

Deep Bore Soakaways

Chamber invert levels: 105.5m AOD
Cover level: 108.5m AOD
Chamber diameter: 1.2m
Borehole diameter: 200mm
Borehole depths: 16.70m
Infiltration rates: 0.4896m/hr
Boreholes assumed to be infiltrating only through lower 14.20m, as per ground investigation/soakage testing findings

Attenuation Basin

Storage Provided up to freeboard level: 2335m³
Required design volume: 975m³
Top of Bank: 108.70m AOD
Invert level: 106.7m AOD
Depth: 1.7m + 0.3m freeboard
Side slopes: 1 in 3
Discharge via: 5no. deep bore soakaways

Drainage Legend

- Site Boundary
- Proposed Adoptable Standard Surface Water Sewer and Manhole
- Proposed Private Surface Water Drain and Inspection Chamber 1000 1in100 U.N.O
- Proposed Rodding Eye
- Proposed Gully and Connection
- Proposed Yard Gully
- Proposed Linear Drainage Channel
- Proposed Land Drain
- Proposed Adoptable Foul Water Sewer and Manhole
- Proposed Private Foul Water Drain and Inspection Chamber 1000 1in80 U.N.O
- Proposed Private Foul Shallow Inspection Chamber
- Proposed Swale
- Proposed Shallow Basin

Offline Shallow Basin 2
CL 109.100
IL 108.400
Depth 700mm
Total Vol 122m³

Free not to be related
as shown on Landscapes

NOTE: BOUNDARY SWEEP SURVEY TAKEN USING VARIOUS UNDERPASSES WITH PASSING FREQUENCIES WITH EML AND OTHER LINE THROUGH SERVICES IDENTIFIED

Pipe links 300Ø invert to invert

Buried 1m x 1m Box Gabion, to function as a permeable berm with the height set at the 1in5 year level creating a sediment forebay.
To be laid at angle of approx 30°

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Notes:

- This drawing is to be read in conjunction with all Engineering Drawings, Standard Details and specifications for this job.
- This drawing has been prepared for House Drainage purposes only, and must not be used for House Setting Out.
- All drains and connections to be 100mm diameter, unless shown otherwise.
- This drawing is schematic for clarity, and where possible drains should be laid within 2m of houses, and connections kept as short as possible.
- Where pipes pass under buildings, unless beam & block floors are used, they are to be surrounded in concrete.
- All branch drains, or connections, are to discharge to the collectors obliquely, and in the direction of the main flow.
- House levels are Finished Floor Levels (FFL's).
- Figures quoted next to manholes / rodding eyes are cover & invert level, in metres AOD.
- Footpaths are to be laid with a crossfall to allow drainage to soft landscaped areas.
- Where possible all drainage runs shall be kept a minimum of 4.0m from any existing tree that is to be retained.
- All drainage design is subject to technical approval, no connections shall be made to any public sewers without written consent from the drainage authority.
- The location of R.W.P.'s is subject to confirmation by the Architect / Services Engineer.
- R.W.P.'s connected into sub-base of permeable paving to have a minimum of 2m length within sub-base.
- *All adoptable drainage to be constructed in conjunction with the requirements of the Design and Construction Guidance June 2022 document.

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
C09	25.01.2024	Western lateral connection into F12 gradient updated to remove clash.	AM	-	-
C08	04.08.23	New manhole shown downstream to outlet headwall to create a second outflow connection to DBS.	AS	AM	AM
C07	02.06.2023	Pond layout updated following LLFA comments. Sediment forebay removed.	JC	AM	AM
C06	23.03.2023	Surface water manhole S22 & S13 and sewer tweaked slightly to provide additional clearance around gully locations	WMJ		
C05	23.02.2023	Design updated to reflect as built information and offset increase of pipe diameter from 1500 to 2250	WMJ		

RSK

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Client
TAYLOR WIMPEY NORTH THAMES

Project Title
**WYEVALE,
CODICOTE**

Status
CONSTRUCTION

Drawing Title
**PROPOSED SITE DRAINAGE
SHEET 1 OF 4**

Drawn	Date	Checked	Date	Approved	Date
EE	25.03.2022	EE	25.03.2022	SM	25.03.2022

Scale	Orig Size	Dimensions
1:250	A1	Metres

Project No.	Drawing File	Rev.
134250	134250-RSK-ZZ-XX-DR-C-3000_Proposed Site Drainage.dwg	

Drawing No.	Project	Orig.	Vol/Sys.	Lev./Loc.	Type	Role	Draw. No.	C09
134250	RSK	ZZ	XX	DR	C	3000		

Scale 1:250
0 2.5 5 7.5 10 12.5m