

NORTHERN SYDNEY
Seascape
Suite 7 22-27 Fisher Rd
Dee Why NSW 2099

BLUE MOUNTAINS Shop 1 274 Macquarie Rd Springwood NSW 2777 TAYLORCONSULTING.NET.AU

CONSULTING ENGINEERS Civil Structural Stormwater & Flood

19 February 2024

Chief Executive Officer Northern Beaches Council 725 Pittwater Road DEE WHY NSW 2099

Address of the Project: 15 De Lauret Avenue, Newport

Description of Project: Stormwater Management Plan - New Dwelling

With reference to the Development Application for the above property, please find enclosed a copy of the site Stormwater Management Plan, STORM-2/A & STORM-3 for your perusal.

The plan shows the collected flows from the proposed roofed areas, along with surrounding hardstand and landscaped areas, being discharged into a level spreader located towards the rear boundary of the site.

Note, the on-site detention system reduces the 1 in 100 year paved and landscaped areas flows to below the 5 year 'state of nature' level, in accordance with accepted Council policy.

This is also to certify that the Stormwater Management Plan layout, as shown on STORM-2/A and STORM-3 by Taylor Consulting Civil & Structural Engineers, has been designed in accordance with section 3.1.2, 'Drainage', of the Building Code of Australia Housing Provision, AS/NZS 3500.3.2 – Stormwater Drainage, Northern Beaches Council's Warringah DCP and Northern Beaches Council's Water Management for Development Policy

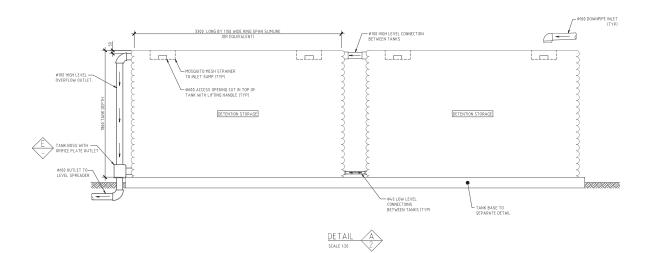
Should you require any further information, please contact the undersigned.

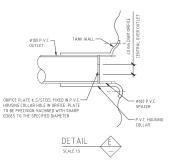
Yours faithfully TAYLORCONSULTING.NET.AU

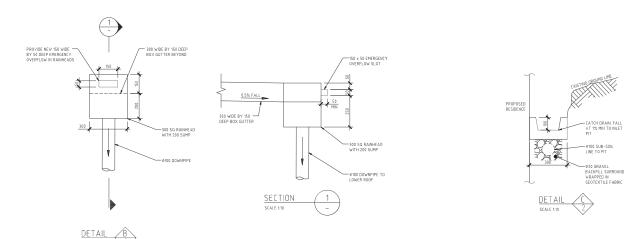
**D.M.Schaefer - Director** B.E Civil (Hons) M.I.E. Aust. N.E.R. NER Engineers Australia

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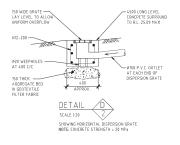
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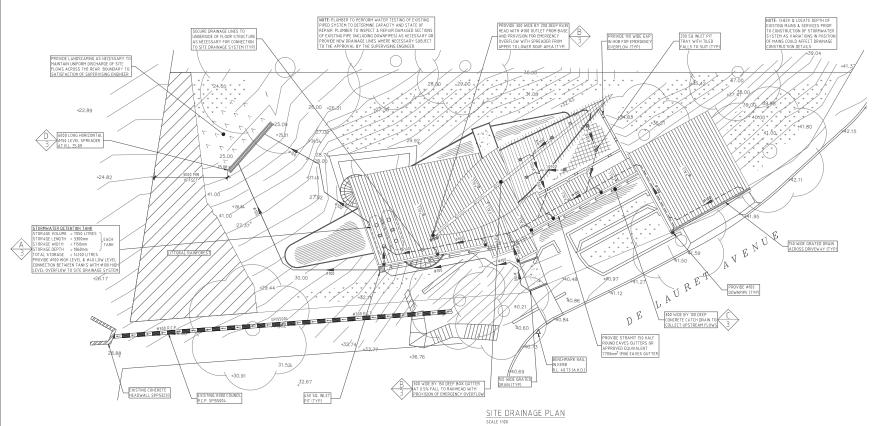


TYPICAL RAINHEAD DETAIL (OR EQUIVALENT)
SHOWING PROVISION FOR EMERGENCY OVERFLOW









DRAWAGE NOTES

- FALL STORMWATER PIPES AT 1% MIN. UNLESS OTHERWISE NOTED.
- SUB-SOIL DRAWAGE TO BE CONNECTED TO THE SITE DRAWAGE SYSTEM AS NECESSARY.
- SURFACE GRATES 300 SQ. UNLESS OTHERWISE NOTED.
- ALL STORMWATER PIPES TO HAVE SOLVENT CEMENT WATERTIGHT JOINTS.
- CHECK & LOCATE DEPTH OF EXISTING MAINS & SERVICES PRIOR TO CONSTRUCTION OF STORMMATER SYSTEM AS VARIATIONS IN POSITION OF MAINS COULD AFFECT DRAINAGE CONSTRUCTION DETAILS.

- REMOVE REDUNDANT DRAINAGE PITS AND SEAL PIPES. PIT BENCHING TO BE HALF THE OUTGOING PIPE DIAMETER. CONCRETE FOR BENCHING TO BE 20 MPs MASS CONCRETE.
- APPROVED PRE-CAST PITS MAY BE USED.
- ALL PIPES TO BE LAID ON COMPACTED FINE CRUSHED ROCK OR SAND BEDDING TSMIN THICK & PIPES BACKFILLED WITH COMPACTED SAND TO 300mm ABOVE TOP OF PIPE, ELSE ATTACHED TO UNDERSIDE OF STRUCTURE AT 400mm c/c AS NECESSARY
- CONTRACTOR SHALL DISCRET THAT SERVICES TO BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DESCRIPTED. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EDISTRICTS SUPPLY TO BUILDINGS WHERE REQUIRED, ONCE WORKS ACCOMPLETE AND COPPLISORABLY DISCRETARY SERVICES AND MAINT AND EDISTRICTS SHALL REMOVE ALL TEMPORARY SERVICES AND MAINT SOOD ALL DISCRETARY SERVICES AND MAINT SOON AND MAINT
- STORMWATER SYSTEM REQUIRES SIGNIFICANT MAINTENANCE DUE TO POTENTIAL HIGH POLLUTANT LOAD, FILTERS AND POLLUTANT TRAPS SHOULD BE CHECKED AFTER LARGE STORM EVENTS AND CLEANED EVERY 6 MONTHS.
- PLUMBING AND DRAINAGE WORKS TO COMPLY WITH AS-3580, THE NATIONAL DRAINAGE B PLUMBING CODE.
- WHERE POSSIBLE DRAINAGE LINES SHALL BE LAID IN AREAS PREVIOUSLY DISTURBED BY OTHER SITE WORKS AND FOLLOW TOPOGRAPHICAL FEATURES TO REDUCE IMPACT AND AVOID TRUE ROOTS
- THIS STORMMATER MANAGEMENT PLAN HAS BEEN PREPARED FOR SUBMISSION TO COUNCE/CERTIFER AND DOES NOT NECESSARILY CONTAIN ALL APPROPRIATE INFORMATION TO EMBLE FOR ISSUE TO PLUMBER/PUBLICER FOR CONSTRUCTION. CONTACT TAYLOR CORSULTING FOR MORE PROCREMATION.

## RAINWATER RE-USE NOTES AND SPECIFICATIONS

- ROOF WATER ONLY TO BE DRAINED TO THE RAINWATER STORAGE TANK,
- THE RAINWATER STORAGE TANK NEEDS TO BE CONNECTED FOR RE-USE AS REQUIRED BY THE OWNER.

- BLETS TO RAINWATER TANK MUST BE SCREENED TO PREVENT THE ENTRY OF FOREIGN MATTER, AMMALS OR INSECTS,
- A SISN MUST BE APPOXED TO THE RAINWATER TANK CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER AND IS NOT TO BE USED FOR HUMAN CONSUMPTION.
- RAINWATER TANK TO BE PLACED ON A STRUCTURALLY ADEQUATE BASE IN ACCORDANCE WITH THE MANUFACTURER'S OR STRUCTURAL ENGINEER'S DETAILS,
- THE TANK MUST NOT BE INSTALLED OVER ANY MAINTENANCE STRUCTURE OR FITTINGS USED BY A PUBLIC AUTHORITY.
- RAINWATER TANK AND ASSOCIATED PLUMBING WORKS TO BE INSTALLED AND CONFIGURED BY A LICENSED PLUMBER. PUMP TO BE INSTALLED BY A LICENSED ELECTRICIAN,

## STORHWATER SYSTEM DESIGN DATA

SITE DATA

SITE AREA = 849,2 m² (190%) PROPOSED IMPERVIOUS AREA = 250 m² (29%) PROPOSED LANDSCAPED AREA = 599,2 m² (71%)

ERMISSIBLE SITE FLOWS (STATE OF NATURE FOR CATCHMENT: 318 m²)

MOTE: 4712 m² of Site Area has been deducted due to slope of site and is
Therefore detred uncontrollable.

5 YR ARI = 11 I/s

ISO SYSTEM DESIGN DATA AREA DRAINING TO OSD 1 = 250 m<sup>2</sup> (100% IMPERVIOUS) AREA BY-PASSING OSD SYSTEM = 118 m<sup>2</sup> (4% IMPERVIOUS)

DEVELOPED SITE PLOWS ( FOR DEVELOPED CATCHMENT = 368 m²)

100 YR ARI = 9 I/S

DETENTION SYSTEM DATA

ORIFICE DIAMETER = 40 mm TOTAL SSR = 10.46 m<sup>9</sup>

## STORMWATER SYSTEM DESIGN DATA

SITE DATA

SITE AREA = 849.2 m2 (100%) PROPOSED IMPERVIOUS AREA = 250 m<sup>2</sup> (30%) PROPOSED LANDSCAPED AREA = 599.2 m<sup>2</sup> (70% EXISTING IMPERVIOUS AREA = 269.3 m<sup>2</sup> (32%) EXISTING LANDSCAPED AREA = 579.9 m2 (68%)

ISSUE DATE	REVISION
19 FEB 2024	DETENTION TANK LOCATION AMENDED

## ALTERNATE STORMWATER MANAGEMENT PLAN 15 DE LAURET AVENUE, NEWPORT

BE Civil (Hons) MIE Aust.



