PUMPMATIC™ 200 DUAL SEWERAGE & SURFACE WATER PACKAGED PUMPING SYSTEM

Heavy duty GRP tank 1000mm diameter x 2800mm deep.
Submersible pump type PTL 106 EN guide rail mounted. The submersible motor is suitable for a 230v electrical supply and complete with 10m of power cable. FLC 6.0 amps P2 0.75 kW
2½ inch Internal pipe work in UPVC, valves and fittings terminating in an External 3 inch UPVC socket.
It is essential that 3 inch UPVC pipe or 90mm MDPE pipe be used for the rising main with slow radius bends. Installation of the PumpmaticTM GRP pump chamber in line with Spec.
Float regulators complete with 10m flex.
Galvanised lifting chain and shackles.
110mm inlet pipe connections.
1 x Cable duct connection.
Access cover 600mm x 600mm, 5 Tonne GLVW. Supplied Loose
Dual pump control panel offering manual & auto running, auto-change over c/w running and fault lamps, audio alarm, battery backup for high level float and volt free contacts for connection to BMS.

PROPOSED S.W. DRAINAGE 100mm DIA 1 in 100 fall

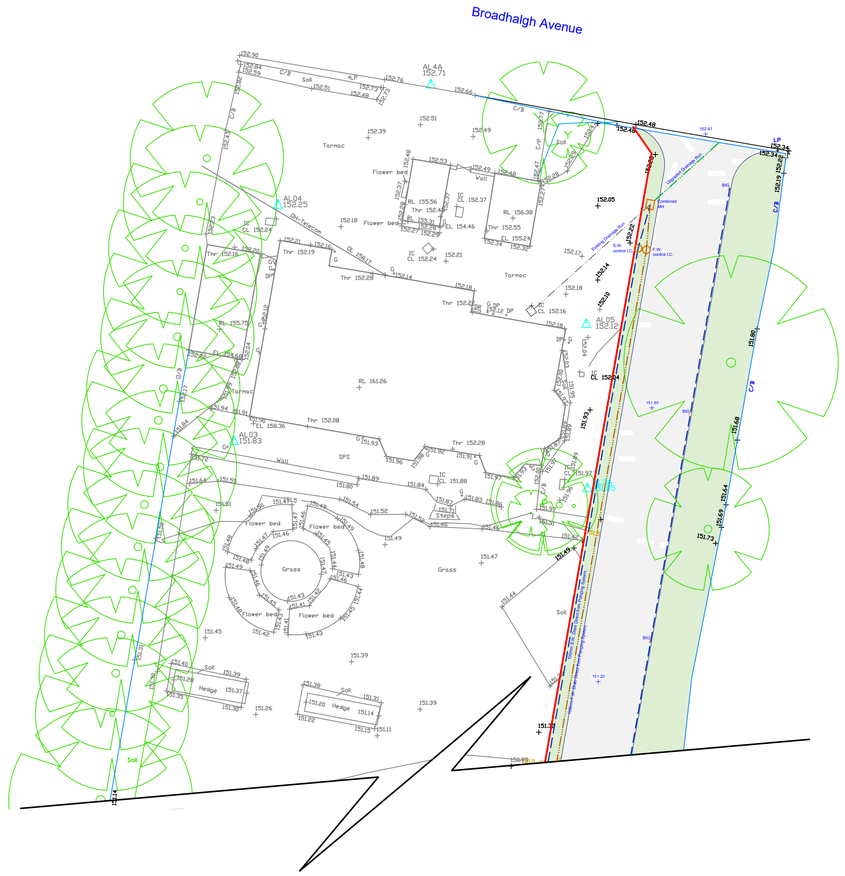
PROPOSED FOUL DRAINAGE 100mm DIA 1 in 40 fall

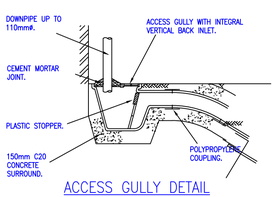
PROPOSED COMBINED DRAINAGE 150mm DIA 1 in 40 fall

TO BE RED IN CONJUCNTION WITH MMA TREE CONSULTANCY

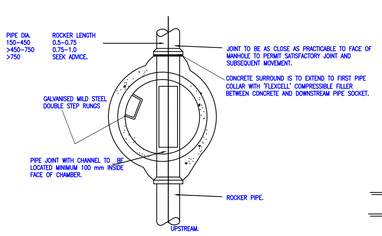
- Arboricultural Method Statement
- Tree Constraint's Plan
- BS 5837 2012 Tree Protection Fence Detail
- Cellweb Installation Guide (81)
- Landscaping plan and detail
- Tree survey



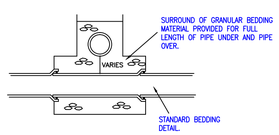




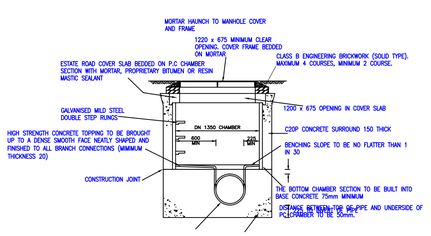
ACCESS GULLY DETAIL
(SCALE 1:25)



DEPTH TO SOFFIT 1000 – 1500
TYPICAL MANHOLE DETAIL TYPE A.



PIPE CROSSOVER DETAIL.
(SCALE 1:25)



This drawing is provided as a document to gain either Planning Permission or Building Regulation approval purposes only. It is not a guarantee that Planning Permission will be granted.

This drawing and all contents are the copyright of James Campbell Associates Ltd. No copies to be made from the drawing & details within unless authorised by James Campbell Associates Ltd.

The contract for the works is between the client and his / her contractor. Contractor to visit site, study the details provided within the drawing and be familiar with both the work to be carried out in accordance with the details provided. Any stated dimension must be checked prior to any form of construction. All works and materials to comply with all relevant British Standards and carry a genuine BBA certificate. The materials specified within this drawing are a guide for the contractor as they are recognised materials with genuine BBA certificates etc. Any contractor who decides to use any different materials than that noted on the drawing must inform James Campbell Associates Ltd.

Any discrepancies discovered or items found that where not visible at the time of the initial survey should be reported to James Campbell Associates Ltd for consultation with our client.

CONSTRUCTION NOTES:-

All drainage under building floor slabs within 400mm of the top of the slab to be encased in min 150mm concrete.

All new foundations to be constructed below invert level of new & existing drainage. Finally contractor to check existing mh depths to verify that new drainage will run into the existing on site gravity system.

All pathways to dwelling entrances to be 1 in 12 gradient/ ramp to front & rear entrances or stepped down with 100mm brickwork walling topped with 900 x 600mm concrete flags with min 25mm overhang all to Detail 1.

ANY EXISTING FW / SW SYSTEMS IN EXISTENCE ARE TO BE MAINTAINED IF POSSIBLE. DRAINS ARE TO BE TRACED ACCURATELY PRIOR TO COMMENCING DRAINAGE WORKS, TO ENABLE NATURE OF DRAINAGE (SEPARATE OR COMBINED) A CCTV SURVEY SHOULD BE UNDERTAKEN.

DRAINAGE NOTES

1. All works are to be in accordance with "sewers for aboption" - 3rd edition.
2. All drainage is to be in accordance with BS8301 - code of practice for building drainage.
3. The contractor is responsible for setting out and for the correctness of the position and dimensions of all parts of the works.
4. The contractor shall give at least one clear working days notice to the engineer /building inspector before any formation is covered with permanent work and before testing any pipeline.
5. Vitrified clay pipes and pipeline fittings for sewers shall comply with the relevant requirements of BS65 and be of `normal' type with flexible mechanical joints.
6. Unreinforced and reinforced concrete pipes and fittings with flexible joints shall comply with the relevant provisions of BS5911.part 100.
7. Manhole covers and frames shall comply with the relevant provisions of bs497 part 1.
8. All structural concrete is to be grade c35 with a minimum compressive strength of 35N/mm at 28 days. Minimum cement content is to be 200kg/m and maximum free water cement ratio is to be 0.6. Maximum aggregate size is to be 20mm nominal.
9. Blinding concrete is to be grade c15 with a minimum compressive strength of 15N/mm at 28 days. Minimum cement content is to be 200kg/m and maximum free water cement ratio is to be 0.6. Maximum aggregate size is to be 20mm nominal.
10. Mass concrete and concrete surrounding drains gullies and manholes is to be grade C25 with a minimum compressive strength of 25N/mm at 28 days. minimum cement content is to be 0.55. Maximum aggregate size is to be 20mm nominal.
11. All brickwork below dpc level is to have a minimum compressive strength of 27N/mm and a maximum water absorbtion of 7%.
12. All mortar below dpc level is to be 1:3 cement:sand (grade 3) - no additives will be permitted without the prior written consent of the engineer.

N

DRAWING TITLE

PROPOSED DRAINAGE PLAN

JAMES CAMPBELL ASSOCIATES LTD
CHARTERED ARCHITECTURAL SERVICES
CIOB
CIAT

Campbell House
173 Rochdale Road
Firgrove
Rochdale
OL16 3BN

Tel: 01706 354888
Mob: 07817 623183
Email: admin@jamescampbellassociates.co.uk
Web: www.jamescampbellassociates.co.uk

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

LOCATION

The Red House
13 Broadhalgh Avenue
Bamford
Rochdale

DRAWN:-	Martin D. Ashworth	DRAWING NUMBER:-
DATE:-	March 2019	**18.1919.20**
SCALE:-	1:200 @ A1	
ISSUE:-		