This hatched zone is highway run off that will be collected in the existing highway drainage in the main road (B2233). This replicates the existing situation.

Enhanced Swale SW2
75m x 2.5m x 1.65m dp
30% Porosity
Storage Volume -93m³
Base of Trench 5.12
Cover level 6.90
Effective depth 1.15m

Pond1
Base level 4.80
Top of bank 5.80
Depth of pond 1.0m
Approximate volume 85.7m3
Water level approx 4.80 worst case

Enhanced Swale SW3
75m x 2.5m x 1.65m dp
30% Porosity
Storage Volume -93m³
Base of Trench 5.12
Cover level 6.90
Effective depth 1.15m

Pond2
Base level 4.75
Top of bank 5.75
Depth of pond 1.0m
Approximate volume 606m3
Water level approx 4.75 worst case

Gravel blanket below Pond 2 to direct surface water to the storage volume provided in pond 2. See detail .....

Water level approx 4.90 worst case

## 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
- G — 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)

NOTES:

1. See drawing RSK etc etc for typical SuDS details.
2. See drawing RSK etc etc 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.
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.

| Rev. | Date | Amendment | Drawn | Chkd. | Appd. |
|---|---|---|---|---|---|
| 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 | | |


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Client: BARRATT HOMES built around you / DAVID WILSON HOMES

Project Title: DROVE LANE, YAPTON

Status: PRELIMINARY

Drawing Title: SURFACE WATER DRAINAGE STRATEGY SHEET 1

| 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_4080
Rev.: B

Scale 1:250
0 2.5 5 7.5 10 12.5m