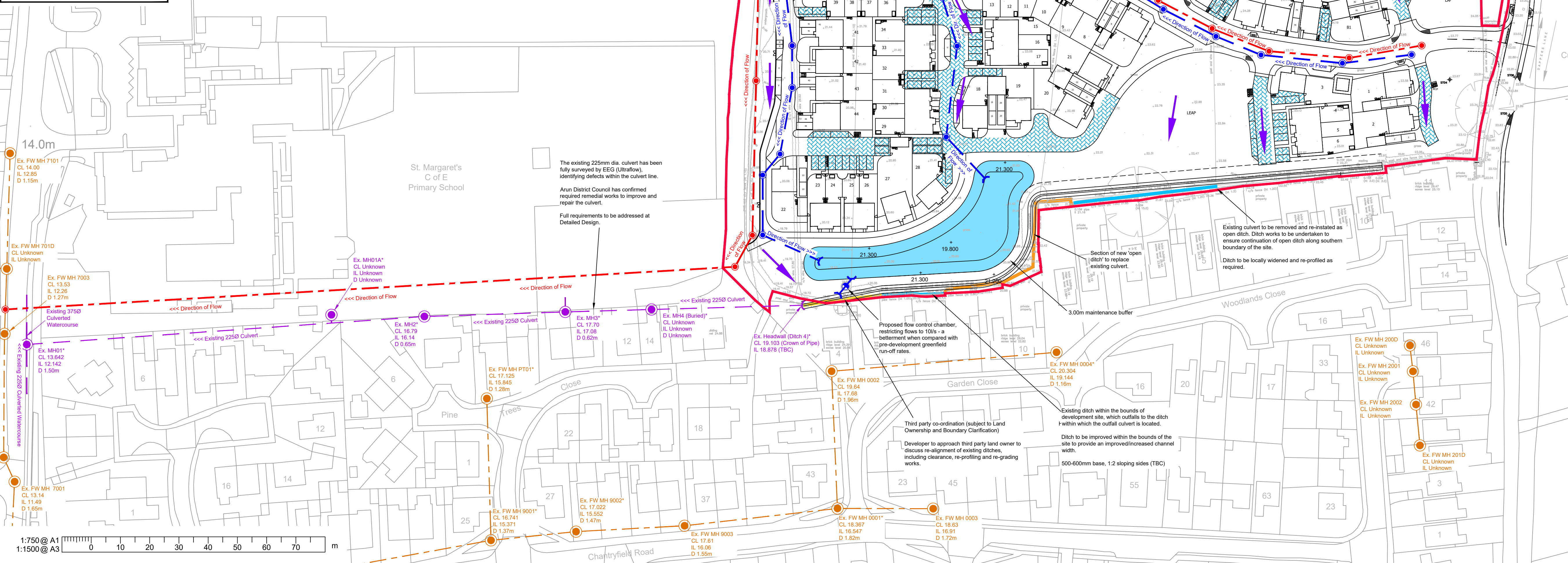


- SURFACE WATER DRAINAGE-**
- Surface water disposal should be managed in view of the SuDS hierarchy;
 - Infiltration
 - Watercourse
 - Public Surface Water Sewer(s)
 - Preliminary infiltration test results indicate that infiltration is unlikely to be viable. In addition to this, initial groundwater monitoring results (March to May 2019) indicate groundwater at shallow depths.
 - Additional groundwater monitoring is to be conducted between November 2019 and March 2020, with readings to be assessed in January and February 2020 in order to verify whether additional infiltration testing will be required (subject to confirmation of 'peak' winter groundwater levels).
 - The surface water drainage strategy will utilise a connection to the 225mm dia. culverted watercourse located to the south-west of the site. The culvert has been fully surveyed by EEG (Ultraflo), whilst Arun District Council has been provided with the subsequent results, advising of necessary improvements and repairs to the culvert, should this connection be established.
 - The proposed improvements and repairs to the existing 225mm dia. culvert are to be fully evaluated at detailed design stage.
 - It is proposed that high level attenuated storage will be provided in the form of TANKED permeable paving (if infiltration is further proven to be unviable, owing to ground conditions and groundwater levels).
 - Permeable paving covering a plan area totaling 3,500m² will provide a volume of storage to the order of 504m³ (based on a 450mm sub-base, and 30% voids).
 - In addition to permeable paving, further attenuated storage will be provided in the form of a POND, which will be located to the south of the site.
 - The proposed attenuation pond has been sized to encompass 653m³ (base) with 1:3 sloping sides.
 - Flows will discharge from the attenuation pond to the open watercourse, located to the southern boundary of the site. Improvements to this section of watercourse are proposed as part of the overall development, including co-ordination with third party landowners downstream, where the existing headwall is located for the head of the culvert run.
 - Flows will be attenuated, to ensure that there is no increase in the rate of run-off leaving the site - greenfield run-off rates have been confirmed to be 13.6l/s, whilst it is proposed post-development flows will be restricted to 10l/s.
 - An Ordinary Watercourse Consent (OWC) application will need to be submitted to Arun District Council in order for flows to discharge to the open watercourse/culverted watercourse.
 - The surface water drainage strategy has been designed to accommodate a 1-in-100-year critical storm event, inclusive of an allowance of 40% where climate change is concerned.
 - An additional allowance has been made in view of Urban Creep, further to West Sussex County Council's 'Policy for the Management of Surface Water'.

- FOUL WATER STRATEGY-**
- Foul water disposal should adhere to the following hierarchy;
 - Public Sewer
 - Private Treatment Plant
 - Septic Tank and Drainage Field
 - Cesspool
 - It is proposed that foul flows generated by the proposed development will discharge to the public foul water sewer located in Arundel Road, to the west of the site.
 - A S106 application will be required in order to establish a connection, with approval from Southern Water, required.
 - Third party agreement will be required from St. Margaret's Church of England Primary School, as the proposed route of connection will cross third-party land.
 - Alternatively, a S98 Sewer Requisition will be required - and application for which would need to be submitted to Southern Water.
 - Post-development peak foul flows have been determined to be in the region of 3.89l/s (based on Sewers for Adoption, 4000l/day).



- DRAINAGE KEY-**
- Existing Foul Water Sewer
 - Existing Foul Water Manhole
 - Existing Culverted Watercourse
 - Existing Surface Water Manhole
 - Existing Headwall
 - Proposed Surface Water Sewer
 - Proposed Surface Water Manhole
 - Proposed Flow Control Chamber
 - Proposed Headwall
 - Proposed Attenuation Pond
 - Proposed Permeable Paving (TANKED)
 - Proposed Foul Water Sewer
 - Proposed Foul Water Manhole
 - Indicative Overland Flow Routes (Exceedance)

NOTES

- This drawing is to be read in conjunction with all other RGP Design drawings, and with all relevant Architects and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
- RGP Design accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
- Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
- Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain.

PLANNING

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Rev.	Date	Amendments	Drawn	Appr.
C	03/09/2020	Minor adjustment to layout	SPB	MJA
B	31/03/2020	Minor adjustment to layout	SPB	MJA
A	18/02/2020	Minor adjustment to layout	SPB	MJA
-	21/11/2019	Original issue	SPB	MJA

Client: Persimmon Homes

Project: Land at Dappers Lane, Angmering, West Sussex BN16 4EW

Drawing Title: Proposed Drainage Strategy

Scale	Drawn By	Checked By	Approved By
1:750	SPB	MJA	MJA

Date	Drawing No.	Rev.
November 2019	D1260-PL300	C