

NOTE. THE REQUEST FOR AN EASEMENT

THROUGH DOWNSTREAM PROPERTIES HAS

NOT BEEN SUCCESSFUL. PLEASE REFER TO

THE DOCUMENTED STATUTORY DECLARATION

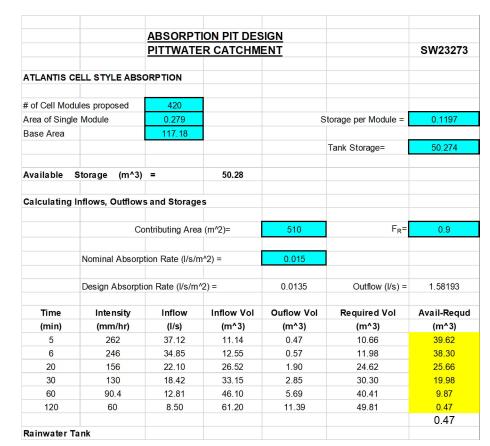
PRODUCED FOR THE FOLLOWING PROPERTIES: - 13-15 HILL ROAD (DATED 17 APRIL 2024)

## EXTRACT FROM IN-SITU PERMEABILITY REPORT PREPARED BY IDEAL GEOTECH (REF: 69279-IDF; MARCH 2024)

## RE: Permeability Testing at 11B Hill Street, Warriewood

This letter presents the observations and recommendations for permeability testing at 11B Hill

Permeability testing was undertaken on 7 March 2024 at two locations, at depths of 1.5m below existing ground level. Results show rates of 0.023 L/m<sup>2</sup>/s with the results attached. A borehole was drilled to a depth of 3.0m with the soil profile consisting of clayey sandy silt overlying clays up to this depth with no rock or groundwater encountered up to at least 3.0m depth. Absorption pits should be located a minimum of 3.0m from property boundaries and any structures to prevent seepage problems. A long term infiltration rate of 0.015 L/ m<sup>2</sup>/s should be adopted for the design of absorption pits, provided ongoing maintenance is undertaken.

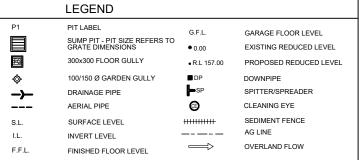


- 1) PITS DEEPER THAN 600mm TO BE 600 X 900 W, ELSE
- 375 SQ U.N.O. 2) ALL PIPES TO HAVE 1% MIN. GRADE U.N.O.
- 3) ALL DOWNPIPES TO BE 100 X 50 BOX or 90 Ø

AS PITS PER PLAN

- 4) PIPES TO BE LLP V.C. OR STORMWATER PIPE TO A S 1254.
- 5) PITS TO BE STANDARD PRECAST CONCRETE PITS OR BRICK RENDERED WITH CONCRETE HEAVY DUTY GRATES SIZED
- 6) NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED BELOW THE MAXIMUM WATER SURFACE LEVEL IN DETENTION
- ) PERSONS UTILISING THIS PLAN FOR ANY PURPOSES SHALI VERIFY THE DATUM & RESPECTIVE LEVELS PRIOR TO

- COMMENCING ANY WORKS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 8) DRIVEWAY LEVELS PROVIDED FOR DRAINAGE DESIGN PURPOSES ONLY. LEVELS MAY BE ADJUSTED TO SUIT FINAL HOUSE CUT/FILL CONDITIONS BUT NEED TO MAINTAIN INTENT OF DRAINAGE SYSTEM. ENGINEER TO BE CONSULTED PRIOR TO CONSTRUCTION TO ENSURE INTENT MAINTAINED.
- 9) END OF EXISTING DRAINAGE LINE TO BE EXPOSED & LEVELS CONFIRMED BY BUILDER PRIOR TO COMMENCEMENT OF WORKS.
- 10) BUILDERS TO ENSURE SERVICES CONNECTIONS TO HOUSE DO NOT CONFLICT WITH DRAINAGE DESIGN REQUIREMENTS.
- 11) ALL WORKS TO BE CONSTRUCTED TO GOOD BUILDING PRACTICE & MATERIALS TO MEET ACCEPTED SPECIFICATIONS

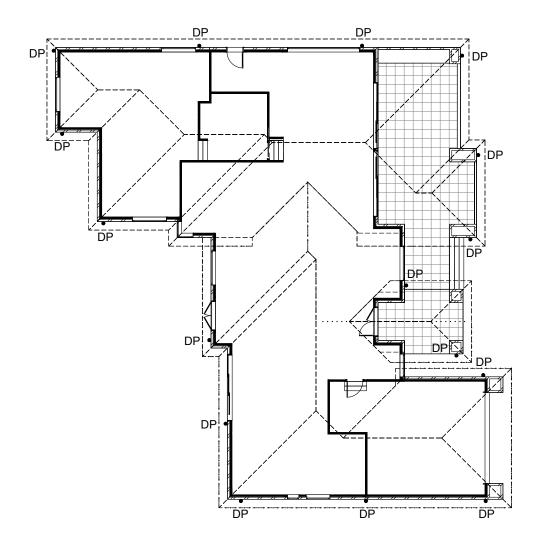


alwdesign I CIVIL ENGINEERING CONSULTANTS

M: 0413 763 432 69 DELANGE ROAD, PUTNEY NSW 2112

ROJECT: PROPOSED RESIDENTIAL DWELLING AT LOT B, # 11B HILL STREET, WARRIEWOOD NSW DRAWING: SITE STORMWATER MANAGEMENT LAYOUT

DESIGNED DRAWN CHECKED: ANDREW L WAHBE - BE (CIVIL) MIEAUST PENG A.W N.W ISSUED FOR S4.55 APPLICATION 20/05/24 REVISION DESCRIPTION

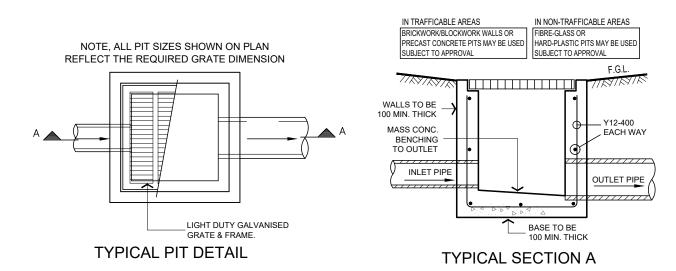


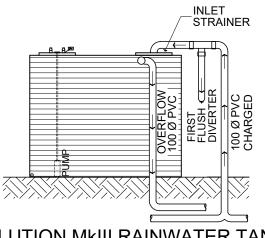
[GUTTER SELECTED: LYSAGHT HALF ROUND 150 NSW UNSLOTTED; AREA = 7042 SQ.MM]

ALL DOWNPIPES TO BE 90 Ø MIN

## **ROOF & GROUND FLOOR LAYOUT**

SCALE 1:200/A3



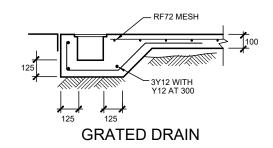


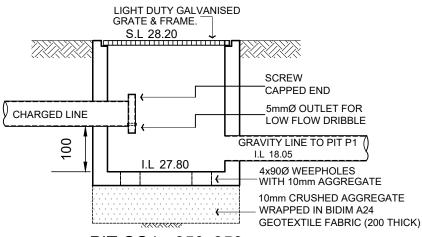
## EVOLUTION MKIII RAINWATER TANK CONFIGURATION BY KINGSPAN

ENSURE ALL CONNECTIONS WITHIN CHARGED SYSTEM ARE SOLVENT WELDED

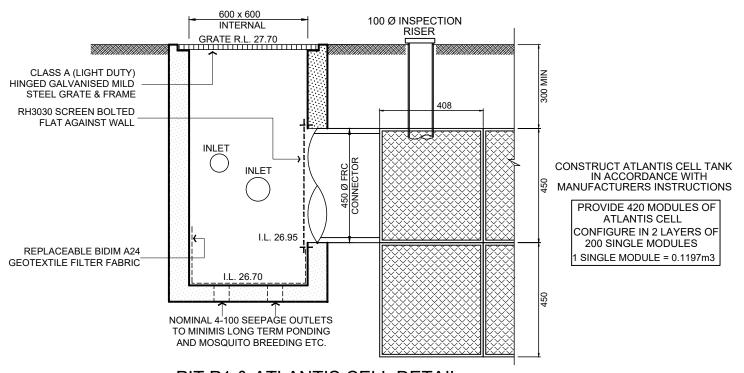
ALL DOWNPIPES ARE TO BE ENTIRELY PVC. PIPES ARE TO BE SEALED UPTO U/S OF ROOF GUTTERS

ROOF GUTTERS I.L. 31.82 TANK INLET I.L. 30.32 HEAD PRESSURE - 1500mm





PIT CO1 - 350x350 CLEAN-OUT PIT FOR CHARGED LINE SYSTEMS



PIT P1 & ATLANTIS CELL DETAIL

