

Our Ref: PEF/SD/30253

2 January 2019

By E-Mail: [REDACTED] only

Mr D. Keet
Meadow View
Barnham
Bognor Regis
West Sussex
PO22 0BT

Dear Mr Keet

Meadow View, Barnham Soakage Test

Further to my site investigation undertaken on 20 December 2018, please find herewith the following information:

- Trial Pit Location Plan
- Trial Pit Logs TP1, TP2 and TP3
- Marked-up Drawing STD-01-63 – Proposed Soakaway (2 No.)

Local soils were found to have poor soakage potential, with an infiltration rate of 0.0181m per hour (5.02×10^{-6} m/s).

To serve the new house roof (310m²) at Meadow View, a high storage soakaway sized 14m long x 4m wide x 0.8m total depth will be required for a 1: 100 year storm event, plus 40% for climate change. To serve the garage roof (120m²), a high storage soakaway sized 7m long x 3m wide x 0.8m total depth will be required for the storm event noted above. The exact layout of the soakaways should be agreed with me after the groundwater level monitoring has been completed. The soakaway storage volumes though at 22.4m³ and 8.4m³ should not change.

The soakaways could be installed as one of the last operations of the build, such that the groundwater level monitoring can be completed. Ideally, the monitoring should be undertaken every two weeks between December and March.

I trust that this drainage information is sufficient for now, however should you have any questions or queries please do not hesitate to contact me.

Yours sincerely

[REDACTED]
Philip Faulkner EngTech MICE
for ARCHIBALD SHAW

Enc

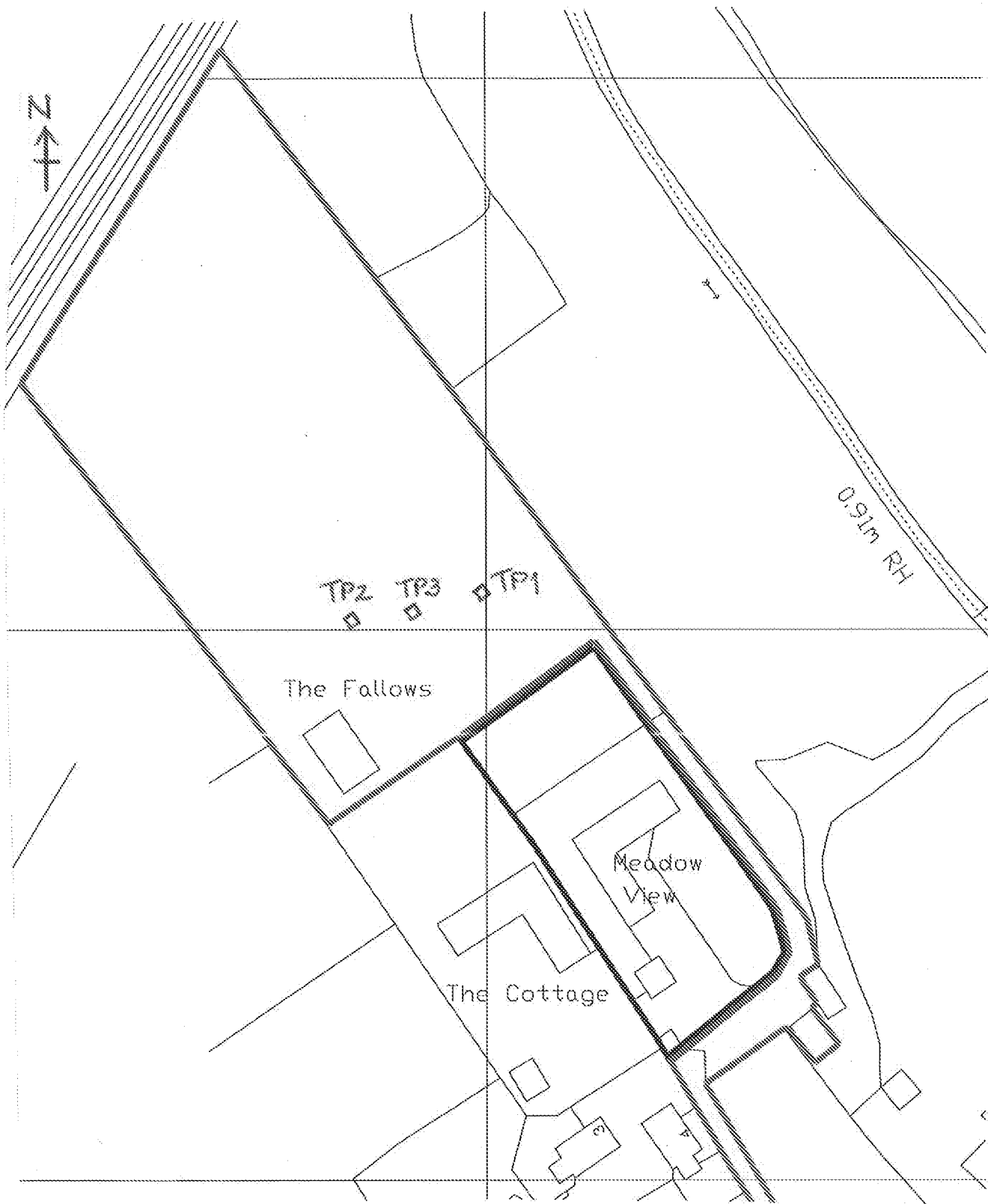
cc: Stephen Jupp (ste [REDACTED] only
Vince Carpenter, [REDACTED]

For/To: Jon Lord BEng (Hons)
Ian Sheppard BEng (Hons) CEng MInstCE
For/By: Vincent Carpenter BSc (Hons) CEng MICE FCIWEM MASH MASH

Associated: Neil Gribham CEng MInstCE
Neil Stanaway BEng (Hons) CEng MInstCE

Consultants: Peter Wilkett CEng FInstCE
Jonathan Rains BSc CEng MICE
Lawrence Jupp BSc (Hons) CEng MInstCE

Archibald Shaw LLP uses the word 'Partner' to refer to a Member of the LLP



NOTES

- 1 This drawing to be read in conjunction with all relevant Architect's, Client's and Engineer's reports, drawings and specifications.

REV	DESCRIPTION	DATE
Archibald Shaw 		
Consulting Civil & Structural Engineers One Little London Colchester Road Essex PO16 1PF Telephone: 01243 726471 Facsimile: 01243 778348 info@archibaldshaw.co.uk www.archibaldshaw.co.uk		
PROJECT		
Meadow View, Barnham		
SECTION		
Trial Pit Location Plan		
DRAWN BY	CHECKED BY	DESIGNED BY
PF	-	PF
SCALE @ A4	DATE	STATUS
1:1000 approx	Dec. 2018	Preliminary
JOB NO.	DRAWING NO.	REVISION
30253	Figure 1	P1



Excavation Method Trial pit was machine excavated by a JCB	Dimensions Pit sizes not recorded	Ground Level (mOD)	Client Danny Keel	Job Number 30253
	Location See Location Plan	Dates 10/12/2018	Engineer Archibald Shaw	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Grass over TOPSOIL		
					(0.30)			
					0.30	Orange/brown, silty, very sandy CLAY, with some flint gravel		
					(0.60)			
					0.90	Firm, brown CLAY		
					(0.60)			
					1.50	Complete at 1.50m		

Plan

Remarks

Groundwater found at 1.3m depth.

Scale (approx)	Logged By	Figure No.
1:20	PEF/SD/30253	30253.TP1



Excavation Method
Trial pit was machine
excavated by a JCB

Dimensions
Pit sizes not recorded

Ground Level (mOD)

Client
Danny Keet

Job
Number
30253

Location
See Location Plan

Dates
10/12/2016

Engineer
Archibald Shaw

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Grass over TOPSOIL		
					(0.30)			
					0.30	Orange/brown, silty, very sandy CLAY, with some flint gravel		
					(0.70)			
					1.00			
					(0.20)	Firm, brown CLAY		
					1.20			
						Complete at 1.20m		

Plan

Remarks

Groundwater found at 1.2m depth.
Piezometer tube installed in pit.

Scale (approx)

1:20

Logged By

PEF/SD/30253

Figure No.

30253.TP1



Excavation Method
Trial pit was machine
excavated by a JCB

Dimensions
Pit sizes not recorded

Ground Level (mOD)

Client
Danny Keet

Job
Number
30253

Location
See Location Plan

Dates
20/12/2018

Engineer
Archibald Shaw

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Grass over TOPSOIL		
					(0.30)			
					0.30	Orange/brown, silty, very sandy CLAY, with some flint gravel		
					(0.60)			
					0.90	Complete at 0.90m		

Plan

Remarks

Soakaway test undertaken.
Soil infiltration rate = 5.02×10^{-6} m/sec.

Scale (approx)

1:20

Logged By

PEF/SD/30253

Figure No.

30253.TP1

50th August 1944
(House)

Notes

1. All dimensions are in millimetres.
2. For dimensions of soakways refer to schedules on contract specific drawings.

3. HR400 B125 covers are suitable for the following locations :

- A) Verges
B) Footways / Pedestrian Areas
C) Car Parks

4 Units shall be Aquacell by Wavin, or equivalent
contact wavin tel : 01249 756500

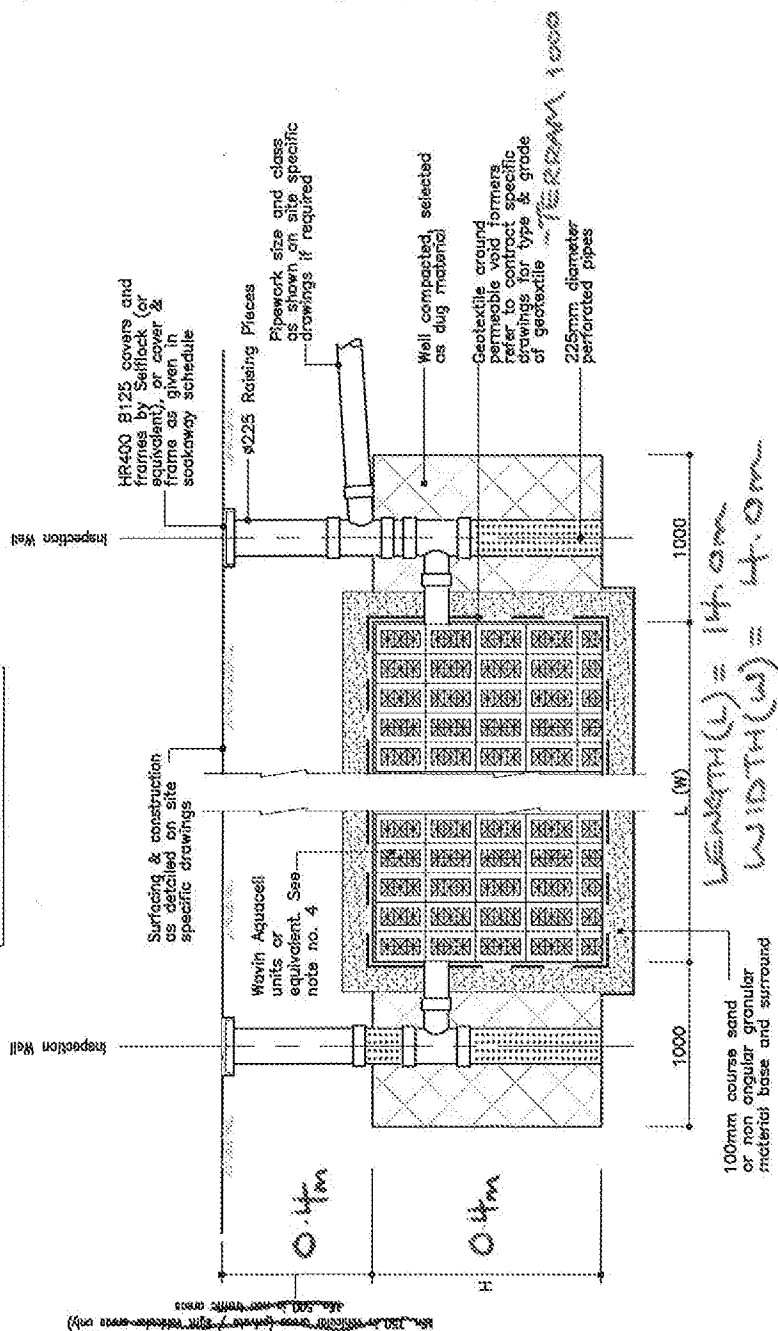
- | | Aquacell Core (Blue Units) | Aquacell Plus (Light Blue Units) | Aquacell Eco (Black Units) |
|--|----------------------------|----------------------------------|----------------------------|
| Tr trafficked areas to a total depth of 4.1m | - | - | - |
| Tr trafficked areas 4.1 to 4.8m total depth | - | - | - |
| Non - trafficked areas/ landscaped areas up to a total depth of 1.3m | - | - | - |

- Non ~ trafficked areas/
landscaped areas
1.5 to 4.3m total depth

5 Units shall be laid fully in accordance with manufacturers instructions.

5 All details shall otherwise be in accordance with The Department of Transport Specification for Highway Works, 7th Edition.

7 Prior to acceptance, the contractor shall submit to the engineer supporting calculations as to the load carrying capacity of the storage units, and the predicted long term fill settlement under dead and live load.



Typical Section

SOMEWAYS SHALL BE SUFFICIENT
ANY BUILDING OR STRUCTURES

DATE	DESCRIPTION	AMOUNT
22-06-11	C NOTE No. 4 UPDATED.	
03-12-09	B NOTE No. 7 ADDED.	
15-05-08	A NOTE No. 4 UPDATED.	

S

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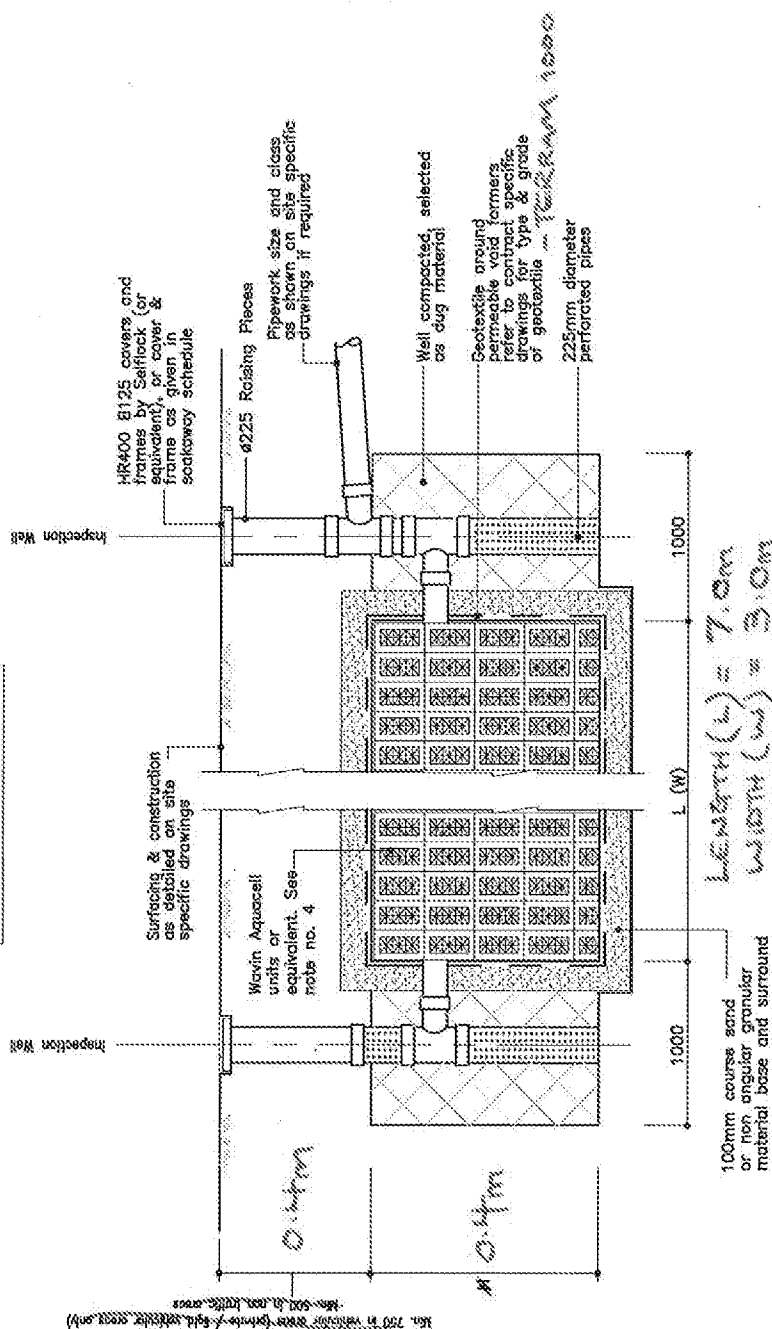
Standard Detail
High Storage Soakaway

ORIGIN BY	DESIGNED BY
R.L.	R.L.
SCALE	DATE
N.T.S.	MAY 03
SHEET NO.	
REVISED	
STD 0163	
C	

Notes

- 1 All dimensions are in millimetres.
- 2 For dimensions of soakways refer to schedules on contract specific drawings.
- 3 HR400 B125 covers are suitable for the following

WARNING:
For Industrial / H.G.V. Areas
Refer to Engineer's Details



Typical Section

COX AND WYSE SHALL BE SAVED FROM
ANY BUILDINGS OR STRUCTURES

- 5 Units shall be laid fully in accordance with manufacturers instructions
- 6 All details shall otherwise be in accordance with the Department of Transport Specification For Highway Works, 7th Edition.
- 7 Prior to acceptance, the contractor shall submit to the engineer supporting calculations as to the load carrying capacity of the storage units, and the predicted long term fill settlement under dead and live load.

Q	NOTE No. 4 UPDATED.	32-08-11
P	NOTE No. 7 ADDED.	03-12-08
A	NOTE No. 4 UPDATED.	18-05-05
001	120-00000000	5075

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E-mail: info@cnr.ca Website: www.cnr.ca

PROJECT
Standard Detail
High Storage Seaway

CHECKED BY R.L.	DESIGNED BY R.L.
PREF	
☒ DATE	
MAY 03	
N.T.S.	
STD NO.	RESUMEN
STD 0163	C