

- Key:
- 50mm layer of pea gravel much 16/20mm to bioretention planter, angular limestone to approval to bioretention area
 - Soil level 50mm below adjacent pavement FFL
 - Overflow/cleaning access pipe to perforated drainage pipe discharging to drainage system to engineer's details.
 - 600mm deep Biofiltration soil filter material - sandy loam SuDS soil to specification (See Note 1).
 - Geotextile separation membrane Terram 1000 layer layed on sub-base
 - 200mm deep clean drainage stone layer to engineers details
 - Edge to resin bonded surface finish to architect specification and engineer's detail to finish flush and allow surface water to drain into biofiltration beds.
 - High density polyethylene sheet and dimpled membrane drainage system cut to suit on site and fitted to elevation/structure to manufacturers instructions. Membrane to be folded over top edge to prevent backfill material entering void. Tefond Drain Plus or equivalent approved.
 - Clipped hedge planted in accordance with specification refer to Soft Landscape Plan drawing Drg. No. 7004/300
 - Resin bonded surface construction to architect's specification
 - Herbaceous pollinator friendly seasonal perennial planting, refer to Soft Landscape Plan drawing Drg. No. 7004/300
 - Tree anchor by Platipus Anchor System RFI1PDMAN (o.s.e.a.) D-MAN Cells at the bottom of the pit installed to manufacturer's instructions
 - Rootball protection mesh, Plat-Mat by Platipus anchor system (o.s.e.a.)
 - Galvanised steel wire disc anchor points & two way ratchet tensioner with galvanised steel wire by Platipus anchor system (o.s.e.a.)
 - Espalier trees planted in accordance with specification, refer to Soft Landscape Plan drawing Drg. No. 7004/300
 - Herb planting in planter to specification, refer to Soft Landscape Plan drawing Drg. No. 7004/300
 - Multistem rootballed tree in planter, refer to Soft Landscape Plan drawing Drg. No. 7004/300
 - Limestone gravel mulch to top of planter 20mm angular chips at 50mm depth
 - Modular galvanised mild steel planter, with insert base panels, 2,400mm Long X 1,800mm Wide X 600mm Deep, in RAL 7016 (Anthraxite Grey) powder coated finish, assembled in site in accordance with manufacturer's instructions (Omos s21 planter or equivalent approved).
 - 3no. Precast concrete road kerbs, 145x125x900mm, placed evenly around base of planter as deadman anchors for rootballed tree. Splay deadmen to maximise anchoring performance.
 - Irrigation watering system with reservoir tanks and flexible connecting pipes on top of drainage layer, Mona Plant Irrigation Watering System Ring 77. (see Pic 1&2. tank dimension: 0.68m x 0.15m x 0.1m, holds up to 28L of water), or equivalent approved.
 - 80mm drainage layer of no fines pea gravel at base of planter overlaid with geotextile separation membrane Terram 1000
 - Upright filler pipe and water level assembly
 - Bench seat incorporated on long side of planter in steel in RAL 7016 (Anthraxite Grey) powder coated finish with Iroko hardwood seat, base plate fixed to cast insitu concrete foundation to manufacturer's recommendations and engineer's specifications, OMOs s96w steel bench with Iroko seat, or equivalent approved.
 - Pedestrian footpath on street to Architect's and Engineer's specifications.
 - Class 5A topsoil, fertilized with enrich compost or organic equivalent and farmyard manure & seeded to specification.



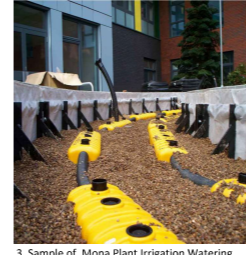
SUPPLIER OF PLANTER & BENCH:
Omos Ltd.
 Phone - 045 899802
 Email - info@omos.ie
<https://omos.ie/>
 Address:
 Units 1 - 3,
 Military Road Industrial Park,
 Naas, Co. Kildare,
 Ireland
 W91 TX28



1. Example of Mona Plant Irrigation Watering System - Ring 77 installed in a tree planter



2. Mona Plant Irrigation Watering System - Ring 77



3. Sample of Mona Plant Irrigation Watering System - Link 3 in curved shaped shrub planter

SUPPLIER OF MONA SYSTEM:
Green-tech
 Phone - 01423 369727
 Fax - 01423 332101
 Email - sales@green-tech.co.uk
<https://www.green-tech.co.uk>
 Address:
 Rabbit Hill Business Park
 Great North Road
 Arkendale
 WGS OFF, UK



4. Sample of Platipus Without Anchors Product code RFI1PDMAN

SUPPLIER OF D-MAN system:
Platipus Anchors System
 Phone: +44 (0)1737 762300
 Email: info@platipus-anchors.com
<https://platipus-anchors.com/>
 Address:
 Kingsfield Business Centre,
 Philanthropic Rd,
 Redhill RH1 4DP,
 United Kingdom



NOTE 1: Bioretention Filter Medium /Soil Specification

Horticultural assessment
 Potential bioretention soils and test results shall generally be reviewed by the landscape consultant to ensure that they are capable of supporting a healthy vegetation community. Any component or soil found to contain high levels of salt (as determined by EC measurements), high levels of clay or silt particles (exceeding the particle size limits set above), or any other extremes which may be considered retardant to plant growth shall be rejected.

Soil Performance Requirements

Saturated hydraulic conductivity (permeability)
 The saturated hydraulic conductivity shall be between 100 mm/h and 300 mm/h. This should be checked in situ, using the single ring infiltration test method as described in BS EN ISO 22282-5:2012.

Porosity
 The total porosity shall be > 30% when tested in accordance with BS 1377-2:1990).

Particle size distribution
 The filter medium shall be well-graded and well-mixed with min. following parameters:-

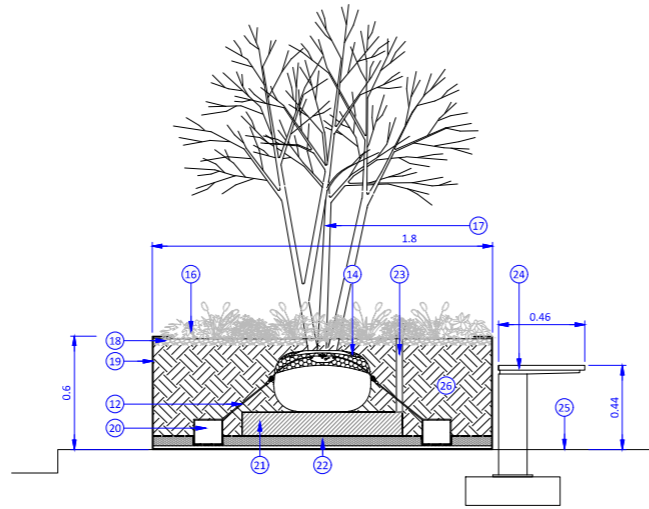
Sieve size (mm)	% Passing	Soil element
6	100	fine gravel
2.0	90-100	coarse sand
0.6	40-70	medium sand
0.2	5-20	fine sand
0.063	<5	clay and silt

Organic matter content
 Organic matter content should be 3-5% (w/w)

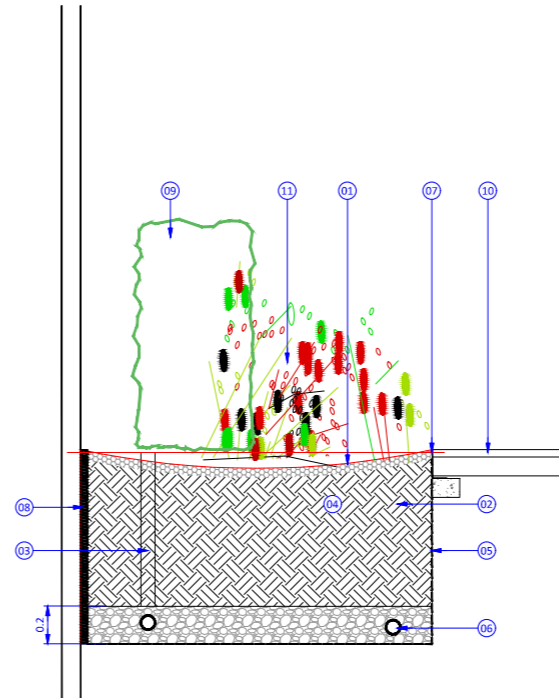
pH
 pH should be 5.5-8.5 (1:2.5 soil/water extract)

Electrical conductivity (salinity)
 Electrical conductivity (EC) shall be < 3300 µS/cm (1:2.5 soil/CaSO₄ extract)

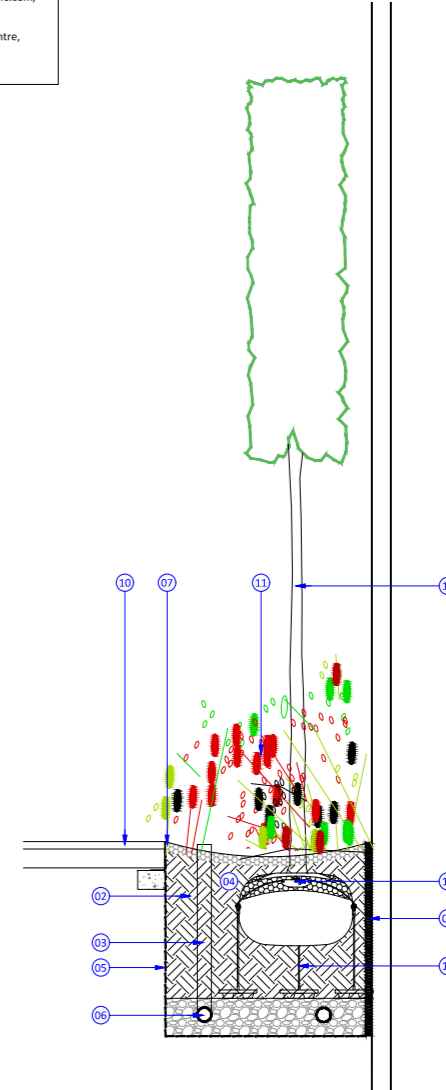
Major plant nutrients
 Total nitrogen should be 0.10-0.30%
 Extractable phosphorus shall be 16-100 mg/l
 Extractable potassium shall be 120-900 mg/l
 (Methods of analysis in accordance with BS 3882:2015, unless otherwise stated.)



01 Planter & Bench
 Section Scale 1:20



02 Biofiltration Bed (South)
 Section Scale 1:20

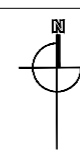


03 Biofiltration Bed (North)
 Section Scale 1:20

Rev	Date	Drawn	Checked	Description

Notes

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 Modified By: George Dundon Modified Time: 15/02/2024 4:23:57 PM
 Plot Time: 15/02/2024 4:27:02 PM



Project:	ASKEATON PARKLET, LIMERICK	Project No.:	7004
Dwg.:	TYPICAL SOFT LANDSCAPE DETAILS	Drawing No.:	7004/301
Scales:	1:20 @ A1	Status:	PLANNING
Date:	06/12/22	Drawn:	GD
Checked:		Passed:	

