

F

E

- D

c

- # B

A

- 2

- 3

3

3

3

3

3

- 3

3

3

3

4

4



SIR THOMAS MITCHELL DRIVE

GRIMES PLACE

4.196L SLIMLINE KINGSPAN OSD/RWT
1860Hx900Wx2700L
2000L FOR BASIX REQUIREMENT
1930L FOR DETENTION REQUIREMENT

DISCHARGE TO EXISTING KERB OUTLET
TK 142.36
IL 142.21
TO BE CONFIRMED PRIOR TO CONSTRUCTION.
ALL SERVICES TO BE LOCATED BEFORE PIPE IS LAID AND CONFIRMED BY LOCAL AUTHORITIES.

4.196L SLIMLINE KINGSPAN OSD/RWT
1860Hx900Wx2700L
2000L FOR BASIX REQUIREMENT
1930L FOR DETENTION REQUIREMENT

DISCHARGE TO EXISTING KERB AND GUTTER
TK 141.61
IL 141.46
TO BE CONFIRMED PRIOR TO CONSTRUCTION.
ALL SERVICES TO BE LOCATED BEFORE PIPE IS LAID AND CONFIRMED BY LOCAL AUTHORITIES.

ENSURE FINISH
EXTERNAL SURFACE
SLOPES AWAY FROM
BUILDING FOOTPRINT -
NO PONDNG

DRAINAGE PLAN

SCALE 1:200

- LOCATION OF PITS AND PIPES SHOWN ON PLAN ARE INDICATIVE ONLY.

DESIGN SUMMARY

NORTHERN BEACHES COUNCIL (REGION 2)

DUAL OCCUPANCY DEVELOPMENT

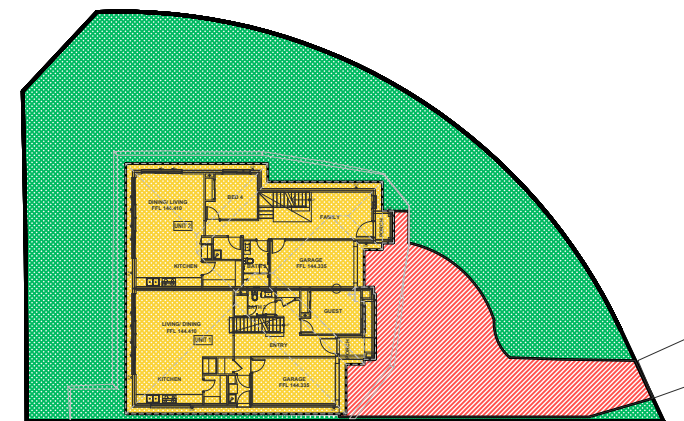
SITE AREA = 866.50 m²

ROOF AREA = 260.00 m²

1:100 ARI 5MIN. = 268 mm/hr

1:20 ARI 5MIN. = 200 mm/hr

- DOWNPIPE SIZE MIN. Ø90, GUTTER SIZE MIN.115 HI FRONT
- ROOF AREA WILL BE COLLECTED INTO OSD/RAINWATER TANK, OVERFLOW FROM OSD/RAINWATER TANK WILL DRAIN INTO EXISTING KERB & GUTTER.
- ALL CHARGED LINES MUST BE OF PRESSURE GRADE AND JOINTS ARE TO BE SOLVENT WELDED
- THE PIPE SYSTEM INCLUDING DOWNPIPES MUST BE CONSTRUCTED FROM SUITABLY DURABLE MATERIALS.
- SEALED CLEANING EYES ARE TO BE PROVIDED AT LOWEST POINTS IN THE SYSTEM AND AT FRONT BOUNDARY PRIOR TO COUNCIL LAND AND SHOULD BE EASE TO ACCESS.



LEGEND

- ROOF AREA DRAIN TO OSD = 260.00 m²
- IMPERVIOUS AREA BYPASS OSD = 129.00 m²
- PERVIOUS AREA BYPASS OSD = 477.50 m²




CATCHMENTS AREA PLAN

SCALE 1:500

ISSUE FOR APPROVAL

www.dialbeforeyoudig.com.au



				REFERENCE COORDINATION DRAWING				GENERAL NOTES:				QUALITY CONTROL				APPROVED:		CLIENT:		ADDRESS:		DRAWING STATUS					
								* THIS DRAWING IS THE COPYRIGHT OF NASTASI & ASSOCIATES CONSULTING CIVIL & STRUCTURAL ENGINEERS, Unit 5/1-3 Myrtle Place/Prestons, 2170, PO Box 604, Hornsby, NSW, 2170.				DESIGNED				DATE						20 GRIMES PLACE, DAVIDSON		CONCEPT PLAN FOR APPROVAL			
				* IT IS NOT ALLOWED TO COPY OR REPRODUCE ITS CONTENTS IN ANY FORM EXCEPT FOR THE PURPOSE WHICH IT IS ISSUED WITHOUT THE ABOVE CONSULTANTS' AUTHORITY.				SH				24.04.2025															
				* DO NOT SCALE THIS DRAWING, ONLY SIZED DIMENSIONS ARE TO BE CONSIDERED.				CONSULTING CIVIL & STRUCTURAL ENGINEERS B.E., M.L.E. AUSTR. CPENG NPFR-3 ABN 65 533 226 008				CHECKED				DATE				DRAINAGE PLAN		SCALE (AT ORIGINAL SIZE) AS NOTED					
				* CONTRACTOR TO VERIFY THE DESIGN / INFORMATION GIVEN IN THIS DRAWING, ANY DISCREPANCIES SHALL BE BROUGHT TO ENGINEERS ATTENTION PRIOR TO COMMENCEMENT OF WORK, FAILURE TO COMPLY WITH THE ABOVE WILL BE CONTRACTORS LIABILITY.				UNIT 5, 1-3 WHYALLA PLACE, PRESTONS NSW 2170 PH: (02) 9607 2884 OR (02) 8798 3617 FAX: (02) 9731 2081 MOB: 0419 401 401				MD				24.04.2025											
A ORIGINAL ISSUE				24.04.2025																		PROJECT NO. 44972		DRAWING NO. C2		REVISION NO. A	
ISSUE				DATE																							
REVISION																											

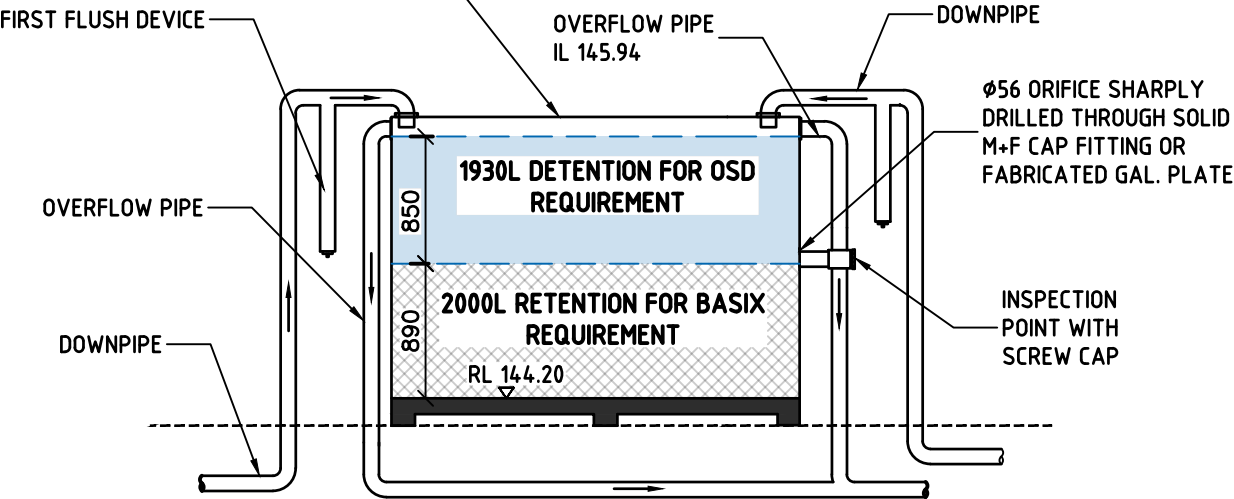
F
E
D
C
B
A

F
E
D
C
B
A

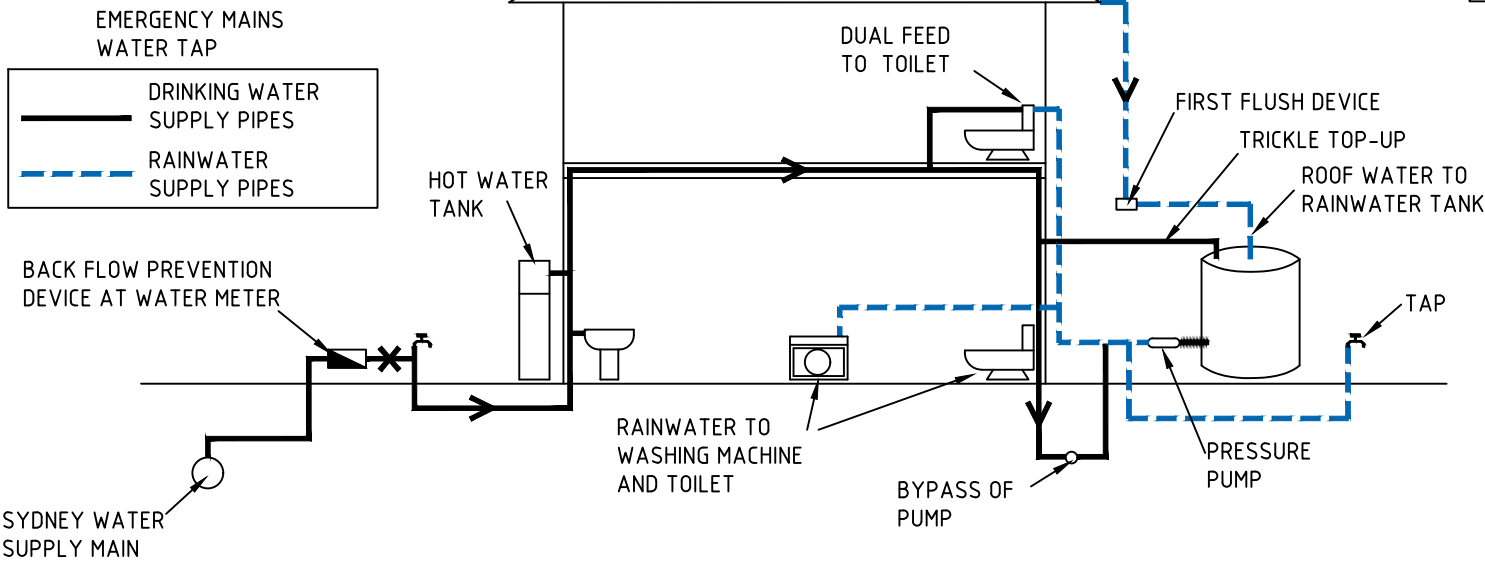
RAINWATER TANK NOTES:

1. RAINWATER TANKS BY KINGSPAN (TEL: 1300 736 562) OR SIMILAR.
2. DIMENSIONS ARE INDICATIVE ONLY. EXACT DETAILS TO MANUFACTURER'S SPECIFICATIONS.
3. A FIRST FLUSH DEVICE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS SHALL BE FITTED TO RAINWATER TANK SYSTEM TO FLUSH OUT THE FIRST 0.5mm OF RUN-OFF FROM THE ROOF AREA THAT DRAINED INTO THE TANK (E.G. 0.5L/m²).
4. PUMP SIZE & SPECIFICATION TO BE NOMINATED BY MANUFACTURER

4196L SLIMLINE KINGSPAN OSD/RWT
1860Hx900Wx2700L
2000L FOR BASIX REQUIREMENT
1930L FOR DETENTION REQUIREMENT



OSD/RWT DETAIL
SCALE 1:50



RAINWATER TANK RE-USE DIAGRAM
NTS

DESIGN SUMMARY

NORTHERN BEACHES COUNCIL (REGION 2)

SITE AREA = 866.50 m²
EXISTING IMPERVIOUS AREA = 0 m² (AS PER DCP CONDITION)
PROPOSED IMPERVIOUS AREA = 389.00 m² (44.90%)

THE PROPOSED DEVELOPMENT IS A SERIES OF DUAL OCCUPANCIES. AS PER NORTHERN BEACHES COUNCIL DCP CLAUSE 9.3.2.6, THE PEAK RATE OF STORMWATER RUNOFF FOR POST DEVELOPMENT SHALL BE RESTRICTED ALL STORMS UP TO THE 1% AEP EVENT.

SITE DISCHARGE ASSESSMENT BY DRAINS ILSAX MODEL

IMPERVIOUS AREA TO OSD = 260.00 m² (UNIT 1 & 2 ROOF)
PERVIOUS AREA TO OSD = 0 m²
AREA BYPASS OSD = 606.50 m² (79.00% IMPERVIOUS)

	PRE DEV	POST DEV				Ø	OSD 1	OSD 2
AEP	Q _{PRE} (l/s)	Q _{OSD1} (l/s)	Q _{OSD2} (l/s)	Q _{BYPASS} (l/s)	Q _{POST} (l/s)	ORIFICE (m ³)	VOLUME (m ³)	VOLUME (m ³)
20	22	3	3	16	22	56	0.64	0.64
5	36	4	4	26	34	56	1.05	1.06
1	57	5	5	41	51	56	1.61	1.62

AT 1% AEP,
OSD VOLUME REQUIRED (UNIT-1) = 1.610 m³
OSD VOLUME PROVIDED (UNIT-1) = 1.930 m³
OSD VOLUME REQUIRED (UNIT-2) = 1.620 m³
OSD VOLUME PROVIDED (UNIT-2) = 1.930 m³
ORIFICE DIAMETER FOR BOTH TANKS = 56 mm

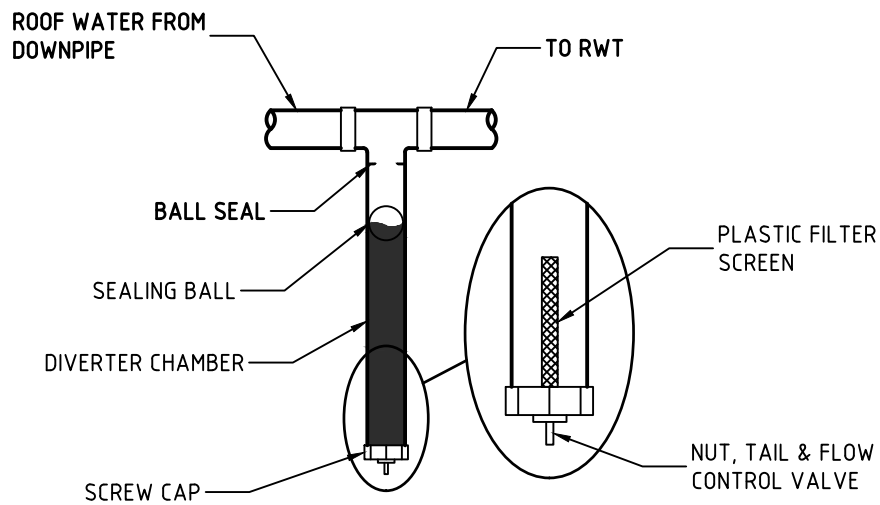
ISSUE FOR APPROVAL



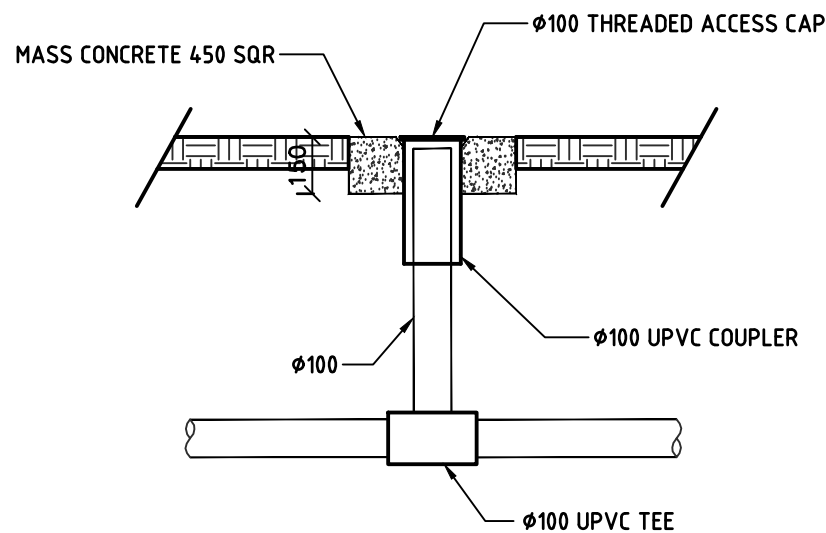
REFERENCE COORDINATION DRAWING				GENERAL NOTES:				QUALITY CONTROL		APPROVED:	CLIENT:	ADDRESS:	DRAWING STATUS
DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.	DISCIPLINE	DRAWING TITLE AND NUMBER	DATE	REV.	DESIGNED	DATE				
ARCH.				FIRE				SH	24.04.2025			20 GRIMES PLACE, DAVIDSON	CONCEPT PLAN FOR APPROVAL
STRUCT.				LANDS				CHECKED	DATE				
MEDIA				CIVIL				MD	24.04.2025	S. NASTASI B.E., M.L.E., CPEng, Nper-3	MERIDIAN HOMES	TITLE: STORMWATER DETAILS	SCALE (AT ORIGINAL SIZE) PROJECT NO. 44972
ELDS				SURVEY									
ISSUE	DATE												AS NOTED
													DRAWING NO. C3
													REVISION NO. A

a3

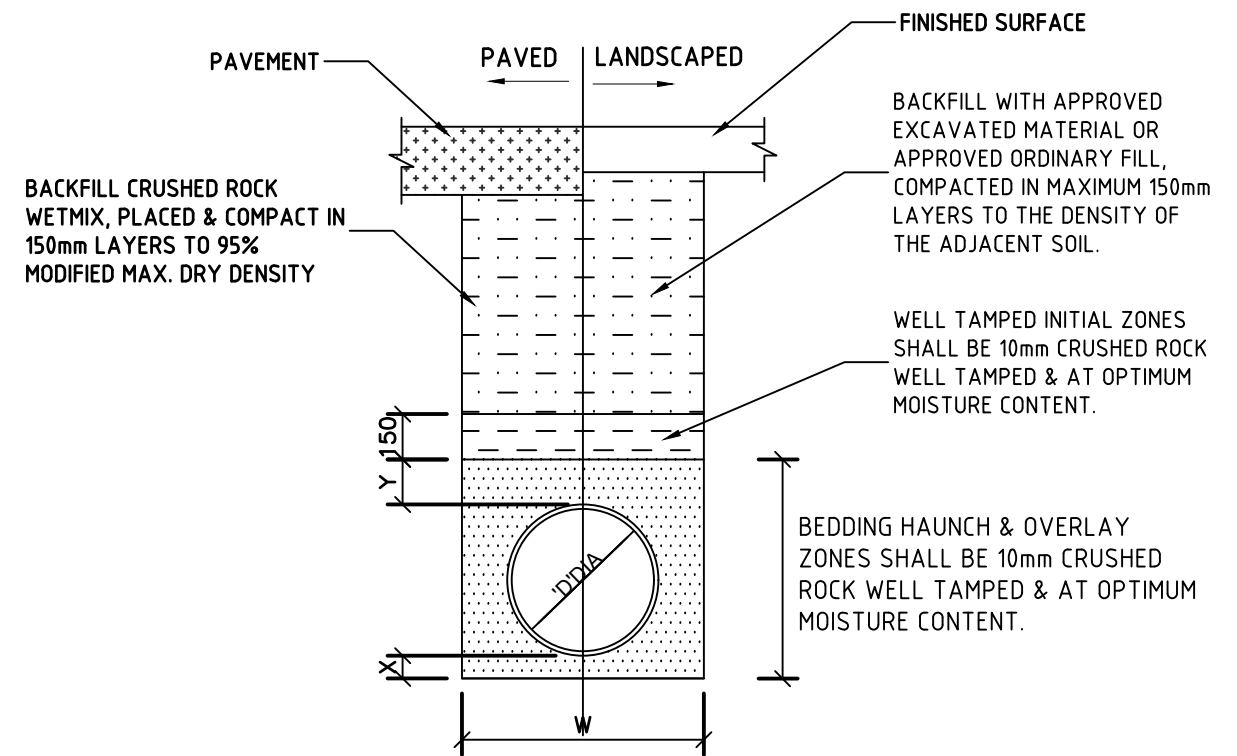
A



FIRST FLUSH DEVICE DETAIL
1:20



CLEANING EYE DETAILS
SCALE 1:20



NOTE:
1 REFER TO PIPE LAYING SPECIFICATIONS FOR DETAILS.


PIPE DIA 'D'	W	X MIN.	Y
100-150	300	75	75
225-300	600	75	75

UPVC PIPE

TYPICAL PIPE LAYING DETAIL
NTS

ISSUE FOR APPROVAL



REFERENCE COORDINATION DRAWING				GENERAL NOTES:				QUALITY CONTROL		APPROVED:	CLIENT:	ADDRESS:	DRAWING STATUS		
								DESIGNED	DATE			20 GRIMES PLACE, DAVIDSON	CONCEPT PLAN FOR APPROVAL		
								SH	24.04.2025				SCALE (AT ORIGINAL SIZE) AS NOTED		
								CHECKED	DATE	S. NASTASI B.E., M.I.E., CPEng, Nper-3	MERIDIAN HOMES	STORMWATER DETAILS	PROJECT NO. DRAWING NO. REVISION NO.		
A ORIGINAL ISSUE								MD	24.04.2025				44972	C4	A