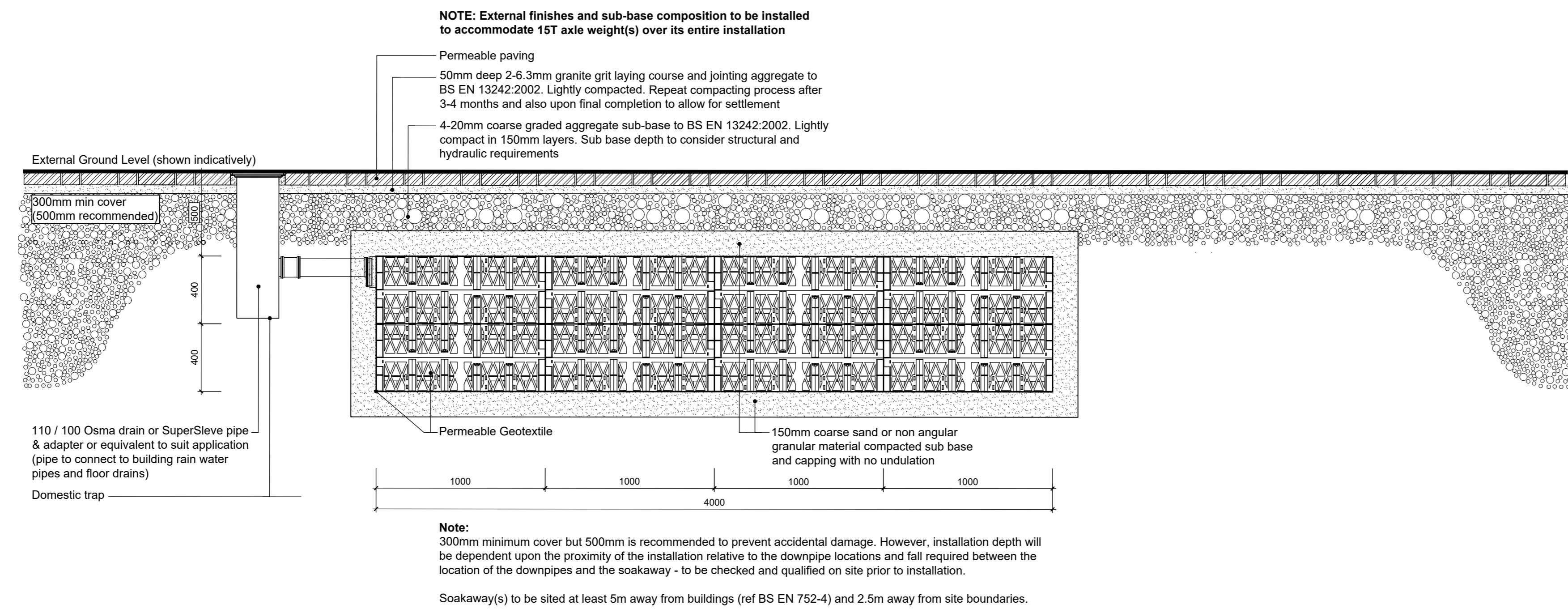
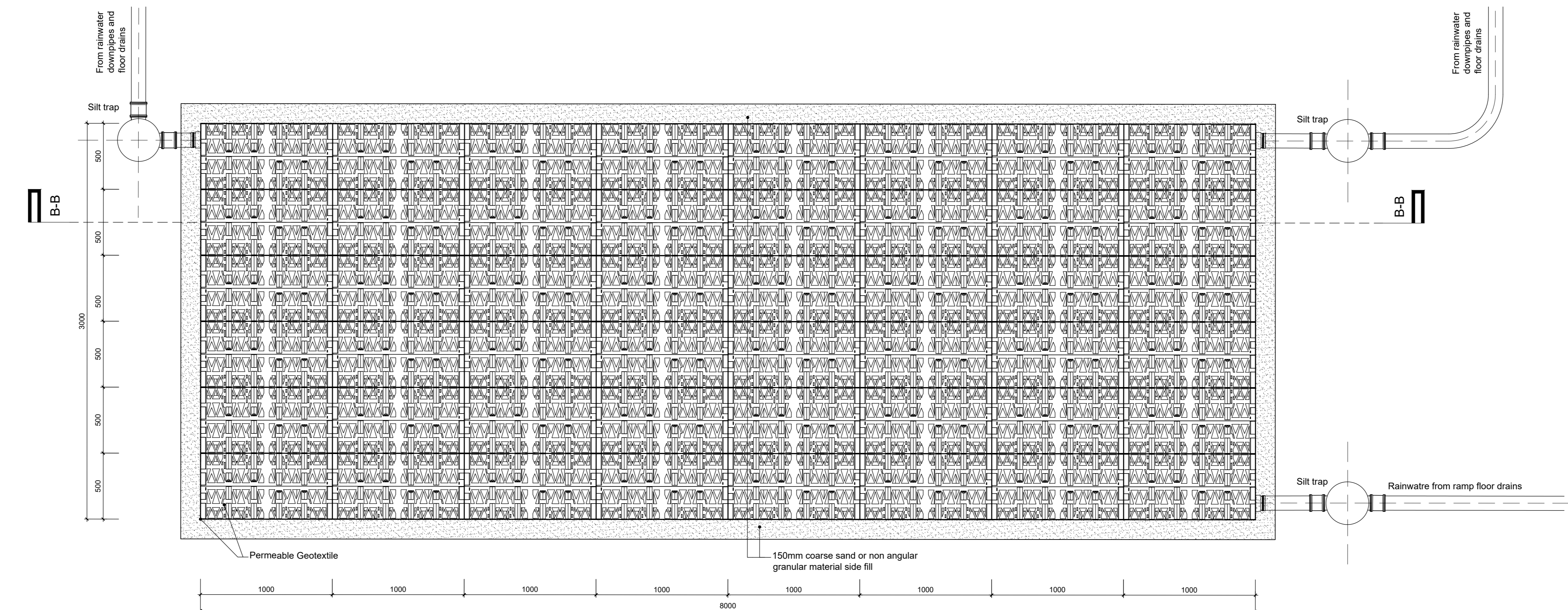


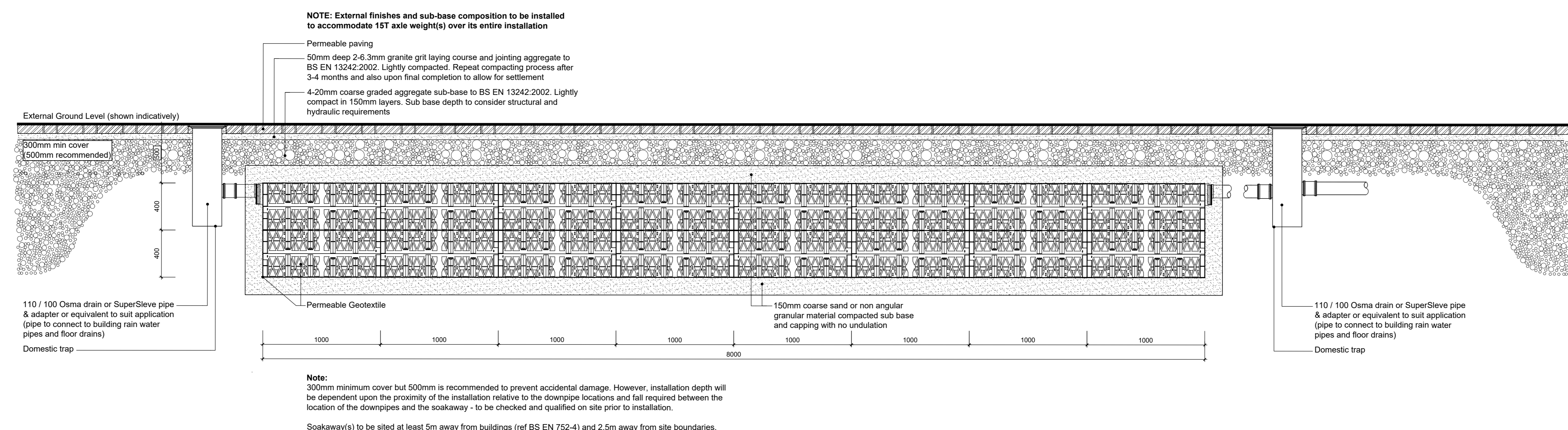
01- End of Private Drive Proposed Scope of Soakaway in Plan (Scale 1:20 @ A0)



02- End of Private Drive Section A-A Proposed Scope of Soakaway (Scale 1:20 @ A0)



03- Proposed Dwelling and Pedestrian Ramp Scope of Soakaway in Plan (Scale 1:20 @ A0)



04- Proposed Dwelling and Pedestrian Ramp Section B-B Scope of Soakaway (Scale 1:20 @ A0)

Notes

- The existing building has drawn by a third party and has been prepared for our client as part of a full measured survey. Considerable attention to the dimensions of any proposed works must be applied, taking site dimensions and templates as necessary. All dimensions are to be verified on site prior to any commencement of works.
- While this drawing can be used as a base drawing for construction purposes, it is very important that all dimensions are checked carefully before any work commences or any materials are ordered. Your builder may require more information and it is therefore important to discuss with him this in greater detail.
- Report all errors and discrepancies promptly to the employer prior to proceeding with the works.
- Do not scale from this drawing. Figured dimensions to be worked to in all cases.
- The contractor is responsible for checking dimension, tolerances and references.
- All structural information to be taken from the engineer's drawings.
- It is the responsibility of the client to ensure that all appropriate planning approvals have been obtained and that the works are undertaken with the conditions set out within.
- All relevant party wall agreements are to be entered into and agreed between owners prior to commencement of works.
- All build over agreements with utility companies to be agreed and approved prior to works on site.
- Unless other arrangements have been specifically made, your building contractor should serve a Building Notice, as and where applicable, to your local authority to satisfy the of the Building Regulations. Your building contractor should also liaise with the Building Control Officer regarding routine inspections of the work.
- Storm water and drainage strategy shown indicatively for design intent purposes only. Strategy and details to be developed further by a specialist

Soakaway Calculations

Proposed Dwelling and Pedestrian Ramp:

Calculation Parameters

- Soakaway capacity to hold a maximum daily rainfall of 40mm as referenced from BRE 356 Figure 1.0
- Storage depth to be minimum 1.0m
- Soakaway to be based on a proprietary storage cell unit(s)

Volume required = design area x rainfall (0.040)

RF1 area = 54.2m <sup>2</sup> (on plan)	
RF2 area = 23.6m <sup>2</sup> (on plan)	
RF3 area = 8.2m <sup>2</sup> (on plan)	
RF4 area = 113.2m <sup>2</sup> (on plan)	

RF1, RF3 and RF4 are pitched roofs at 50°  
= plan area x 1.5557 (pitch factor)

RF2 is a flat roof therefore no pitch factor to be accounted for.

RF1 area 54.2m <sup>2</sup> x 1.5557	= 84.32m <sup>2</sup>
RF3 area 8.2m <sup>2</sup> x 1.5557	= 12.76m <sup>2</sup>
RF4 area 113.2 x 1.5557	= 176.11m <sup>2</sup>
Plus RF2 flat roof area	= 23.6m <sup>2</sup>

**Total roof area = 296.79m<sup>2</sup>**

296.79m<sup>2</sup> x 0.040 (daily rainfall as defined within BRE 355) = 11.8716m<sup>3</sup>

Additional catchment area (pedestrian ramp and hardstanding area(s) = 347m<sup>2</sup> (rounded to 350m<sup>2</sup>))

Assume 2m<sup>3</sup> per 100m<sup>2</sup> of hardstanding area. Therefore 3.5 x 2m<sup>3</sup> = 7m<sup>3</sup>

Total rainwater = 11.8716m<sup>3</sup> x 7m<sup>3</sup> = 18.8716m<sup>3</sup>

Preformed storage cells 1.0 x 0.5 x 0.4 = 0.2m<sup>3</sup>

18.8716m<sup>3</sup> / 0.2 = 94.358 therefore 95 cells shall be required to soakaway adjacent to proposed dwelling. Rounded up to 95

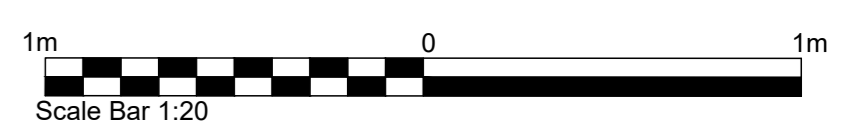
Base of Private Driveway:

Calculation Parameters

Driveway catchment area = 385.4

Assume 2m<sup>3</sup> per 100m<sup>2</sup> of hardstanding area. Therefore 3.85 x 2m<sup>3</sup> = 7.7m<sup>3</sup>

7.7m<sup>3</sup> / 0.2 = 38.5 therefore 39 cells shall be required rounded up to 40.



Client: Mr D Moffet

Project: Land to Rear of 32 Church Street, Weston, Corky

Drawing: Proposed Soakaway Details

Prepared For Information: [blank] Drawn: JR  
Scale: As Indicated @ A0 Date: 08.03.2024  
Drawing: 280021 Revision: 1