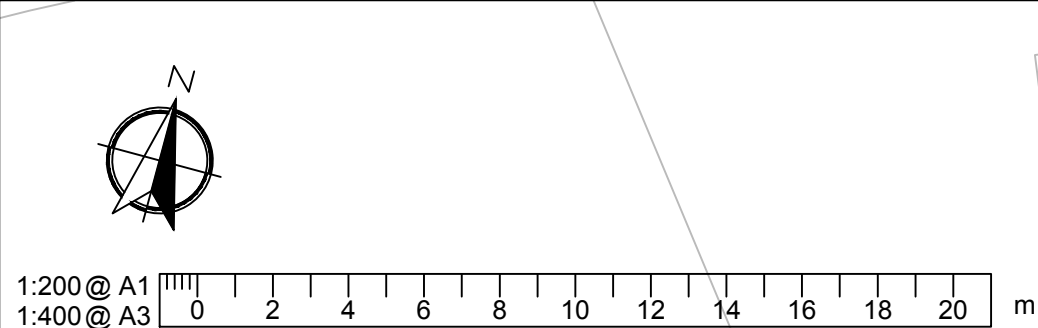
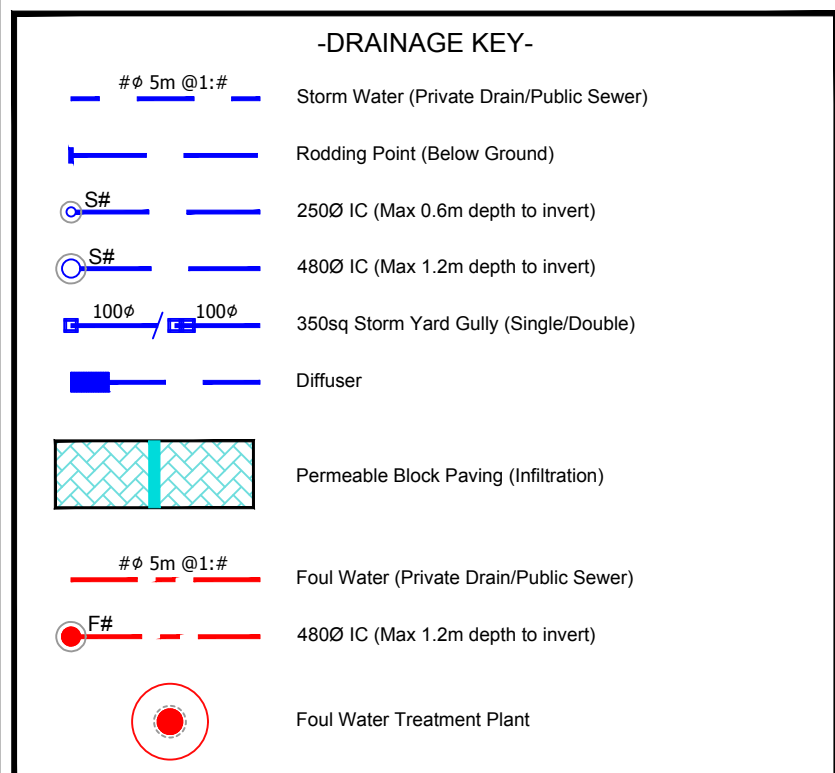


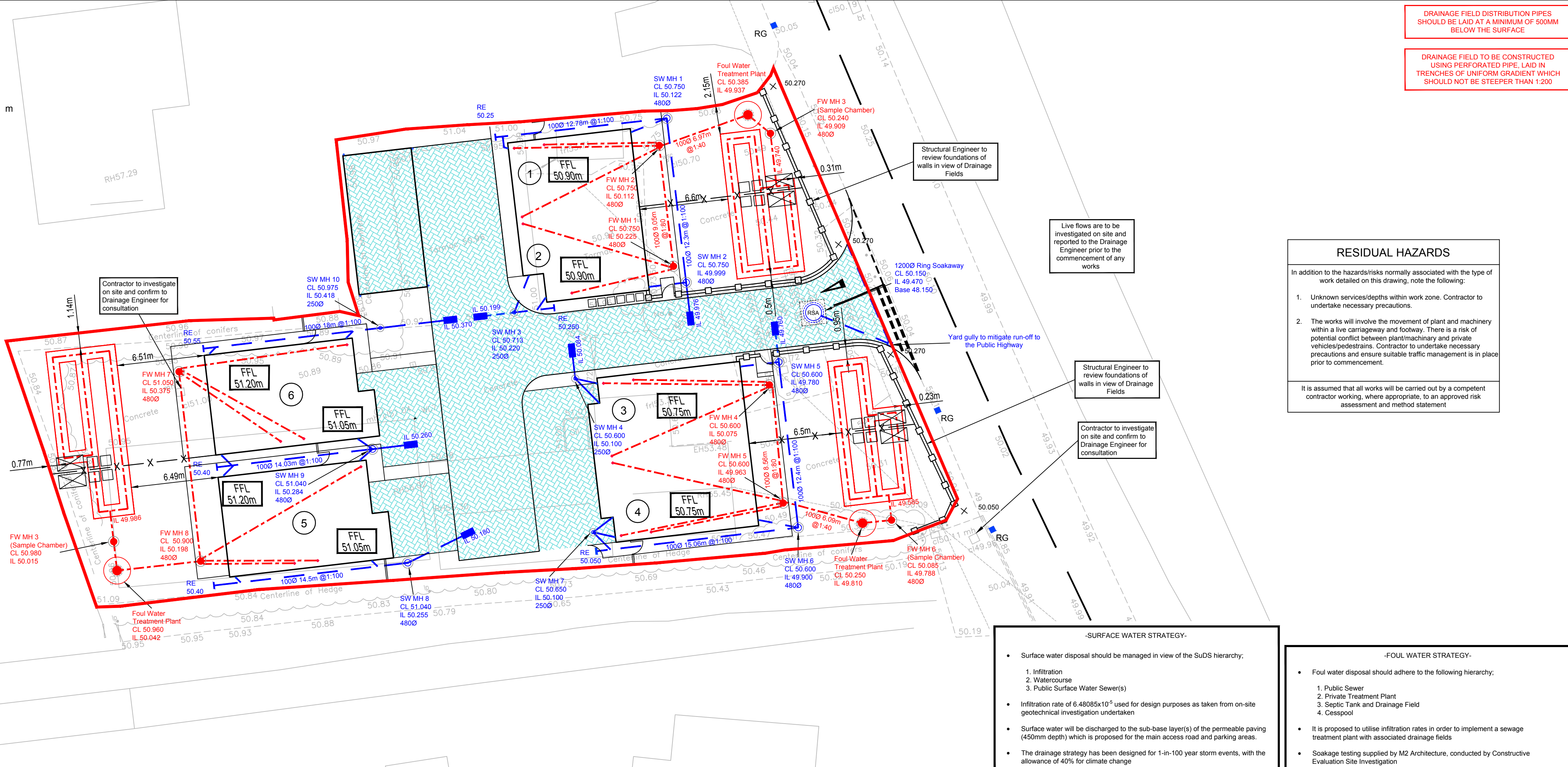


PART H BUILDING REGULATIONS

- FOUL WATER TREATMENT PLANT TO BE POSITIONED AT LEAST 10M FROM EXISTING AND PROPOSED STRUCTURES
- FOUL WATER DRAINAGE FIELD TO BE POSITIONED AT LEAST 15M FROM EXISTING AND PROPOSED STRUCTURES
- IN VIEW OF THE CONSTRAINTS OF THE SITE, THE FOUL WATER DRAINAGE FIELD WILL BE POSITIONED A MINIMUM OF 10M FROM EXISTING AND PROPOSED STRUCTURES



Refer to Architects drawings for further information on plot internal detailing, service points and threshold drainage details.



RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

1. Unknown services/depths within work zone. Contractor to undertake necessary precautions.
2. The works will involve the movement of plant and machinery within a live carriageway and footway. There is a risk of potential conflict between plant/machinery and private vehicles/pedestrians. Contractor to undertake necessary precautions and ensure suitable traffic management is in place prior to commencement.

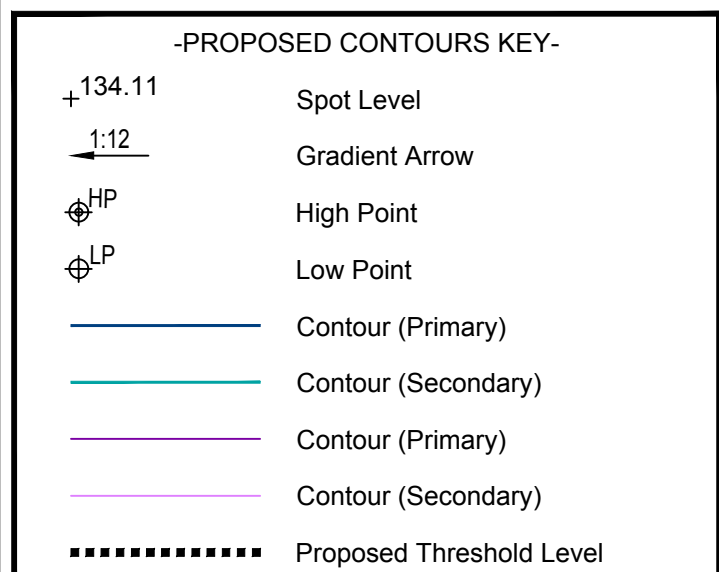
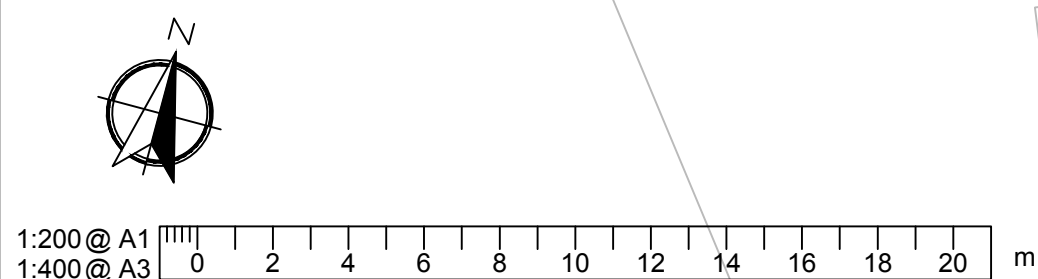
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

-SURFACE WATER STRATEGY-

- Surface water disposal should be managed in view of the SuDS hierarchy;
 1. Infiltration
 2. Watercourse
 3. Public Surface Water Sewer(s)
- Infiltration rate of 6.48085×10^{-5} used for design purposes as taken from on-geotechnical investigation undertaken
- Surface water will be discharged to the sub-base layer(s) of the permeable (450mm depth) which is proposed for the main access road and parking area
- The drainage strategy has been designed for 1-in-100 year storm events, with allowance of 40% for climate change

-FOUL WATER STRATEGY-

- Foul water disposal should adhere to the following hierarchy;
 1. Public Sewer
 2. Private Treatment Plant
 3. Septic Tank and Drainage Field
 4. Cesspool
- It is proposed to utilise infiltration rates in order to implement a sewage treatment plant with associated drainage fields
- Soakage testing supplied by M2 Architecture, conducted by Constructive Evaluation Site Investigation



Contours are only as accurate as the initial land survey information. Contours are approximate only and spot levels may vary slightly on site.

Topographical survey levels are not to Ordnance Survey (OS) datum and need to be verified prior to work commencement.



NOTES

1. This drawing is to be read in conjunction with all other RGP drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. RGP accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. 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.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
5. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
6. The electronic information from this drawing can not be guaranteed as dimensionally drawn. Figured dimensions must be used for setting out and detailing. RGP logos and company information must be removed from copies if information is re-used.
7. The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
8. The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
9. The contractor must comply with all current legislation relating to health & safety.
10. All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between the information and the details on any RGP drawings, the manufacturers instructions must be used.
11. Contractor to confirm all inlet levels where connections are proposed prior to commencing any drainage works. Contractor to commence drainage works at the point of discharge.

DRAINAGE NOTES:

12. All drainage works to be constructed in strict accordance with specification of the local authority, building regulations, sewers for adoption, BS8301 & BSEN 752-1.
13. For location and setting out of building drainage points refer to architects drawings.
14. All pipe runs near buildings to comply with the following Classifications Part H1. Where a pipe is within 7m of a foundation the trench shall be filled with class GENS concrete to the lowest level of the foundation. Where the trench is further than 7m from the foundation, the trench shall be filled with class GENS concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GENS concrete.
15. Where pipes, external to the structures, have a depth to surface from ground level of less than 450mm they shall have a class GENS concrete encasement (150mm thick).
16. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid with a concrete bed and surrounded.
17. In any circumstances where pipes are bedded and surrounded in concrete flexible joints shall be provided. Compressible bores (fibreglass or polyurethane) joints shall be provided at a maximum of 8m centres (conceding with joint lengths). The boards shall be fixed to the lamender and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
18. All private building drainage shall be constructed in strict accordance with BSEN 752-1, unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of $(1/15 = 1 \text{ in } 40) (1/8 = 1 \text{ in } 80)$ for foul drains and 1 in 80 for surface water drains.
19. All pipes, bends and junction for private building drainage shall be UPVC conforming to BS4660 and BS4541 as appropriate and shall be laid in accordance with the manufacturer's specification.
20. All gully connections other than at manholes to be 'Y' junctions. All road gully connections to be 150mm diameter.
21. All stub stacks to be fitted with air admittance valves where branch drain terminates 12cm exact at the head of the run. Soil vent pipes located at the head of a run to terminate to fresh air.
22. All connections to be soffit to soffit unless otherwise noted.
23. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
24. The locations and sizes of all sumps and weirs shall be cross referenced against the architects drawings during setting out.
25. The precise depth and location of size of existing pipes or manholes where connections to the sewerage system must be confirmed and reported to the engineer prior to commencement.

DRAFT

A -	16/04/2018 22/03/2018	Ring Soakaway added Original Issue	SPB SPB	MJ MJ
Rev.	Date	Amendments	Drawn	App



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Client	
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Knightsgate UK Ltd

Project

Land at Progress Garage,
Yapton Lane, Walberton BN18 0AS

Drawing Title

Engineering Layout - Drain Levels and Contours

Scale 1:200	Drawn By SPB	Checked By MJA	Approved By MJA
Date April 2018	Drawing No. 2017-D1337-001		Rev. A