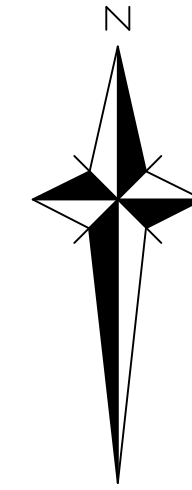


1. SOAKAWAY DESIGN BASED ON 1 IN 100 YR STORM + 30% AND SOIL INFILTRATION RATE OF  $1.3 \times 10^{-5} \text{m/s}$  AS SOAKAGE TESTING CARRIED OUT BY CONSTRUCTIVE EVALUATION
2. DRAIN POINTS AND LOCATIONS TO BE CONFIRMED BY ARCHITECT.
3. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.
4. EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.

1. ALL DRAINAGE SHALL BE CONSTRUCTED AND COMMISSIONED IN ACCORDANCE WITH BS EN 295 & BS EN752, BUILDING REGULATIONS DOC. H AND ANY PARTICULAR REQUIREMENTS OF THE BUILDING CONTROL OFFICER.
2. DRAIN BEDDING IS TO BE PROVIDED AS D200.0, D200.1 AND D200.2 AS SHOWN ON THE DRAINAGE DETAILS SHEETS.
3. 'EFFECTIVE COVER' IS THE MINIMUM DEPTH OF COVER OVER THE PIPE CROWN AT ANY TIME DURING THE CONSTRUCTION PROCESS.
4. ALL CONCRETE PIPEWORK, MANHOLES AND FITTINGS SHALL BE TO BS 5911 (ALL RELEVANT PARTS). ALL CONCRETE PIPEWORK TO BE TO HIGH STRENGTH
5. WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES/SEWERS, INVERT LEVELS, PIPE SIZES & ORIENTATION SHALL BE CHECKED PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.
6. WHERE PIPES CROSS, EACH IS TO BE SURROUNDED WITH GRADE STA MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. LENGTH OF SURROUND TO BE EXTENDED AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINT.
7. THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT DRAINAGE PIPEWORKS AND FITTINGS ARE NOT DAMAGED BY SITE TRAFFIC PRIOR TO OVERSITE FILLING OPERATIONS BEING COMPLETED AROUND BUILDINGS.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>8. ALL PRIVATE DRAINAGE PIPEWORK SHALL BE PVC-U, ALL ADOPTED DRAINAGE TO BE BV. ALL UNDERDRAINING DRAINS TO BE LAID AT A GRADE OF 1:40</p> <p>9. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, FLEXIBLE PIPE JOINTS ARE TO PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE AND WITHIN A FURTHER 600mm TO FORM A ROCKER PIPE.</p> <p>10. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, LINTELS ARE TO BE PROVIDED.</p> <p>11. WHERE PIPELINES PASS WITHIN 1m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH</p> <p>12. 450mm DIA. INSPECTION CHAMBERS (F/C/SIC) MAY BE USED:</p> <ul style="list-style-type: none"> <li>- WITH 350mm reduced OPENING WHERE THE DEPTH FROM COVER TO INVERT EXCEEDS 1000mm.</li> </ul> <p>300mm DIA. POLYPROPYLENE ACCESS CHAMBERS (FAC/SAC) MAY BE USED</p> <p>- WHERE THE DEPTH FROM COVER TO INVERT DOES NOT EXCEED 600mm AND WHERE THE PIPE SIZE DOES NOT EXCEED 100mm DIA.</p> | <p>13. STEEL COVERS WITH PROPERTY BOUNDARIES SHALL BE: (UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)</p> <p>-ON PRIVATE DRIVEWAYS: FACTA GRADE B (BS EN 150 1461: 1999)</p> <p>-ON PRIVATE PATHWAYS, VERGES OR ON GASDENS: FACTA GRADE A (BS EN ISO 1461: 1999)</p> <p>DUCTILE IRON COVERS OUTSIDE PROPERTY BOUNDARIES SHALL BE: (UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)</p> <p>-ON ACCESS ROADS AND CAR PARKS: GRADE D400 (BS EN 124:1994)</p> <p>-ON SHARED PATHWAYS, VERGES: GRADE A15 (BS EN 124:1994)</p> <p>14. COVER LEVELS SHOWN 'CL' AND INVERT LEVELS SHOWN 'LI' ARE IN METRES ABOVE ORDNANCE DATUM.</p> <p>15. ALL DRAINS TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE</p> <p>16. ALL DRAINS MARKED 'FWS' OR 'SWS' ARE PROPOSED ADOPTED SEWERS AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH 'SEWERS FOR ADOPTION, 7TH EDITION'</p> |
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[illegible]

1. All dimensions to be checked on site. All details and dimensions relating to sub-contractors or suppliers must be checked and agreed between the sub-contractor or supplier and the main contractor.
2. This drawing is to be read in conjunction with all relevant architect's, services and engineers drawings and specifications.
3. The location, size, depth and identification of existing services that may be encountered to in this drawing have been assessed from non intrusive observations , record drawings or the like. The contractor shall not safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. Any discrepancies shall be notified to gsp prior to works commencing.
4. Tender or billing drawings shall not be used for construction or the ordering of materials.
5. Do not scale. All dimensions and levels to be site confirmed.
6. Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gsp.

The diagram illustrates various types of drains and their components:

- Private surface water drain**: Represented by a blue dashed line.
- Private foul drain**: Represented by an orange solid line.
- FIC Foul Plastic Inspection Chamber - D202.6**: Shown as a black circle.
- SIC Surface Water Plastic Inspection Chamber - D202.6**: Shown as a blue circle.
- SAC 300mm diameter Surface Water Access Chamber - D202.18**: Shown as a blue circle.
- FAC 300mm diameter Foul Water Access Chamber - D202.18**: Shown as a black circle.
- FWMH Private Foul Manhole**: Shown as a black circle with the label "FWMH" above it.
- SWMH Private Surface Water Manhole**: Shown as a white circle with a blue outline and the label "SWMH" above it.
- SWP Foul drain point D202.0**: Shown as an orange arrow pointing down from an orange line.
- RWP SW Drain point for RWP D203.5**: Shown as a blue arrow pointing down from a blue line.
- Drainage channel**: Represented by a blue dashed line.
- SOIL VENT PIPE**: Represented by a symbol consisting of a circle with a cross inside.
- RAINWATER PIPE**: Represented by a symbol consisting of a circle with a cross inside.

|                                                          |                                                                           |
|----------------------------------------------------------|---------------------------------------------------------------------------|
| PREFIXES TO DRAWING NUMBERS SHALL SIGNIFY THE FOLLOWING: |                                                                           |
| P = PRELIMINARY                                          | SHALL NOT BE USED FOR CONTRACT OR CONSTRUCTION PURPOSES.                  |
| T = TENDER                                               | SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.                              |
| C = CONSTRUCTION                                         | THESE ARE THE ONLY DRAWINGS THAT SHALL BE USED FOR CONSTRUCTION PURPOSES. |
| R = RECORD                                               | RECORD OF ACTUAL COMPLETED WORK.                                          |

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|-----|----------|---------------|----|-----|-----|
| -   | 24.10.16 | INITIAL ISSUE | JW | MR  | MR  |
| REV | DATE     | DESCRIPTION   | BY | CHK | APP |

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ARUN GARAGES  
WICK ESTATE, LITTLEHAMPTON  
(Land North of 7-12 Joyce Close)

|               |                            |
|---------------|----------------------------|
| DRAWING TITLE | DRAINAGE LAYOUT<br>SHEET 4 |
|---------------|----------------------------|

|                              |                               |                                |                      |
|------------------------------|-------------------------------|--------------------------------|----------------------|
| DRAWN<br><div>JW</div>       | ENGINEER<br><div>MR</div>     | CHECKED                        | APP                  |
| DATE<br><div>OCT 2016</div>  | SCALE  A1<br><div>1:100</div> |                                |                      |
| JOB No.<br><div>F16943</div> | STATUS<br><div>P</div>        | DRAWING No.<br><div>1064</div> | REV.<br><div>1</div> |

# PRELIMINARY