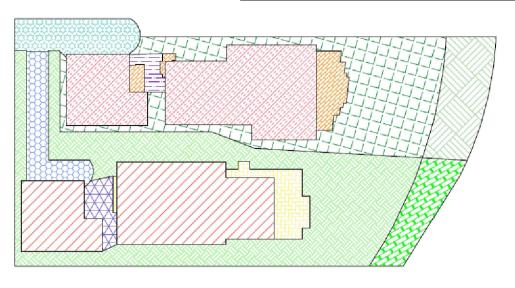
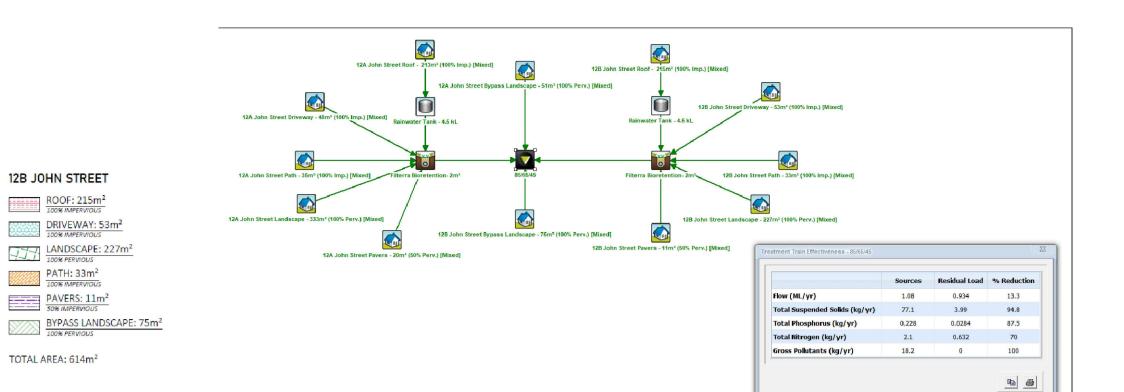


WSUD SITE AREA BREAK-UP 12A & 12B John Street, Avalon November 29, 2023





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.

12B JOHN STREET

LANDSCAPE: 227m²
100% PERVIOUS

PATH: 33m²
100% IMPERVIOUS

TOTAL AREA: 614m²

85% Total Suspended Solids Reduction

12A JOHN STREET

LANDSCAPE: 333m²
100% PERVIOUS

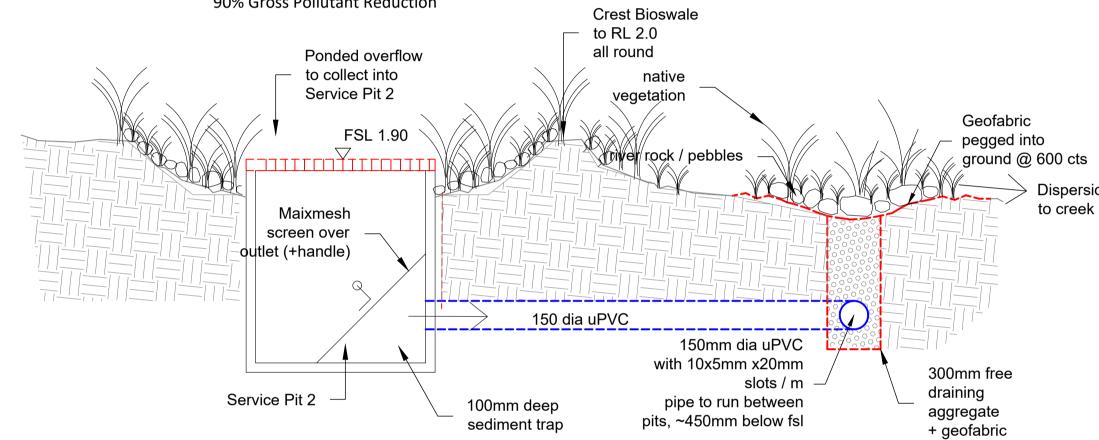
BYPASS LANDSCAPE: 51m²

PATH: 35m²
100% IMPERVIOUS

TOTAL AREA: 700m²

65% Total Phosphorus Reduction 45% Total Nitrogen Reduction

90% Gross Pollutant Reduction



BIOSWALE OUTLET / DISPERSION TRENCH DETAIL

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 FSL 1.90 Geofabric line allround gravel 2x drainage pipes drainage 90mm dia layer

Service Pit 2

100mm deep

sediment trap

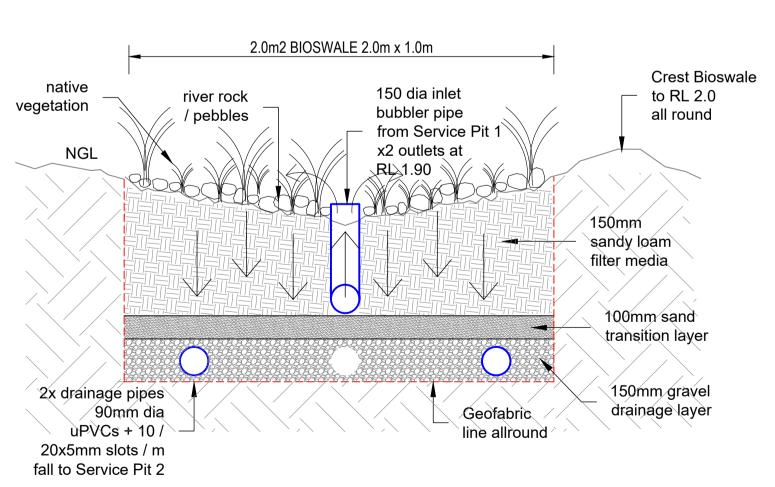
2.0m2 BIORETENTION SYSTEM PLAN

BIOSWALE LONG SECTION ~ 1:20

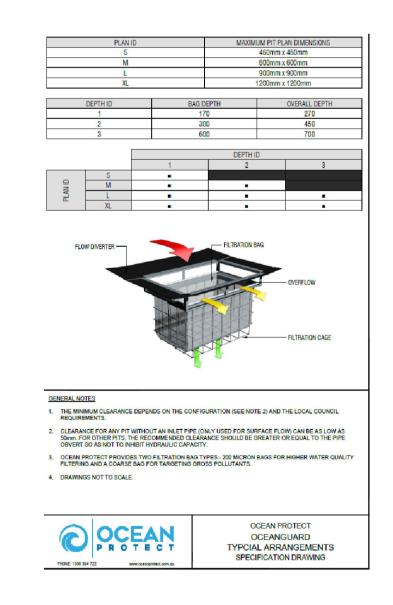
uPVCs + 10 /

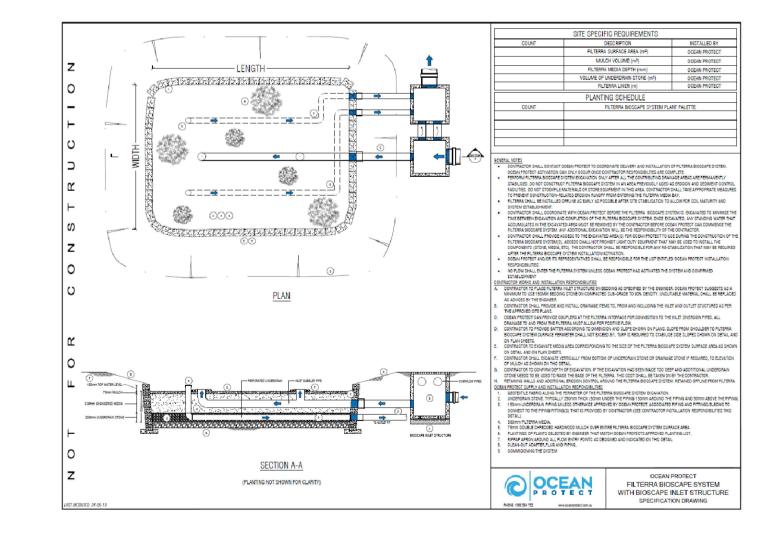
20x5mm slots / m

outlet to Service Pit 2



BIORETENTION SYSTEM CROSS SECTION ~ 1:20





FILTERRA BIOSCAPE SYSTEM

by OCEAN PROTECT

ISSUE:			Barrenjoey Consulting Engineers ptyltd	PROJECT:	DRAWING:	Job No :	Drawing No
DA	21. 03. 2025	Issued for DA submission	Stormwater Structural Civil PO Box 672 Avalon NSW 2107 M: 0418 620 330 E: lucasbce@bigpond.com ABN: 13124694917 ACN: 124694917	PROPOSED NEW RESIDENCE 12A JOHN STREET AVALON	STORMWATER MANAGEMENT	18100525-12A Document Certification Barrenjoey Consulting Engineers pty ltd per Lucas Molloy MIEA CPENG NER Director	

