

# CONSTRUCTION NOTES

1. ALL ADAPTABLE HIGHWAY CONSTRUCTION WORKS SHALL BE CARRIED OUT TO THE STANDARD Laid DOWN IN THE WEST SUSSEX COUNTY COUNCIL SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION, REFER TO: **gta civils ltd** DRAWINGS, SERIES 4485 FOR ALL DETAILS OF ADAPTABLE HIGHWAY WORKS AND SPECIFICATIONS.
2. ALL ADAPTABLE SEWERS AND SHARED DRAINS SHALL BE CONSTRUCTED TO THE STANDARDS Laid DOWN IN "SEWERS FOR ADOPTION" 7th EDITION, AND SOUTHERN WATER SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION, REFER TO: **gta civils ltd** DRAWINGS, SERIES 4485 FOR ALL DETAILS OF ADAPTABLE INFRASTRUCTURE DRAINAGE.
3. BEFORE CONNECTIONS ARE MADE TO EXISTING DRAINAGE, ITS LEVEL IS TO BE CHECKED AND COMPARED AGAINST LEVELS SHOWN ON THIS DRAWING AND THIS OFFICE INFORMED OF ANY SIGNIFICANT DIFFERENCES.
4. ALL SEWERS WITH LESS THAN 1.2m OF COVER WHEN Laid BENEATH THE ROADS, OR 0.3m OF COVER IN OTHER AREAS, SHALL BE PROTECTED WITH CONCRETE IN ACCORDANCE WITH EITHER OF THE DETAILS SHOWN ON THE STANDARD DRAWING PROVIDED FOR BECOMING TYPE LOCATIONS, REFER TO SEWER SECTIONS.
5. THE MINIMUM SIZE OF PIPE CONNECTING GULLIES TO THE SOAKAWAYS SHALL BE 150mm DIA. Laid AT A MINIMUM GRADIENT OF 1 IN 80.
6. ALL SOAKAWAYS TO BE CONSTRUCTED TO THE MINIMUM DEPTHS SHOWN ON THIS DRAWING AND THOSE SHOWN ON THE STANDARD DRAWINGS.
7. IN ORDER TO MAINTAIN THE SATISFACTORY FUNCTIONING OF SOAKAWAYS, ALL ROAD AND YARD GULLIES ARE TO BE "TRAPPED".
8. THE DESIGN IS SUCH THAT WATER FROM PRIVATE AREAS DOES NOT SPED TO ADAPTABLE AREAS AND VICE VERSA.
9. ALL PRIVATE SEWERS ARE TO BE 100mm DIA. UNLESS OTHERWISE STATED. THE PRIVATE DRAINAGE DESIGN ON THE PLAN HAS BEEN BASED ON THE PRINCIPLES OF A JWC SYSTEM. IT CAN BE ADAPTED TO SUIT A SOWAN SYSTEM BUT REFERENCES SHOULD BE MADE TO THIS OFFICE BEFORE AMENDMENTS ARE MADE.
10. ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT "H" BRITISH STANDARD BS81, AND TO THE SATISFACTION OF THE BUILDING CONTROL SECTION.
11. MANHOLES SITUATED WITHIN AREAS ACCESSIBLE TO MOTOR VEHICLES ARE TO BE FITTED WITH SUITABLE STRENGTH COARDS AND FRAMES.
12. WHERE DRAINS PASS THROUGH FOUNDATIONS, A FLEXIBLE JOINT SHOULD BE PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE, WHERE TYPE 2 MANHOLES ARE EMPLOYED OR CONCRETE SURROUND IS ADDED TO OTHER MANHOLES A HOODER PIPE OF MAX 900mm IN LENGTH SHALL BE PROVIDED EITHER SIDE OF THE MANHOLE Laid AT A SUFFICIENT STEEP GRADIENT TO ALLOW FOR SETTLEMENT.
13. FLAT STACKS FITTED WITH AIR ADMITTANCE VALVES MAY BE USED INSTEAD OF SOIL AND VENT PIPES, SUBJECT TO THE ARCHITECTS APPROVAL, EXCEPT WHERE THE DRAINAGE CONNECTION EXCEEDS 10m BEFORE CONNECTING WITH ANOTHER VENTILATED DRAIN OR INSPECTION CHAMBER OR MANHOLE. HEAD OF DRAIN VENT PIPES MUST NOT BE FITTED WITH AIR ADMITTANCE VALVES.
14. SHALLOW PRIVATE DRAINS MAY REQUIRE PROTECTION USING CONCRETE SURROUND OR PAVING SLABS WITHIN THE TRENCH SUBJECT TO THE BUILDING INSPECTORS REQUIREMENTS.

15. APPROPRIATE MEASURES (TO BE AGREED WITH THE BUILDING CONTROL SECTION) ARE TO BE TAKEN TO DISCOURAGE ROBBERY ENTRY INTO THE PROPERTIES.
16. WHERE DRAIN RUNS CLOSE TO BUILDINGS OR THEIR INVERT LEVELS ARE BELOW FOUNDATION LEVEL, THEN THE TRENCHES ARE TO BE BACKFILLED IN ACCORDANCE WITH THE STANDARD DETAIL PROVIDED.
17. REFERENCE SHOULD BE MADE TO THE STRUCTURAL ENGINEERS DETAILS FOR ALL ASPECTS OF FOUNDATION DESIGN AND CONSTRUCTION.
18. BEFORE DETERMINING THE AMOUNT OF FACE BRICKWORK TO EACH UNIT, CONSIDERATION MUST BE GIVEN TO THE PROPOSED PRESERVED GROUND LEVELS IN THE VICINITY OF THE PROPERTY. THE LEVELS SHOWN ON THIS DRAWING HAVE BEEN DESIGNED UPON THE PARAMETERS SET DOWN IN THE APPROVED DOCUMENT "H" OF THE BUILDING REGULATIONS 2000 (2004 EDITION).
19. THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
20. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
21. IT IS THE SUBCONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH CURRENT BUILDING REGULATIONS AND CODES OF PRACTICE.

# GENERAL NOTES

1. The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive ground survey, recent drawings or the file. The contractors shall carry out non 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 go prior to work commencing.
2. Tender or billing drawings shall not be used for construction or the ordering of materials.
3. Do not scale. All dimensions and levels to be as confirmed.
4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
5. Copyright: This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made otherwise due to the client proceeding prior to these approvals is considered voidly at the clients risk, gta hold no responsibility for resulting adverse works or costs.

# KEY

- Infrastructure Highway Drainage
- Adaptable Foul Drainage S104
- Private Storm Drainage
- Private Foul Drainage
- Adaptable Foul Sewer Manhole
- Highway Drainage Catchpit
- Manholes fitted with Backdrop Connection
- Infrastructure Road Gully
- Storm Plastic Catchpit
- Foul Plastic Reduced Cover 1C
- Storm Plastic Reduced Cover 1C
- Foul Plastic Inspection Chamber - D202.6
- Storm Plastic Inspection Chamber - D202.6
- 300mm - Foul Water Access Chamber
- 300mm - Storm Water Access Chamber
- Storm Water Riddling Point
- Soil and Vent Pipe
- Stub Stack or Direct Drain Connection
- Rain Water Pipe
- Private Road Gully
- Private Yard Gully
- Chained Drain
- Lighting Column (Design Pending)
- Low Level Lighting Unit (Design Pending)
- Direction of Fall
- PPC Ring Soakaway in Granular PE
- Modular Soakaway

# SOAKAWAY SCHEDULE

| TANK COVER LEVEL |                          |                                   |                            |                      |              |      |
|------------------|--------------------------|-----------------------------------|----------------------------|----------------------|--------------|------|
| REF              | COVER LEVEL<br>(m) (a-q) | TOP BASE TOTAL<br>LEVEL (m) (p-r) | INVERT. LEVEL<br>(m) (s-m) | INVERT. RATE<br>M/HR | INVERT. SIZE |      |
| SA1              | 6.50                     | 4.80                              | 3.10                       | 3.30                 | 1302         | 83.3 |
| SA2              | 6.40                     | 4.80                              | 3.20                       | 2.80                 | 489          | 32.2 |
| SA3              | 5.90                     | 4.10                              | 2.50                       | 1.30                 | 1102         | 51.9 |
| SA4              | 6.20                     | 4.80                              | 3.20                       | 3.00                 | 910          | 64.3 |
| SA5              | 6.10                     | 4.10                              | 2.50                       | 1.30                 | 1281         | 86.2 |
| SA6              | 6.00                     | 4.10                              | 2.50                       | 1.30                 | 911          | 63.9 |
| SA11             | 6.50                     | 4.10                              | 3.00                       | 3.00                 | 260          | 17.1 |
| SA12             | 6.30                     | 4.10                              | 3.00                       | 3.00                 | 795          | 54.2 |
| SA13             | 6.00                     | 4.10                              | 3.00                       | 3.00                 | 947          | 37.0 |
| SA16             | 6.80                     | 4.10                              | 3.00                       | 3.85                 | 849          | 57.6 |
| SA19             | 7.20                     | 4.10                              | 3.00                       | 4.20                 | 505          | 35.1 |
| SA20             | 7.30                     | 4.10                              | 3.00                       | 4.30                 | 360          | 24.7 |
| SA21             | 7.30                     | 4.10                              | 3.00                       | 4.30                 | 434          | 28.8 |
| SA22             | 7.60                     | 4.10                              | 3.00                       | 4.60                 | 272          | 17.9 |
| SA23             | 7.60                     | 4.10                              | 3.00                       | 4.60                 | 566          | 38.0 |

# RING SOAKAWAYS

| REF  | COVER<br>(m) | AREA | BASE<br>STORED | DEPTH INVERT.<br>RATE<br>(sq m) | MAX.<br>DIA<br>VOLUME<br>(cu m) | INFILTR.<br>SIZE<br>(m/hr) | CHAMBER<br>(m) | PIT<br>(m)  |
|------|--------------|------|----------------|---------------------------------|---------------------------------|----------------------------|----------------|-------------|
| SA6  | 6.75         | 3.00 | 3.75           | 122                             | 7.1                             | 0.029                      | 1.5            | 2.25 x 2.25 |
| SA7  | 6.75         | 3.00 | 3.75           | 198                             | 12.0                            | 0.029                      | 1.8            | 3.25 x 3.25 |
| SA8  | 7.00         | 3.00 | 4.00           | 67                              | 3.9                             | 0.029                      | 1.2            | 1.7 x 1.7   |
| SA10 | 6.80         | 3.00 | 3.80           | 118                             | 8.4                             | 0.029                      | 2 x 1.2        | 2.0 x 2.0   |
| SA14 | 6.00         | 3.00 | 3.90           | 174                             | 11.0                            | 0.029                      | 1.8            | 2.7 x 2.7   |
| SA15 | 5.50         | 3.00 | 4.50           | 97                              | 5.1                             | 0.029                      | 1.2            | 1.7 x 1.7   |
| SA17 | 6.95         | 3.00 | 3.95           | 125                             | 7.1                             | 0.029                      | 1.5            | 2.25 x 2.25 |
| SA18 | 7.00         | 3.00 | 4.00           | 153                             | 7.1                             | 0.029                      | 1.5            | 2.0 x 2.0   |

# REV

|       |                                                                             |          |
|-------|-----------------------------------------------------------------------------|----------|
|       | UPDATED AS LATEST SUBSTRUCTURE ISSUE /<br>SA4, SA19 & SA20 ADJUSTED TO SUIT | 25.07.14 |
| A     | CODE ITEMS ADDED TO HA UNITS - PLOTS<br>442-444 ADJUSTED TO CURRENT LAYOUT  | 01.07.14 |
| -     | GROUNDWORKS TENDER ISSUE                                                    | 25.06.14 |
| Notes | Approved by                                                                 | Date     |