

Condition No II

Surface Water Drainage Scheme

The Scheme is suitable for a 1 Plot dwelling will promote sustainable development, secure and manage the risk of flooding.

Specification

- a) Garden Landscape Areas
- b) Hard standing: - Drive and Car-parking area.
- c) Roof (Top Water) Surface water

Garden Landscape Areas (Approximate 200m²)

300 mm of topsoil on terram separating membrane (allows water to dissipate through) on 300 mm of 20 mm regular stone hardcore.

Will allow rapid drainage of storm water, quickly dissipating through the top soil and hardcore strata.

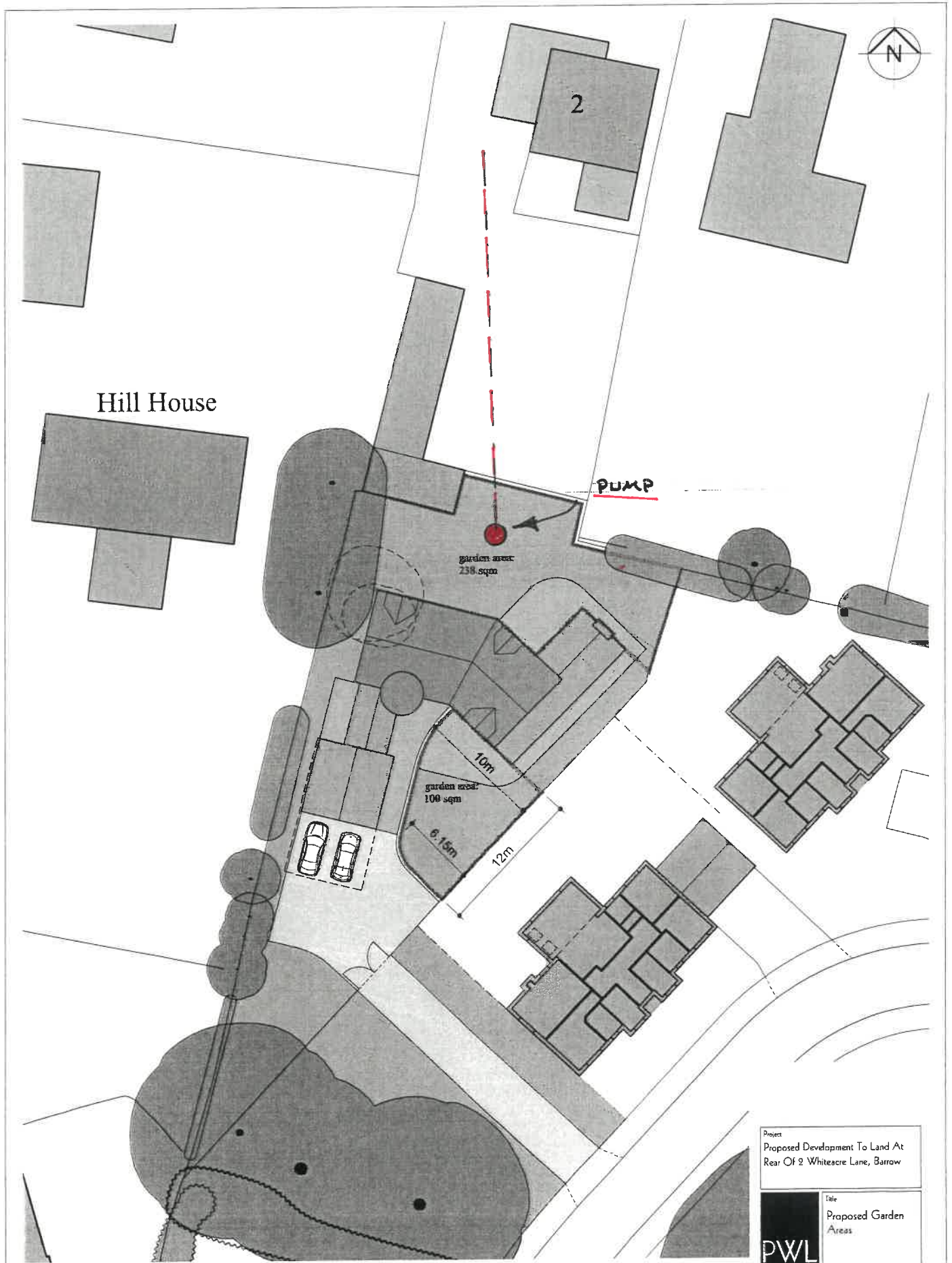
Hard standing (Drive and Car-Parking Area)

Porous asphalt (P.A.) is a type of pavement that is made from a mixture of coarse and fine stones, filler binder and bituminous substance designed to be porous allowing water to seep through and into the ground in this instance 100 mm of P.A. on 300 mm hardcore.

Will allow rapid drainage water to drain quickly from the surface, with stone recharge bed underneath the surface layer.

Roof (Top Water) Surface Water

Top Water will discharge into existing surface water system via a separate drain and sustainable 'pump chamber', Ref Mid D.W. see separate details.



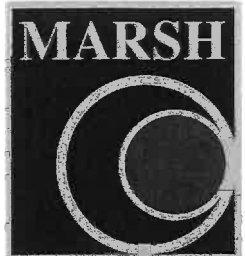
Land to the rear of 2 Whiteacre Lane, Barrow Proposed Garden Areas



Project Proposed Development To Land At Rear Of 2 Whiteacre Lane, Barrow	
	Title Proposed Garden Areas
	<small>31 Chapel Row Leyland PR25 3NH Tel 01772 457404 E Mail: info@pwwarchitecture.com</small>
Scale 1:200@A2 1:400@A4	Date July 2020
Drawn CTA	Drawn No 1337.PL10E



ECONOMIC
EFFICIENT
SUSTAINABLE
PUMP CHAMBERS >



www.marshindustries.co.uk



Lacerator Pump Chamber - Mini & Midi Chambers

The Mini & Midi Chambers come in two ranges. Dirty Water (DW) and Sewage (SW).

The Mini & Midi Dirty Water Chambers are installed belowground, the range of from 230litres - 350 litres in depths of 1m and 1.5m and is designed to take domestic dirty water (excluding sewage or toilet waste) from additional bedrooms, kitchens, showers, offices and garages and pump the dirty water to the main sewage, the inlet pipe is 110mm but can be adapted for smaller bore pipe. The Midi & Mini DW Chamber uses energy efficient submersible pumps and can be supplied with a high level alarm. The pumps have a capacity of 14m³/hour with a maximum head of 11m and can cater for solids up to 20mm. They are easy to clean and have high level alarms and control panels as optional extras.

The Mini & Midi Sewage Chambers (SW) are installed belowground, the range of from 230litres - 350 litres in depths of 1m and 1.5m and is designed to take sewage and dirty water (including sewage or toilet waste) from additional bedrooms, kitchens, showers, offices and garages and pump the dirty water to the main sewage, the inlet pipe is 110mm but can be adapted for smaller bore pipe. The Midi & Mini (SW) Chamber uses energy efficient submersible pumps and can be supplied with a high level alarm.

The Mini & Midi Chamber uses energy efficient pumps that have a flow capacity of 6.6m³/hour, have a maximum head of 25metres and run at power rating of 1.1kw. The Micro chambers are easy to clean and have high level alarms and control panels as optional extras.



Product Code	Dimensions	Height	Inlet Invert	Total Storage	Outlet Invert	Mdpe Fitting
Mini DW	600mm Dia.	1100mm	500mm	234 litres	300mm	63mm
Midi DW	600mm Dia.	1500mm	750mm	352 litres	300mm	63mm
Mini Sewage	600mm Dia.	1100mm	500mm	234 litres	300mm	63mm
Midi Sewage	600mm Dia.	1500mm	750mm	352 litres	300mm	63mm

Dirty Water 10mm	Dimensions mm (L x W x H)	Inlet Invert	Total Storage	Outlet Invert	Mdpe Fitting	Single
LPBP1DW	670 x 560 x 450	150mm	168 litres	100mm	63mm	Single
LPBP2DW	780 x 780 x 610	300mm	370 litres	200mm	63mm	Single
LPBP3DW	780 x 780 x 810	500mm	492 litres	300mm	63mm	Single

Sewage	Dimensions mm (L x W x H)	Inlet Invert	Total Storage	Outlet Invert	Mdpe Fitting	Single
LPBP1SW	670 x 560 x 450	150mm	168 litres	100mm	63mm	Single
LPBP2SW	780 x 780 x 610	300mm	370 litres	200mm	63mm	Single
LPBP3SW	780 x 780 x 810	500mm	492 litres	300mm	63mm	Single