



1. Soakaway design is based upon an infiltration rate of 7.85×10^{-5} m/s from field testing in the chalk. Soakage zone is no greater than 2m into the chalk.
2. Soakaway design accommodates 1 in 100 year storm RP plus 30% for climate change.
3. Highway soakaways HSA1 and HSA2 are to be constructed in accordance with the requirements of Kent Highways all as drawing KCC/SD/500/003.

SOAKAWAY 1 (1.7m wide x 32.5m long x 2m effective depth)
 Contributing area:- Roof area 1547
 Pavement area 1237
 Total = 2784m²
 Lowest CL = 18.50m
 Max Water Level for 100yr RP + 30% = 18.40m (120min winter)

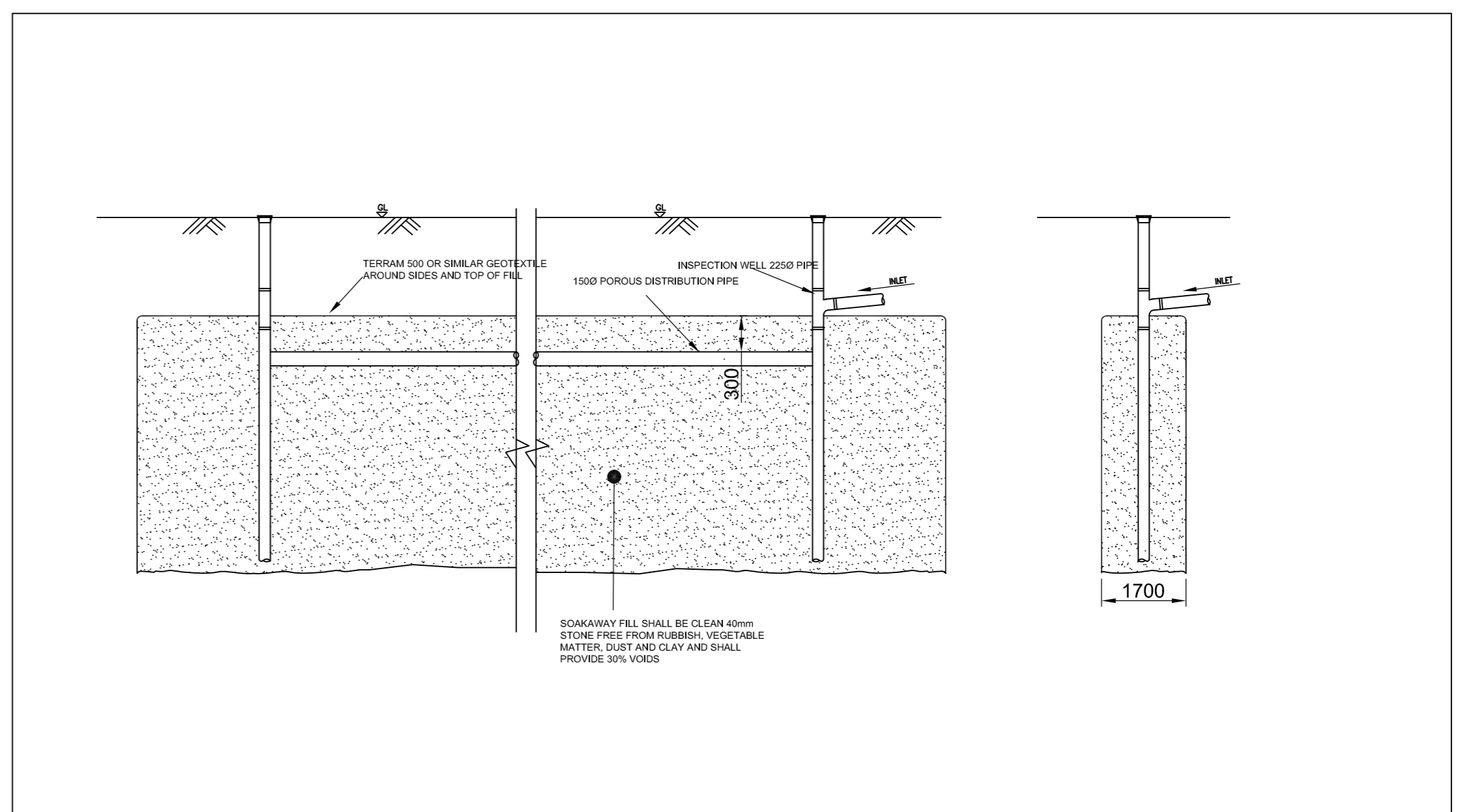
SOAKAWAY 2 (1.7m wide x 14m long x 2m effective depth)
 Contributing area:- Roof area 410
 Pavement area 775
 Total = 1185m²
 Lowest CL = 18.15m
 Max Water Level for 100yr RP + 30% = 17.91m (120min winter)

SOAKAWAY 3 (1.7m wide x 20m long x 2m effective depth)
 Contributing area:- Roof area 1165
 Pavement area 488
 Total = 1653m²
 Lowest CL = 18.15m
 Max Water Level for 100yr RP + 30% = 18.05m (120min winter)

SOAKAWAY 4 (1.7m wide x 14m long x 2m effective depth)
 Contributing area:- Roof area 1937
 Pavement area 722
 Total = 2659m²
 Lowest CL = 18.15m
 Max Water Level for 100yr RP + 30% = 17.91m (120min winter)

HSA1 3.0mØ in 5.1m x 5.1m pit (1.5m soakage depth)
 Contributing highway area = 830m²
 Max water level for 1yrRP + 30% = 15.69m (360 winter)
 Max water level for 30yrRP + 30% = 17.69m (240 winter)
 Max water level for 100yrRP + 30% = 19.30m (240 winter)

HSA2 3.0mØ in 4.5m x 4.5m pit (1.5m soakage depth)
 Contributing highway area = 756m²
 Max water level for 1yrRP + 30% = 15.73m (360 winter)
 Max water level for 30yrRP + 30% = 17.67m (240 winter)
 Max water level for 100yrRP + 30% = 19.12m (240 winter)



- KEY**
- Tanked permeable paving
 - Trench Soakaway founded 1m into chalk
 - Highways Soakaway (Rings)
 - Tree protection fencing

Use figured dimensions only. Do not scale from drawing.
 All levels and dimensions are to be checked on site.
 This drawing is to be read in conjunction with all relevant documents.
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NOTES

PRELIMINARY

Rev.	Date	Revision	By	Chk
E	01.02.17	SOAKAWAYS 3&4 RESIZED AND DETAIL AMENDED	JAS	AB
D	01.12.16	TREE PROTECTION FENCING ADDED & SOAKAWAYS AMENDED TO SUIT	JAS	AB
C	25.11.16	SOAKAWAYS AMENDED TO TRENCH SOAKAWAYS	JAS	AB
B	28.07.16	ARCHITECTS LAYOUT UPDATED, ROUNDABOUT DRAINAGE SHOWN FOR CLARIFICATION AND CHALK DEPTHS ANNOTATED	JAS	AB
A	05.02.16	PERMEABLE PAVING EXTENTS SHOWN	JAS	AB
/	03.11.15	PRELIMINARY ISSUE	JAS	AB

Client **PENTLAND HOMES**

Project **HOLLOW LANE CANTERBURY**

Title **SUDS DRAINAGE OVERALL SITE PLAN**

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SCALE 1:500 DRAWN JAS
 DATE OCT 15 CHECK AB

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