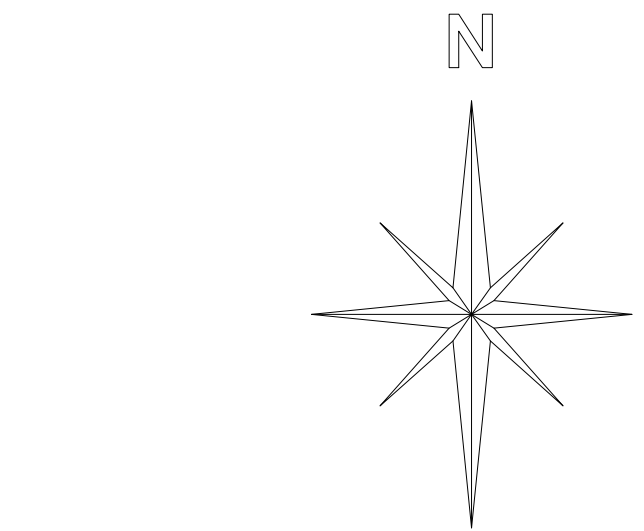
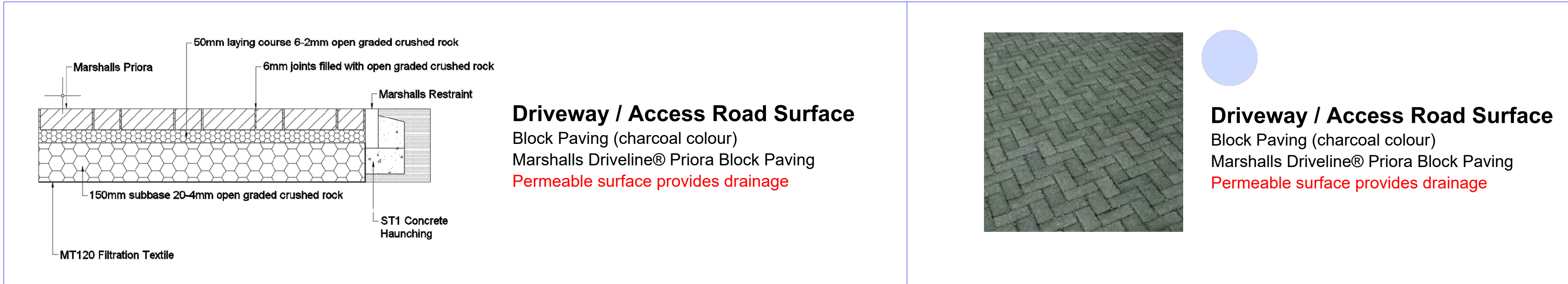
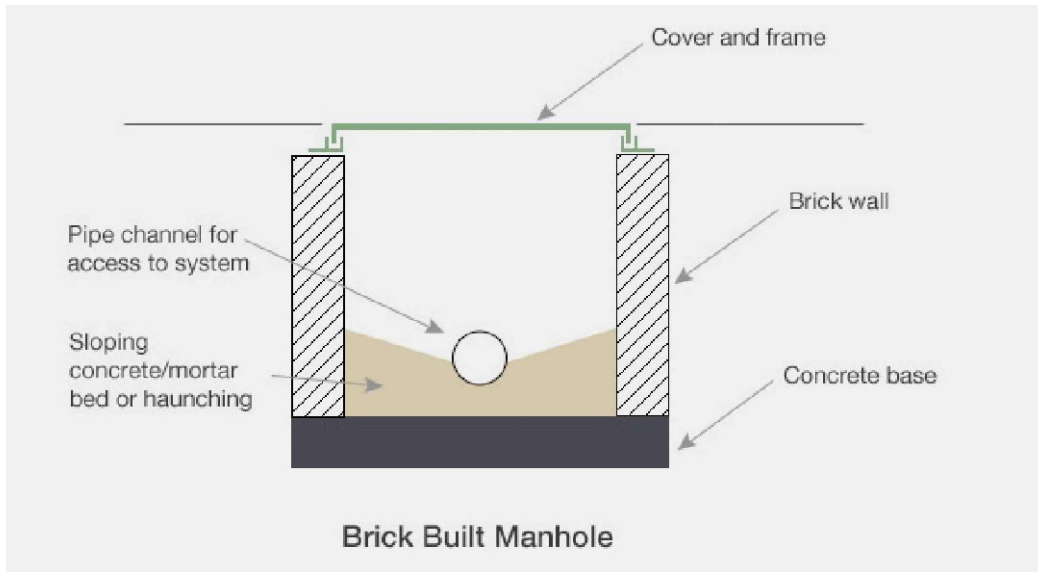




PROPOSED DRAINAGE PLAN



Brick Inspection Chambers



Inspection chambers greater than 1200mm in depth to be brick built chambers or concrete rings.

Round Plastic Inspection Chambers - Surface Water



Square Plastic Inspection Chambers - Foul

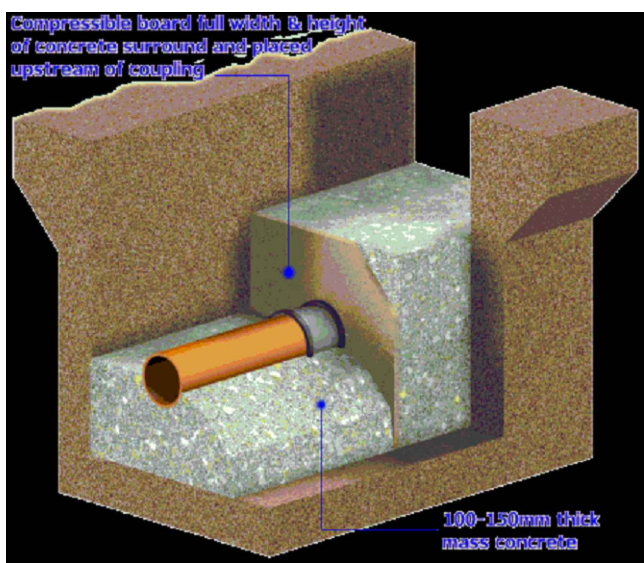


Diagram 1

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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 drainage pipes with less than 1.2m cover under roads / car parking areas to be protected with concrete surround.

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

- All works are to be in accordance with "sewers for adoption" - 3rd edition.
- All drainage is to be in accordance with BS EN 752 - code of practice for building drainage.
- The contractor is responsible for setting out and for the correctness of the position and dimensions of all parts of the works.
- 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.
- Verified clay pipes and pipeline fittings for sewers shall comply with the relevant requirements of BS EN 295 and be of 'normal' type with flexible mechanical joints.
- Unreinforced and reinforced concrete pipes and fittings with flexible joints shall comply with the relevant provisions of BS EN 1916: 1916: 2002.
- Manhole covers and frames shall comply with the relevant provisions of BS EN 124.
- 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.
- 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.
- 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.
- All brickwork below dpc level is to have a minimum compressive strength of 27N/mm and a maximum water absorption of 7%.
- 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.

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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.

DRAWING TITLE PROPOSED DRAINAGE PLAN

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CIOB **CIAT**

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PROJECT RESIDENTIAL DEVELOPMENT

LOCATION

**Land @ Langton Terrace
Rochdale**

DRAWN:-	Frank James Smith	DRAWING NUMBER:-
DATE:-	April 2021	20.2181.33C
SCALE:-	1:200 at A1	
ISSUE:-	C	