

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 observations, record drawings or the like. The contractor shall 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 gta prior to works 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 site 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 abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

NOTE: SERVICE DUCT FOR HOSE AND POWER/CONTROL CABLING SERVING RWH TANK BY OTHERS

RAINWATER HARVESTING TANK
Type: Stormsaver Floplast 1500 litre tank reference S1500
CL 73.400
IL in 72.700
Overflow level out 72.645
Dims 2.4m(L) x 1.2m(W) x 0.65m(D)
Installation: as per manufacturer's instructions

NOTE FOR CONTRACTOR: FOLLOWING EXCAVATION OF SUNNER GARDEN CONTRACTOR TO MONITOR GROUNDWATER LEVELS AND FORWARD RESULTS TO GTA. POSSIBLE SPECIALIST WATERPROOFING MEASURES REQUIRED IF GROUNDWATER LEVELS ARE FOUND TO BE HIGH.

NOTE ON INSPECTION CHAMBERS

ALL SICs, FICs AND PPCPs TO HAVE 4500 CIRCULAR COVERS.

COVER GRADING TO BE AS FOLLOWS:

VEHICULAR AREAS - D400 GRADE COVER
PEDESTRIAN ONLY AREAS - B125 GRADE COVER

KEY

- Private surface water drain
- Private foul drain
- FIC
● Foul Plastic Inspection Chamber - D202.6
- SIC
● Surface Water Plastic Inspection Chamber - D202.6
- PPCP
● Surface Water Plastic Catchpit Chamber - D210.4
- SVP
● Foul drain point
- RWP
● SW Drain point for RWP
- C
● Ramp down at 1 in 1 (45 degrees)
- ● Drain passing through beam
- YG
● Trapped yard gully
- G
● Trapped bin store gully
- RP
● External Rodding Point
- ● 150mm Perforated Land Drain - D210.5
- ● Surface Water Rising main

SPECIFICATION NOTES

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.

Drainage pipelines shall be in PVC-U below ground as Manley or similar approved, or vitrified clay.

All sewer pipelines to be VC only.

This drawing shall be read in conjunction with all other relevant drainage drawings, architectural drawings and structural drawings.

For manhole details, gully details, bedding etc, refer to GSP detail sheets.

All foul water drain runs shall have a fall of 1:40 or steeper, unless noted otherwise.

All cement used for concrete drainage installations shall be sulphate resistant to class 3 of BRE Digest 363. (Grade S75)

The use of short radius or 90° bends for changes in direction is not permitted, only long or medium radius 45° bends shall be used. All junctions shall be 45°.

All drains shall have granular bed and surround as class 'S' bedding, unless noted otherwise.

All drainage works shall commence from the upstream end first unless agreed otherwise. Outfall level to be checked by contractor prior to any works commencing and any discrepancy identified to engineer prior to laying and drainage.

Abbreviations

| Abbreviations | DETAIL NUMBER - SEE DRAINAGE DETAIL SHEET |
|---------------|-------------------------------------------|
| D307.0 | FOUL DRAIN |
| FWD | GROUNDWATER/SURFACE WATER DRAIN |
| GWD | FOUL INSPECTION CHAMBER |
| FIC | CAST IRON |
| CI | VITRIFIED CLAY |
| VC | CONCRETE |
| CONC | POLYVINYL CHLORIDE - UNPLASTICISED |
| PVC-U | SMALL GULLY |
| G | BACK INLET GULLY |
| R/E | RODDING EYE |
| DP | BELOW GROUND DRAIN POINT |
| SVP | SOIL VENT PIPE DROP |
| SS | STUB STACK |
| RP | EXTERNAL RODDING POINT |
| HL | HIGH LEVEL |
| CBS | Concrete Bed & Surround |
| FFL | FINISHED FLOOR LEVEL |
| SSL | STRUCTURAL SLAB LEVEL |
| GL | GROUND LEVEL |
| CL | COVER LEVEL |
| IL | INVERT LEVEL |

| Rev | Amendments | Date | Dsn | Chk |
|-----|---------------------------------------------------------------------|----------|-----|-----|
| C | LAND DRAINAGE ADDED TO SUNKEN GARDEN. | 11.06.15 | JR | |
| B | CELLULAR STORAGE AND RWH TANK RELOCATED TO AVOID CLASHES WITH RPAs. | 01.06.15 | JR | |
| A | TENDER ISSUE | 23.04.15 | JR | |
| - | INITIAL ISSUE | 04.03.15 | JR | |

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| Status | TENDER |
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| Client | FORM STRUCTURES LTD |
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| Architect | MR PARTNERSHIP |
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| Project | 38 HEATH DRIVE LONDON NW3 7SD |
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| Title | SITE DRAINAGE |
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| Date | FEBRUARY 2015 | Scale @ A1 | 1:100 |
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| Base Layout Ref. | CAD File ref. |
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| Clients Ref. | Project Ref. | 5690 |
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| Drawing Number | 5690/100 |
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DESIGN NOTES

1. RAINWATER PIPE LOCATIONS TO BE CONFIRMED BY ARCHITECT.
2. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.
3. EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.
4. APPROVAL TO BE GAINED FROM THAMES WATER FOR CONNECTION TO SEWERS AND DISCHARGE RATES.
5. CONTRACTOR TO ALLOW FOR NEW FOUL SEWER CONNECTION INTO FINCHLEY ROAD.
6. EXTERNAL DRAINAGE GULLY AND CHANNEL LOCATIONS ARE ASSUMED - TO BE CONFIRMED BY LANDSCAPE ARCHITECT.
7. CONTRACTOR TO UNDERTAKE IN-SITU BRE65 SOAKAGE TESTS AND FORWARD RESULTS TO GTA CIVILS LTD. FOR SIZING OF PERMEABLE SUB-BASE.

CELLULAR STORAGE 1

Polypipe Polystorm Lite
CL 73.400
Top of tank 72.740
IL in 72.205
IL out/base 71.140
Area 7.25m.sq
Depth 1.6m
Volume 11.02m.cu (95% voids)
Sized for the 1 in the 100 yr event + 30% for climate change

CELLULAR STORAGE 2

Polypipe Polystorm Lite
CL 73.400
Top of tank 72.665
IL in 71.065
IL out/base 71.065
Area 4m.sq
Depth 1.6m
Volume 6.08m.cu (95% voids)
Sized for the 1 in the 100 yr event + 30% for climate change

CONTROL MANHOLE

CL 73.400
IL 71.050
SL 70.560
Hydrobrake at 5 f/s
B125 Ductile Iron Cover for 600x600 c/o

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