



THIS LAYOUT SHOULD BE USED FOR:
 All private building drainage - position and levels
 All roads and retaining works - position and levels
 Road names and postal numbers
 Street lighting and other furniture/signage

THIS LAYOUT SHOULD NOT BE USED FOR:
 Adaptable sewer and highway works - position and levels
 Fencing and drive positions or materials
 Private skidding paths or areas
 House types and positions

MARSHALLS ARE TO BE CONSULTED THROUGHOUT THE CONSTRUCTION OF THE POROUS PAVING SYSTEMS TO ENSURE COMPLIANCE WITH THEIR STANDARDS. THE CONTRACTORS ATTENTION IS DRAWN TO THE REQUIREMENT FOR THE POROUS PAVEMENT FORMATION TO FALL TOWARDS THE OUTFALL.

INFILTRATION POROUS PAVING SYSTEM - TO BE UNDERLAIN WITH A PERMEABLE MEMBRANE (TERRAM 1000 OR SIMILAR APPROVED)

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.

- Notes
- All levels relate to Ordnance Datum.
 - For adaptable roads and sewer details refer to drawings 5,500 series.
 - Building Drainage
 3. All connections to adaptable materials from private building drainage to be 150mm diameter pipes unless otherwise specified.
 - All house drainage to be 100mm dia unless otherwise stated, and laid in accordance with current Building Regulations and BS3011:1985.
 - The Contractor is to refer to Marshalls standard details for connection specifications between surface water materials and the porous paving system.
 - All drainage products are to be Polypropylene.
 - Pipe bedding material is to be Class D with 150mm minimum thickness surround.
 - Bedfill is to be in situ with selected fill free of stones larger than 40mm, large of clay over 100mm, timber, frozen material and vegetable matter.
 - Pipe protection of house drainage runs is required in accordance with the Typical House Drainage Details drawing. The contractor shall satisfy themselves and agree with the Site Manager the actual extent of pipe protection required.
 - Pipes entering and leaving manholes/inspection chambers shall include a rocker pipe, 600mm in length.
 - Diskswork to chambers shall be Class D Engineering to BS321.
 - Rainwater pipes are to be sited on side elevations whenever possible.

Figure 1

1. All retaining walls with a height of 600mm or greater are to include 1.2m high post and rail fencing unless located in rear gardens. Saver retaining walls in rear gardens are to include 300mm height picket fence.

14. All rights of ways to primary level access, with more than 2 steps are to be provided with handrails, except where the steps are 300mm or more apart.

15. Dick retaining walls are to be used in preference to gravel boards for front garden areas.

Legend:

- F3 Proposed Fix Sewer
- S3 Proposed Highway Drain
- 150mm perforated load drain/risk pipes beneath porous paving
- 150mm link pipes beneath impermeable margins
- Highway Gully
- Marshalls block paving
- Carriageway - Permeable
- Footway/Service margin - Impermeable
- Rifer to Block details for colour & load. 60mm block in private areas
- Direction of fall of porous paving formation
- Electric Stairs (Refer to Engineering Notes/Specification)
- Small Foul L.C. (225mm dia. Depth to invert 450-600mm)
- Medium Foul L.C. (450mm dia. Depth to invert 600-1000mm)
- Non Entry L.C. (150mm dia. Depth to invert 1000-3000mm)
- Large Foul L.C. (225mm/300mm or PC slugs. Depth to invert 1000-1800mm)
- Small Surface Water L.C. (225mm dia. Depth to invert 450-600mm)
- Medium Surface Water L.C. (450mm dia. Depth to invert 600-1000mm)
- Non Entry L.C. (150mm dia. Depth to invert 1000-3000mm)
- Large Surface Water L.C. (225mm/300mm or PC slugs. Depth to invert 1000-1800mm)
- Drainage Channel
- Marshalls Sump
- Marshalls Sump
- 200 Litre Water Butt
- Building Drip

A	14.11.14	Plot engineering details updated following Bovis comments.	RM
Rev	Date	Details	By
Drainage Authority Approval Date			
Highway Authority Approval Date			

Do not scale from this drawing. Use written dimensions only. When shown relationships between levels and ground levels are to be checked on site. Any discrepancy or suggested modification to be reported to Design and Engineering Director.
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DRAWING TITLE: ENGINEERING LAYOUT SHEET 2

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