



Soakaway 1
Area - 36.0m²
Depth - 0.8m
Volume - 27.4m³ (assuming 95% porosity)
Crate CL - 28.650 mAOD
Top of Crate - 28.300 mAOD
Crate IL - 27.500 mAOD
Infiltration Rate - 0.13680 m/hr
Soakaway designed for a 1 in 100 year storm event plus 40% climate change allowance.

New connection into existing Southern Water foul water manhole (ref.8304).
Connection subject to approval from Southern Water.

EX.SW F 8207
CL (28.000) (assumed)
IL (27.174) (assumed)

EX.SW F 8206
CL (30.095)
IL (29.540)

S4
CL (28.910)
Outlet IL (27.850)
Sump Depth 0.300

S3
CL (29.177)
IL (28.330)

S1
CL (29.242)
IL (28.600)

F1
CL (29.371)
IL (28.545)

F2
CL (29.295)
IL (28.495)

F3
CL (29.295)
IL (28.445)

F4
CL (29.295)
IL (28.345)

S2
CL (29.230)
IL (28.500)

F5
CL (29.062)
IL (28.270)

F6
CL (28.999)
IL (28.240)

F7
CL (28.960)
IL (28.210)

F8
CL (28.960)
IL (28.180)

F9
CL (28.960)
IL (28.150)

F10
CL (29.235)
IL (28.000)

Private Drainage Notes:

- All private drainage works to comply with the typical drainage construction details and to be in accordance with Part H of the current Building Regulations & BS EN 752.
- All private drainage pipework to be either:-
uPVC to BS EN 1401,
Vitrified Clayware to BS EN 295,
Concrete to BS 5911 OR,
Twin Walled Plastic to BS EN 13476,
- All new adoptable drainage and laterals to the public sewer are to be constructed in accordance with the DCG 2022 by Water UK.
- All underslab drainage shall be laid at gradients of 1:40 min for foul pipework and 1:80 min for surface water UNO.
- All rest bends at upstream end of underslab drainage to be 450mm below SSL UNO.
- RWP lateral connections are to be sized to suit RWP size as designed by specialist. Gully laterals to be sized to suit gully outlets. All other pipes 100mm diameter UNO.
- All underslab drainage shall be installed in straight runs and be clear of foundations UNO, with long radius bends kept to a minimum and used where unavoidable. Long radius bends along length of runs shall be a maximum of 30 degrees.
- Where sewers cross and there is less than 200mm clearance, both runs are to be encased in concrete for a minimum of 1m in all directions.
- All RWP, SVP, plant gully and all other foul drainage positions are to be set out by the Architect.
- Where RWPs and foul pipes are connected direct to drain, rodding access plates are to be provided above ground (by others).
- At least one soil pipe at the head of each foul run shall be vented to the atmosphere.
- Contractor to ensure that manhole covers are orientated to suit pavement finishes and set flush with surrounding levels.
- Contractor to ensure that any part of the existing drainage system to be retained as part of the new scheme shall be cleaned and inspected by CCTV survey. Any structural defects shall be repaired or replaced as may be required using appropriate and approved methods. Where existing manholes are to be retained the cover and frames shall be checked to ensure they are in suitable condition for re-use and if required cover levels adjusted to suit proposed finished ground levels.
- No allowance has been made for grease traps below ground. Management of grease and fats from kitchens to be provided above ground by others.
- Refer to PTA Drainage Maintenance Schedule for maintenance of the drainage system during and for the end user post construction.

Notes:

- Do not scale from this drawing.
- In case of any discrepancies in drawings, details or bills, refer to engineers for clarification: unilateral decisions by the Contractor will not be accepted.
- This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
- The Contractor is advised that all design drawings and information are to be read concurrently and any discrepancies or omissions reported directly to PTA's Civil Engineering Department.

Drainage Key:

- Site Boundary
- Existing Public Foul Water Drainage
- Existing Public Storm Water Drainage
- Proposed Private Foul Water Drainage
- Proposed Private Surface Water Drainage
- Soakaway
- RWP, FDP, Rain Water Pipe & Foul Drain Point
- DC - Drainage Channel with Sump
- SU Unit

Drainage Abbreviations:

- F = Foul Water
- S = Surface Water
- EX. = Existing
- SW = Southern Water
- CL = Cover Level in mAOD
- IL = Invert Level in mAOD
- USIL = Upstream Invert level for lateral pipe in mAOD

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NOT FOR CONSTRUCTION

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S3

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REV DESCRIPTION BY DATE CHKD

PROJECT TITLE
St Albans Close, Gravesend

DRAWING TITLE
Proposed Drainage Layout

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