TYPICAL INFILTRATION SYSTEMS

be tailored for infiltration or tanked according to requirements. There are four basic systems designs (see below). Each design can

Infiltration

The system is underlaid with a pervious geotextile membrane (Inbitex®) and is suitable for use where it is proposed to infiltrate the water directly into a suitable subgrade.

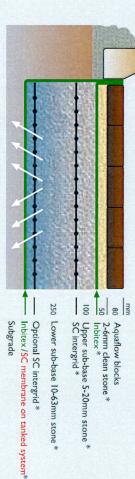
Tanked

The system is underlaid by an impervious plastic membrane (SC membrane) and is suitable for use where it is proposed to attenuate storm water before releasing it in a controlled manner, harvest the water for re-use or where difficult or contaminated sub-grades are encountered.

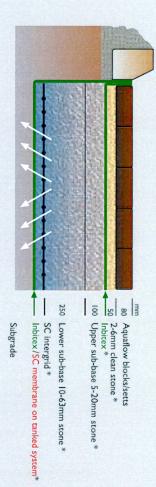
The type of membrane used and the method of sealing will depend upon the application. In some circumstances, the membrane will require additional protection from puncturing and specialist advice should be obtained.

The impervious membrane restricts water entering the subgrade and preserves sub-grade structural integrity. This is very important where clay subgrades are encountered

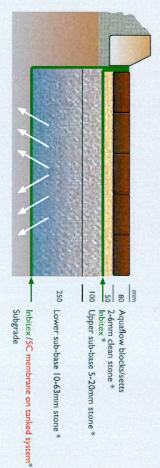
Typical Infiltration system Areas subject to trafficking by HGV's



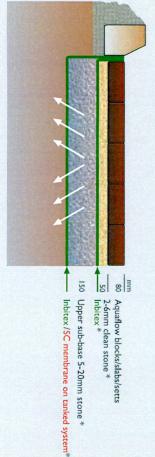
Typical Infiltration system with a sub-grade CBR of between 2-5% Parking areas subject to trafficking by cars and vans only



Typical Infiltration system with a sub-grade CBR of 5% or greater Parking areas subject to trafficking by cars and vans only



Typical footpath construction For Aquaflow



Soakaway Infiltration Test

Project No.: 21-1340

Esker ETNS

Test Location: TPP01B

Test Date: 01 December 2021

width (m) length (m)

test pit top dimensions 0.35 0.35 0.851.00

test pit depth (m) 1.50

test pit base dimensions

	60	45	30	20	15	10	8	6	4	2	1	0	time (mins)			
	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.23	(m)	water surface	depth to	
	1.25	1.25	1.25	1.25	1.25	1.26	1.26	1.26	1.26	1.27	1.27	1.27	(m)	water in pit	depth of	

Analysis using method as described in BRE Digest 365 and CIRIA Report C697-The SUDS Manual

CAUSEWAY GEOTECH

depth to groundwater before adding water (m) = Dry

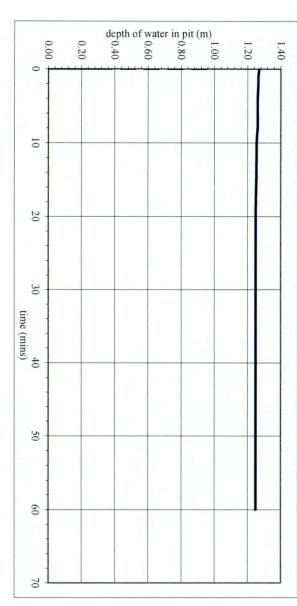
From graph below:

test start - 75% depth at 0.9525 m water depth time is not determined

test end - 25% depth at 0.3175 m water depth time is not determined

infiltration rate (q) is very low

					0.3175	1.18	
					0.9525	0.55	
(m/h)	(m/min)	(m^2)	(m ³)	(mins)	(m)	(m)	(mins)
þ	p	base at 50% drop	water lost	elapsed	water in pit	water	time
		Area of walls and	volume of	time	depth of	depth to	



APPENDIX V Traffic



SECTION 1.0 ITEM 1.4

Short summary of consultations with the Statutory Authorities (and their requirements)

Schedule of Key Meetings in the Scheme Development to Date

Tracey McGibbon (Senior Planner SDCC) Brian Harkin (Water Drainage division SDCC) Yasir Khan (Roads Engineer SDCC) Evan Walsh (planner SDCC) Fionnuala Collins (Landscape architect SDCC) Stephen O'Shea (Project Architect, Oppermann Associates) Kevin Branagan (Associate, Oppermann Associates) Eamonn Collins (Project Engineer, Collins Boyd Engineers)	PRE-PLANNING MEETING (Online)	Meeting
7th September 2021	Date	Date Held

Notes taken at time of meeting:

- Generally, the proposal was welcomed.
- Include increased occupation numbers in planning application.
- 16m wayleave for large surface water drain. Note: Wayleave already allowed for.
- Flood maps to be referred to. Note: Flooding not expected to be an issue
- SuDs to be maximized.
- Existing trees to be protected and during construction phase.
- Tree survey and protection plan.
- Landscaping plan and details.
- Play area to be accessible.
- Car parking to be broken up with planting and SuDS.
- Soften concrete apron around bike/bin store with planting.
- Increased greening of area. Planting proposals will be required.
- Hammerhead turn at end of cark park.
- Provide no. of staff and proposed car parking numbers.
- 6m carriage width for parking (this is not possible currently).
- Bike parking to be provided in line with development plan.
- Construction management plan.
- Mobility plan.
- Traffic impact assessment plan not required
- Copying the existing elevational treatments. Planning application to confirm materials to be used on elevations.
- existing. To be confirmed in this application. We need to make sure we are in compliance with the previous planning conditions for the

APPENDIX VI Flood Mapping

