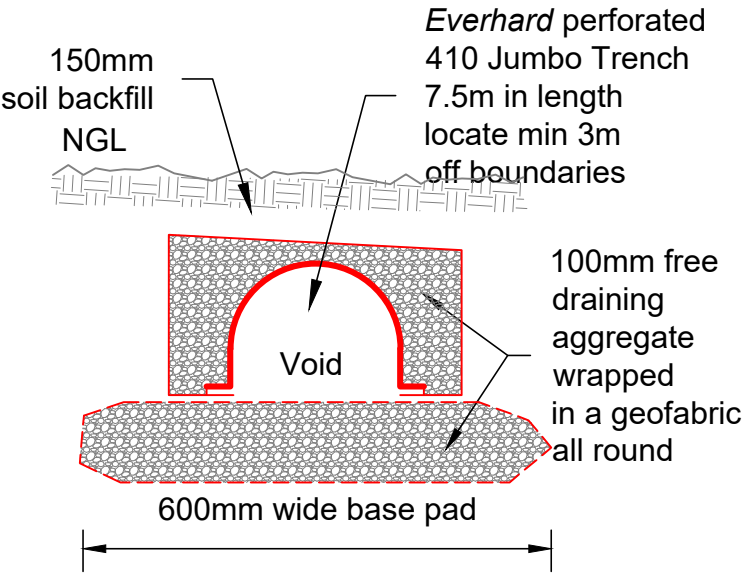


TYPICAL PIPE & TRENCH DETAIL  
~ NTS

All works to be of a conventional nature as per NCC / BCA and AS 3500.3 requirements.  
Compliance to Northern Beaches Council Water Management for Development Policy Section 9.3.1  
On Site Stormwater Disposal Requirements Region 1 Northern Catchments Increase in impervious area - 80m2,  
OSD storage requirement 6000I, Permissible site discharge 3l/s.  
Min 80m 2 of roof area to be directed to the OSD system. OSD storage to be located below deck,  
outlet to dispersion trench in rear yard as per existing conditions.



DISPERSION TRENCH DETAIL  
NTS  
7.5m IN LENGTH TO BE LAID PARALLEL AND ALONG THE NATURAL CONTOUR OF THE SITE

ISSUE:		
27. 09. 2021	PreLim	Issued for comment

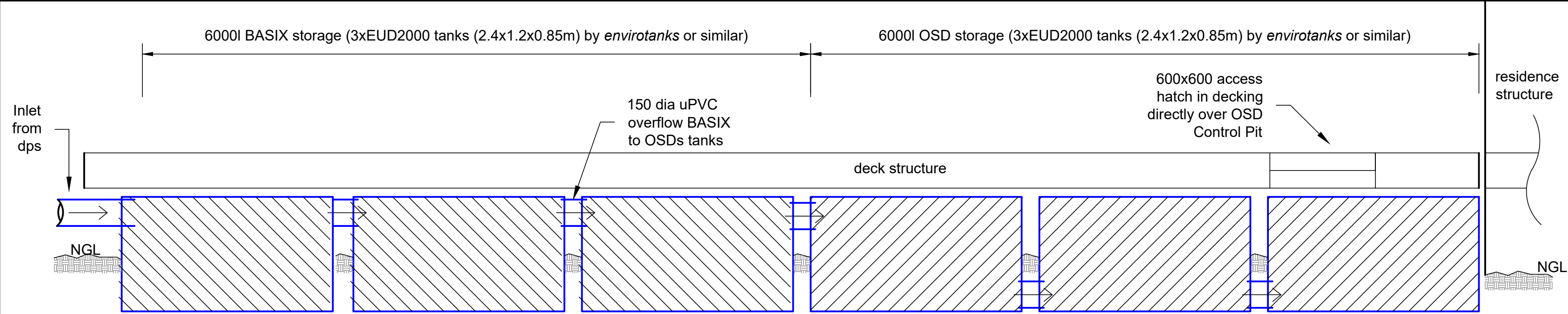
Barrenjoey Consulting Engineers pty ltd  
Stormwater                      Structural                      Civil  
PO Box 672  
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M: 0418 620 330  
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ABN: 13124694917  
ACN: 124694917

PROJECT:  
**PROPOSED  
NEW RESIDENCE  
96 AVALON PARADE  
AVALON BEACH  
for ~ WEST FAMILY**

DRAWING :  
**STORMWATER  
MANAGEMENT PLAN**

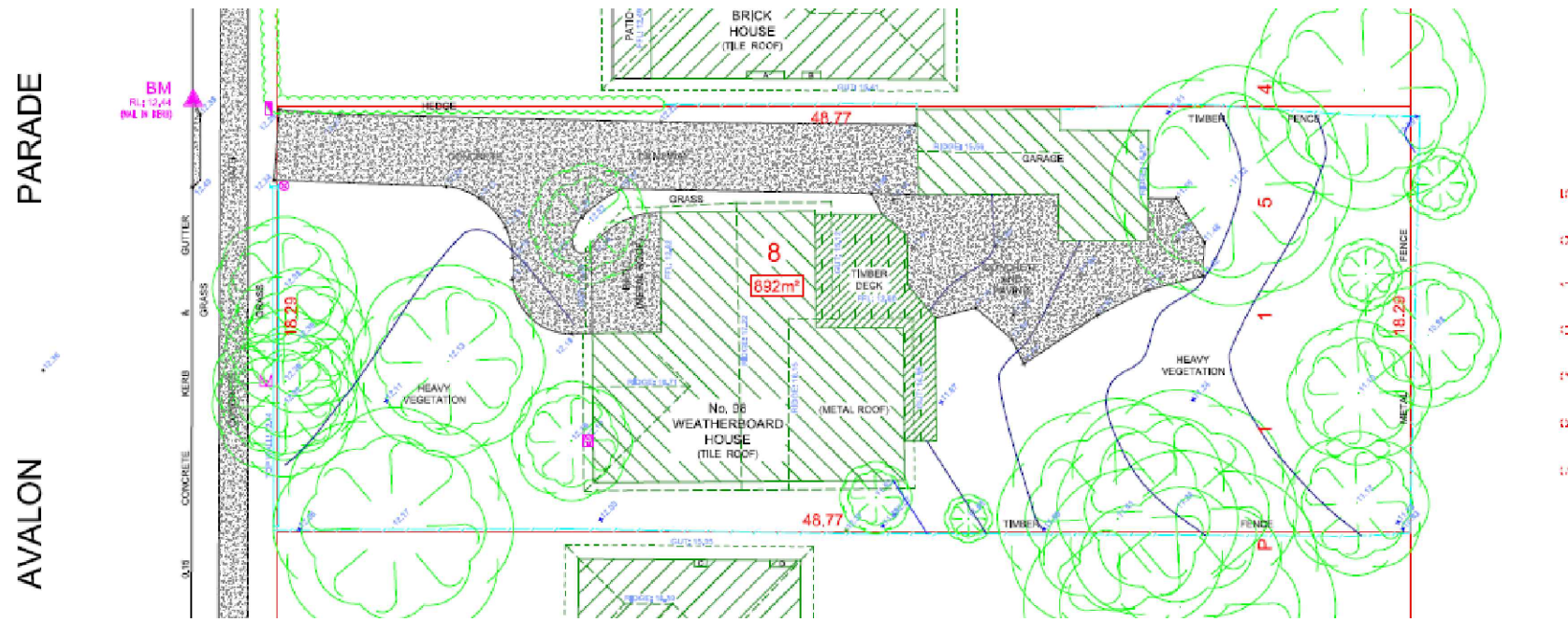
Job No : <b>210804</b>	Drawing No : <b>SW1<sub>DA</sub></b>
Document Certification Barrenjoey Consulting Engineers <small>pty ltd</small> per Lucas Molloy <small>MIEA CPEng NER Director</small>	





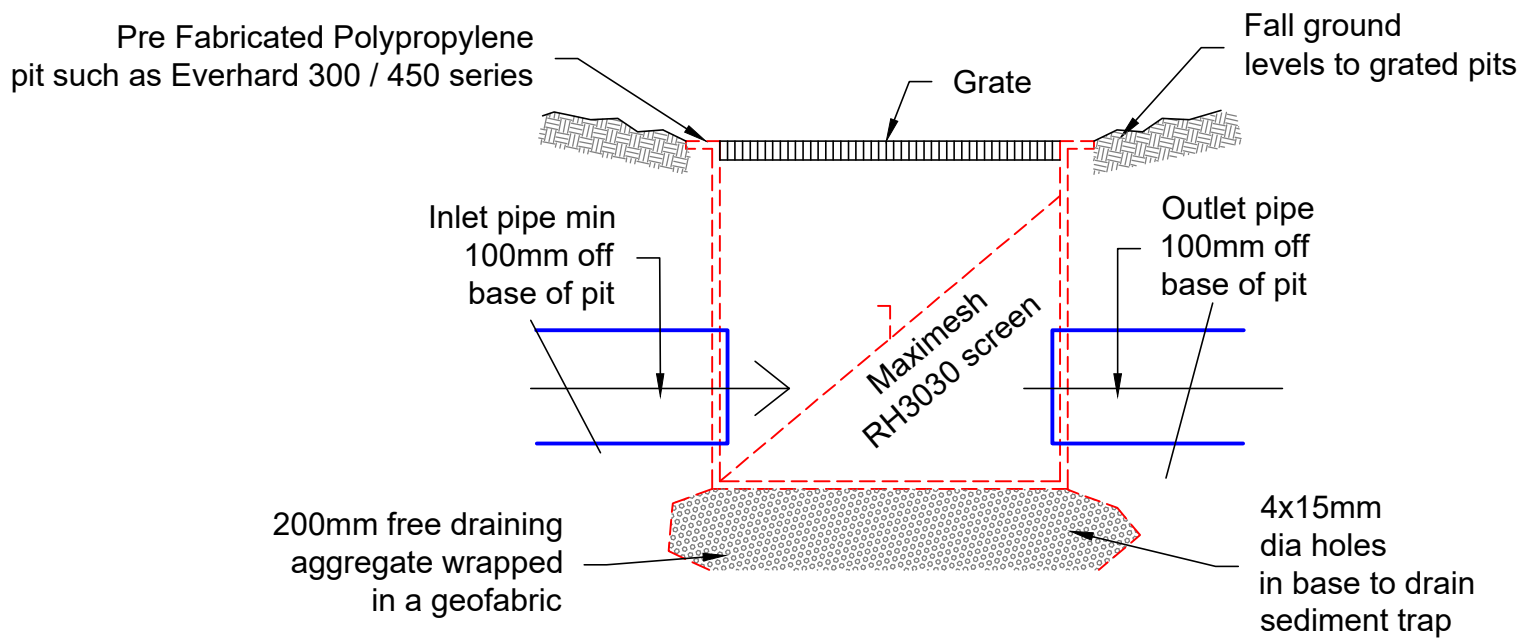
OSD TANK LONG SECTION

~ 1:20



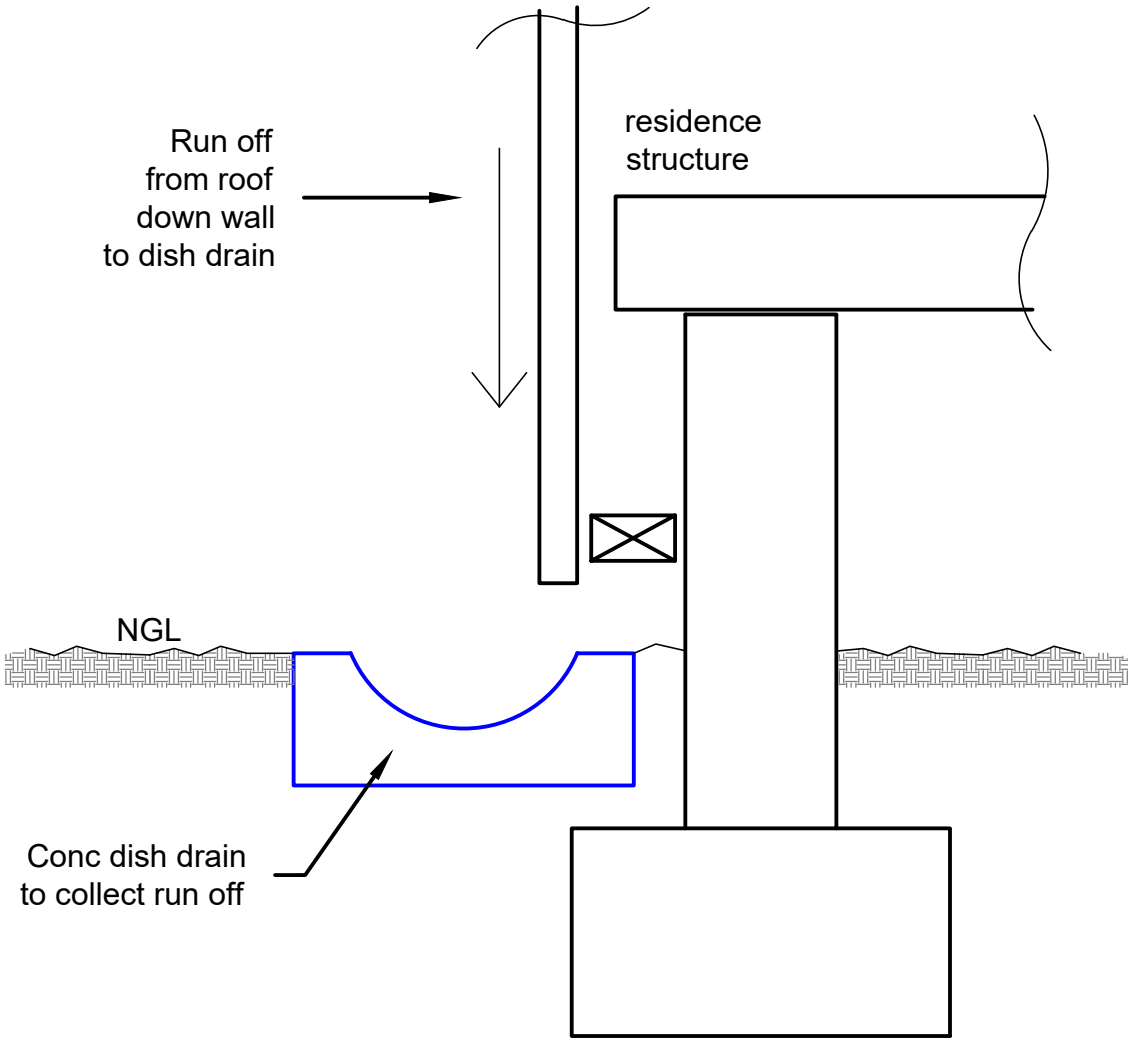
EXISTING SITE SURVEY

~NTS



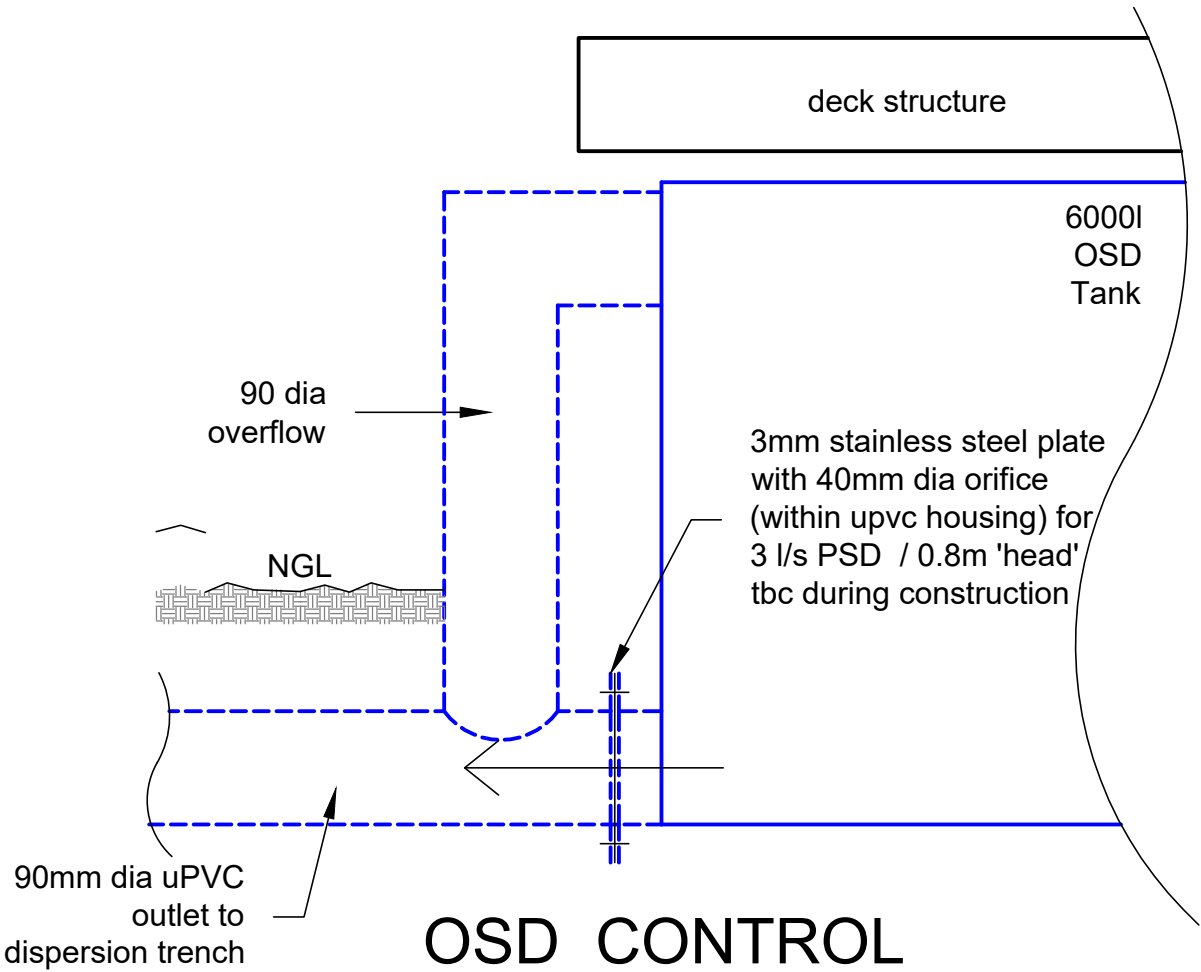
TYPICAL PIT DETAIL

NTS



SURFCAE DISH DRAIN DETAIL

~ 1:10



OSD CONTROL ORIFICE PL DETAIL

~ 1:10

A2

STORMWATER NOTES

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 90mm dia uPVC, uno.
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 outlet 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 irons).
10. All works are to be inspected and certified by the Principle Certifying Authority prior 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 to be flushed and cleaned of all sediment and debris annually.
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 an 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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for ~ WEST FAMILY

DRAWING :

STORMWATER  
MANAGEMENT DETAILING 1

Job No :  
**210804**

Drawing No :  
**SW1<sub>DA</sub>**

Document Certification  
Barrenjoey Consulting Engineers pty ltd  
per Lucas Molloy  
MIEA CPEng NER Director