

LEGEND

- EXISTING ADOPTED SOUTHERN WATER FOU. SEWER
- TYPE 1 1200R RIGID MANHOLE WITH INVERT LEVEL ON ADOPTABLE FOU. SEWER
- TYPE 1A 1200R RIGID MANHOLE WITH INVERT LEVEL ON PRIVATE FOU. SEWER
- TYPE 2 1500R RIGID MANHOLE WITH INVERT LEVEL ON PRIVATE FOU. SEWER
- TYPE 3 600x4500 FLEXIBLE IC WITH INVERT LEVEL ON PRIVATE FOU. SEWER
- TYPE 4 450315R FLEXIBLE IC WITH INVERT LEVEL ON PRIVATE FOU. SEWER
- TYPE 5 1200R RIGID MANHOLE WITH INVERT LEVEL ON PRIVATE STORM DRAIN
- TYPE 6 600x4500 FLEXIBLE IC WITH INVERT LEVEL ON PRIVATE STORM DRAIN
- TYPE 7 450315R FLEXIBLE IC WITH INVERT LEVEL ON PRIVATE STORM DRAIN
- CATCHPOINT MANHOLE WITH INVERT LEVEL ON PRIVATE STORM DRAIN
- CATCHPOINT CHAMBER WITH INVERT LEVEL ON PRIVATE STORM DRAIN
- RODDING EYE WITH INVERT LEVEL ON PRIVATE STORM DRAIN
- ROAD GULLY WITH LATERAL STORM DRAIN
- YARD GULLY
- LINEAR CHANNEL DRAIN
- RAINWATER DIFFUSER UNIT
- WAVY AQUACELL MODULAR ATTENUATION TANK
- PERFORATED PIPE WITHIN PERMISSIBLE PAVING
- PROPOSED PERMEABLE PAVING

Tank 3. Aquacell Modular Attenuation Tank. 7 x 29 x 1.0m (d) 1624 N° Blocks. Storage volume: 308.56m³. Soffit level: 6.24

Manhole with HydroBrake limiting discharge flow to 10.4%

Outfall headwall

Ground level +300mm to allow for no dig construction to the rear of pumping station

Piped section of french drain

French drain

Scale: 1:100

Scale: 1:1000

Scale: 1:10000

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX

1:1 0 10 20 30 40 50 60 70 80 90 100 mm

BACKGROUND IS BASED ON THE ARCHITECT'S GA DRAWING

ANY DISCREPANCIES OR UNCERTAINTY WITH THE CONTENT OF THIS DRAWING ARE TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.

Revision	Amendment	Approved	Revision Date
P1	FIRST ISSUE	APT	06.03.2018
P2	PRIVATE FW DRAINAGE UPDATED	APT	29.03.2018
P3	SW & FW DRAINAGE UPDATED	APT	25.04.2018



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Project: BURDELL ROAD YAPTON

Sheet: DRAINAGE LAYOUT

Project No: FA-E-F2300.00

PRELIMINARY

- STANDARD NOTES
- This drawing is to be read in conjunction with all other OPUS drawings, and with relevant Architect and Engineer's drawings and specifications.
 - No dimensions are to be scaled from the drawing. Unless stated otherwise all dimensions are in millimetres and all levels are in metres from the sea datum. 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.
 - The electronic information from this drawing cannot be guaranteed as dimensionally drawn exact. Signed dimensions must be used for setting out and checking. CPD signs and company information must be removed from copies if information is re-used.
 - 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.
 - The main Contractor is responsible for the mitigation of all occurrences of ground water during the construction period.
 - Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not guaranteed. The main Contractor is responsible for checking all information on site prior to work commencing and taking due care and attention while undertaking the works.
 - The contractor must comply with all current legislation relating to Health & Safety.
- DRAINAGE NOTES
- All works to be constructed in strict accordance with specification of the Local Authority, BS8301:1985 & BS8301:2011.
 - All pipe runs near buildings to comply with the Building Regulations 2000 Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 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 GEN3 concrete.
 - Where pipes, external to the structure, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete enclosure (150mm thick).
 - Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid in a class 2 bedding.
 - Where pipes are bedded and surrounded in concrete, flexible joints should be provided. Compressible boards (fibreglass or polypropylene) shall be provided at a maximum of 8m centres (excluding joint pipes). The boards shall be 150mm thick and shall have a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 18mm for pipes over 450mm nominal diameter.
 - All private building drainage shall be constructed in strict accordance with BS8301:2011.
 - Unless otherwise specified, building drainage to be 100mm internal diameter.
 - Minimum gradient for Ø100mm surface drainage pipes is 1:80, and Ø150mm is 1:100.
 - Minimum gradient for foul drainage pipes:
Ø100mm: 1:40 where flow is less than 15L/s, or where no WCs are connected.
Ø100mm: 1:75 where flow is 15L/s or greater, or where 2 or more WCs are connected.
Ø150mm: 1:150 where flow is less than 35L/s, or where 2 or more WCs are connected.
Ø150mm: 1:100 where flow is 35L/s or greater, or where 3 or more WCs are connected.
 - All gullies not connected to inspection chambers are to be roddable.
 - All gully connections other than those at manholes to be made via 'Y' junctions.
 - Gullies connected with pedestrian/cycle crossings to have pedestrian type gully covers.
 - All road gully connections to be 150mm diameter.
 - All sub-stacks to be fitted with an airbrake valve where branch drain exceeds 12m, except at the head of the run. Sub-stacks located at the head of a run to be installed with roof level vent.
 - All connections to be made from soffit to soffit.
 - Trench temporary formwork is required to all excavations exceeding 1.2m depth to provide adequate support and stability of all times.
 - Sewers are to be constructed in single sections between manholes only. Trenches to be bedded prior to excavating the succeeding power run.
 - All concrete and concrete products to be in accordance with BS8301 for subject.
 - Where sewer or drains are to be abandoned they shall be removed or infilled by grouting in accordance with the Civil Engineer Specification for the Water Industry 7th Edition, clause 523.