

# 22 HILLCREST AVENUE, MONA VALE

## STORMWATER MANAGEMENT PLAN




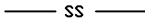

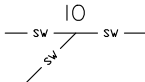
DRAWING INDEX:

- SW-000 LEGEND
- SW-001 PIPE LAYOUT
- SW-002 PIPE LAYOUT – ROOF
- SW-100 DETAILS


NOTES:

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
2. SITE LAYOUT BASED ON ARCHITECTURAL PLANS BY RAMA (NOVEMBER/2024) AND SURVEY PLANS BY CMS SURVEYORS (APRIL/2024).
3. LOCATION OF ALL SERVICES MUST BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
4. ALL STORMWATER DRAINAGE PIPES AND ASSOCIATED DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE RELEVANT STANDARDS, THE BUILDING CODE OF AUSTRALIA, MANUFACTURER’S RECOMMENDATIONS, SYDNEY CATCHMENT AUTHORITY RECOMMENDED PRACTICE, AND LOCAL COUNCIL, AS APPLICABLE.
5. ALL INVERT LEVELS PROVIDED ON THIS DRAWING ARE REDUCED TO AHD AND BASED ON INTERPOLATED SURFACE LEVELS AND SYSTEM REQUIREMENTS.
6. WHERE POSSIBLE, PIPEWORK SHALL BE LOCATED EXTERNAL TO THE BUILDING.
7. DOWNPIPES AND STORMWATER LINES TO BE SEALED DN100 uPVC UNLESS OTHERWISE NOTED.
8. STORMWATER PIPES TO BE GRADED AT A MINIMUM 1% UNLESS NOTED OTHERWISE.
9. ALTERNATIVE GUTTER AND DOWNPIPE CONFIGURATION MAY BE INSTALLED PROVIDED IT COMPLIES WITH AS3500.
10. ALL PIPE AND CONDUITS TO BE MARKED IN ACCORDANCE WITH AS1345 – 1995.
11. TRENCHES AND SERVICE SEPARATIONS IN ACCORDANCE WITH AS/NZS 5601, AS/NZS 3500, AND AS/CA S009.

LEGEND:

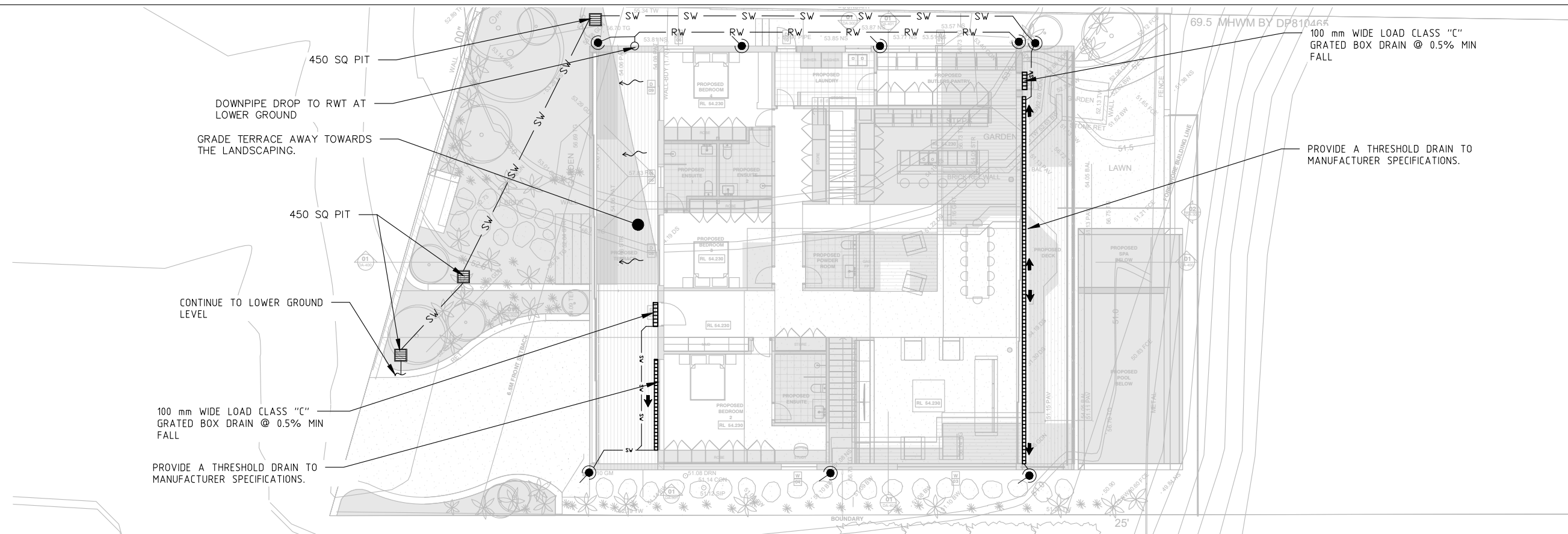
-  DOWNPIPE
-  SW STORMWATER PIPE
-  RW RAINWATER PIPE
-  SS SUBSOIL DRAIN
-  DRAINAGE PIT
-  IO INSPECTION OPENING

NOT FOR CONSTRUCTION

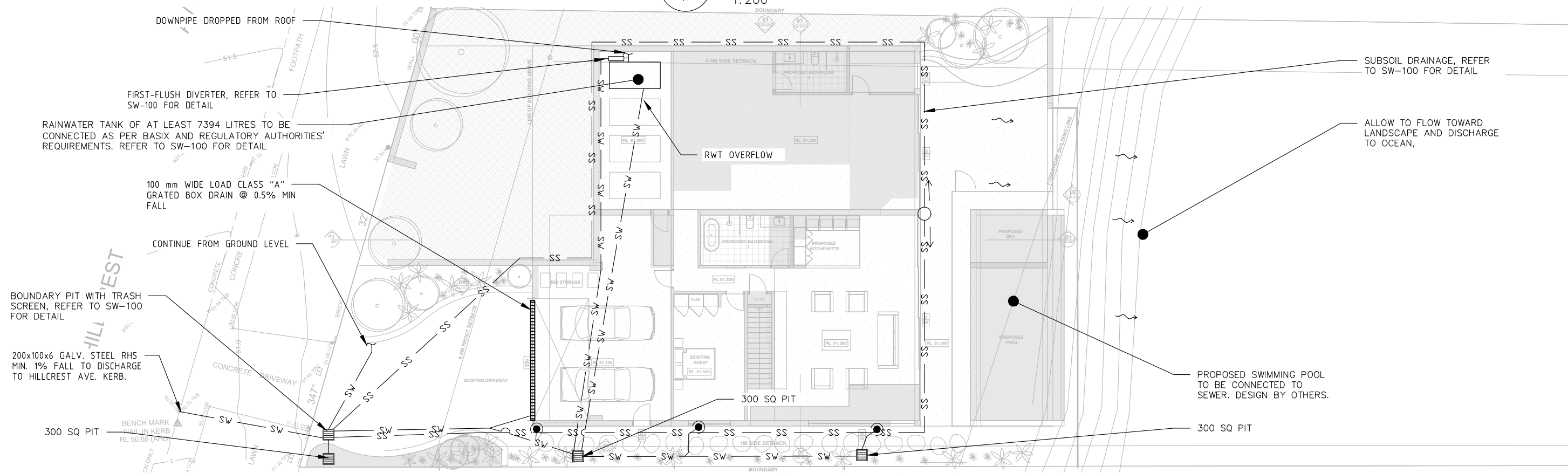
This drawing is confidential and shall only be used for the purposes of this project.				Scale				THE SIGNING OF THIS TITLE BLOCK CONFIRMS THE DESIGN AND DRAFTING OF THIS PROJECT HAVE BEEN PREPARED AND CHECKED IN ACCORDANCE WITH THE STELLEN CONSULTING QUALITY ASSURANCE SYSTEM				22 HILLCREST AVENUE, MONA VALE															
NA				<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>DESIGNED</td><td>AM</td><td>CHECKED</td><td>MH</td></tr> <tr> <td>DRAWN</td><td>AM</td><td>CHECKED</td><td>MH</td></tr> <tr> <td>APPROVED</td><td>MH</td><td>DATE</td><td>02/12/2024</td></tr> </table>				DESIGNED	AM	CHECKED	MH	DRAWN	AM	CHECKED	MH	APPROVED	MH	DATE	02/12/2024	 Stellen				LEGEND			
DESIGNED	AM	CHECKED	MH																								
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DO NOT SCALE. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED				Stellen Consulting ABN 61 149 095 189				Size A3		Status FOR DA SUBMISSION		Dwg No. P171434-DR-SW-000		Rev. 0													

REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
0	AM	02/12/2024	FOR DA SUBMISSION	MH



PLAN 1  
PIPE LAYOUT-GROUND FLOOR  
1:200



PLAN 2  
PIPE LAYOUT-LOWER GROUND FLOOR  
1:200

NOT FOR CONSTRUCTION

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	0	AM	02/12/2024	FOR DA SUBMISSION

Scale  
**1:200**

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22 HILLCREST AVENUE, MONA VALE			
PIPE LAYOUT			
Size	Status	Drw No.	Rev.
A3	FOR DA SUBMISSION	P171434-DR-SW-001	0

**NOMENCLATURE**  
 DP - DOWNPIPE  
 EG - EAVES GUTTER  
 RWO - RAINWATER OUTLET, REFER TO SW-100 FOR DETAILS.

**GUTTER SIZING**  
 EAVE GUTTER DESIGNED TO ARI (20YR:203mm/hr)  
 EG1 - MIN CSA 8,000 mm<sup>2</sup>

**LEGEND**

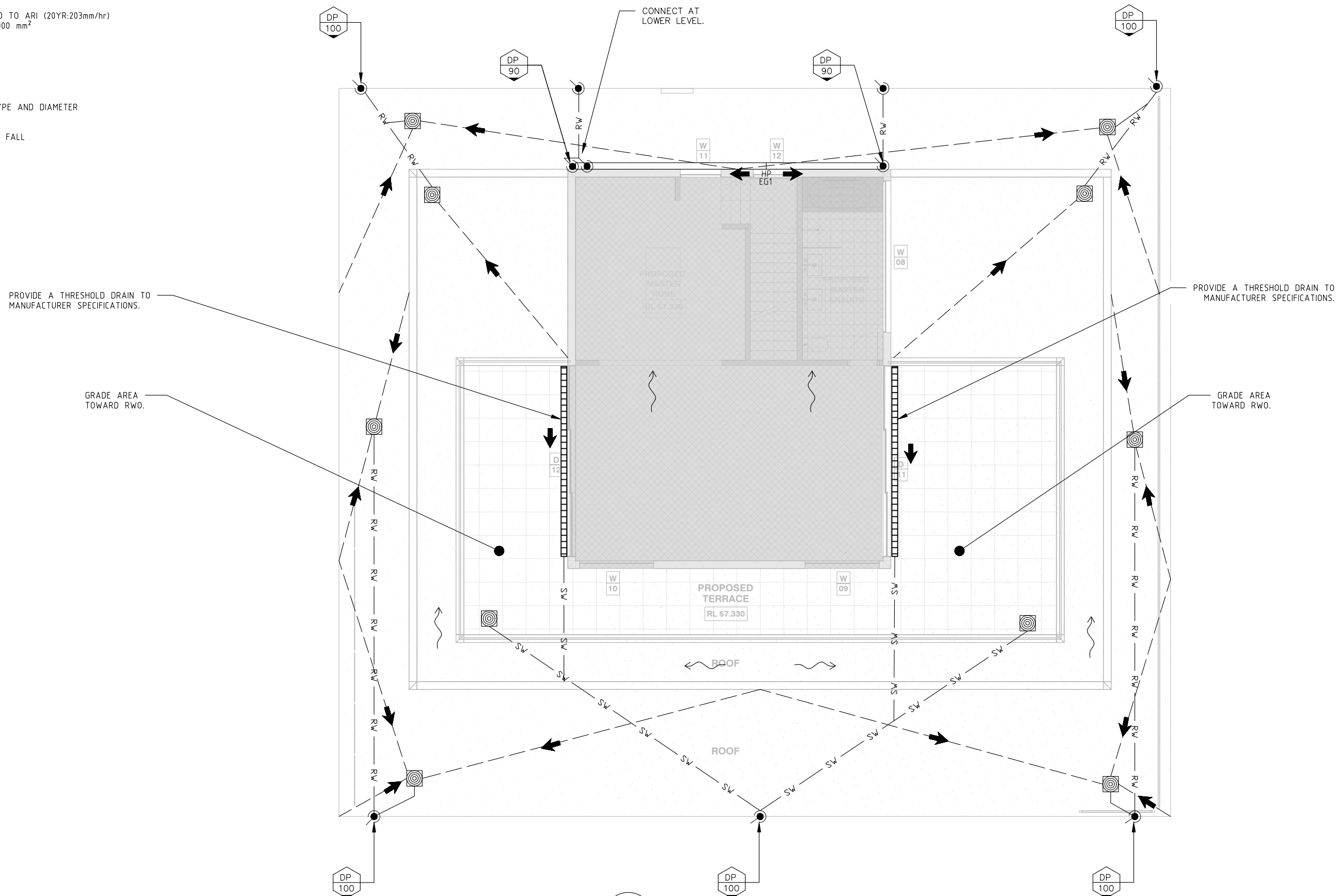
TYPE DIA DOWNPIPE TYPE AND DIAMETER

DIRECTION OF FALL

DP

FOLD

RWO



PLAN 3  
 ROOF LAYOUT  
 1:100

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REVISIONS	No.	BY	DATE	DESCRIPTION	APPD
	0	AM	02/12/2024	FOR DA SUBMISSION	MH

Scale  
**1:100**

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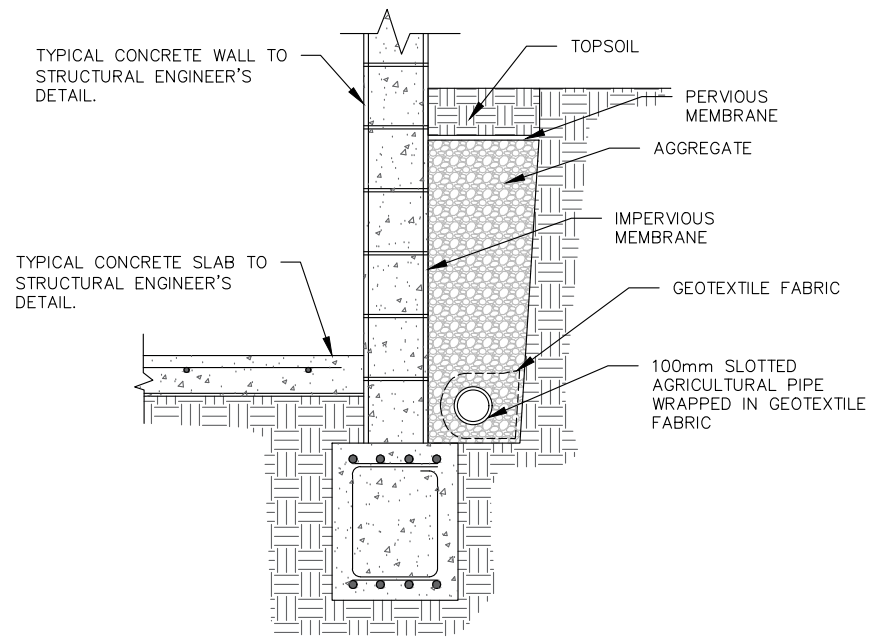
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APPROVED	MH	DATE	02/12/2024



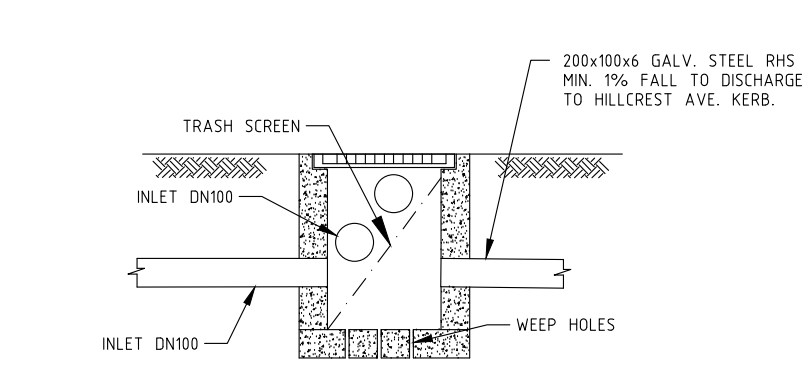
22 HILLCREST AVENUE, MONA VALE

ROOF LAYOUT

Size	A3	Status	FOR DA SUBMISSION	Drwg No.	P171434-DR-SW-002	Rev.	0
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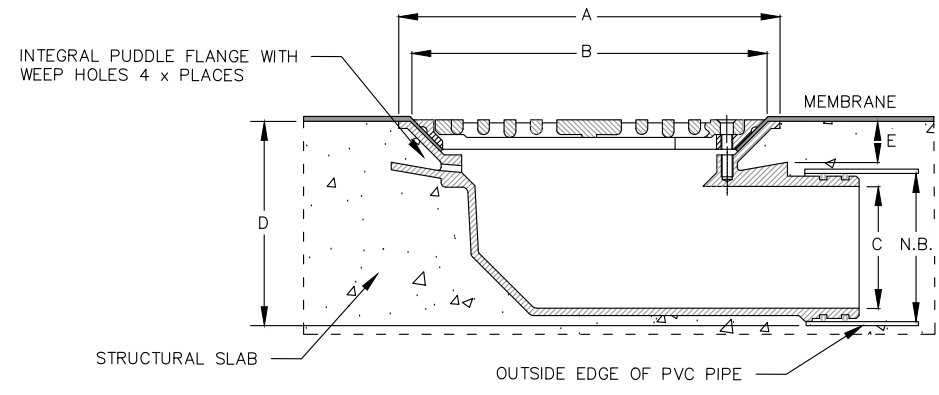
**DETAIL 1**  
TYPICAL DETAILS FOR SUBSOIL DRAINAGE  
NOT TO SCALE



**DETAIL 2**  
450 SQUARE MEDIUM DUTY PIT  
NOT TO SCALE

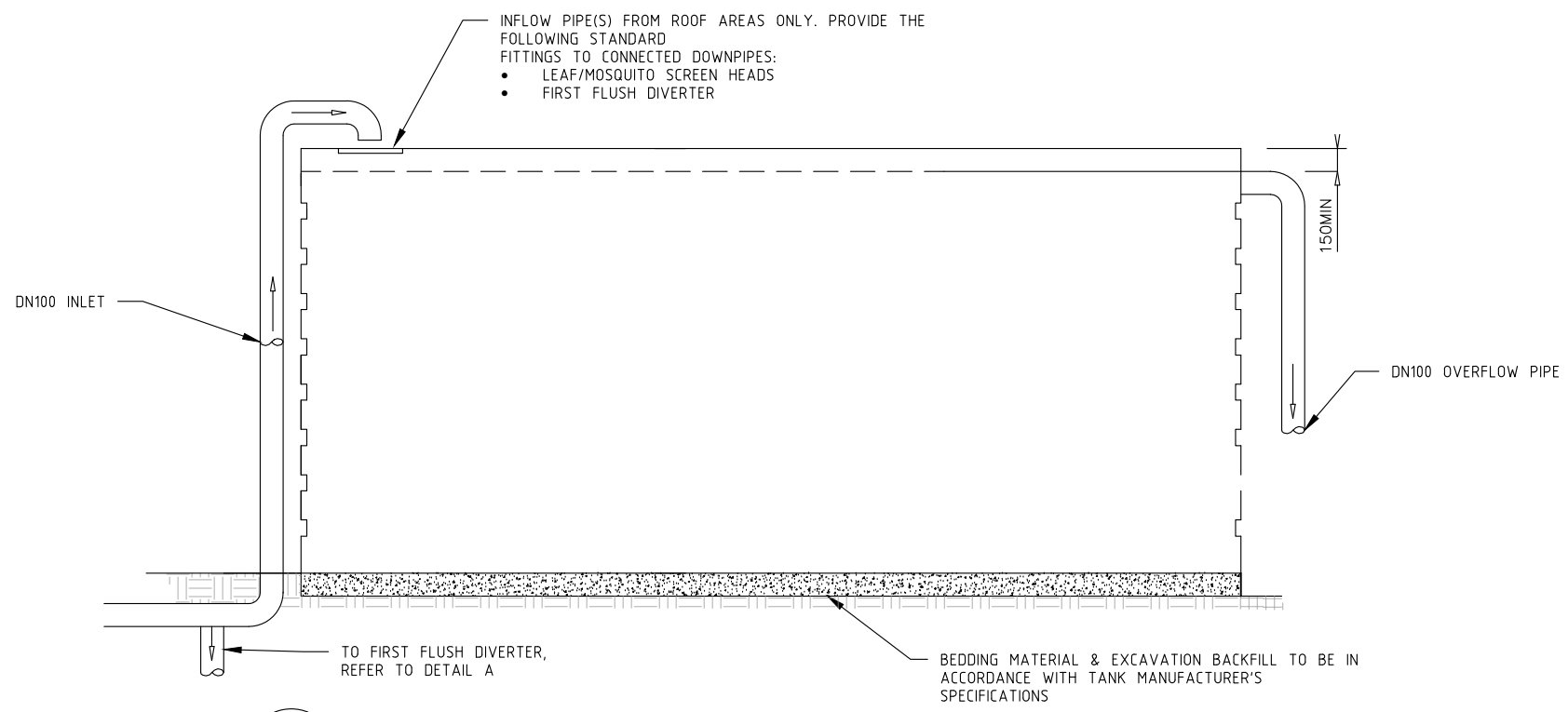
- NOTES:
- 'LYSAGHT' MAXIMESH RH3030 (HOT DIPPED GALVANISED) OR EQUIVALENT.
  - MAXI MESH SCREENS MUST BE PLACED SUCH THAT THE LONG AXIS OF THE OVAL SHAPED HOLES ARE ORIENTATED HORIZONTALLY WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING TOWARDS THE OUTLET
  - 20DIA AT 150 SPACING AT BASE OF SUMP. BEDDING TO BE 100 THICK SAND/GRAVEL MATERIAL.

MEMBRANE RING FASTENS TO BODY INDEPENDENTLY OF GRATE TO ALLOW ACCESS TO SUMP WITHOUT BREAKING MEMBRANE SEAL.



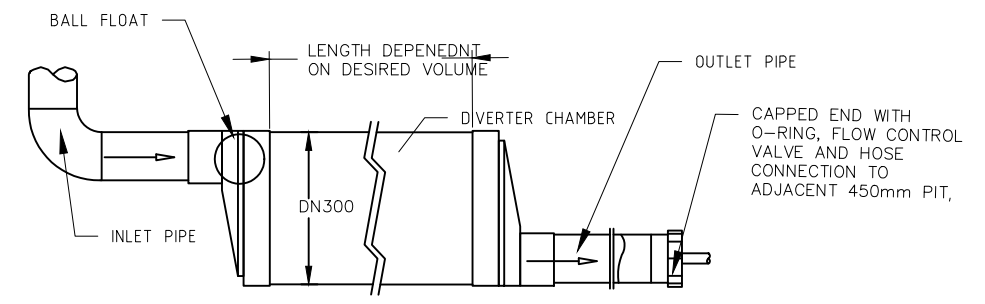
**DETAIL 3**  
TYPICAL DETAILS FOR CAST IN SLAB SPS  
NOT TO SCALE

N.B.	A	B	C	D	E
100	260	240	62	140	28



**DETAIL 4**  
TYPICAL RAINWATER REUSE TANK ELEVATION  
NOT TO SCALE

- NOTES:
- RAINWATER TANK TO BE AT LEAST 7394 LITRES.
  - RAINWATER TANK MUST MEET, AND BE INSTALLED IN ACCORDANCE WITH, THE REQUIREMENTS OF ALL APPLICABLE REGULATORY AUTHORITIES.
  - THE APPLICANT MUST CONFIGURE THE RAINWATER TANK TO COLLECT RAINWATER RUNOFF FROM AT LEAST 120 SQUARE METRES OF ROOF AREA.
  - THE APPLICANT MUST CONNECT THE RAINWATER TANK TO
    - ALL TOILERS IN THE DEVELOPMENT
    - THE COLD WATER TAP THAT SUPPLIES EACH CLOTHES WASHER IN THE DEVELOPMENT
    - A TAP LOCATED WITHIN 10 METERS OF THE EDGE OF THE POOL AND OUTDOOR SPA



**DETAIL A**  
IN GROUND FIRST FLUSH DIVERTER  
NOT TO SCALE

- NOTES:
- INSTALL WITH MINIMUM 5 DEGREE SLOPE.
  - DIVERTER VOLUME TO BE MIN 70L (1m of DN 300).