# PROPOSED SECONDARY DWELLING HOUSE 129 GEORGE STREET, AVALON BEACH NSW 2107

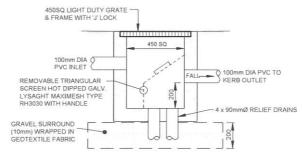
# STORMWATER MANAGEMENT DESIGN

#### GENERAL DRAINAGE NOTES

- 1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL COUNCIL'S RELEVANT SPECIFICATIONS AND/OR STORMWATER CODE. ANY DISCREPANCY VARIATION OR ADDITIONAL WORK SHALL BE APPROVED BY THE PRINCIPAL CERTIFIER
- 2. ALL SERVICES SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK
- 3. DIAL BEFORE YOU DIG SHALL BE CONTACTED PRIOR TO COMMENCEMENT.
- 4. ALL DRAINAGE PIPEWORK AND PLUMBING SHALL BE INSTALLED BY A CERTIFIED PLUMBER IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS3500 AND COUNCIL REQUIREMENTS.
- 5. ALL DRAINAGE PIPES ARE TO BE SEWER GRADE UNLESS NOTED OTHERWISE. 6. ALL COVERS, GRATES AND FRAMES ARE TO BE CLASS C HEAVY DUTY WHERE
- SUBJECT TO VEHICULAR TRAFFIC.
- 7. ALL COVERS, GRATES AND FRAMES ARE TO BE CLASS A MEDIUM DUTY WHERE SUBJECT TO PEDESTRIAN TRAFFIC OR IN LANDSCAPE AREAS.
- 8 COUNCIL PERMIT/APPROVAL SHALL BE OBTAINED PRIOR TO WORKS ON COUNCIL LAND AND CONNECTION TO COUNCIL SYSTEM
- 9 ALL PIPE BENDS TO BE FITTED WITH AN INSPECTION OPENING

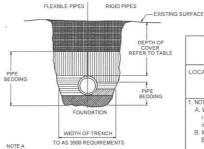
#### RAINWATER TANK NOTES

- 1. THE TANK SHALL NOT BE LOCATED OVER A WATER OR SEWER MAIN UNLESS IT IS INSTALLED IN ACCORDANCE WITH THE REGULATORY AUTHORITY REQUIREMENTS
- 2. ABOVE GROUND TANKS SHALL BE LOCATED AT LEAST 100 MM FROM ANY POTABLE WATER SUPPLY PIPE AND AT LEAST 300 MM FOR BELOW GROUND
- 3. ALL PLUMBING WORK SHALL BE CARRIED OUT BY A LICENSED PLUMBER IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS AND COUNCIL REGULATIONS.
- 4. ALL INLETS SHALL BE SCREENED OR FILTERED TO PREVENT THE ENTRY OF FOREIGN MATTER OR CREATURES
- 5. REUSE PUMP TO BE INSTALLED BY A LICENSED PLUMBER AND ELECTRICIAN TO SYDNEY WATER REQUIREMENTS
- 6. A SIGN SHALL BE AFFIXED TO THE RAINWATER TANK AND ALL APERTURES CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER
- 7. NOISE EMISSIONS FROM ANY PUMP SHALL MEET COUNCIL'S REQUIREMENTS.
- 8. WATER RETAINED FOR INDOOR HOUSEHOLD USE SHALL BE AUGMENTED BY MAINS WATER SUPPLY AND APPROVAL OBTAINED BY SYDNEY WATER.
- 9. WHERE RETAINED WATER IS AUGMENTED BY MAINS WATER SUPPLY A BACKFLOW PREVENTION DEVICE AND FLOW RESTRICTOR SHALL BE INSTALLED IN ACCORDANCE WITH AS 3500 AND SYDNEY WATER REQUIREMENTS.
- 10.ALL INLETS SHALL BE FITTED WITH A FIRST FLUSH DEVICE PRIOR TO DISCHARGING TO THE RAINWATER TANK
- 11. THE INDIRECT CONNECTION TO MAINS WATER SUPPLY SHALL HAVE A VISIBLE AIR GAP IN ACCORDANCE WITH AS 3500



### POLLUTION CONTROL PIT DETAIL

NOT TO SCALE



STORMWATER DRAINS CONSTRUCTED OF OTHER THAN CAST IRON, DUCTILE IRON OR GALVANISED STEEL HAVING COVER LESS THAN THAT SPECIFIED IN TABLE SHALL BE COVERED WITH AT LEAST 50mm OVERLAY AND SHALL BE PAVED WITH AT LEAST (a) 100mm THICKNESS OF REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICULAR LOADING

SYMBOL	FLEXIBLE PIPES	RIGID PIPES		
	BACKFILL			
	PIPE OVERLAY			
	PIPE SIDE SUPPORT	SIDE ZONE		
m	-	HAUNCH ZONE		
	PIPE UNDERLAY	BED ZONE		

## MINIMUM PIPE COVER

(FROM FINISHED SURFACE TO TOP OF PIPE)

LOCATION	MINIMUM COVER (mm)		
	CAST / DUCTILE IRON OR GALV STEEL	AUTHORISED PRODUCTS (*)	
NOT SUBJECT TO VEHICULAR LOADING:     A. WITHOUT PAVEMENT:			
i. FOR SINGLE DWELLINGS -	0	100	
ii, OTHER THAN SINGLE DWELLINGS - B. WITH PAYEMENT OF	0	300	
BRICKAUNREINFORCED CONCRETE -	0 (**)	50 (**)	
SUBJECT TO VEHICULAR LOADING     A OTHER THAN ROADS:			
i. WITHOUT PAVEMENT -	300	450	
- REINF, CONC, FOR HEAVY VEHICLES -	0 (** #)	100 (** #)	
- BRICK/UNREINF, CONC LIGHT VEHICLES - B, ROADS	0 (** #)	75 (** #)	
i, SEALED	300	500 (#)	
II, UNSEALED	300	500 (#)	
3. SUBJECT TO CONSTRUCTION VEHICLES OR			
IN EMBANKMENT CONDITIONS	300	500 (#)	

 INCLUDES OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK \*\*) BELOW THE UNDERSIDE OF THE PAVEMENT #) SUBJECT TO COMPLIANCE WITH AS1762, AS2033, ASINZS 2566,1, AS3725 OR AS 4060

#### NORTHERN BEACHES COUNCIL REQUIREMENTS

THE STORMWATER DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL WATER MANAGEMENT FOR DEVELOPMENT POLICY REGION 1 - NORTHERN CATCHMENT AND AUSTRALIAN STANDARDS AS3500.3

#### DESIGN PARAMETERS

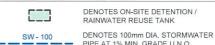
RW - 100 (CH)

SITE AREA (m2)	1,190
TOTAL INCREASE IN IMPERVIOUS AREA (m2)	154.8
MINIMUM OSD STORAGE CAPACITY REQUIRED (L)	12,000
MAXIMUM OSD DISCHARGE RATE (I/s)	6.0
ORIFICE PLATE DIAMETER (mm)	45
TOTAL STORAGE VOLUME PROVIDED (L)	

#### BASIX CERTIFICATE REQUIREMENTS

- PROVIDE A MINIMUM 3,000 LITRE RAINWATER TANK STORAGE
- COLLECT A MINIMUM 120 m2 OF ROOF AREA
- CONNECT TO ALL TOILETS, CLOTHES WASHERS AND AT LEAST ONE OUTDOOR TAP

#### LEGEND



DENOTES 100mm DIA. CHARGED STORMWATER PIPE TO ON-SITE DETENTION / RAINWATER TANK

DENOTES DOWNPIPE

 $\boxtimes$ STORMWATER PIT - SOLID COVER STORMWATER PIT - GRATED INLET

DENOTES GRATED DRAIN

#### SHEET INDEX

COVER SHEET AND NOTES SHEET SW1 STORMWATER MANAGEMENT PLAN SHEET SW2 SECTIONS AND DETAILS SHEET SW3

ERDESIGN 1 FLAME TREE PLACE CHERRYBROOK NSW 2126

1 FLAME TREE PLACE MOBILE: 0417 671646

**GREIG WITNEY** 

SECONDARY DWELLING HOUSE COVER SHEET AND NOTES 129 GEORGE STREET. **AVALON BEACH NSW 2107** 

DRAWN: A.L	APPROVED BY  ANDREWLAM MIEAUST B.E. CIVI (Hons)				
DATE 28.03.2024					
JOB No:	SW1 no. IN SET	A	CLIENT REQUEST	10.04,24	
2023-052		No.	REVISION / ISSUE DESCRIPTION	DATE	

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