

Notes

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3. This drawing should be read in conjunction with all other relevant drawings and specifications.

Site Boundary

Key:

- mmØ 1/300 9.001 SW Sewer (I/D & Gradient)
- Perforated Filter Drain
- Swale
- SW HDPE Rising Main (O/D & Gradient)
- S2 SW Manhole
- SW Pumping Station with Inlet Invert
- mmØ 1/300 Existing Surface Water pipe
- mmØ 1/100 9.001 FW Sewer (I/D & Gradient)
- F2 FW Manhole
- SW Slot Drain
- FW Slot Drain
- 9.001 MicroDrainage model pipe number
- Separator - Vortex or Class 1 Bypass (refer to RPS drainage strategy report NK018074-RPS-EFW-XX-D-0300 - Section 4.5)
- Non-return valve
- Trapped Gully
- SDP Syphonic Primary Downpipe
- SVP Soil Vent Pipe
- CL Cover Level
- IL Invert Level
- BD Back Drop

Gravel areas indicated on the Architect's layout have been taken as 100% impermeable within the drainage model, due to the lack of filtration in the underlying Wealden Clay strata. This allows simulation the gravel areas being fully saturated prior to the modelled storm events.

The surface water attenuation has currently been designed using cellular storage, although other forms of attenuation may be suitable. Soakaways have not been used in the design. Refer to paragraph 2.8 of the RPS Surface Water Drainage Strategy NK018074-RPS-EFW-XX-RP-D-DS001

The contractor is to survey all drainage connection points to satisfy himself all inverts used in the design are accurate. Any discrepancies are to be reported to the engineer immediately where further advice will be given.

All slot drains to be Gatic CastSlot (concrete service yard) or Gatic Unislot (all other locations), with access and silt boxes as required by the manufacturer - e.g. head of runs, at pipe outlets etc.

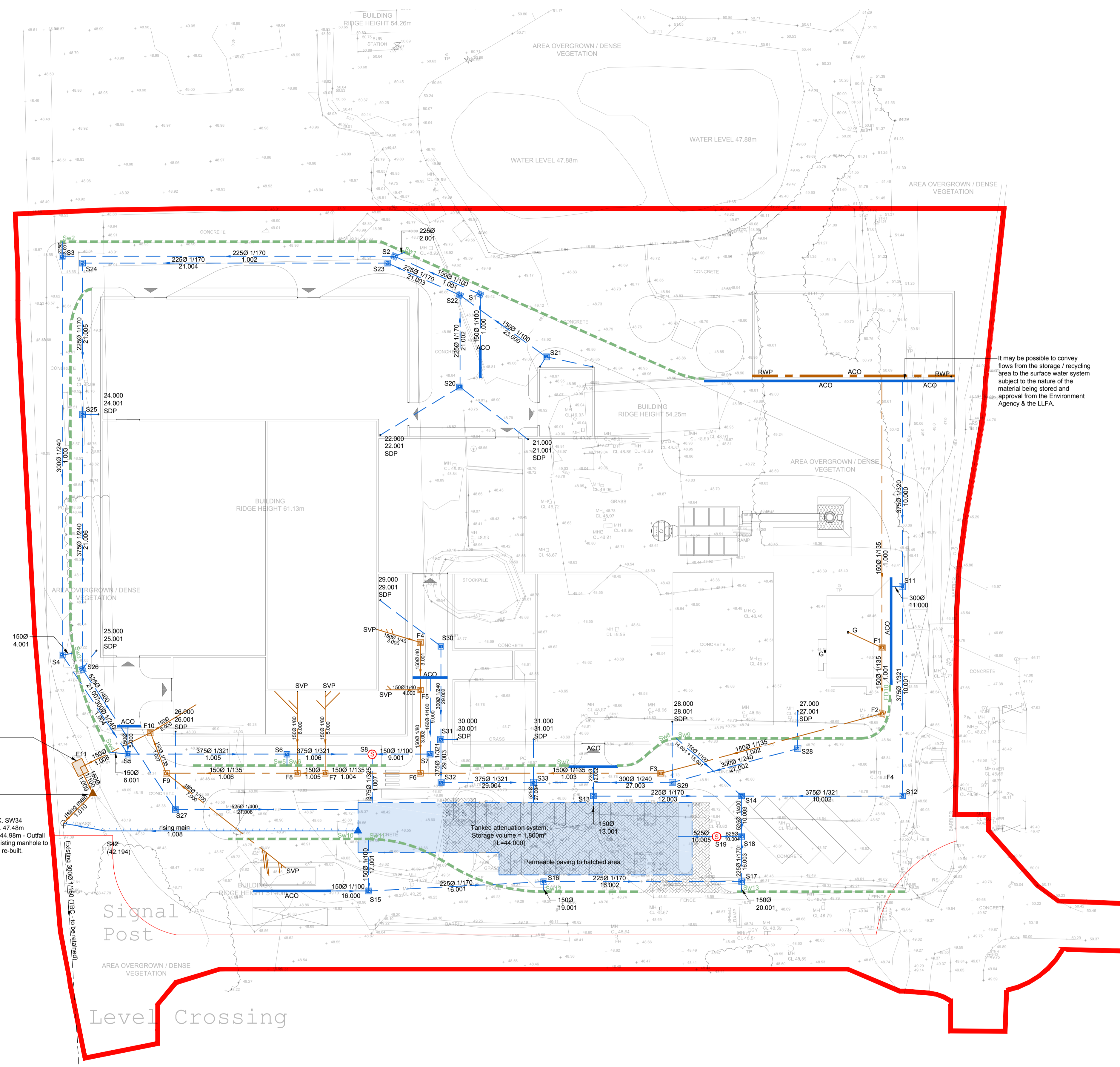
All drainage branch lines to be a 150Ø minimum unless noted otherwise.

All internal drainage to have rocker pipe installed on the line of the external envelope to accommodate any potential differential settlement.

The M+E engineer is to ensure that all internal branch lines have roddable access points with air admittance valves / ventilation stacks to atmosphere to ensure blockages do not occur. All fittings to be double sealed.

All foul and/or internal manholes to have double sealed covers. All covers located within floor slab or pedestrian areas to have recessed covers with infill to match surrounding finish.

It may be possible to convey flows from the storage / recycling area to the surface water system subject to the nature of the material being stored and approval from the Environment Agency & the LLFA.



F10 Klargester BioDisc BD (or similar equivalent) treatment plant. Unit sized based on max 1.3kg BOD & max. daily flow of 2.88m³. Unit subject to LLFA / IDB Approval.

Emergency foul storage to be provided by 2.4mØ PCC rings. Chamber has been sized to store 6 hours peak flow (4,320 l).

EX. SW34 CL 47.48m IL 44.98m - Outfall Existing manhole to be re-built.

S42 Discharge restricted to 14.9 l/s (Q30) for the 1:100 year return period with a 20% additional allowance for future climate change

Foul inlet to S9 to be fitted with non-return flap valve in the event of pump failure.

No drainage works are to be undertaken outside the planning area shown on this drawing, beyond this point

Drainage Layout
Scale 1:500

Rev	Description	By	Ckd	Date
P04	Drainage layout updated to reflect revised Site Layout.	MF	WL	13.03.18
P03	Drainage proposals amended to reflect the revised Proposed Site Layout.	LAM	WL	14.02.18
P02	Drainage outfall strategy revised to single outfall at Culvert A following comments made by the LLFA and subsequent drainage survey. Proposed discharge restricted to QBar equivalent Greenfield Runoff Rate for all storms; proposed attenuation volume increased to suit. Temporary flooded volumes indicated. Slotdrain added at Gatehouse.	LAM	WL	31.05.17



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Client
Project Sussex EFW

Title Drainage Layout

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Preliminary	1:500 @A1	16.11.2016
Project Leader	Drawn By	Checked by
DM	LAM	WL

Document Number	Revision	Subsity
NK018074 - RPS-EFW-XX-DR-D-0300	P04	S3

