

DRAINAGE NOTES

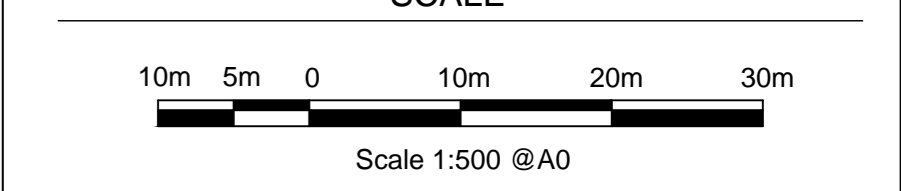
- This drawing is to be read in conjunction with all relevant Architects and Bailey Johnson Hayes drawings and specifications.
- Do not scale. Work only to figured dimensions.
- All dimensions and condition of existing drainage to have invert levels confirmed on site prior to commencement of work.
- Proposed Site and Finishes Plan from Cornish Architects- Drawing Ref: 22011 - TP - 001 - E Topographical Survey by MK Surveys Limited. Drawing Ref: 25646 (Rev 1) - Topographical Survey
- All works to Adopted Sewers to be carried out in accordance with the requirements of Sewers for Adoption in the Sewerage Sector Guidance v2.2 (2022) and the Adopting authority requirements.
- All private drainage is to be constructed in accordance with the Building Regulations as current at construction.
- Drains to be 'Hepworth Supersewer' or similar approved Laid in Class S Bedding to BS 82: 1983, Table 4, or to BS 8301 1985: Appendix D, 450mm Diameter Drains and above are to be Hepworth Concrete Pipes Class H or similar approved drains within the site may be different main accordance with Sewerage Sector Guidance v2.2 (2022).
- All trenches within trafficked areas to be backfilled with 75mm down graded stone fill, placed and compacted in 150mm layers. All pipes in Roadways / Parking, less than 900mm deep to pipe crown to be encased in concrete and flexible joints provided at 3000mm centres.
- All drains to have Class S granular bed and surround, except where:
 - Cover beneath roads or hardstanding is less than 900mm to Pipe Crown or,
 - Cover beneath landscaping is less than 600mm in which case Class Z bed/surround is required.
- All Manholes greater than 1m to soffit to be constructed in Precast Concrete Rings to BS 5911: Part 1. Rings to be bedded in sealant strips unless otherwise noted in Manhole Schedule.
- Manholes in footpaths or landscaped areas to be backfilled with 40mm down graded stone fill, compacted in layers not exceeding 150mm thick. All manholes beneath roads and parking areas to be cased in minimum 150mm concrete surround.
- All connections to rain water pipes to be provided with Rooding access.
- All road gullies to be Hepworth Road Gullies, Ref 214 RGR4 with 150mm diameter outlets or similar approved. Gullies to be encased in minimum 150mm concrete.
- Drains under buildings and within 300mm of the underside of floor slab to be encased in 150mm concrete. Casing to incorporate flexible fibre board joints at spacings as recommended by the pipe manufacturer. Drains under buildings
- Architect is to provide final rain water pipe positions for construction.
- All Pipes to enter manhole with Soffits Level unless otherwise stated. See manhole details drawings for further clarity of connections.

LEGEND

- INDICATES SURFACE WATER MANHOLES
- INDICATES SURFACE WATER PIPE RUNS
- INDICATES INDICATIVE DAVID LLOYD DRAINS
- INDICATES LINEAR DRAINAGE CHANNELS
- INDICATES ROAD GULLIES
- INDICATES SUBGRADE STONE TANK
- INDICATES ATTENUATION BASINS

ALL PIPES CONNECTED DIRECTLY INTO GULLIES TO BE 150MM DIAMETER (COLOURED MAGENTA ON PLAN)

SCALE



ADDITIONAL NOTES

NOTE: DAVID LLOYD SW DRAINAGE DESIGNED AND CONSTRUCTED BY OTHERS. RESTRICTED TO 60 L/S INTO CATALYST BICESTER SW SCHEME

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

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

CALCULATIONS

Rev	Date	Revision Description
A	15.11.22	Revised to latest masterplan layout

Revision Schedule

Project Title
**Catalyst Bicester
Wendlebury Road, Bicester**



Drawing Title
**DRAINAGE CALCULATIONS
Exceedance Flood Routes**

BAILEY JOHNSON HAYES
Consulting Engineers

Scale: 1:500 @A0
Date: 01.07.19
Drawn: JNG

Drawing Number: S1358-DD05 A



Exceedance Flood Routes 1:500