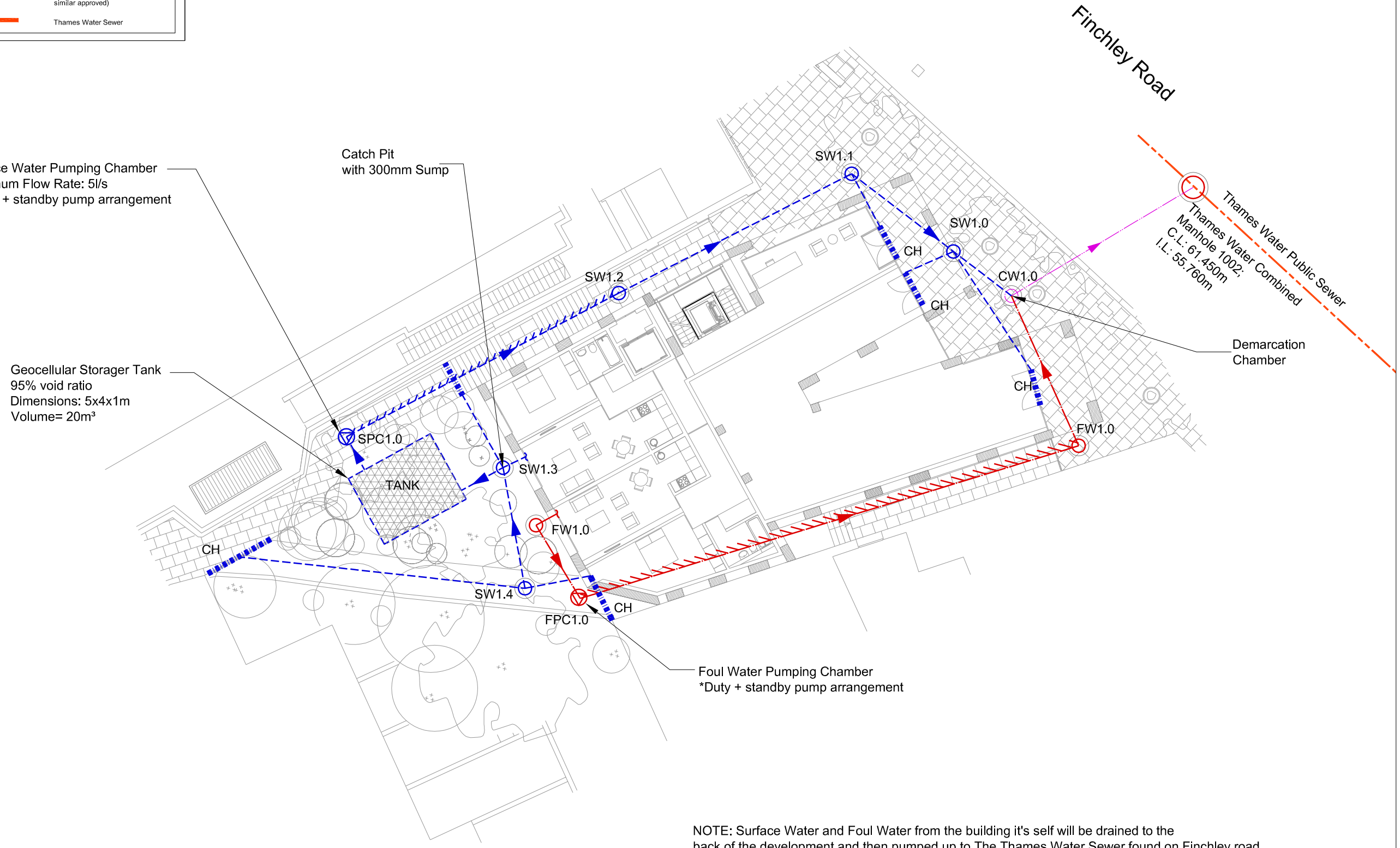
11 APPENDIX B –CIVIL DRAINAGE DRAWING

DRAINAGE KEY

- Proposed Surface Water Drain
- Proposed Foul Drain
- Existing Foul Drain
- Proposed Combined Drain
- SW / FW — Proposed Manhole Surface Water / Foul
- SPC#.# / FPC#.# — Proposed Pumping Chamber Surface Water / Foul
- ATT# — Geocellular attenuation tank
- Proposed Pressurised Foul Main
- Proposed Pressurised Surface Water Main
- CH — Proposed Drainage Channel with D400 covers (ACO multidrain or similar approved)
- Thames Water Sewer

Notes

1. Do not scale the drawing.
2. All dimensions are in millimetres unless noted otherwise.
3. Any discrepancies between structural and architectural setting out dimensions must be brought to the attention of the Architect and Engineers.



NOTE: Surface Water and Foul Water from the building it's self will be drained to the back of the development and then pumped up to The Thames Water Sewer found on Finchley road.

Rev	Date	Description	Drn	App
X1	16.03.16	For Information	MJ	GP-D

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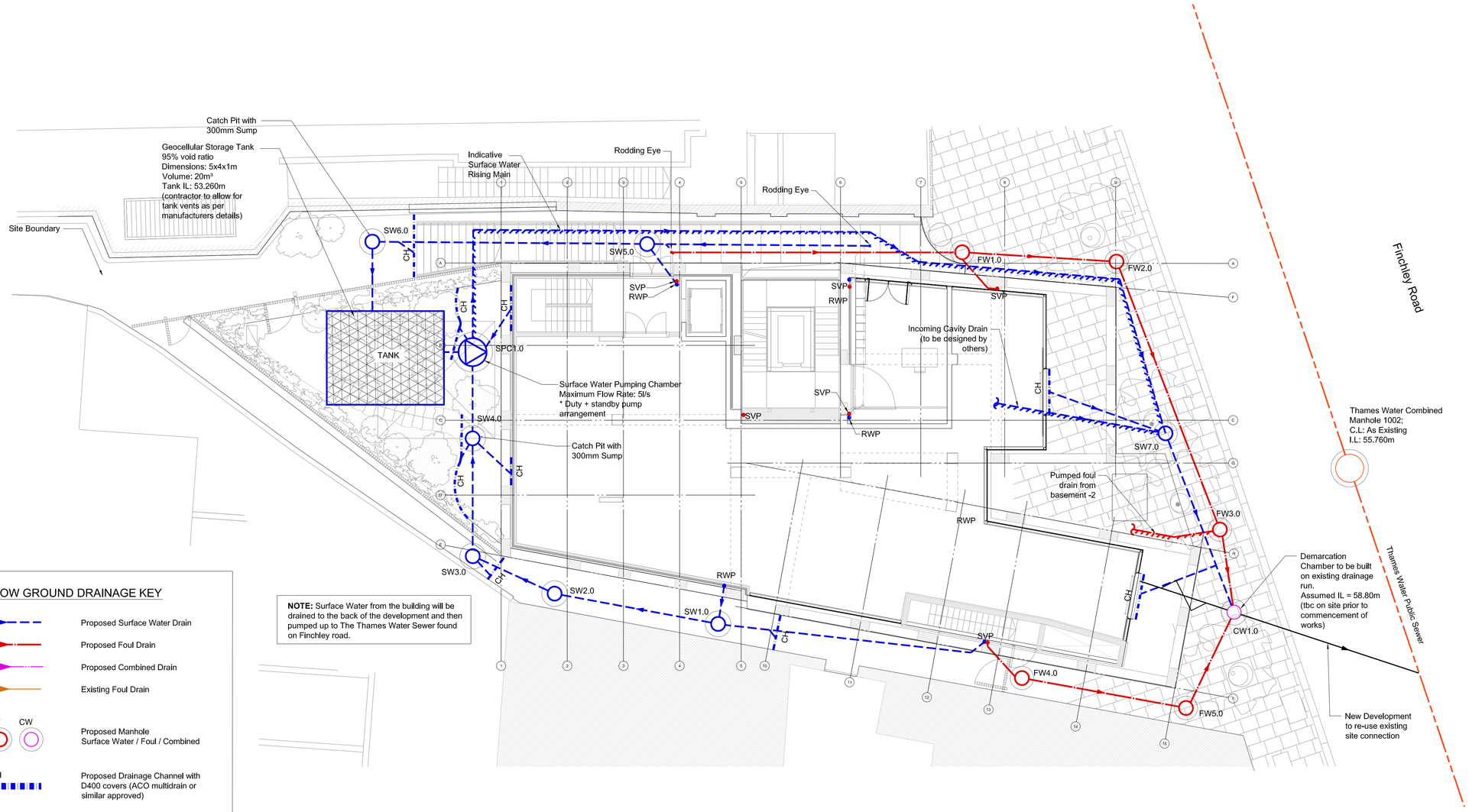
Project
317 Finchley Road

Drawing Title
Ground Level Drainage Layout

Drawing Status
For Information

Drawn by	Checked by	Sheet size	Scale
MJ	GP-D	A1	1:100

Drawing Number	Revision
J2680-C-100	X1



NOTE: Surface Water from the building will be drained to the back of the development and then pumped up to The Thames Water Sewer found on Finchley road.

BELOW GROUND DRAINAGE KEY

- Proposed Surface Water Drain
- Proposed Foul Drain
- Proposed Combined Drain
- Existing Foul Drain
- SW FW CW — Proposed Manhole Surface Water / Foul / Combined
- CH — Proposed Drainage Channel with D400 covers (ACO multidrain or similar approved)
- Geo Cellular Storage Tank
- Proposed Pumped Surface Water Drain
- Proposed Pumped Foul Water Drain
- Proposed Pumped Manhole Surface Water / Foul

IMPORTANT NOTE: CONTRACTOR TO APPLY FOR A HIGHWAYS SECTION 50 LICENCE FOR WORKS WITHIN THE PUBLIC PAVEMENT.

IMPORTANT NOTE: ARCHITECT TO CONFIRM POSITION OF RAINWATER PIPES, CHANNELS AND GULLIES

IMPORTANT NOTE: DRAINAGE SCHEME IS SUBJECT TO CONFIRMATION THAT THE EXISTING SYSTEM AT THE POSITION OF THE PROPOSED CONNECTION IS FUNCTIONAL.

IMPORTANT H&S NOTE: BURIED SERVICES - REFER TO SURVEYS & STATS DRAWINGS FOR DETAILS. ALWAYS FOLLOW GOOD PRACTICE TO AVOID STRIKING BURIED SERVICES.

FWOUL WATER MANHOLE SCHEDULE

MANHOLE REFW:	COVER LEVEL (m)	PIPE INVERT LEVEL (m)	MANHOLE DEPTH (m)	MAIN CHANNEL SIZE (mm)	MANHOLE DIA & TYPE (mm)	MINIMUM COVER SIZE (mm)	COVER TYPE	LOAD CLASS	GENERAL NOTES
FW1.0	60.800	60.000	0.800	150	Ø450 PPIC	515 x 515	Recessed	B125	
FW2.0	60.900	59.920	0.980	150	Ø450 PPIC	515 x 515	Recessed	B125	
FW3.0	60.500	59.770	0.730	150	Ø450 PPIC	515 x 515	Recessed	B125	
FW4.0	59.700	59.000	0.700	150	Ø450 PPIC	515 x 515	Recessed	B125	
FW5.0	60.370	58.910	1.460	150	Ø450 PPIC	515 x 515	Recessed	B125	
FW6.0	53.260	52.260	1.000	150	Ø450 PPIC	515 x 515	Recessed	B125	Refer to WYE drawing J2680-C-GA-1098
FW7.0	53.260	52.220	1.040	150	Ø450 PPIC	515 x 515	Recessed	B125	Refer to WYE drawing J2680-C-GA-1098
CW1.0	60.400	58.850	1.550	150	Ø450 PPIC	515 x 515	Recessed	B125	Existing Invert Level to be confirmed

SURFACE WATER MANHOLE SCHEDULE

MANHOLE REF:	COVER LEVEL (m)	PIPE INVERT LEVEL (m)	MANHOLE DEPTH (m)	MAIN CHANNEL SIZE (mm)	MANHOLE DIA & TYPE (mm)	MINIMUM COVER SIZE (mm)	COVER TYPE	LOAD CLASS	GENERAL NOTES
SW1.0	58.600	57.600	1.000	150	Ø450 PPIC	515 x 515	Recessed	B125	
SW2.0	58.300	57.300	1.000	150	Ø450 PPIC	515 x 515	Recessed	B125	
SW3.0	58.150	57.150	1.000	150	Ø450 PPIC	515 x 515	Recessed	B125	
SW4.0	54.660	53.460	1.500*	150	Ø450 PPIC	515 x 515	Recessed	B125	* catchpit manhole with 300mm sump below pipe invert
SW5.0	57.960	56.000	1.960	150	Ø450 PPIC	515 x 515	Recessed	B125	
SW6.0	56.650	55.650	1.300*	150	Ø450 PPIC	515 x 515	Recessed	B125	* catchpit manhole with 300mm sump below pipe invert
SW7.0	60.640	59.640	1.000	150	Ø450 PPIC	515 x 515	Recessed	B125	

Notes

1. Do not scale the drawing
2. All dimensions are in millimetres unless noted otherwise
3. Any discrepancies between structural and architectural setting out dimensions must be brought to the attention of the Architect and Engineers

General Notes to Drainage

1. This drawing is to be read in conjunction with the drainage details and other relevant Architects and Engineers drawings and specifications.
2. Comply with technical standards and British standards as detailed in the specification.
3. All pipework is to be installed to the recommended falls with suitable provision for venting and cleaning as required by the British standards.
4. Refer to Webb Yates drawing J2680-C-100 for details of below ground drainage.
5. Allow for rodding access points in all locations to conform to specification. Notify contractor and architect of places where access in required to these rodding points in addition to those shown on plans.
6. Provide 25mm foil face mineral wool insulation to all RWPs & SVPs.
7. Provide rodding points to RWPs and SVPs before the below ground connection.
8. Appliances connecting to the drainage system shall be installed with a trap to prevent escape of foul air into the building.
9. Appliances, pipes and fittings shall comply with relevant European standards where applicable.
10. Any part of the existing drainage system retained as part of the new scheme shall be cleaned and inspected. Any defects shall be reported to the Engineer.
11. Existing drainage connectivity & condition to be confirmed by Contractor. Before starting work, check invert levels & positions of existing drains, sewers, inspection chambers & manholes against drawings. Report discrepancies.
12. Ventilating pipes open to outside air should finish at least 900mm above any opening into the the building within 3m and should be finished with a wire cage or other perforated cover, fixed to the end of the ventilating pipe, which does not restrict the flow of air.
13. Private foul water and surface water drainage is to be constructed in accordance with the building regulations part H (2002), BS EN 12056-2:2002 (inside buildings), BS EN 752:2008 (outside buildings) and all relevant agreement certificates.
14. All rodding eyes and access points shall be of 'double-seal' type.
15. HEALTH AND SAFETY: The works shall be carried out by specialist competent and experienced contractors who are members of a recognised national organisation. Operatives shall have received full and appropriate training for the operations they are to undertake. All work shall be carried out in accordance with all pertinent Health and Safety Regulations.
16. HEALTH AND SAFETY: Care should be taken to locate services prior to any excavation.

Rev	Date	Description	Drn	App
01	24.04.18	General layout amended Issued for Technical Design	DN	GP-D
00	09.02.18	Issued for Information	DN	GP-D

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Drawing Title
External Drainage Layout
Ground Level GA

Drawing Status
Technical Design

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DN	GP-D	A1	1:100	S4

Drawing Number
J2680-C-GA-0100

Revision
01