

once
consultant engineers

4 Bridgecourt Office Park
Walkinstown Avenue
Dublin 12 D12 Y981

Tel: 01 426 4883 / 429 7971

Email: mail@once.co

Web: once.co

SOAKAWAY DESIGN

TO BRE 365

*29 Springfield Road
Templeogue Village
Co Dublin
D6W EK59*

Date: 04th July 2022

Contents

1.0 Infiltration Design2

1.0 Infiltration Design

Test pit details

Reference = TP01; Length = 0.75 m; Breadth = 0.75 m; Depth = 1.5m

Depth of water at start = (Shown below)

(Refer to Figures 1-4)

Test data

Test 1

| Date | Time | Depth (mm) |
|------------|-------|------------|
| 21/06/2022 | 19.36 | 1,150 |
| 21/06/2022 | 20.05 | 980 |
| 21/06/2022 | 20.38 | 940 |
| 21/06/2022 | 21.08 | 890 |
| 21/06/2022 | 21.41 | 860 |
| 21/06/2022 | 22.12 | 840 |
| 22/06/2022 | 07.15 | 500 |
| 22/06/2022 | 09.34 | 460 |
| 22/06/2022 | 12.20 | 450 |
| 22/06/2022 | 17.29 | 450 |

Test 2

| Date | Time | Depth (mm) |
|------------|-------|------------|
| 22/06/2022 | 18.40 | 1,200 |
| 22/06/2022 | 19.57 | 990 |
| 22/06/2022 | 20.56 | 910 |
| 22/06/2022 | 22.15 | 850 |
| 23/06/2022 | 07.49 | 510 |



Figure 1



Figure 2



Figure 3



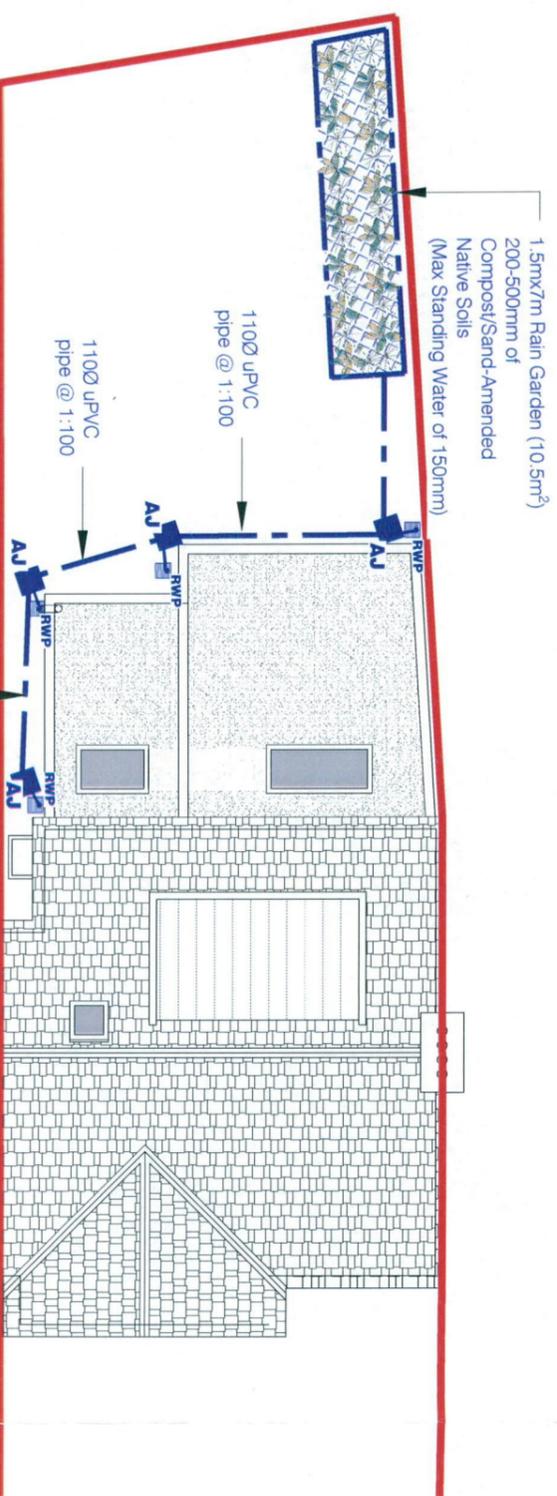
Figure 4

2.0 Conclusion

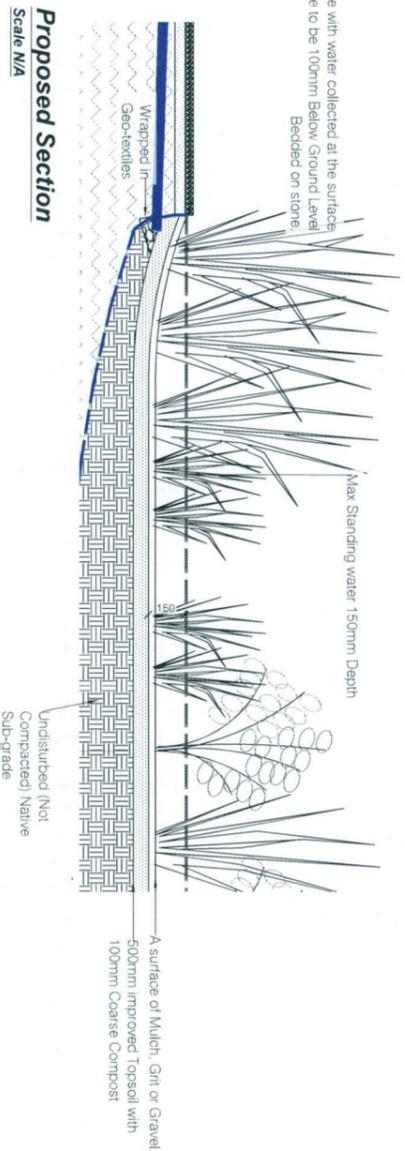
From the test data, we can determine the infiltration rate from the property is too slow and failed the percolation test and is, therefore, insufficient for the proposed development. The site is deemed unsuitable for the use of a soakaway. Alternative SuDs methods will be applied to the proposed development

NOTES:

- This drawing to be read in conjunction with all relevant Architects and Engineers drawings.
- Do not scale drawings.**
- All dimensions in millimeters unless otherwise stated.
- All building works to comply with current building regulations.
- All Foul & Surface Water Drainage To BS 4514 / I.S. EN 1329-1
- All levels to OD Main Head



Proposed Drainage Layout
Scale 1:75



Proposed Section
Scale N/A

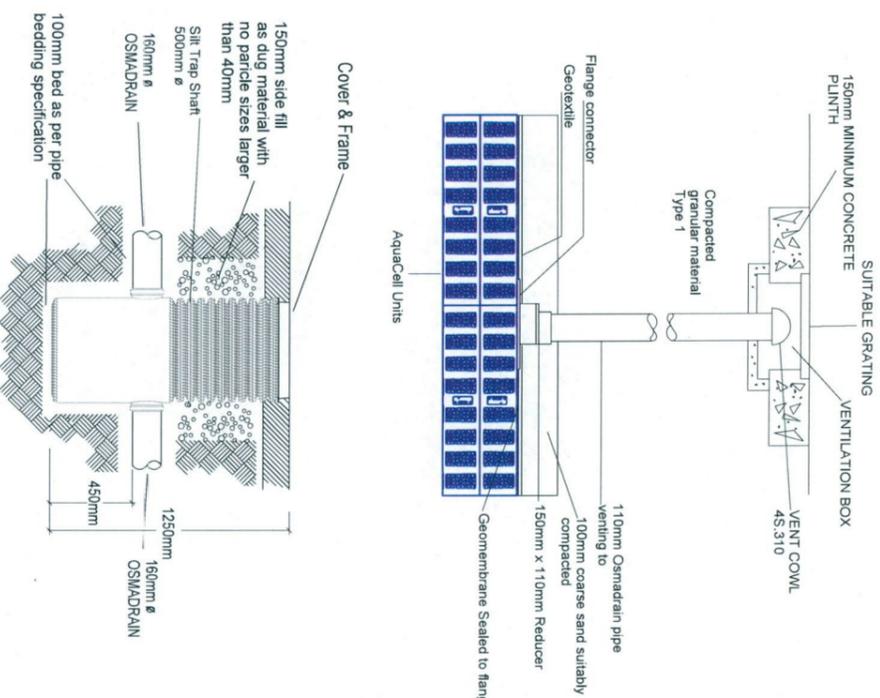
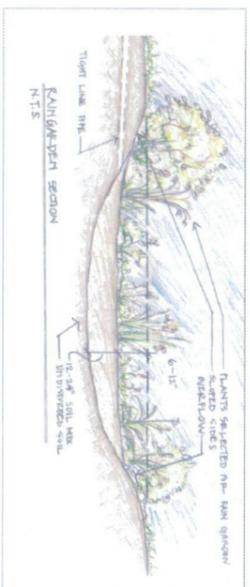
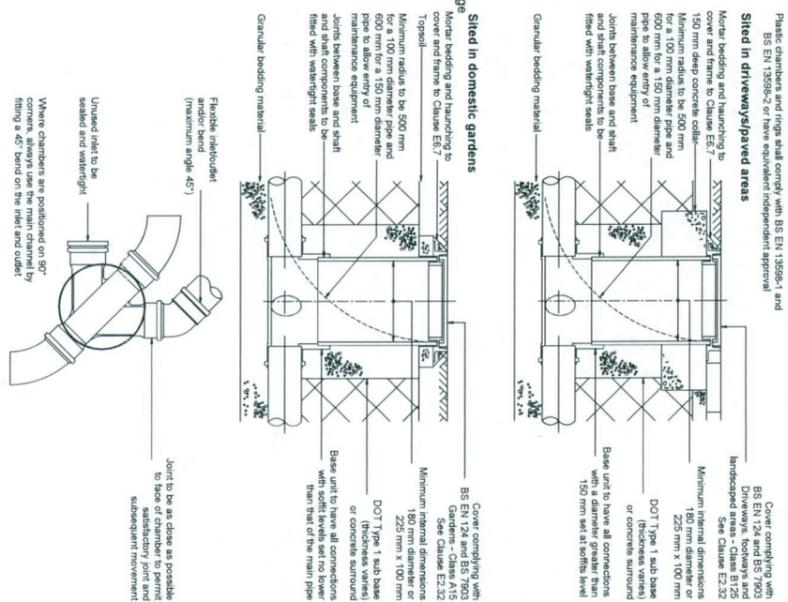


FIGURE B.21
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4 (Flexible material detail)
Maximum depth from cover level to soffit of pipe 2 m, non-entry



LEGEND:

- Denotes new surface water manhole
- Denotes new surface water access junction
- Denotes new surface water line
- Denotes RWP + BIGT
- Denotes permeable paving
- Denotes road gully
- Denotes new foul water manhole
- Denotes new foul water access junction
- Denotes new foul water inspection chamber in accordance with Irish Water STD-WM-13
- Denotes new foul water line
- Denotes BIGT
- Denotes new 1000 P-F watermain
- Denotes existing uPVC watermain
- Denotes new boundary box water meter
- Denotes sluice valve
- Denotes duck foot fire hydrant
- Denotes air valve
- Denotes washout

| | | | | | |
|-----------------------|-----------|-----------------|-------------|----------------|-----------------------------------|
| Scale: | A1, Shown | Client: | Paras Flynn | Job Title: | 29 Springfield Road |
| Date: | JUN22 | Drawing number: | 5620/01 | Drawing Title: | DRAINAGE LAYOUT & TYPICAL DETAILS |
| Revisions/Description | Date | Drawn | Checked | | |
| | | | | | |
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