A0

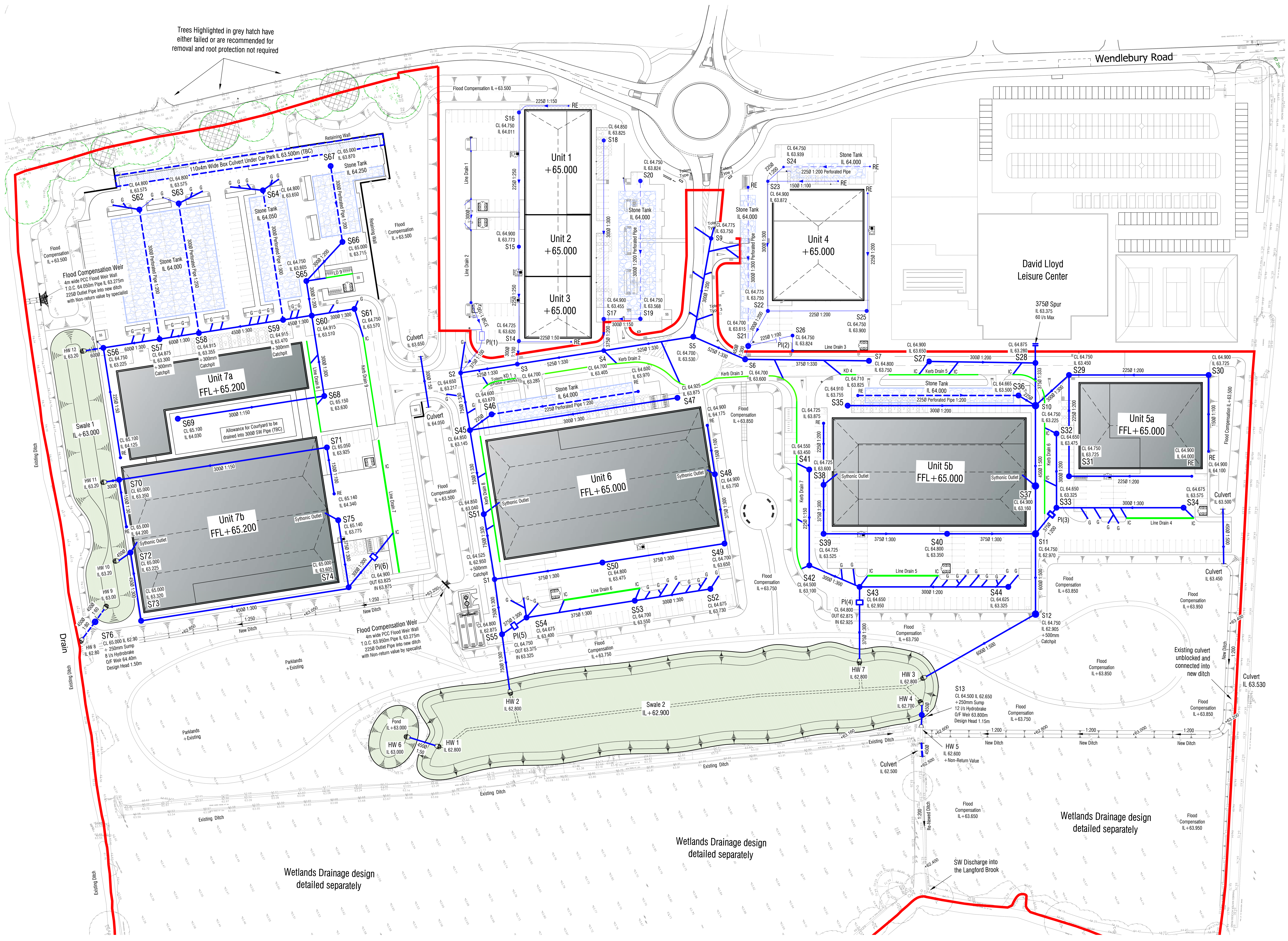
NOTE: ALL PHASE 1 WORKS (WHICH INCLUDE MANHOLES S1-S26) HAVE BEEN CONSTRUCTED AS SHOWN

NOTE: DRAINAGE IS A MIXTURE OF INVERT & SOFFIT MANHOLE DESIGN. SEE BJH MANHOLE DETAILS FOR SPECIFIC PIPE INLET/OUTLET LEVELS

NOTE: ALL PERMEABLE PAVING SUBGRADE DESIGN & COLLECTOR PIPE LOCATIONS TO BE CONFIRMED

NOTE: ALL RWP PIPE POSITIONS TO BE AGREED WITH THE ARCHITECT

NOTE: DAVID LLOYD SITE DRAINAGE DESIGNED BY OTHERS. STORAGE VOLUME TO BE PROVIDED TO SUIT MAXIMUM 60 L / SEC OUTLET



Phase 2 SW Drainage Layout 1:500

10m 0 10m 20m 30m 40m

1:500 @ A0

NOTES

DRAINAGE

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS & ENGINEERS DRAWINGS & SPECIFICATIONS.
2. DRAINS TO BE HEPWORTH SUPERSLEEVE OR NAYLOR DENSLEEVE: LAID ON CLASS N GRANULAR BEDDING TO BS 882: TABLE 4 OR TO BS 8301: 1985 APPENDIX D.
3. ALL TRENCHES WITHIN TRAFFICKED AREAS TO BE BACKFILLED WITH 75MM DOWNGRADED STONE FILL, PLACED & COMPACTED IN LAYERS OF 150MM. ALL PIPES IN ROADWAYS / PARKING, LESS THAN 900MM DEEP TO BE ENCASED IN CONCRETE. PROVIDE FLEXIBLE JOINTS AT 3000MM CENTRES.
4. MANHOLES TO BE CONSTRUCTED OF PRECAST CONCRETE RINGS TO BS 5911-PART 1. RINGS TO BE BEDDED IN SEALANT STRIPS.
5. MANHOLES BENEATH ROADS & PARKING AREAS TO BE CASED IN 150MM CONCRETE SURROUND.
6. ALL CONNECTIONS TO RAIN WATER PIPES TO BE PROVIDED WITH RODDING ACCESS.
7. ROAD GULLIES TO BE HEPWORTH ROAD GULLIES REF: 213 WITH 150MM DIAMETER OUTLET OR SIMILAR APPROVED. GULLIES TO BE ENCASED IN 150MM MINIMUM CONCRETE.
8. DRAWINGS TO BE ISSUED TO EA & LOCAL AUTHORITY WELL IN ADVANCE OF COMMENCEMENT OF DRAINAGE
9. EXISTING MANHOLES IN ROADS TO HAVE INVERT LEVELS CONFIRMED PRIOR TO DRAINAGE
10. ROADS TO BE REINSTATED TO STANDARD REQUESTED BY LOCAL AUTHORITY WHERE DRAINAGE CROSSES
11. ALL PIPE RUNS WITHIN FLOOD COMPENSATION ZONES TO HAVE A MINIMUM COVER OF 600MM. TEMPORARY PROTECTION OF PIPES TO BE PROVIDED DURING CONSTRUCTION FOR LARGE VEHICLES TRACKING OVER
12. ALL SURFACE WATER DRAINAGE TO BE CONSTRUCTED USING CONCRETE TO CLASS DS-1 (NORMAL ST2 MIX) ALL FOUL WATER DRAINAGE TO BE CONSTRUCTED USING APPROVED CONCRETE TO CLASS DS-4 (SPECIAL)

KEY:

- INDICATES GULLIES
- INDICATES SURFACE WATER MANHOLES
- INDICATES LINEAR DRAINAGE CHANNELS
- INDICATES EXISTING MANHOLES
- INDICATES NEW PIPE RUNS

ALL PIPES CONNECTED DIRECTY INTO GULLIES TO BE 150MM DIAMETER

PRELIMINARY

Rev	Date	Revision Description
B	11.03.22	Minor Revs to Drainage Design
A	04.03.22	Updated to latest Drainage/Architect plan Flood comp revised + walls added to suit Swale 1 updated to root protection area

Revision Schedule

Project Title

Catalyst Bicester
Wendlebury Road, Bicester

Client

ALBION LAND

Drawing Title

PHASE 2
SW Drainage Layout

BAILEY JOHNSON HAYES
Consulting Engineers

ST.ALBANS: Suite 4, Phoenix House, 63 Campfield Rd, ST.ALBANS, Herts AL1 5FL
MANCHESTER: Grange House, John Dalton Street, MANCHESTER, M2 6FW

Scale 1:500 @A0
Date 11.02.22
Drawn JNG

Drawing Number
S1358-PH2-01 B

APPENDIX B

Material Specification and Maintenance Checklist Log

To be Completed Post Construction

Table B.25 SuDS maintenance inspection checklist			
General information			
Site ID			
Site location and co-ordinates (GIS if appropriate)			
Elements forming the SuDS scheme		Approved drawing reference(s)	
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								
Is there any evidence of erosion, channelling, ponding (where not desirable) or other poor hydraulic performance?								
Is there any evidence of accidental spillages, oils, poor water quality, odours or nuisance insects?								
Have any health and safety risks been identified to either the public or maintenance operatives?								
Is there any deterioration in the surface of permeable or porous surfaces (eg rutting, spreading of blocks or signs of ponding water)?								

Silt/sediment accumulation								
Is there any sediment accumulation at inlets (or other defined accumulation zones such as the surface of filter drains or infiltration basins and within proprietary devices)? If yes, state depth (mm) and extent. Is removal required? If yes, state waste disposal requirements and confirm that all waste management requirements have been complied with (consult environmental regulator)								
Is surface clogging visible (potentially problematic where water has to soak into the underlying construction or ground (eg underdrained swale or infiltration basin)?								
Does permeable or porous surfacing require sweeping to remove silt?								
System blockages and litter build-up								
Is there evidence of litter accumulation in the system? If yes, is this a blockage risk?								
Is there any evidence of any other clogging or blockage of outlets or drainage paths?								
Vegetation								
Is the vegetation condition satisfactory (density, weed growth, coverage etc)? (Check against approved planting regime.)								
Does any part of the system require weeding, pruning or mowing? (Check against maintenance frequency stated in approved design.)								
Is there any evidence of invasive species becoming established? If yes, state action required								
Infrastructure								
Are any check dams or weirs in good condition?								
Is there evidence of any accidental damage to the system (eg wheel ruts?)								

Is there any evidence of cross connections or other unauthorised inflows?								
Is there any evidence of tampering with the flow controls?								
Are there any other matters that could affect the performance of the system in relation to the design objectives for hydraulic, water quality, biodiversity and visual aspects? (Specify.)								
Other observations								
Information appended (eg photos)								
Suitability of current maintenance regime								
Continue as current Increase maintenance Decrease maintenance								
Next inspection								
Proposed date for next inspection								