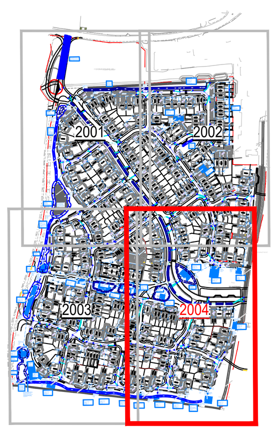
CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

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.



Key Plan

Legend

- Site Boundary
- FFL 6.100 Finished floor level
- Surface water sewer and manhole
- Surface water drain
- Proposed road gully
- Proposed Modular Storage
- Detention Basin
- Trench Soakaway
- Enhanced Swale
- Proposed Permeable Paving
- Roadside Enhanced Swale 1 - modelled as a single entity (refer to calculations)
- Roadside Enhanced Swale 2 - modelled as a single entity (refer to calculations)
- Roadside Enhanced Swale 3 - modelled as a single entity (refer to calculations)
- Roadside Enhanced Swale 4 - modelled as a single entity (refer to calculations)
- Roadside Enhanced Swale 5 - modelled as a single entity (refer to calculations)
- 3.0m buffer zone to existing watercourse

NOTES:

1. See drawing RSK PLN_1_4101 & 4103 for typical SuDS details.
2. See drawing RSK PLN_1_4100 for details of the exceedance routes.
3. This strategy is a hybrid solution, utilising infiltration where possible, with high level overflows connecting the SuDS features, with connectivity to the existing ordinary watercourse on the north western corner of the site.
4. The connection to the existing watercourse will be limited to QBAR. The whole site has been counted towards this calculation as all gardens and POS have positive drainage features within them.
5. All drainage features have been located at or above the peak ground water level, monitored during the winter period, as far as is practicable.
6. Permeable paving to be installed for all drives and private parking areas.
7. All proposed structures to be located a minimum of 3.0m from the top of bank to existing watercourse.

NOTE:
ANY DRAINAGE CONVEYANCE FEATURES THAT ENCROACH IN TO THE PEAK GROUND WATER LEVEL SHALL BE SEALED TO PREVENT GROUNDWATER INGRESS.

NOTE:
LAND DRAINAGE TO BE PROVIDED IN REAR GARDENS AS ADDITIONAL MITIGATION AGAINST SHALLOW GROUNDWATER. EXTENTS TO BE CONFIRMED AT DETAILED DESIGN STAGE.

NOTE:
RAIN WATER PIPES (RWP'S) TO BE CONNECTED INTO PERMEABLE PAVING SUB-BASE WHERE POSSIBLE.

NOTE:
ALL STORAGE FEATURES TO HAVE HIGH LEVEL OVERFLOWS OUT OF STRUCTURE INTO DOWNSTREAM FEATURE. IT MUST BE NOTED THAT PIPES & MANHOLES ARE NOT INCLUDED AS STORAGE IN THE CALCULATIONS.

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
P	06.12.2021	Drainage updated to latest planning layout and LLFA comments.	AM	SM	SM
N	22.11.2021	Drainage updated to latest planning layout and LLFA comments. Private plot drainage amended.	AM	SM	SM
M	29.10.2021	Drainage updated to latest planning layout and LLFA comments. Private plot drainage added.	AM	SM	SM
L	24.09.2021	Drainage updated to latest planning layout and LLFA comments.	AM	SM	SM
K	27.07.2021	Drainage updated to latest LLFA comments.	AM	SM	SM
J	15.06.2021	Drainage updated to latest planning layout and LLFA comments.	AM	SM	SM
I	11.05.2021	Drainage updated to latest planning layout and LLFA comments.	AM	SM	SM
H	18.03.2021	Drainage updated to latest planning layout and LLFA comments.	AM	SM	SM
G	12.02.2021	Drainage updated to calculations.	AM	SM	SM
F	26.01.2021	Pipe references removed for clarity.	AM	SM	SM
E	15.01.2021	Layout updated to reflect latest planning layout.	AM	SM	SM
D	19.11.2020	Layout updated to latest planning layout. Areas changed clouded.	MFP	SM	SM
C	23.10.2020	Revised take account of comments made by the LLFA	SM	SM	
B	14.08.2020	Updated to latest architects information.	MFP	SM	
A	13.07.2020	Issued to support reserved matters application	SM		
P01	03.07.2020	Preliminary Issue for review	SM		

RSK
LAND & DEVELOPMENT ENGINEERING LTD
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
United Kingdom
Tel: +44 (0) 1442 437500
Fax: +44 (0) 1442 437550
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client
BARRATT HOMES built around you
DAVID WILSON HOMES

Project Title
DROVE LANE, YAPTON

Status
PRELIMINARY

Drawing Title
SURFACE WATER DRAINAGE STRATEGY SHEET 4

Drawn	Date	Checked	Date	Approved	Date
SM	01.07.2020				

Scale	Orig Size	Dimensions
1:250	A0	Metres

Project No. 133647
Drawing File 133647-RSK-ZZ-XX-DR-C-3005-3008 Strategic Site Drainage.dwg

Drawing No. PLN_1_4083
Rev. P

Scale 1:250
0 2.5 5 7.5 10 12.5m