



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

BLUE MOUNTAINS
Shop 1
274 Macquarie Rd
Springwood NSW 2777

CONSULTING ENGINEERS
Civil
Structural
Stormwater & Flood

17 March 2025

General Manager
Northern Beaches Council
725 Pittwater Road
Dee Why NSW 2099

Address of the Project: **11 Darius Avenue, North Narrabeen**

Description of Project: **Stormwater Management Plan - Alterations and Additions**

With reference to the Development Application for the above property, please find enclosed a copy of the site Stormwater Management Plan, **STORM-1/A**, for your perusal.

The plan shows collected flows from the roofed areas, along with the surrounding hardstand and landscaped areas, discharging to the kerb and gutter in Darius Avenue.

This is to certify that the Stormwater Management Plan and Details layout as shown on Plan **STORM-1/A** 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 Pittwater D.C.P. 21 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.





NOTE: CHECK & LOCATE DEPTH OF EXISTING MAINS & SERVICES PRIOR TO CONSTRUCTION OF STORMWATER SYSTEM AS VARIATIONS IN POSITION OF MAINS COULD AFFECT DRAINAGE CONSTRUCTION DETAILS

NOTE: TURN $\phi 100$ 'CHARGED' P.V.C. DOWNPIPES UP WALL 50 ARE WATERTIGHT TO R.L. 2.85 MIN. (TYP)

PROVIDE $\phi 100$ DOWNPIPE (TYP)

SECURE DRAINAGE LINES TO UNDERSIDE OF FLOOR STRUCTURE AS NECESSARY FOR CONNECTION TO BOUNDARY PIT (TYP)

NOTE: PLUMBER TO PERFORM WATER TESTING OF EXISTING PIPED SYSTEM TO DETERMINE CAPACITY AND STATE OF REPAIR. PLUMBER TO INSPECT & REPAIR DAMAGED SECTIONS OF EXISTING PIPE (INCLUDING DOWNPIPES) AS NECESSARY OR PROVIDE NEW DRAINAGE LINES WHERE NECESSARY SUBJECT TO THE APPROVAL BY THE SUPERVISING ENGINEER.

PROVIDE STRAMIT 150 HALF ROUND EAVES GUTTERS OR APPROVED EQUIVALENT 7700mm² (MIN) EAVES GUTTER

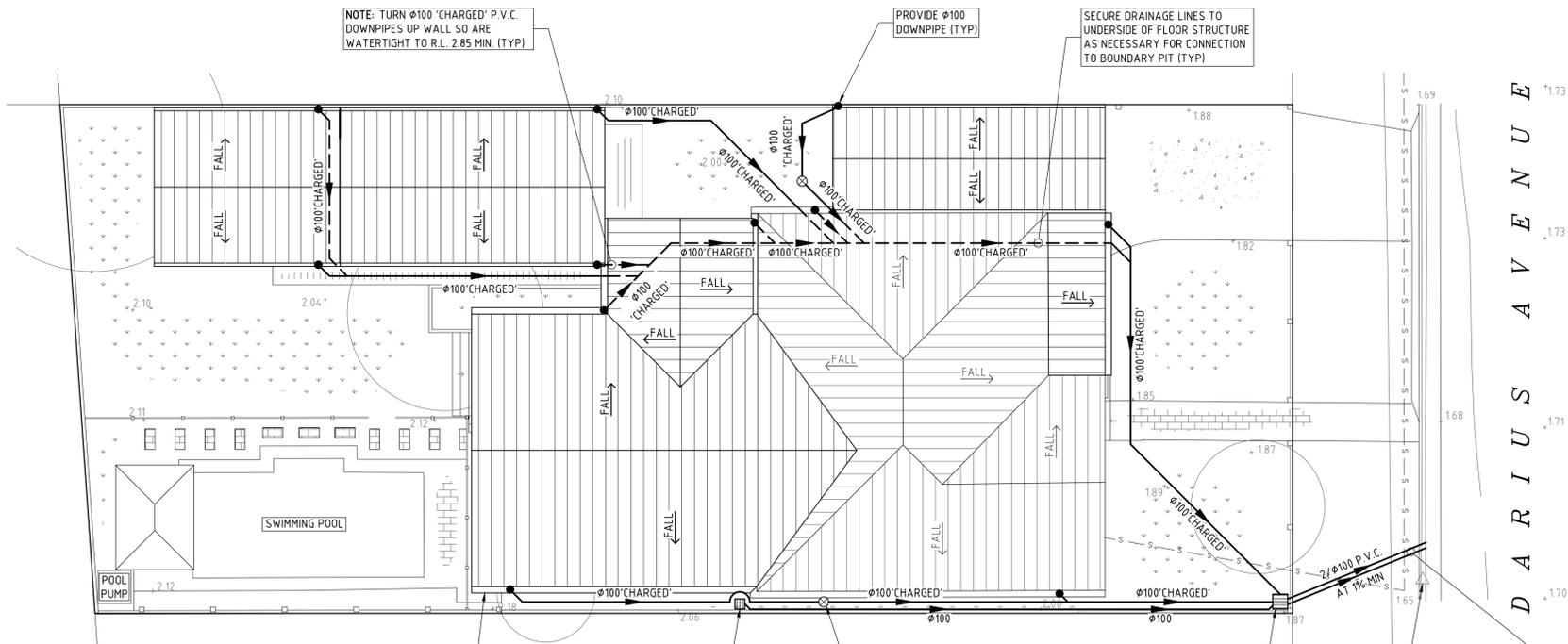
B
300 SQ. BY 300 DEEP INLET PIT (TYP)
NOTE: ALL PITS TO HAVE 2.0m LONG SUB-SOIL TAIL INLET

PROVIDE INSPECTION OPENING TO PROPOSED 'CHARGED' DRAINAGE LINE TO ALLOW FOR FLUSHING AND MAINTENANCE (TYP)

A
450 SQ. BOUNDARY PIT GRATE R.L. - 1.85
INVERT R.L. - 1.35
SUMP R.L. - 1.35
WITH TRASHSCREEN FOR WATER QUALITY

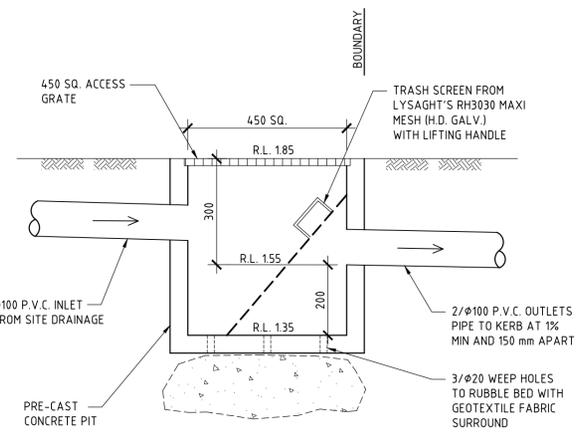
BENCHMARK NAIL IN TOP OF KERB R.L. 1.66 (A.H.D.)

PROVIDE 2/ $\phi 100$ P.V.C. OUTLETS TO KERB AT 1% MIN. AND 150mm APART

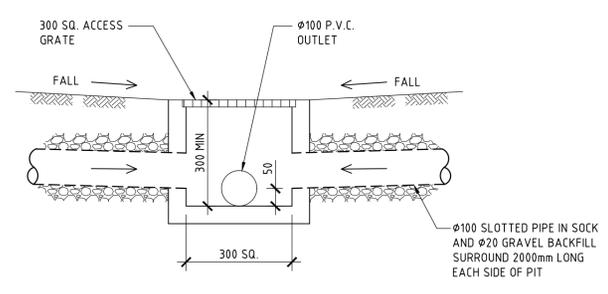


SITE DRAINAGE PLAN
SCALE 1:100

- DRAINAGE NOTES**
- + DENOTES EXISTING GROUND LEVEL
 - FALL STORMWATER PIPES AT 1% MIN. UNLESS OTHERWISE NOTED.
 - SUB-SOIL DRAINAGE TO BE CONNECTED TO THE SITE DRAINAGE 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 STORMWATER SYSTEM AS VARIATIONS IN POSITION OF MAINS COULD AFFECT DRAINAGE CONSTRUCTION DETAILS.
 - INSPECTIONS MUST BE UNDERTAKEN BY THIS OFFICE (BY PRIOR ARRANGEMENT WITH ENGINEER) DURING CONSTRUCTION TO ENABLE FULL CERTIFICATION UPON COMPLETION OF WORKS.
 - ALL CONSTRUCTION OF COUNCIL DRAINAGE WORKS TO COMPLY WITH COUNCIL STANDARD.
 - REMOVE REDUNDANT DRAINAGE PITS AND SEAL PIPES.
 - PIT BENCHING TO BE HALF THE OUTGOING PIPE DIAMETER. CONCRETE FOR BENCHING TO BE 20 MPa MASS CONCRETE.
 - APPROVED PRE-CAST PITS MAY BE USED.
 - ALL PIPES TO BE LAID ON COMPACTED FINE CRUSHED ROCK OR SAND BEDDING 75mm THICK & PIPES BACKFILLED WITH COMPACTED SAND TO 300mm ABOVE TOP OF PIPE. ELSE ATTACHED TO UNDERSIDE OF STRUCTURE AT 600mm c/c AS NECESSARY
 - PIPE ROUTES SHOWN ARE INDICATIVE ONLY AND SHOULD BE AS NECESSARY ACCORDING TO SITE CONDITIONS, TREE POSITIONS ETC. CONFIRM SIGNIFICANT CHANGES IN PIPES SYSTEM DETAILS WITH SUPERVISING ENGINEER PRIOR TO COMMENCEMENT OF DRAINAGE CONSTRUCTION WORKS.
 - CONTRACTOR SHALL ENSURE THAT SERVICES TO BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS WHERE REQUIRED. ONCE WORKS ARE COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SERVICES AND MAKE GOOD ALL DISTURBED AREAS.
 - 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-3500, THE NATIONAL DRAINAGE & 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 TREE ROOTS.
 - THIS STORMWATER MANAGEMENT PLAN HAS BEEN PREPARED FOR SUBMISSION TO COUNCIL/CERTIFIER AND DOES NOT NECESSARILY CONTAIN ALL APPROPRIATE INFORMATION TO ENABLE FOR ISSUE TO PLUMBER/BUILDER FOR CONSTRUCTION. CONTACT TAYLOR CONSULTING FOR MORE INFORMATION.



DETAIL A
SCALE 1:10
TYPICAL BOUNDARY PIT DETAIL



DETAIL B
SCALE 1:10
TYPICAL SURFACE INLET PIT DETAIL

STORMWATER SYSTEM DESIGN DATA

SITE DATA	
SITE AREA	= 557 m ² (100%)
PROPOSED IMPERVIOUS AREA	= 372.7 m ² (67%)
PROPOSED LANDSCAPED AREA	= 184.3 m ² (33%)
EXISTING IMPERVIOUS AREA	= 231.6 m ² (42%)
EXISTING LANDSCAPED AREA	= 325.4 m ² (58%)

ISSUE DATE	REVISION
17 MARCH 2025	UPDATED PLAN TO SUIT LATEST ARCHITECTURAL PLAN

TITLE STORMWATER MANAGEMENT PLAN 11 DARIUS AVENUE, NORTH NARRABEEN			
DRAWN LI	DATE 14 OCTOBER 2024	CHECKED <i>[Signature]</i> BE Civil (Hons) MIE Aust.	SCALE @ A1 1:100 1:10

TAYLOR CONSULTING
CIVIL & STRUCTURAL CONSULTANTS

DRAWING NO. STORM-1/A