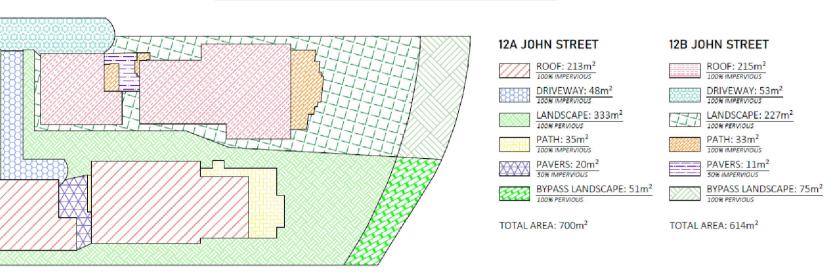
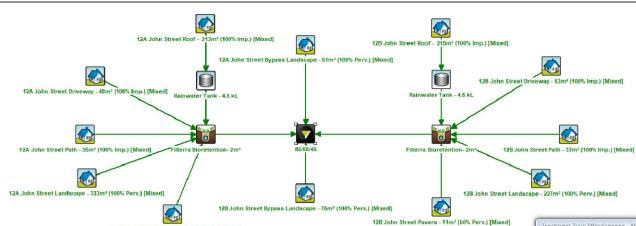


WSUD SITE AREA BREAK-UP 12A & 12B John Street, Avalon November 29, 2023





Flow (ML/yr)

2.0m2 BIORETENTION SYSTEM PLAN

Crest Bioswale Crest Bioswale to RL 2.0 to RL2.0 all round Ponded overflow all round to collect into 150mm sandy Service Pit 2 Geofabric line allround

Service Pit 2

sediment trap

BIOSWALE LONG SECTION

2x drainage pipes

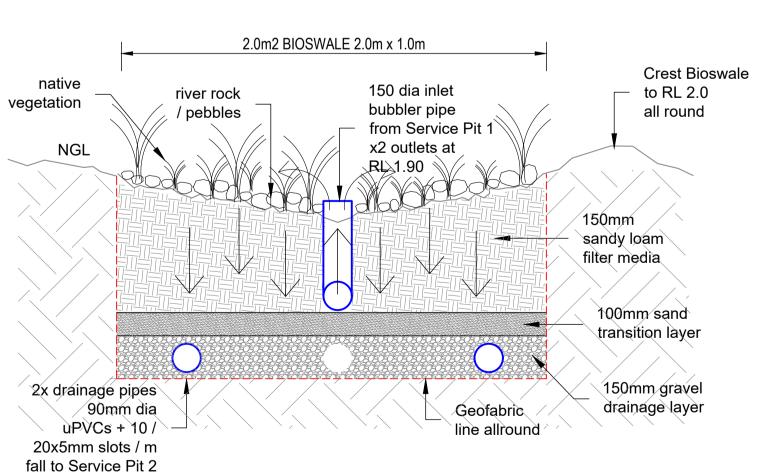
20x5mm slots / m

outlet to Service Pit 2

90mm dia

uPVCs + 10 /

drainage



CROSS SECTION

~ 1:20

. THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS. **BIORETENTION SYSTEM**

MUSIC MODEL SUMMARY

by OCEAN PROTECT MUSIC Version 6.3.0

Rainfall Station 66062 Sydney Observatory Hill, 6 Minute Time Step 1981 To 1985 utilizing modified % impervious area, rainfall threshold, soil properties & pollutant concentration

No drainage routing between nodes.

85% Total Suspended Solids Reduction

12B JOHN STREET

DRIVEWAY: 53m²

PATH: 33m²
100% IMPERVIOUS

PAVERS: 11m²
50% IMPERVIOUS

TOTAL AREA: 614m²

LANDSCAPE: 227m²

65% Total Phosphorus Reduction 45% Total Nitrogen Reduction

90% Gross Pollutant Reduction

Service Pit 2

MAXIMUM PIT PLAN DIMENSIONS 450mm x 450mm 600mm x 600mm

OCEAN PROTECT

OCEANGUARD

TYPCIAL ARRANGEMENTS SPECIFICATION DRAWING

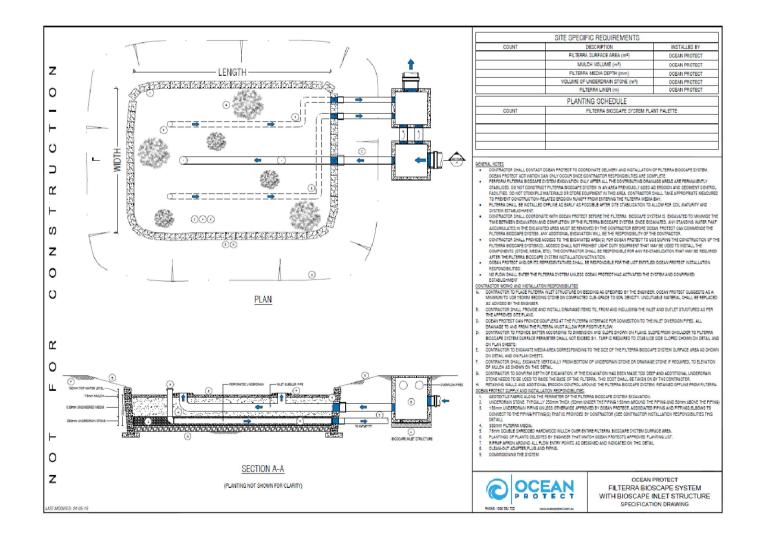
Crest Bioswale to RL 2.0 all round Ponded overflow to collect into Service Pit 2 vegetation Geofabric pegged into ground @ 600 cts Dispersion to creek Maixmesh screen over outlet (+handle) 150 dia uPVC 150mm dia uPVC with 10x5mm x20mm 300mm free slots / m

pipe to run between

pits, ~450mm below fsl

BIOSWALE OUTLET / DISPERSION TRENCH DETAIL

sediment trap



draining

aggregate

+ geofabric

FILTERRA BIOSCAPE SYSTEM

by OCEAN PROTECT

Prelim DA DA-A	22. 11. 2023 Issued for comment 23. 11. 2023 Issued for DA submission 30. 11. 2023 BioRetention data added	Barrenjoey Consulting Engineers ptyltd Stormwater Structural Civil PO Box 672 Avalon NSW 2107	PROJECT: PROPOSED NEW RESIDENCE	STORMWATER MANAGEMENT		Drawing No SW2DA-A
		M: 0418 620 330 E: lucasbce@bigpond.com ABN: 13124694917 ACN: 124694917	12B JOHN STREET AVALON	BIOSWALE PLAN & DETAILS	Barrenjoey Consulting Engineers pty ltd per Lucas Molloy MIEA CPEng NER Director	

