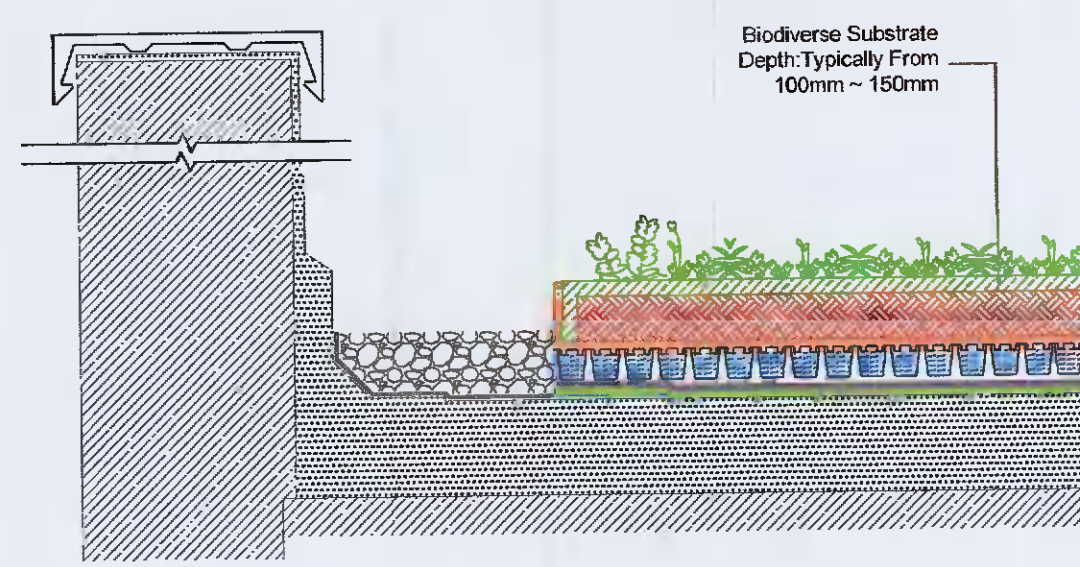


**Drainage Swale Detail at Broken Kerb Inlet**  
Scale 1:20



**Typical Green Roof Details**  
Scale 1:10

- Green Roof Key**
- Plug / Seed Mix Planting
  - Extensive / Biodiverse Substrate
  - Drainage Board
  - Filter Fleece
  - Protection Mat
  - PE Foil
  - Capping Sheet / Membrane
  - Deck / Substrate
  - 60mm Vegetation barrier
  - Drainage trim

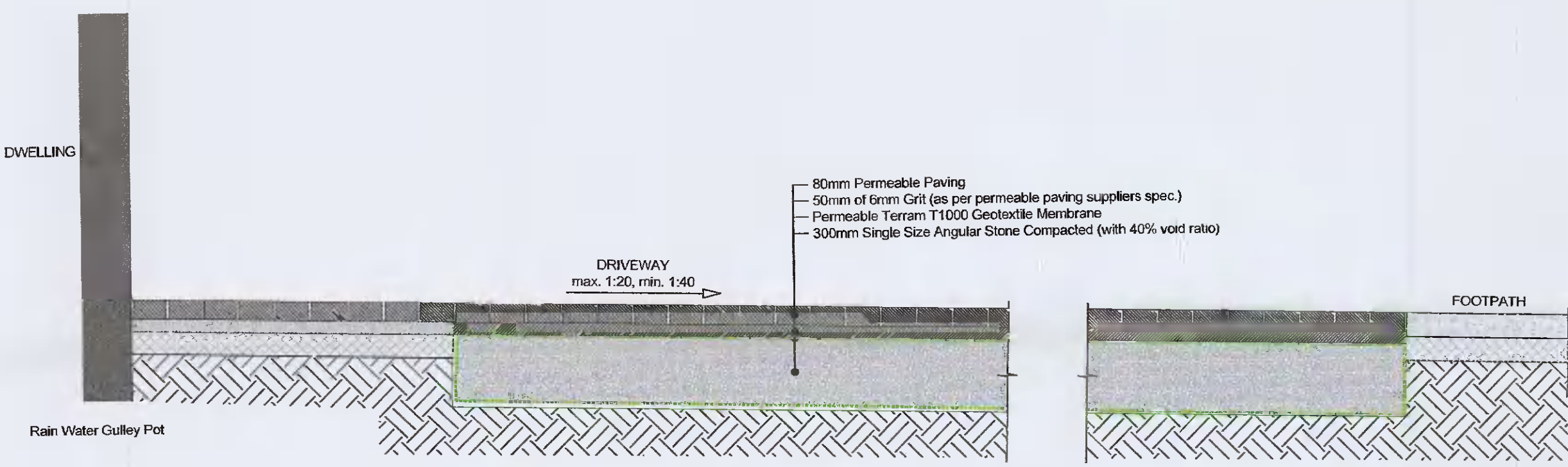


**Stormbreaker Defender**  
by BMS  
N.T.S.

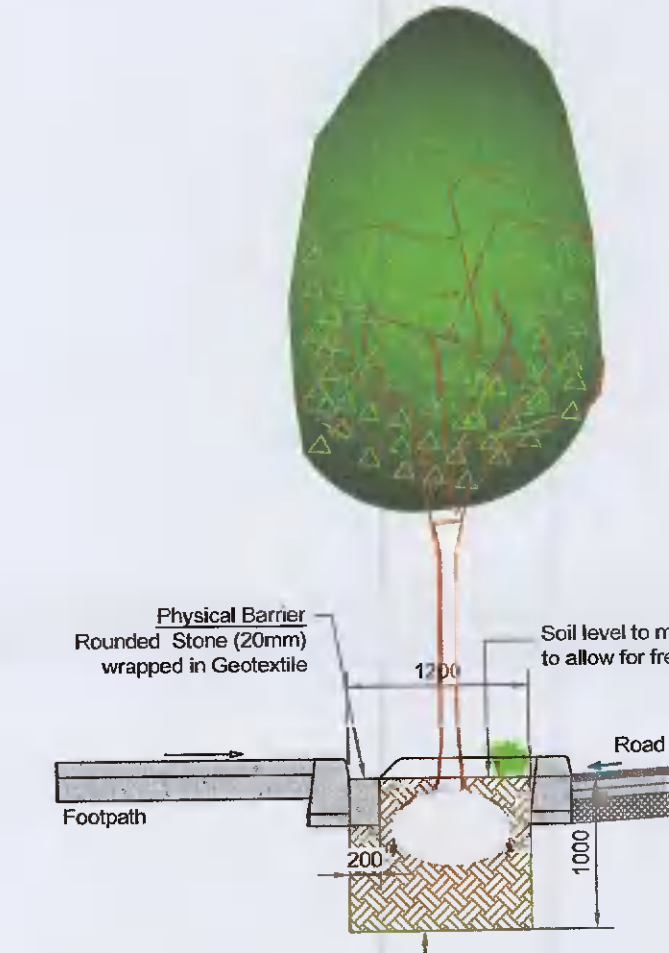
The BMS Stormbreaker Defender is a low footprint interceptor (separator) capable of removing silt, particles and floating pollutants such as oil/hydrocarbons/debris and contaminated settling solids from surfaces or storm water flows. It can also be used before drain discharges direct in water courses to prevent pollution from silt and floating debris such as plastic bottles, bags, rags, cigarette butts etc. It has no moving parts and utilises natural vortex flow hydrodynamics, has a unique internal geometry that removes silt/particles and captures floating pollutants/debris while minimising head-losses across the chamber. Effective heavy metal removal also takes place commensurate with particle size. It can be used upstream or downstream of surface water treatment systems such as attenuation or Sustainable Urban Drainage Systems (SUDS), ponds/reservoirs, holding tanks or before discharge to water courses as a means of pollutant removal.



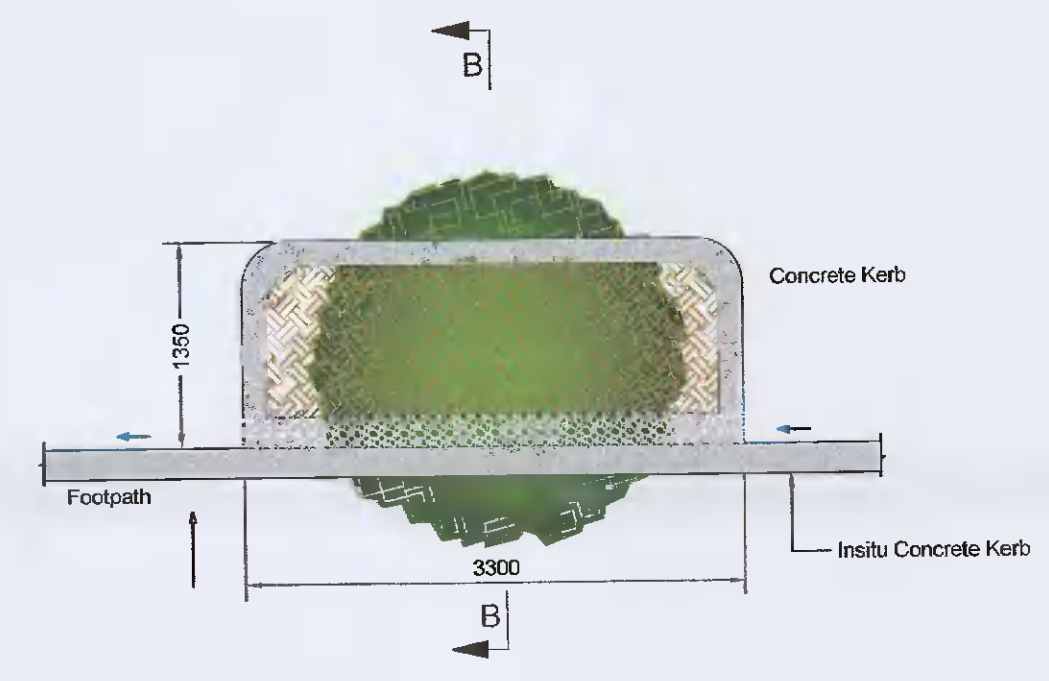
**Typical 220 litre Rainwater Butt**  
N.T.S.



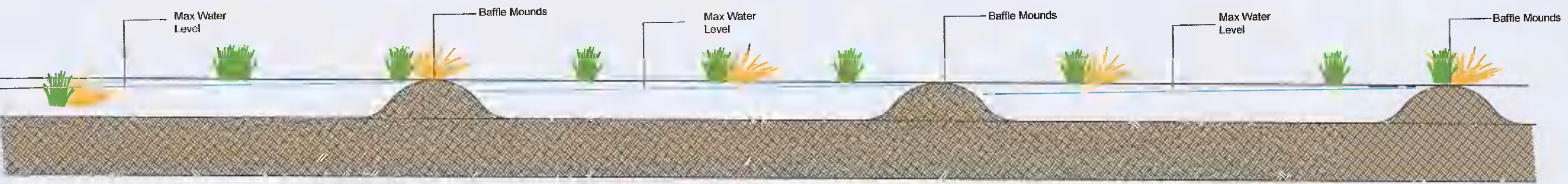
**Section at Permeable Paved Driveway**  
Scale 1:20



**Section B-B**  
Scale 1:50



**Typical Urban Soil Tree Pit at Roadside**  
Scale 1:50



**Typical Longitudinal Section - Drainage Swale**  
Scale 1:20

Project Title <b>PHASE 3 TUBBER LANE - ADAMSTOWN</b>		Drawing Title <b>SUDS &amp; DRAINAGE DETAILS</b>	
Architect <b>DAVEY &amp; SMITH ARCHITECTS</b>		Drawing Status <b>PLANNING</b>	
Date APR 2021	By AL	Checked PM	Scale @ A1 AS SHOWN
Job No. 20065	Drawing No. 115	Issue P1	

**poga** CONSULTING ENGINEERS  
STRUCTURAL & CIVIL  
Pat O'Gorman & Associates

Unit C2, Nutgrove Office Park  
Rathfarnham  
Dublin 14  
D14 CR20  
Tel +353 (0)1 205 1101  
www.poga.ie