



- 2 ALL PIPES TO BE UPVC TO AS 1254-2002 UNLESS NOTED OTHERWISE.
- 3 ALL PIPES TO BE LAID AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.
- 4 ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS.

( NO COMPACTION REQUIRED BELOW LANDSCAPING )

COVER TO SURFACE FROM TOP OF PIPE TO BE AS PER AS3500. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED 20WITH GRANULAR MATERIAL AS SPECIFIED.

- 5 DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT WITH WORK.
- 6 PROVIDE CLEANING EYES AT ALL DOWNPIPES.
- 7 ALL PITS TO BE PRECAST, PREFORMED OR HDPE, IN ACCORDANCE WITH LOCAL COUNCIL SPECIFICATIONS.
- 8 ALL PITS GREATER THAN 1000mm DEEP SHALL HAVE STEP IRONS AS PER COUNCIL STANDARDS.
- 9 ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- 10 PRIOR TO COMMENCING ANY SITE WORKS THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES TO EPA GUIDELINES AND COUNCIL SPECIFICATIONS. ALL MEASURES TO REMAIN IN PLACE UNTIL COMPLETION AND STABILIZATION OF THE SITE TO COUNCIL SATISFACTION.
- 11 ALL LEVELS SHOWN ARE TO AHD 12 - ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- 13 ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO UPVC.
- 14 ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2015 NATIONAL PLUMBING DRAINAGE CODE PART 3 - STORMWATER DRAINAGE. AND ALL WORKS TO BE IN ACCORDANCE WITH AS 3500-2012 NATIONAL PLUMBING DRAINAGE CODE PART 5 - HOUSING INSTALLATIONS

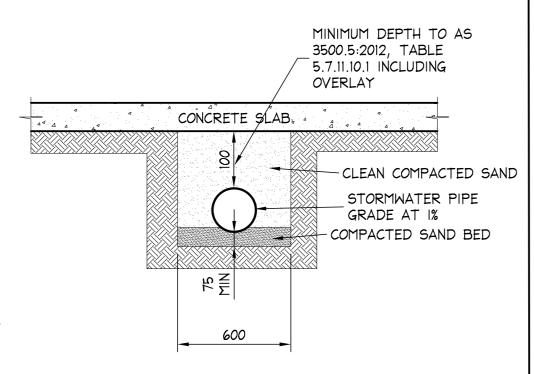
### MAXI MESH SCREEN RH3030 \$ HANDLE OUTLET PIPE INLET PIPE BIDIM A24 OR SIMILAR GEOTEXTILE -FILTER FABRIC 1 - ALL PIPES TO BE 100mm \$\phi\$ SEWER GRADE uPVC UNLESS NOTED OTHERWISE \$20mm WEEP HOLES AT 200 CTS PRECAST OR HDPE PIT REFER STORMWATER NOTES

450x450

GRATED

PIT COVER-

450x450 BOUNDARY PIT DETAIL SCALE = 1 : 20



TYPICAL TRENCHING DETAIL SCALE = 1 : 20

# DRAINAGE DISPOSAL - SUMMARY NOTES NORTHERN BEACHES COUNCIL

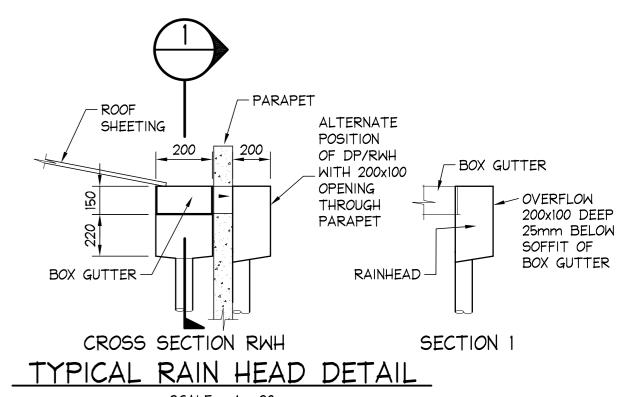
STORMWATER CONTROL ZONE ZONE 1 RESIDENTIAL DENSITY SUB-ZONE ZONE 3  $223.2\,\mathrm{m}^2$ TOTAL SITE AREA  $152.8 \text{ m}^{2}$ PRE DEVELOPMENT IMPERVIOUS AREA POST DEVELOPMENT IMPERVIOUS AREA INCREASE IN IMPERVIOUS AREA

IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL "WATER MANAGEMENT FOR DEVELOPMENT POLICY" 2021.

PROPERTY IS IN REGION 3 - SECTION 9.3.3.2 \$ SECTION 5.1 APPLIES.

THE SITE IS VIRTUALLY FLAT. WE PROPOSE TO MAKE THE SITE FALL TOWARDS THE STREET BY REMOVING/FILLING THE LOW POINT IN THE REAR YARD AND PROVIDING PERMEABLE PAVING. ALL ROOF WATER WILL BE CONVEYED TO THE STREET. THE DRIVEWAY \$ FRONT SETBACK AREA PRESENTLY FLOWS TO THE STREET

OSD IS NOT REQUIRED AS PER SECTION 9.3.3.2 AS THE SITE IS IN A FLOOD ZONE, FROM MANLY LAGOON. REFER TO COUNCIL'S FLOOD HAZARD MAP.



SCALE = 1 : 20

		Gutte	r Calcula	itions -20	yr ARI Stor	m			
Northern Beaches Council									
			Alteratio	ns & Ado	ditions at				
12 Pacific Parade Manly									
				to AS 3500 - 2015.3-2021 & AS 3500.5 - 2012 & NCC 2022					
	Horizontal	Slope	$Area\ A_c$	Gutter	1	From	Downpipe		
Eaves	Area A <sub>h</sub>	Factor		Slope	from	Figure 3.5a	From		
Gutters		From		steeper	Appendix 12	gutter	Table 5.6.4.7.1		
		Fig 5.6.3.2		than	Page 79	area reqd	size reqd		
	m <sup>2</sup>		$m^2$	1 in	mm/hr	mm	mm		
EXDP1	31.3	1.3	40.7	500	207	6000	satisfactory		
EXDP2	25	1.05	26.3	500	207	5800	satisfactory		
DP3	25	1.05	26.3	500	207	5800	100x50 or 90 dia		
DP4	25	1.05	26.3	500	207	5800	100x50 or 90 dia		
RWH/DP5	7.3	NA	NA	200	207	NA	100x50 or 90 dia		
total	113.6								
Eaves Gutters - 115mm Quad -Area						6000	mm		
			+	-	ATIONS		I		

GUTTER CALCULATIONS

## NOTES:

- 1. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WITH WORK
- 2. FOR GENERAL NOTES AND DRAWING SCHEDULE REFER TO DRAWING NUMBER: SOI.

### DOCUMENT CERTIFICATION

Date: DECEMBER 2024 Bruce Lewis (Principal: Peninsula Consulting Engineers)

BE(Civil), CPEng, MIEAust., NPER. Institute of Engineers Membership No. 879131

Date:	Rev:	Amendment:	A.B.N. 60 493 390 399
21-11-2024	P1	DRAFT	Ph: 0424 253 818 E: bruce@peninsulaconsulting.com.au
10-12-2024	Α	FOR COUNCIL SUBMISSION	PO Box 6186, Narraweena, NSW, 2099
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PROPOSED WORKS at: 12 PACIFIC PARADE, MANLY for: CALCAGNO \$ BURRIDGE

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STORMWATER MANAGEMENT PLAN & DETAILS Drawing No: 24-0921