

90mm dia uPVC with

~ 150mm below fsl

10x5mmx20mm slots / m

Dispersion

to mimic pre

development

conditions

of flows

~ 450mm 300mm MIN soil backfill cover 150mm overlay 100mm wide compacted side support 75mm bedding

2x2500l Rainwater tanks

in Store area. INV ~ 47.50

to the dispersion system

Bungan Beach Foreshore

and directly onto the

to collect all roof area run off

overflow 2x 90mm dia uPVC

TYPICAL PIPE & TRENCH DETAIL

~ 1 : 20

Note -

Bedding / overlay to be -

a) sand, free from rock, hard or sharp objects

b) max 14mm crushed rock or gravel c) the excavated material free of rock, hard or sharp objects and broken up with no soil lumps > 75mm dia

for details

FFL 51.00 / 50.00

STORMWATER MANAGEMENT PLAN

> Proposed Secondary Dwelling refer to plans by Gartner Trovato Architects for details. Site Area - 3459m2

No.18

Hillcrest Rd

Mona Vale

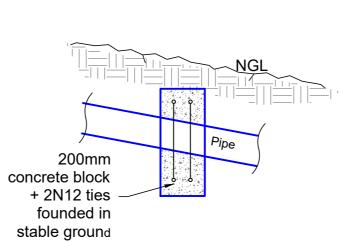
Compliance to Northern Beaches Councils Water Management for Development Policy 5.5.1.2 Alterations and Additions to a Single Dwelling House and Granny Flats Section 5.5.1.2.4 Other Methods as disposal directly to Bungan Beach Foreshore

Runoff quality improved by installation of sediment / gross pollution collection pits.

All roof area to be directed to the Rainwater tank storage system. All works (ie gutters/dps etc) are to be sized (for a 5% AEP event)

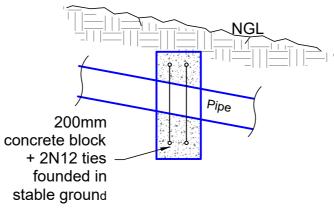
and detailed with Construction Certificate documentation Installed by a licensed plumber in accordance with NCC

> requirements and AS3500.3 specifications. Trunk pipes shown above to be 90 dia uPVC.



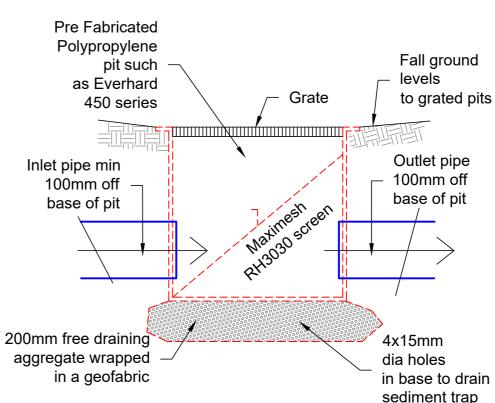
DISPERSION PIPE SYSTEM DETAIL ~ 1:20

6m long Dispersion pipe location extent etc to mimic pre development disposal, laid parallel and along natural contours of site in accordance with the Geotechnical Consultants requirements TBC during construction



ANCHOR BLOCK **DETAIL**

TO BE INSTALLED AT 6m CTS IF PIPE SLOPE > 1V TO 5H



Existing Residence

(no works within this

development

application)

TYPICAL PIT DETAIL

NTS

STORMWATER NOTES

MILLCREST

- 1. All roof collection components (ie gutters / DPs etc)are to be located / sized by the Developments contracting Plumber for a 5% AEP event capacity.
- 2. Trunk lines shown on plan to be 150mm dia uPVC.
- 3. All pipes to be uPVC to AS 1254:2002.
- 4. All pipes to be laid at the grade required to match pit invert levels
- 5. All pipes to be installed and laid in accordance with AS 3500.3:2003.
- 6. All roof guttering/ down pipes / valley gutters / box gutters etc are to be sized and installed in accordance with AS 3500.3:2003.
- 7. All pits are to be proprietary uv resistant polypropylene or similar unless noted (approved by the Engineer)and are to include a min 50mm sediment trap in the base and a maximesh screen laid at 45' across the pit to protect the oulet pipe
- 8. All pits greater than 600mm in depth are to be proprietary precast concrete (approved by the Engineer)
- 9. All pits greater than 1000mm in depth are to have adequate access requirements in accordance with OH&S/Workcover requirements (ie; minimum dimensions 900x900mm with step
- 10.All works are to be inspected and certified by the Principle Certifying Authority prioir to backfilling.
- 11.All works requiring certification by the Engineer will require a works as executed survey prepared by a registered Surveyor detailing all levels etc as on the Engineering plans.
- 12. The system is too be flushed and cleaned of all sediment and
- 13. The system will require regular cleaning and maintenance to ensure its ability to function is maintained.
- 14.To ensure the system's ability to function is maintained it is to be inspected and certified as operating effectively by a licensed plumber every 5 years, and a engineer every 20yrs.
- 15.All existing predevelopment catchment area run-off conditions exiting the site are to be maintained with no run-off flows being diverted from the predevelopment condition.
- 16.Flows from upstream properties entering the site are to be monitored during construction and diverted about the OSD system / residence etc as required.

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native vegetation

river rock / pebbles

NGL

Geofabric

ground

@ 600 cts

pegged into

~ 75mm dia

~350x350

aggregate

+ geofabric

free draining

PROJECT:

PROPOSED SECONDARY DWELLING 18 HILLCREST RD MONA VALE for ~ BURNARD FAMILY DRAWING:

STORMWATER MANAGEMENT PLAN

Drawing No: Job No: SW1 PreLim

Document Certification

Barrenjoey Consulting Engineers pty ltd

per LUCAS MOILOY MIEA CPENG NER Director