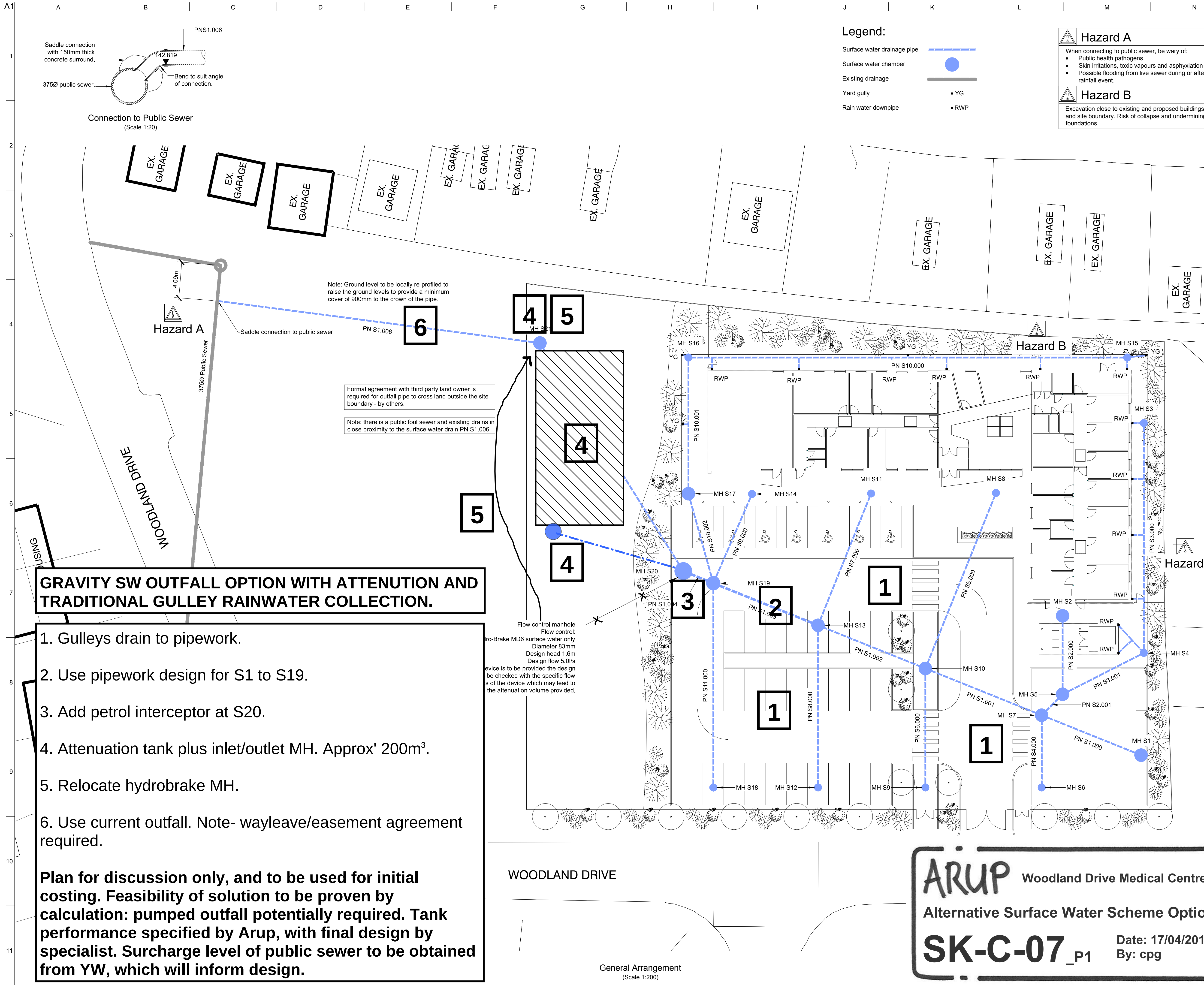




GRAVITY SW OUTFALL OPTION WITH ATTENUATION AND TRADITIONAL GULLEY RAINWATER COLLECTION.

1. Gulleys drain to pipework.
2. Use pipework design for S1 to S19.
3. Add petrol interceptor at S20.
4. Attenuation tank plus inlet/outlet MH. Approx' 200m³.
5. Relocate hydrobrake MH.
6. Use current outfall. Note- wayleave/easement agreement required.

Plan for discussion only, and to be used for initial costing. Feasibility of solution to be proven by calculation: pumped outfall potentially required. Tank performance specified by Arup, with final design by specialist. Surcharge level of public sewer to be obtained from YW, which will inform design.

Legend:

- Surface water drainage pipe
- Surface water chamber
- Existing drainage
- Yard gully
- Rain water downpipe

Hazard A

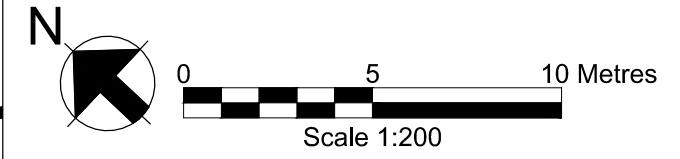
When connecting to public sewer, be wary of:

- Public health pathogens
- Skin irritations, toxic vapours and asphyxiation
- Possible flooding from live sewer during or after rainfall event.

Hazard B

Excavation close to existing and proposed buildings and site boundary. Risk of collapse and undermining foundations

- Notes:**
1. This plan is based upon Ordnance Survey Material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty Stationary Office. © Crown Copyright and may lead to prosecution or civil proceedings. All rights reserved.
 2. To be read in conjunction with all relevant project drawings and specifications. Building and landscape backgrounds used on this drawing are indicative only, refer to the appropriate architectural drawing.
 3. Do not scale from this drawing or the computer digital data. Only figured dimensions are to be used.
 4. All dimensions in millimetres (mm) and all levels in metres (m) above ordnance datum (A.O.D.) unless noted otherwise.
 5. Although every effort has been taken to check survey and site information used on this drawing, Arup is not responsible for its accuracy.
 6. All storm drains and connections shall be Ø150mm laid no less than 1 in 100 unless shown otherwise. All drainage shall be laid soffit to soffit unless shown otherwise.
 7. All pipes shall be flexibly jointed.
 8. Refer to pipeline schedule for pipe and bedding requirements on drawing C-CD-GA-003.
 9. All rest bends, gullies and rodding eyes, etc shall be surrounded with 150mm mass concrete.
 10. This design is based on RWP positions and ground levels on Sheppard Robson drawing 120615(9)-004 issued on the 13-06-2012.
 11. Refer to manhole schedule for manhole cover requirements on drawing C-CD-GA-003.
 12. All drainage shall be constructed in accordance with the Arup below ground specification.
 13. Pipe materials:
Filter drains - fully perforated structured wall polyethylene (Ridgidrain, or similar approved).
Other pipes - Unperforated wall structured wall polyethylene (Ridgidrain, or similar approved).



C1	22/06/12	RD	RI	IA
Issued for Construction.				
Issue	Date	By	Chkd	Appd

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Client

J. F. Finnegan

Proposed Surface Water Drainage Layout

Scale at A1 1:200 & 1:20	
Discipline	Civil
Job No	219938
Drawing No	C-CD-GA-001
Drawing Status	Construction
Issue	C1

ARUP Woodland Drive Medical Centre

Alternative Surface Water Scheme Option

SK-C-07_p1 Date: 17/04/2012 By: cpg