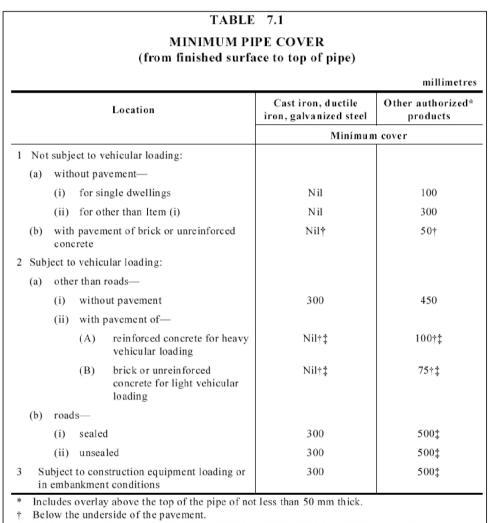
# STORMWATER DRAINAGE PLANS PROPOSED CHILDCARE CENTRE AT 5 MARY STREET, NORTHMEAD

DRAWING REGISTER			
NUMBER	NAME		
SW00	COVER SHEET		
SW01	DRAINAGE PLAN SHEET 1		
SW02	DRAINAGE PLAN SHEET 2		
SW03	DRAINAGE DETAILS		
SW04	EROSION & SEDIMENT CONTROL PLAN		



‡ Subject to compliance with AS 1762, AS 2033, AS/NZS 2566.1, AS 3725 or AS 4060.

<u>AS3500.3</u>

Nominal size	Minimum gradient		Minimum gradient Nominal size	Minimum gradien	
DN	Aust.	NZ	DN	Aust.	NZ
90	1:100	1:90	225	1:200	1:350
100	1:100	1:120	300	1:250	1:350
150	1:100	1:200	375	1:300	1:350

<u>AS3500.3</u>

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REV	DESCRIPTION
А	ISSUE FOR DA APPROVAL

#### GENERAL

- ANY DEVIATIONS FROM LEVELS AND DETAILS SHOWN WITHIN THIS PACKAGE TO BE CONSULTED WITH THE ENGINEER CONSULTANT PRIOR TO ON-SITE CHANGES BEING MADE.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL COUNCIL ENGINEERING SPECIFICATIONS.
- 3. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTS AND OTHER CONSULTANT DRAWINGS. ANY DISCREPANCIES MUST BE REFEREED TO THE ENGINEER BEFORE PROCEEDING
- INSPECTIONS BY THE CERTIFIEING AUTHORITY SHALL BE CARRIED OUT FOR ALL THE CIVIL WORKS PRIOR TO RELEASE OF THE HOLD POINTS INCLUDING THE FOLLOWING STAGES:
- 5.1. PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES
- 5.2. FINAL INSPECTION AFTER ALL WORKS ARE COMPLETED AND 'WORK AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL
- MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.
- VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER.
- 10. THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS ONLY.

#### WARNING

**BEWARE OF UNDERGROUND SERVICES** The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. ocate all underground services before commencement of works

Depth to invert of outlet		Minimum internal dimensions mm		
		Rectangular		Circular
		Width	Length	Diameter
	≤600	450	450	600
>600	≤900	600	600	900
>900	≤1200	600	900	1 000
> 1 200	)	900	900	1 000

<u>AS3500.3</u>

# **EXISTING UNDERGROUND** SERVICES NOTES

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

#### SITEWORKS NOTES

- ORIGIN OF LEVELS:- REFER SURVEY NOTES. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.

REPORTED TO THE CIVIL CONSULTANT.

- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- BASE AND SUB-BASE LAYERS ARE TO BE INSPECTED AND TESTED BY AN INDEPENDENT GEOTECHNICAL TESTING AUTHORITY TO LEVEL 1 RESPONSIBILITY AS DEFINED IN AS3798.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051, COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m<sup>3</sup> OF BASECOURSE MATERIAL PLACED.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m<sup>3</sup> OF SUB-BASE COURSE MATERIAL PLACED.
- SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

#### STORMWATER DRAINAGE NOTES

- 1. ALL PIPES ON DRAWINGS TO BE MIN 1% GRADE UNLESS NOTED OTHERWISE.
- 2. ALL DOWNPIPES TO BE 100Ø PVC UNLESS NOTED OTHERWISE.
- 3. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2'

- SOLVENT WELDED JOINTS.
- TYPE.
- THEIR SOCKETS.
- HEIGHT.

- APPROPRIATE PIPE CLASS.
- (2018).

- FURTHER DIRECTIONS.

PROJECT

CLIENT

PROPOSED CHILDCARE CENTRE AT 5 MARY STREET, NORTHMEAD

JANSEEN DESIGNS

DATE	ISSUED	CHECKED	
30.06.2023	M.Y	M.Y	
			-



APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.

PIPES 300 DIA AND LESS SHALL BE DWV GRADE (CLASS SN8) uPVC WITH

5. EQUIVALENT STRENGTH FRC PIPES MAY BE USED.

ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT

PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON

ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN

9. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75).

10. REFER TO AS/NRS 3725:2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT.

1. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE

12. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2018) AND AS/NZS 3500 3.2

13. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

14. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

15. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

16. GRATES AND COVERS SHALL CONFORM TO AS 3996.

17. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.

18. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

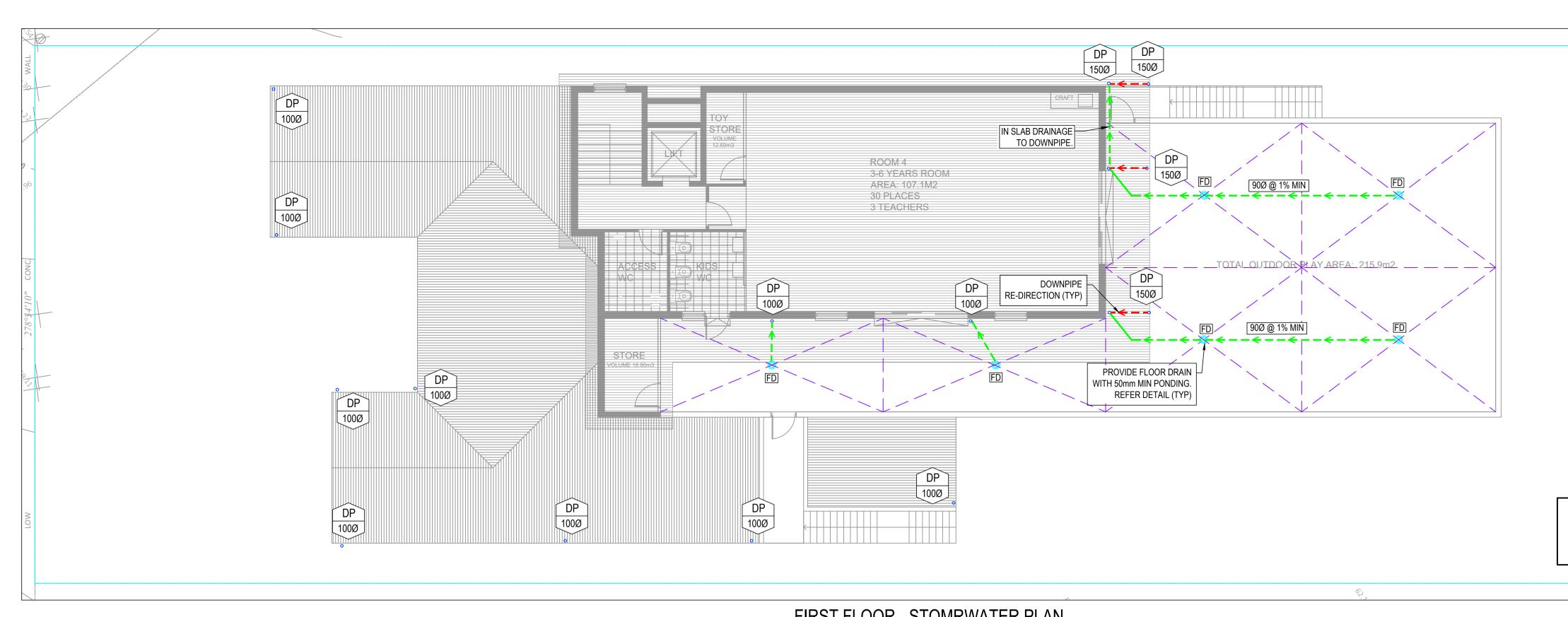
19. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR

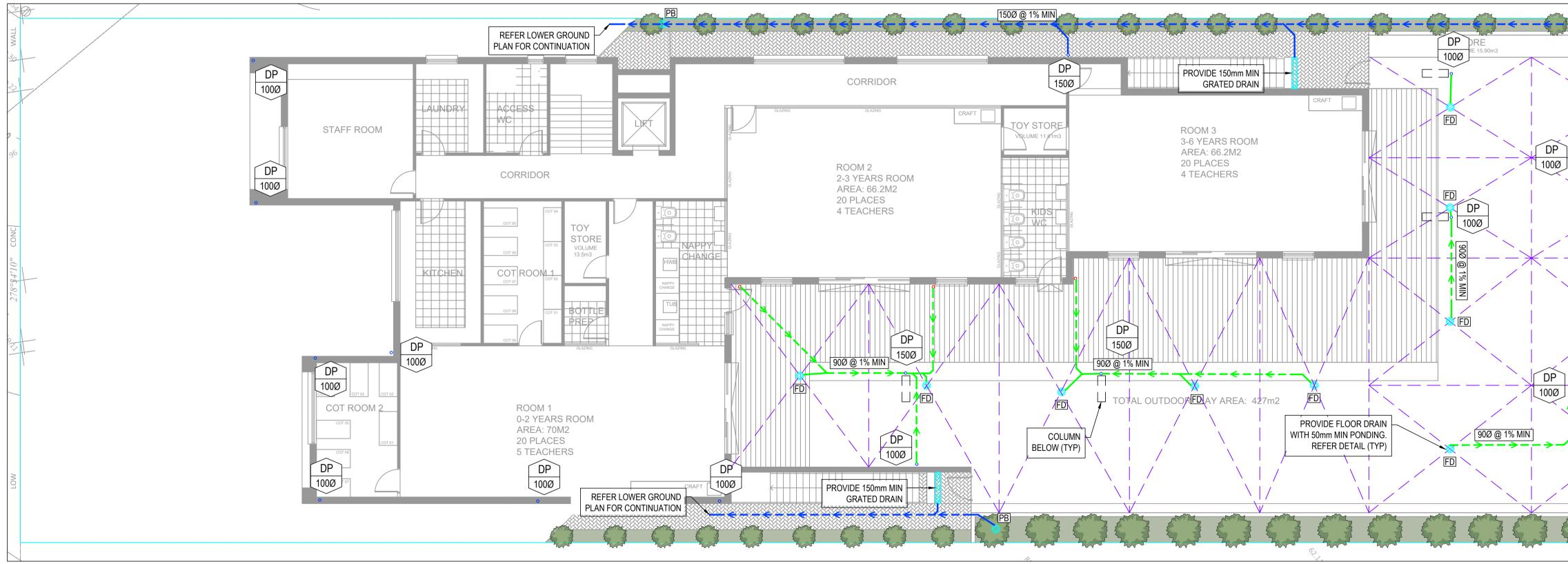
#### DRAWING

## COVER SHEET



PROJECT NO. 230437	drawing no.	revision A	<sup>DATE</sup> 30.06.202	3
scale @ a1 1:100		drawn D.Y	authorised M.Y	
0	SCALE	E 1:100		10n





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#### GROUND FLOOR - STOMRWATER PLAN SCALE 1:100

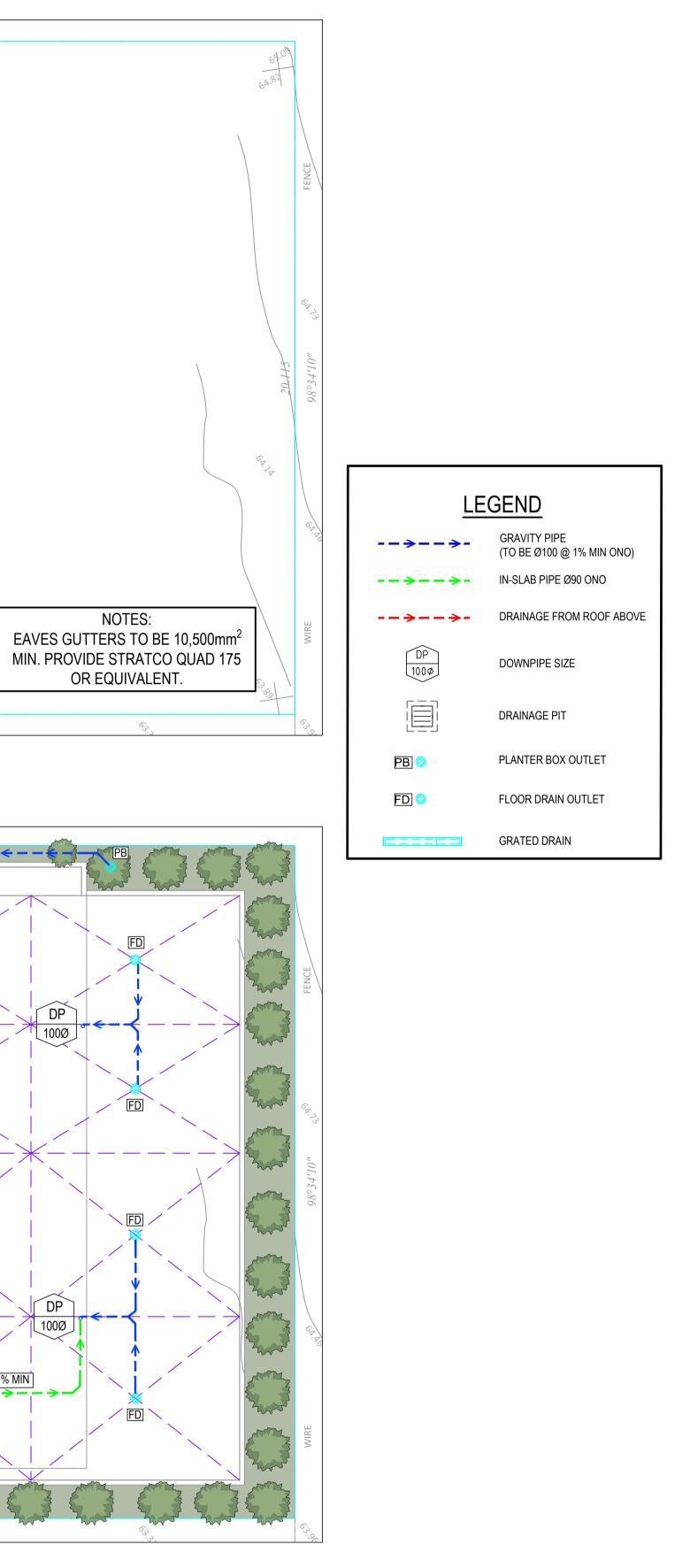
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PROPOSED CHILDCARE CENTRE AT 5 MARY STREET, NORTHMEAD

JANSEEN DESIGNS

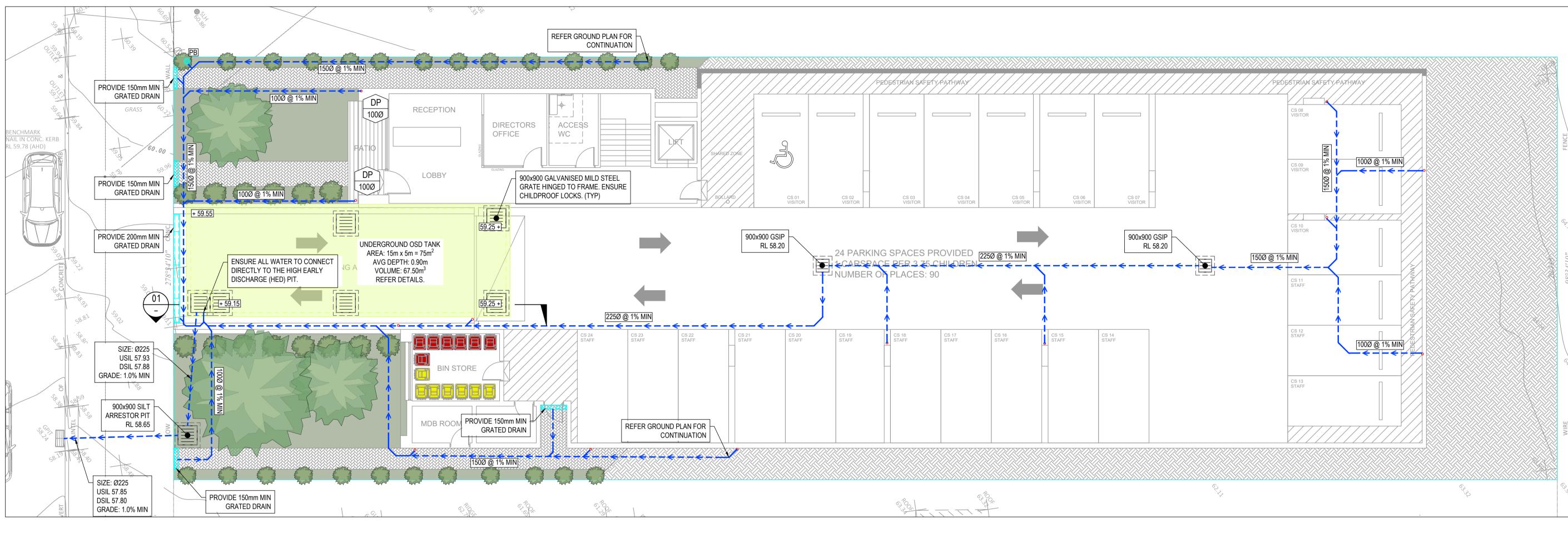


#### DRAWING

#### DRAINAGE PLAN SHEET 1

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PROJECT NO. 230437	drawing no. SW01	revision A	date 30.06.202	3



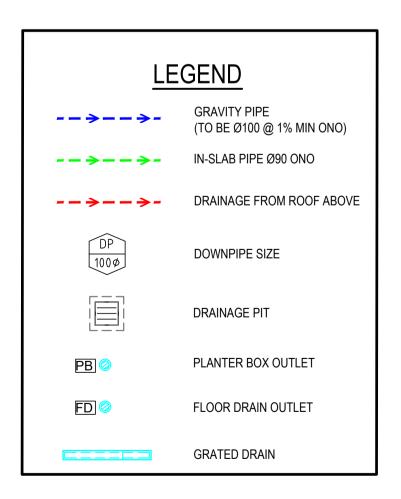


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#### LOWER GROUND - STOMRWATER PLAN SCALE 1:100



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PROPOSED CHILDCARE CENTRE AT 5 MARY STREET, NORTHMEAD

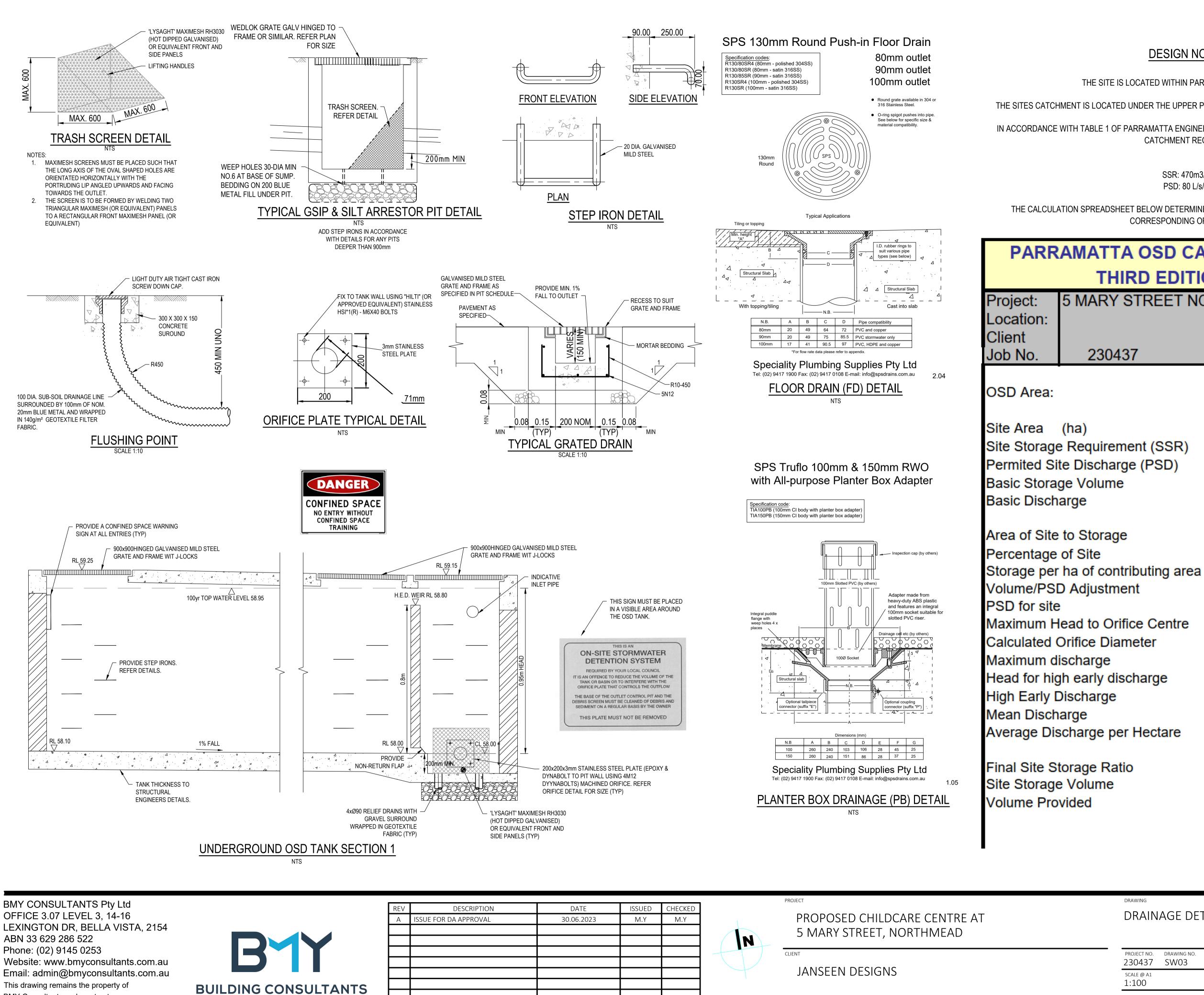
JANSEEN DESIGNS

#### DRAWING

#### DRAINAGE PLAN SHEET 2

PROJECT NO. 230437	drawing no.	REVISION A	<sup>date</sup> 30.06.2023	-
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DATE	ISSUED	CHECKED
30.06.2023	M.Y	M.Y

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# **DESIGN NOTES**

THE SITE IS LOCATED WITHIN PARRAMATTA CITY COUNCIL

THE SITES CATCHMENT IS LOCATED UNDER THE UPPER PARRAMATTA RIVER CATCHMENT TRUST (UPRCT)

IN ACCORDANCE WITH TABLE 1 OF PARRAMATTA ENGINEERING DESIGN GUIDELINES TOONGABBIE CREAK CATCHMENT REQUIRES:

> SSR: 470m3/ha PSD: 80 L/s/ha

THE CALCULATION SPREADSHEET BELOW DETERMINES THE DETENTION SIZE REQUIRED AND THE CORRESPONDING ORIFICE SIZE

# PARRAMATTA OSD CALCULATION THIRD EDITION 5 MARY STREET NORTHMEAD

# 230437

# UPRCT

0.132 ha 470 cu.m/ha 80 L/s/ha 62.13 cu.m 10.58 L/s

### 0.132 100% 100.00 % 470.00 ha 80.15 10.59 L/s 0.950 m 71 mm 10.586 L/s 0.800 m 9.715 92% 10.151 L/s 76.78 L/s/ha

487 cu.m/ha 64.45 cu.m 105% 67.50

#### DRAWING

DRAINAGE DETAILS

