

Generally sustainable drainage design is a planning approval condition (subject of course to practicality and ground conditions). Soakaway design & specification is to full Contractor Design Portion & must be to prior approval of the Ribble Valley BC BCO.

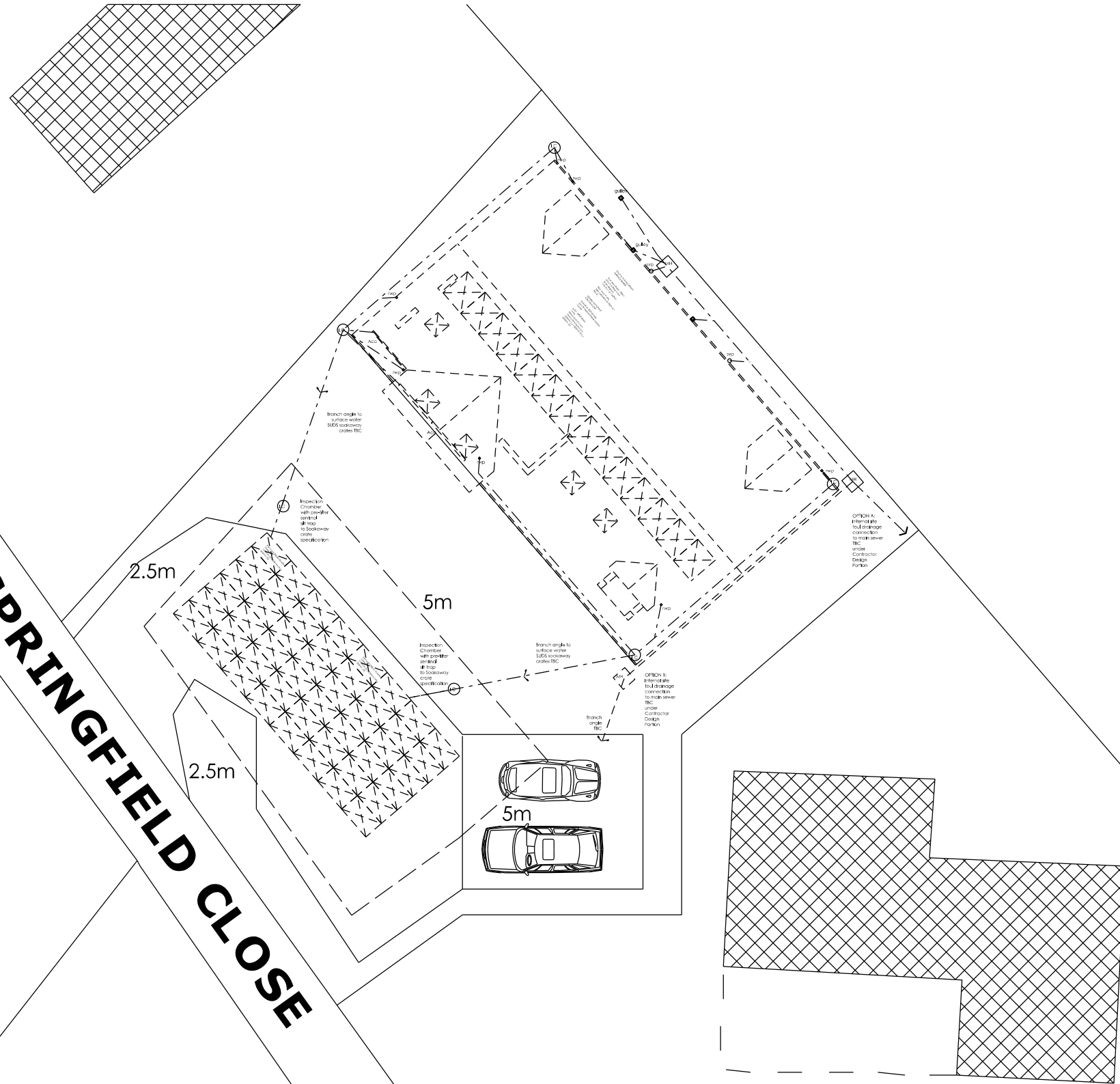
As such, suitable Soakaway and Infiltration test must be carried out in advance using NHBC Percolation test procedure for surface water soakaway. Prior to this, it should be borne in mind that the ideal soakaway location is in ground which is at a lower level than that of the building and at least 5m away from it, and min 2.5m from any site boundary. Notwithstanding reservations over clay soil, the current soakaway position meets these criteria and is sited under a fit for purpose permeable driveway.

Depths allow for a 150mm base layer of sharp sand, 150mm of sand or gravel side fill all around the outside of the crates and above fill of 150mm or 350mm sand/gravel layer depending upon the application.

Lay a 150mm base layer of sharp sand to ensure the base of the excavation is level before laying your chosen membrane sheet ensuring a 150mm overlap. For filtration systems and for water storage use a non-woven membrane.

Complete the non-woven membrane encapsulation to the sides and the top of the installation, ensuring that the protection fleece has the required 150mm overlap. The membrane should be welded with double seams and inspected for damage, testing the welds as required.

Place 75mm sharp sand protection layer if required over the top of the crates and continue to backfill as follows for trafficked areas: Type 1 or 2 sub base material compacted in 150mm layers in accordance with the Specification for Highway Works.



Plan Area Roof: 178m<sup>2</sup>  
Effective Roof Area  
@ 45 degrees  
 $178\text{m}^2 \times 1.5 = 267\text{m}^2$

## ~~SOAKAWAY CRATE CALCULATION~~

Based on 125 Litres per c  
rate holding capacity

Dimensions of each complete  
soakaway is 1430mm (L) x  
800mm (W) x 860mm (D)

Soakaway and Infiltration test  
to be carried out in advance  
using NHBC Percolation test  
procedure for surface water  
soakaway

—

CLIENT:  
Kevin and Helen Eastham

DATE: 09Dec22

DWG NO:  
354-BR320



**Ian Banks** • Director  
m 0771 7710014 • [ian.banks@atoll-uk.com](mailto:ian.banks@atoll-uk.com) • [www.atoll-uk.com](http://www.atoll-uk.com)