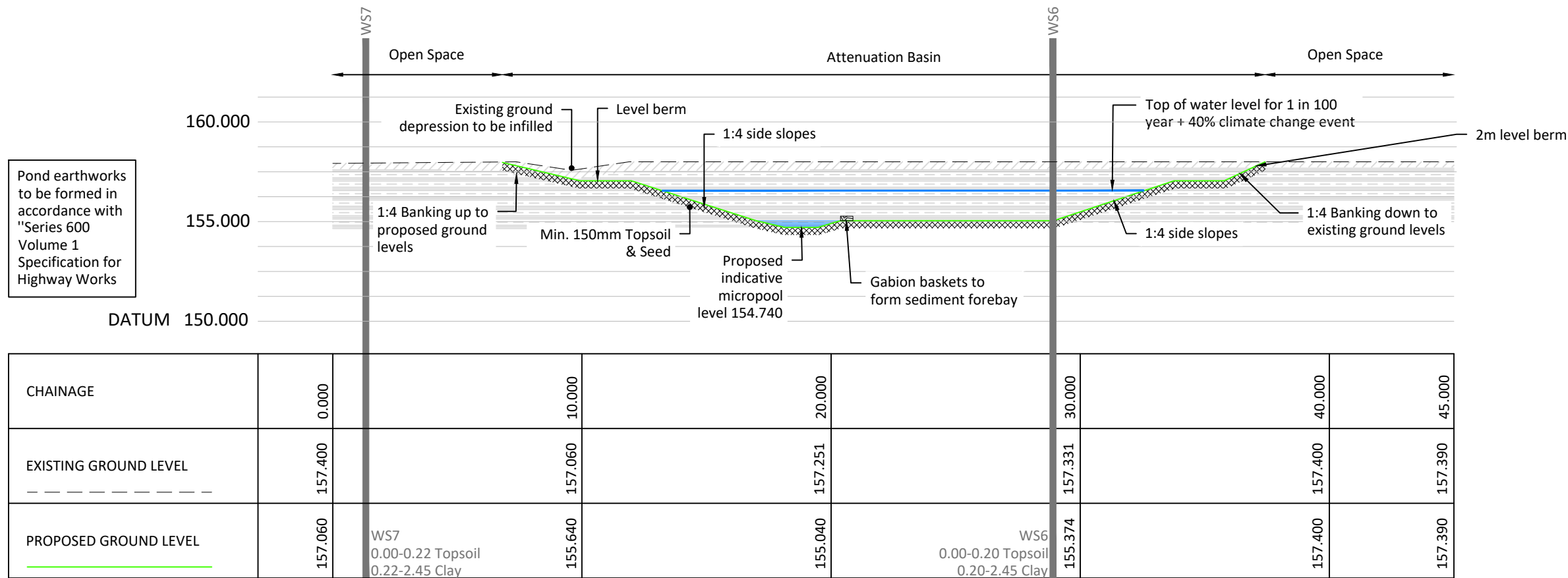




Attenuation Pond Plan View
Scale 1:250



Site Extents Viewport
Scale 1:1000



Section A-A
Scale: H 1:200, V 1:200

General Notes

- All dimensions are in metres unless otherwise stated.
- All levels are in metres.
- This drawing is to be read in conjunction with all relevant Engineers and Architect's drawings, Specifications, Reports and Engineering Details.
- Do not scale from this drawing.

Drawing Key

- Site Boundary (taken from latest site layout referenced)
- Private surface water drainage with cover level and manhole reference
- Private pre-cast concrete headwall with reference
- Adoptable pre-cast concrete headwall with reference
- Proposed Adoptable surface water drainage with cover level and manhole reference
- Trial Pit Locations
- Banking works
- Existing contour and level
- S104 drainage easement
- Top of water level in ponds
- 0.6m knee rail
- Gabion basket erosion control & sediment forebay
- Section marker
- Major signage - site boards warning pedestrians of detention basin
- "Nag" signage - to further warn pedestrians of detention basin
- Root protection areas

Pond Section Key

- Top of water level for 1 in 100 year + 40% climate change event
- Proposed Ground Level
- Proposed 150mm topsoil and seed
- Micropool
- Indicative existing TOPSOIL (For full details refer to the Nott Group Geotechnical Assessment, ref: 73792/R/001, August 2022)
- Indicative existing CLAY (For full details refer to the Nott Group Geotechnical Assessment, ref: 73792/R/001, August 2022)

Safety Notes

Safety grille has been provided on all inlet and outlet headwalls.

Signs

Major signs shall be provided at each access point to include:

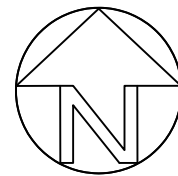
- Site name
- Emergency instruction: "Dial 999 in an emergency"
- Main hazard and prohibition symbols and supplementary text
- Details of site supervision services and contact details
- Location and postcode (needs to be understood by local emergency services)
- Site map showing - rescue equipment, first aid and supervisory help and telephones
- Organizational logos
- Inform that children are to be excluded from basin areas.

"Nag" signs shall be provided where shown to warn of

- Balancing pond
- Fast inflowing water
- Deep water

Access to Water

- A level berm has been provided at the top of freeboard level above the waters edge surrounding the whole basin - 2m or more provided.
- No slopes in the basin are greater than 1 in 4 which allows unaided movement in either direction for maintenance personnel to mow and clear vegetation.
- Consideration has been provided for disabled access and maintenance access to the basin by means of level access to the basin from adjacent shared private drives.



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)
Occasional maintenance	Manage wetlands plants in outlet pool - where provided	Annually
	Re-seed area of poor vegetation growth	Annually (or as required)
	Prune and trim trees and remove cuttings	2 years (or as required)
Remedial actions	Remove sediments from forebay when 50% full, and from micropools if volume is reduced by >25%	3-10 years (or as required)
	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
Monitoring	Re-level uneven surfaces and reinstate design levels	As required
	Inspect inlets, outlets and overflows for blockages and clear if required	Monthly/after large storms
	Inspect bankside, structures and pipework etc, for evidence of physical damage	Monthly/after large storms
	Inspect inlets and facility surfaces for silt accumulation. Establish appropriate silt removal frequencies	Half yearly
	Check penstocks and other mechanical devices	Half yearly

Water Quality Management

Water quality management in accordance with document E26 of SUDs manual

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

Pollution hazard indices for different land use classifications 26.2	Pollution Hazard Level	Total Suspended Solids (TSS)	Metals	Hydrocarbons
Residential Roofs	Very Low	0.2	0.2	0.05
Individual property driveways, residential car parks, low traffic roads (eg. cul-de-sacs, homezones and general access roads) and non-residential car parking with infrequent change (eg. school, offices), ie <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	Hydrocarbons
Pond	0.7	0.7	0.5

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

This drawing has been based/developed using the following external drawings

Type	Company	Drawing date	Drawing title	Date received	Rev
Site Layout	Sidey Design	02/09/2024	Working 14-10-24	22/10/2024	
Topographical survey	Survey Solutions	29.06.2022	42018CVLS 01-02	29.06.2022	
OS Data	Ordnance Survey	19.12.2023	OS MAP EDIT	19.12.2023	
Existing Services	JPP Surveying	07.06.2024	28455Y_01	07.06.2024	
Landscaping	James Blake Associates	23.08.2024	23/231-01	28.08.2024	G

Agreement	Approval Granted
S104	NOT APPROVED
S106	NOT APPROVED

Rev C	Updated to show Construction status	By OW	Checked JTW	21.01.2025
Rev B	Updated to suit comments from Thames Water	By PW	Checked JTW	25.11.2024
Rev A	Updated to suit latest site layout and to reflect Tender status.	By MR	Checked PW	11.11.2024

 • 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 E: mail@jppuk.net W: jppuk.net	Client	Wheatley PLC					
	Project	Proposed Residential Development Police Row Therfield					
	Title	Attenuation Details					
	Scale at A1	See Plan	Drawn by	MR	Checked by	PW	Date
Status	Project ref		Drawing no.		Revision		
CONSTRUCTION	28613		112		C		