


## STORMWATER DRAINAGE NOTES:

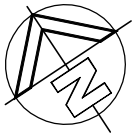
- ALL PIPES TO BE 100mm Ø uPVC, LAID AT 1% MINIMUM GRADE TO AS1254.2002 U.N.O.
- ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D BELOW PAVEMENTS. (NO COMPACTION IS REQUIRED BELOW LANDSCAPING).
- COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH GRANULAR MATERIAL AS SPECIFIED.
- DOWNPIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE CLEANING EYES AND LEAF CATCHERS TO ALL DOWNPIPES.
- ALL WORK TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS AND SPECIFICATIONS.
- ALL LEVELS SHOWN ARE TO AHD.
- ENSURE THAT ALL PITS AND STORMWATER PIPES ARE LOCATED CLEAR FROM TREE ROOT SYSTEMS.
- ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO uPVC.
- ALL WORKS TO BE IN ACCORDANCE WITH AS3500.3-2003 NATIONAL PLUMBING AND DRAINAGE CODE PART 3 - STORMWATER DRAINAGE.
- SUBSOIL DRAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AS3500.3 ALONGSIDE WALLS THAT IMPEDE THE NATURAL FLOW OF GROUNDWATER. THIS MAY ALSO INVOLVE TRENCHING INTO THE CLAY OR ROCK SUBGRADE TO DIRECT GROUNDWATER AWAY FROM STRUCTURES.
- EXISTING ROOF DRAINAGE AND SITE DRAINAGE SYSTEM TO BE CHECKED AND UPGRADED AS REQUIRED. BUILDER TO INSPECT AND UPGRADE DRAINAGE IN ACCORDANCE WITH AS3500.3 IF REQUIRED.

## RAINWATER STORAGE / REUSE NOTES:

- THE RAINWATER TANK IS TO BE INSTALLED AND USED AS PER BASIX REQUIREMENTS AND SYDNEY WATER AND NSW HEALTH REQUIREMENTS FOR NON DRINKING USE ONLY.
- ALL CONNECTIONS TO PLUMBING AND RAINWATER TANKS IS TO BE IN ACCORDANCE WITH SYDNEY WATERS 'GUIDE TO INSTALLING A RAINWATER TANK' AVAILABLE AT: [WWW.SYDNEYWATER.COM.AU](http://WWW.SYDNEYWATER.COM.AU).
- PROVIDE DUAL SUPPLY SYSTEM AND BACKFLOW PREVENTION SYSTEM IN ACCORDANCE WITH 'BASIX - DESIGN GUIDE FOR SINGLE DWELLINGS' BY NSW DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES.
- IF NOT SPECIFIED ON PLANS, THE FIRST FLUSH SYSTEM IS TO HAVE A MINIMUM SIZE OF 20L PER 100 m<sup>2</sup> OF ROOF CATCHMENT AREA PRIOR TO ENTERING THE RAINWATER TANK. INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF LARGER VOLUMES OF FIRST FLUSH RAINWATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK WITH LOCAL HEALTH AUTHORITIES.
- SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING.
- FIRST FLUSH DEVICES, OR APPROVED ALTERNATIVE TO BE INSTALLED WITH AND AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES. REFER TYPICAL FLUSH OUT PIT FOR DETAILS.
- BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK SUITABILITY TO BE READ AND ADHERED TO.
- BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK - HB 230- 2008. IF IN DOUBT CONTACT ENGINEER.
- RAINWATER TANK TO BE WATERPROOFED IN ACCORDANCE WITH HB-230-2008.
- ORIFICE PLATE (IF APPLICABLE) TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE ROOF DRAINAGE SYSTEM AND CONNECTION OF THE STORMWATER SYSTEM TO THE OSD TANK.

| SITE INFORMATION SUMMARY  |                             |
|---|-----------------------------|
| COUNCIL   | NORTHERN BEACHES (REGION 1) |
| SITE AREA   | 770.6 m <sup>2</sup>        |
| EXISTING IMPERVIOUS AREA (APPROXIMATE)  | 283 m <sup>2</sup> (37%)    |
| PROPOSED IMPERVIOUS AREA (APPROXIMATE)  | 378 m <sup>2</sup> (49%)    |
| INCREASE  | 95 m <sup>2</sup>           |
| SINCE THE IMPERVIOUS AREA EXCEEDS 50 m <sup>2</sup> , OSD IS REQUIRED FOR THIS DEVELOPMENT. |                             |
| <u>ONSITE DETENTION REQUIREMENTS PROVIDED BELOW:</u>  |                             |
| SSR = 6 m <sup>3</sup>  |                             |
| OSD DISCHARGE RATE = 3 l/s (1% AEP)   |                             |
| PRE DEVELOPMENT SITE DISCHARGE  |                             |
| 20% AEP = 19 l/s  |                             |
| 5% AEP = 30 l/s   |                             |
| 1% AEP = 44 l/s   |                             |
| POST DEVELOPMENT SITE DISCHARGE   |                             |
| 20% AEP = 19 l/s (3 l/s FROM OSD)   |                             |
| 5% AEP = 29 l/s (3 l/s FROM OSD)  |                             |
| 1% AEP = 42 l/s (3 l/s FROM OSD)  |                             |
| BYPASS = 676 m <sup>2</sup>   |                             |

|   |   |          |                      |   |         |                                    |                        |                       |                |   |
|---|---|----------|----------------------|---|---------|------------------------------------|------------------------|-----------------------|----------------|---|
|   |   |          | Client               | <div></div> <div>APPROVED CONSULTING ENGINEERS</div> | Project | 45A RIVIERA AVENUE<br>AVALON BEACH |                        |                       | Designed<br>CH | 25/06/25                                      |
| C | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - LEVEL SPREADER ADDED | 25/06/25 | Architect / Designer |   |         | Checked<br>CH                      | Approved<br>CH         | Scale<br>1 : 200      |                |   |
| B | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - OSD SUMMARY AMENDED  | 17/06/25 | JJ DRAFTING          |   | Title   | GENERAL NOTES                      | Drawing number<br>SW01 | Job number<br>2025037 | Revision<br>C  |   |
| A | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION                        | 10/06/25 |                      |   |         |                                    |                        |                       |                | PO BOX: 1510, DEE WHY<br>ABN - 90 645 409 801 |
|   | AMENDMENT   | DATE     |                      |   |         |                                    |                        |                       |                |   |
|   |   |          |                      |   |         |                                    |                        |                       |                |   |



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TITLE INDICATES THAT LOT 2 IN D.P.528345 IS SUBJECT TO:  
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)  
- B144628 COVENANT AFFECTING PARTS (NOT INVESTIGATED)  
- J163005 COVENANT AFFECTING PART (NOT INVESTIGATED)  
- J895264 COVENANT (NOT INVESTIGATED)  
- J895264 RIGHT OF CARRIAGEWAY & EASEMENT FOR SERVICES APPURTENANT TO THE LAND WITHIN DESCRIBED AFFECTING PART OF LOTS 15-19 & 25-30 IN DP219898  
- J895264 RIGHT OF CARRIAGEWAY AND EASEMENT FOR SERVICES AFFECTING THE PART OF THE LAND ABOVE DESCRIBED SHOWN AS RIGHT OF WAY 12 FT WIDE IN DP528345  
- J937868 RIGHT OF CARRIAGEWAY AND EASEMENT FOR SERVICES APPURTENANT TO THE LAND WITHIN DESCRIBED AFFECTING THE LAND DESIGNATED S & T WITHIN LOT 26 IN DP219898 (REMOTE TO SITE)  
- J940130 RIGHT OF CARRIAGEWAY AND EASEMENT FOR SERVICES APPURTENANT TO THE LAND WITHIN DESCRIBED AFFECTING THE LAND DESIGNATED U WITHIN LOT 27 IN DP219898 (REMOTE TO SITE)  
- L128474 COVENANT (NOT INVESTIGATED)

FIRST FLUSH AND BLEED  
LINE LOCATED AT CHARGED  
SYSTEM LOW POINT

OSD TANKS LOCATED BELOW GROUND FLOOR  
WITH 400mm (min) CLEARANCE TO UNDERSIDE  
OF FLOOR STRUCTURE FOR ACCESS AND  
MAINTENANCE. 6000 L TOTAL OSD STORAGE  
REFER DETAILS

450 SQ OSD CONTROL PIT  
RL 67.40  
CL 67.10 (ORIFICE CENTRELINE)  
IL 66.90 (PIT INVERT)

450 SQ DISPERSION PIT  
RL 64.75  
IL 64.35

NOTE:  
DUE TO THE SITE'S SIGNIFICANT TOPOGRAPHIC AND GEOLOGICAL CONSTRAINTS—  
SPECIFICALLY THE PRESENCE OF EXPOSED ROCK OUTCROP AND A 4-6M VERTICAL  
FALL FROM THE DEVELOPED PLATFORM TO THE STREET—THE STORMWATER  
DISCHARGE HAS BEEN DIRECTED TO A TRENCH GRATED LEVEL SPREADER WITHIN  
THE SITE BOUNDARY. A DIRECT PIPE CONNECTION TO THE KERB IS NOT FEASIBLE  
WITHOUT EXTENSIVE ROCK EXCAVATION AND MAJOR STRUCTURAL WORKS NEAR A  
SHEER DROP AT THE STREET FRONTAGE. THIS DESIGN APPROACH MITIGATES  
EROSION RISK, PRESERVES EXISTING SITE STABILITY, AND ALIGNS WITH  
ENVIRONMENTALLY SENSITIVE DRAINAGE OUTCOMES. REFER TO ACCOMPANYING  
ENGINEERING JUSTIFICATION LETTER FOR FURTHER DETAIL.

NOTE: ADDITIONAL SUBSOIL AND SURFACE  
DRAINAGE TO BE PROVIDED AS REQUIRED IN  
ACCORDANCE WITH AS.3500.3 AND NCC  
REQUIREMENTS

NOTE: ALL DRAINAGE LINES SHOWN ARE  
INDICATIVE ONLY. LOCATION MAY VARY ON  
SITE DUE TO CONSTRAINTS

NOTE: ALL EXISTING SURFACE DRAINAGE TO  
BE RETAINED IS TO BE UPGRADED BY THE  
BUILDER IN ACCORDANCE WITH AS3500.3

## SITE DRAINAGE PLAN

SCALE 1:200

| LEGEND      |   |
|-------------|---|
| DP1 - xxx ● | DP1 - 100mm Ø DOWNPIPE TO RAINWATER TANK<br>xxx - ROOF CATCHMENT AREA TO DOWNPIPE   |
| —           | 100mm Ø uPVC SEWER GRADE STORMWATER<br>PIPELINE, UNO  |
| S/S         | STORMWATER PIPELINE OUT OF GROUND AND<br>CLIPPED TO SOFFIT OF FLOOR STRUCTURE OVER OR<br>TO WALL OR TO ROCK FACE. USE SEWER GRADE PIPE<br>ONLY. |
| GDE         | 150 (W) x 150 (D) CAST INSITU GRATED DRAIN  |
| >           | GRAVITY LINE PROVIDE 1% (MIN) FALL IN DIRECTION<br>INDICATED, UNO.  |
| >           | CHARGED LINE. PROVIDE 1000 (MIN) SEWER GRADE<br>PIPE (UNO) WITH BLEED LINE LOCATED AT CHARGED<br>SYSTEM LOW POINT.                              |
| fall        | SURFACE TO FALL IN DIRECTION INDICATED BY<br>ARROW 1% MINIMUM FALL OR TO NCC<br>REQUIREMENTS (WHICHEVER IS GREATER)                             |
| —           | ARROW INDICATES DIRECTION OF ROOF SLOPE.<br>REFER ARCHITECTURAL PLANS FOR ROOF PITCH  |
| —           | CHARGED SYSTEM BELOW GROUND FIRST FLUSH.<br>REFER SW01 GENERAL NOTES FOR SIZING<br>GUIDELINES   |
| —           | BLEED LINE. REFER DETAILS   |
| —           | STORMWATER PIT. REFER DETAILS   |
| FD          | 200 x 200 FLOOR DRAIN BY SPS OR APPROVED<br>EQUIVALENT. PROVIDE 100mm Ø uPVC OUTLET   |

### DIAL BEFORE YOU DIG NOTICE

NO INVESTIGATION OF UNDERGROUND SERVICES  
HAS BEEN MADE. ALL RELEVANT AUTHORITIES  
SHOULD BE NOTIFIED PRIOR TO ANY  
EXCAVATION ON OR NEAR THE SITE

DEVELOPERS & EXCAVATORS MAY BE HELD  
FINANCIALLY RESPONSIBLE BY THE ASSET OWNER  
SHOULD THEY DAMAGE UNDERGROUND NETWORKS.


#### CARELESS DIGGING CAN:

- CAUSE DEATH OR SERIOUS INJURY TO  
WORKERS AND THE GENERAL PUBLIC
- INCONVENIENCE USERS OF ELECTRICITY,  
GAS, WATER AND COMMUNICATIONS
- LEAD TO CRIMINAL PROSECUTION AND  
DAMAGES CLAIMS
- CAUSE EXPENSIVE FINANCIAL LOSSES  
TO BUSINESS
- CUT OFF EMERGENCY SERVICES
- DELAY PROJECT COMPLETION TIMES  
WHILE THE DAMAGE IS REPAIRED

MINIMISE YOUR RISK AND DIAL  
BEFORE YOU DIG. — TEL. 1100

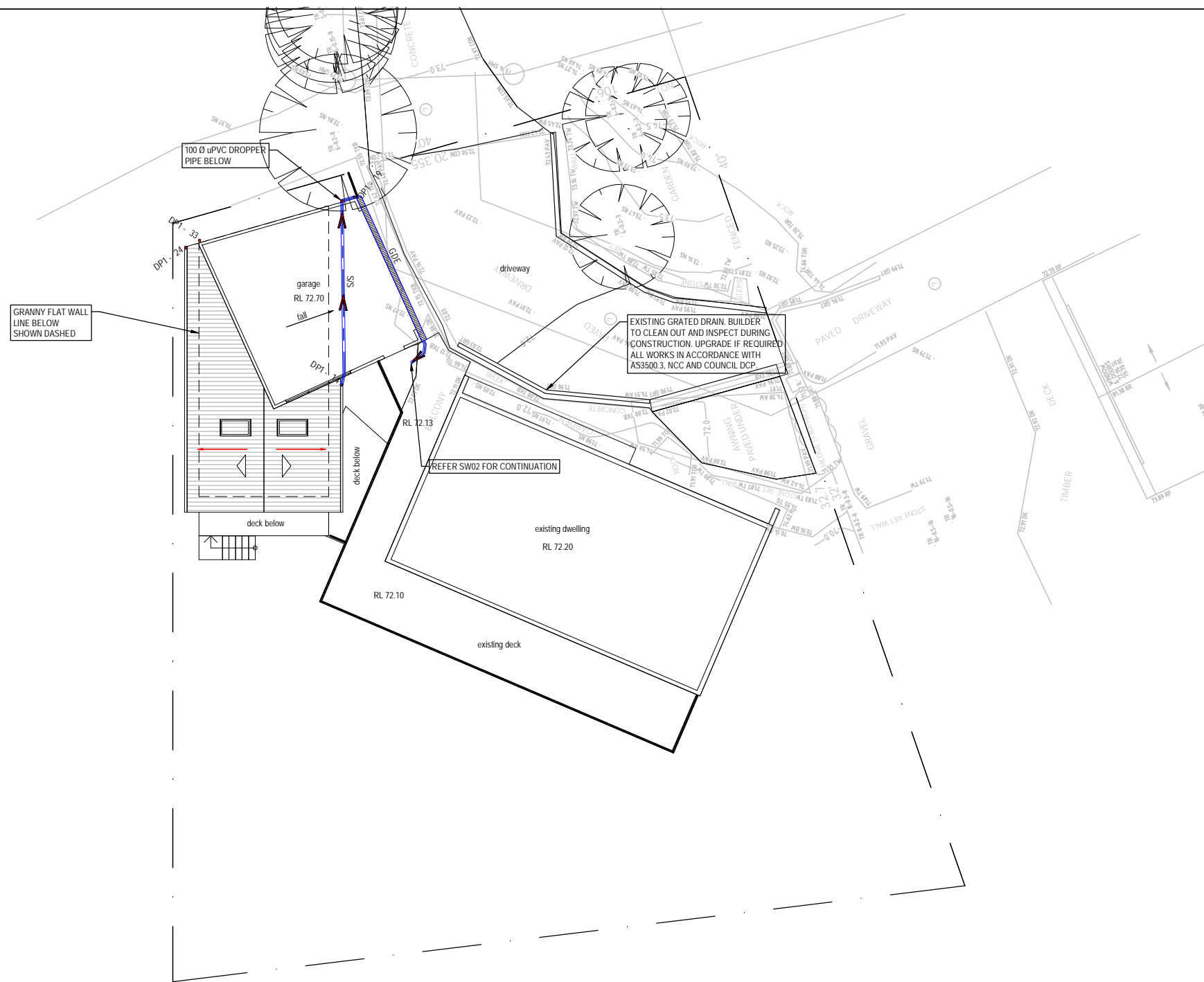
[www.dialbeforeyoudig.com.au](http://www.dialbeforeyoudig.com.au)



|   |   |          |   |                      |   |         |                                    |                       |         |                |            |    |          |
|---|---|----------|---|----------------------|---|---------|------------------------------------|-----------------------|---------|----------------|------------|----|----------|
|   |   |          | Client  | DR BERNHARD HURZELER |  | Project | 45A RIVIERA AVENUE<br>AVALON BEACH |                       |         | Designed       | 25/06/25   |    |          |
|   |   |          |   |                      |   |         |                                    |                       | Checked | CH             | Approved   | CH | Scale    |
| C | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - LEVEL SPREADER ADDED | 25/06/25 | Architect / Designer                          | JJ DRAFTING          |   |         | Title                              | SITE<br>DRAINAGE PLAN |         | Drawing number | Job number |    | Revision |
| B | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - OSD SUMMARY AMENDED  | 17/06/25 | PO BOX: 1510, DEE WHY<br>ABN - 90 645 409 801 |                      |   |         |                                    |                       |         |                |            |    |          |
| A | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION                        | 10/06/25 |   |                      |   |         |                                    |                       |         |                |            |    |          |
|   | AMENDMENT   | DATE     | APPROVED CONSULTING ENGINEERS                 |                      |   |         |                                    |                       |         |                |            |    |          |




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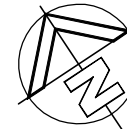


| LEGEND      |  |
|-------------|--|
| DP1 - xxx ● | DP1 - 100mm Ø DOWNPIPE TO RAINWATER TANK<br>xxx - ROOF CATCHMENT AREA TO DOWNPIPE  |
| —           | 100mm Ø uPVC SEWER GRADE STORMWATER PIPELINE, UNO  |
| S/S         | STORMWATER PIPELINE OUT OF GROUND AND CLIPPED TO SOFFIT OF FLOOR STRUCTURE OVER OR TO WALL OR TO ROCK FACE. USE SEWER GRADE PIPE ONLY. |
| GDE         | 150 (W) x 150 (D) CAST INSITU GRATED DRAIN   |
| >           | GRAVITY LINE PROVIDE 1% (MIN) FALL IN DIRECTION INDICATED, UNO.  |
| fall        | SURFACE TO FALL IN DIRECTION INDICATED BY ARROW 1% MINIMUM FALL OR TO NCC REQUIREMENTS (WHICHEVER IS GREATER)                          |
| →           | ARROW INDICATES DIRECTION OF ROOF SLOPE. REFER ARCHITECTURAL PLANS FOR ROOF PITCH  |
| ■           | CHARGED SYSTEM BELOW GROUND FIRST FLUSH. REFER SW01 GENERAL NOTES FOR SIZING GUIDELINES  |
| ---         | BLEED LINE. REFER DETAILS  |
| ■           | STORMWATER PIT. REFER DETAILS  |
| FD ■        | 200 x 200 FLOOR DRAIN BY SPS OR APPROVED EQUIVALENT. PROVIDE 100mm Ø uPVC OUTLET   |

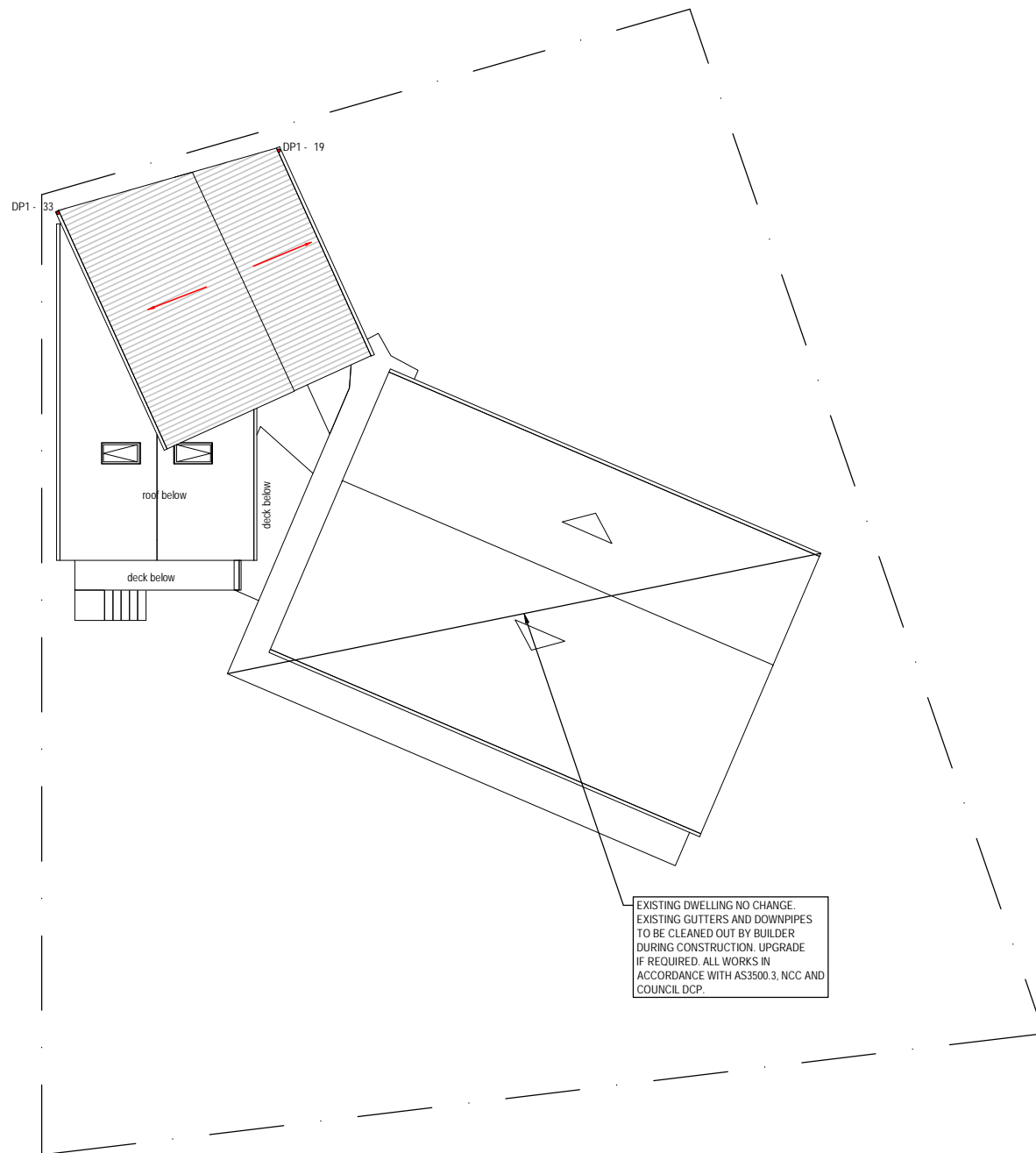
LOWER ROOF LEVEL - DRAINAGE PLAN

SCALE 1:200

|   |   |          |                      |   |  |         |                                    |                |                |                  |
|---|---|----------|----------------------|---|--|---------|------------------------------------|----------------|----------------|------------------|
|   |   |          | Client               | DR BERNHARD HURZELER                          | <br>APPROVED CONSULTING ENGINEERS | Project | 45A RIVIERA AVENUE<br>AVALON BEACH |                | Designed<br>CH | 25/06/25         |
|   |   |          | Architect / Designer | JJ DRAFTING                                   |  |         |                                    | Checked<br>CH  | Approved<br>CH | Scale<br>1 : 200 |
| C | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - LEVEL SPREADER ADDED | 25/06/25 |                      |   |  | Title   | LOWER ROOF LEVEL<br>DRAINAGE PLAN  | Drawing number | Job number     | Revision         |
| B | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - OSD SUMMARY AMENDED  | 17/06/25 |                      |   |  |         |                                    | SW03           | 2025037        | C                |
| A | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION                        | 10/06/25 |                      |   |  |         |                                    |                |                |                  |
|   | AMENDMENT   | DATE     |                      | PO BOX: 1510, DEE WHY<br>ABN - 90 645 409 801 |  |         |                                    |                |                |                  |



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| LEGEND    |  |
|-----------|--|
| DP1 - xxx | DP1 - 100mm Ø DOWNPIPE TO RAINWATER TANK<br>xxx - ROOF CATCHMENT AREA TO DOWNPIPE  |
|           | 100mm Ø uPVC SEWER GRADE STORMWATER PIPELINE, UNO  |
| S/S       | STORMWATER PIPELINE OUT OF GROUND AND CLIPPED TO SOFFIT OF FLOOR STRUCTURE OVER OR TO WALL OR TO ROCK FACE. USE SEWER GRADE PIPE ONLY. |
| GDE       | 150 (W) x 150 (D) CAST INSITU GRATED DRAIN   |
|           | GRAVITY LINE PROVIDE 1% (MIN) FALL IN DIRECTION INDICATED, UNO.  |
| fall      | SURFACE TO FALL IN DIRECTION INDICATED BY ARROW 1% MINIMUM FALL OR TO NCC REQUIREMENTS (WHICHEVER IS GREATER)                          |
|           | ARROW INDICATES DIRECTION OF ROOF SLOPE. REFER ARCHITECTURAL PLANS FOR ROOF PITCH  |
|           | CHARGED SYSTEM BELOW GROUND FIRST FLUSH. REFER SW01 GENERAL NOTES FOR SIZING GUIDELINES  |
|           | BLEED LINE. REFER DETAILS  |
|           | STORMWATER PIT. REFER DETAILS  |
| FD        | 200 x 200 FLOOR DRAIN BY SPS OR APPROVED EQUIVALENT. PROVIDE 100mm Ø uPVC OUTLET   |

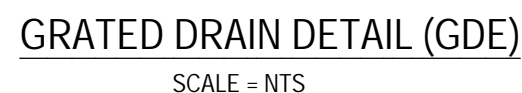
- ROOF DRAINAGE NOTES:
1. THE MAXIMUM ROOF CATCHMENT AREA DRAINING TO ANY ONE DOWNPIPE SHALL NOT EXCEED 35 m<sup>2</sup>. (UNLESS NOTED OTHERWISE). INSTALL ADDITIONAL DOWNPIPES AS REQUIRED.
  2. ALL ROOF DRAINAGE IS TO BE CAPTURED IN AN EAVES GUTTER WITH A MINIMUM EFFECTIVE CROSS-SECTIONAL AREA OF 8100 mm<sup>2</sup> (MINIMUM) AND TO SUIT THE SPECIFIED DOWNPIPE SIZE.
  3. EAVES GUTTERS ARE TO BE INSTALLED WITH A SLOPE THAT IS STEEPER THAN 1:500.
  4. OVERFLOW SLOTS SHOULD BE LOCATED IN THE FRONT OF THE EAVES GUTTER (UNLESS NOTED OTHERWISE).

## ROOF DRAINAGE PLAN

SCALE 1:200

|   |   |          |                                    |   |   |                                    |                            |                           |                   |
|---|---|----------|------------------------------------|---|---|------------------------------------|----------------------------|---------------------------|-------------------|
|   |   |          | Client<br><br>DR BERNHARD HURZELER |  | Project<br><br>45A RIVIERA AVENUE<br>AVALON BEACH |                                    | Designed<br>CH             | 25/06/25                  |                   |
| C | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - LEVEL SPREADER ADDED | 25/06/25 |                                    |   |   | Architect / Designer               | Checked<br>CH              | Approved<br>CH            | Scale<br>1 : 200  |
| B | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - OSD SUMMARY AMENDED  | 17/06/25 | JJ DRAFTING                        |   |   | Title<br><br>ROOF<br>DRAINAGE PLAN | Drawing number<br><br>SW04 | Job number<br><br>2025037 | Revision<br><br>C |
| A | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION                        | 10/06/25 |                                    |   |   |                                    |                            |                           |                   |
|   | AMENDMENT   | DATE     |                                    |   |   |                                    |                            |                           |                   |

|   |   |          |   |   |         |                                    |                |                  |                |          |
|---|---|----------|---|---|---------|------------------------------------|----------------|------------------|----------------|----------|
|   |   |          | Client  |  | Project | 45A RIVIERA AVENUE<br>AVALON BEACH |                |                  | Designed<br>CH | 25/06/25 |
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| A | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION                        | 10/06/25 |   |   |         | SW05                               | 2025037        | C                |                |          |
|   | AMENDMENT   | DATE     | PO BOX: 1510, DEE WHY<br>ABN - 90 645 409 801 |   |         |                                    |                |                  |                |          |




ANCHOR BLOCKS TO BE PROVIDED WHEN SURFACE SLOPE EXCEEDS 20%.  
BLOCKS LOCATED AT BENDS, JUNCTIONS AND INTERVALS NOT EXCEEDING 3.0m IN LENGTH  
AND INSTALLED IN ACCORDANCE WITH AS3500.3 AND COUNCIL REQUIREMENTS. IF  
PIPE EXCEEDS DN 150, CONTACT ENGINEER FOR ADDITIONAL DESIGN  
REQUIREMENTS.

CONCRETE ANCHOR POINT DETAIL  
FOR PIPES NOT EXCEEDING DN 150  
SCALE = NTS



SIGN FOR RWT AND OUTLETS  
SCALE = N.T.S.

|   |   |          |   |   |         |                                    |                |                  |          |  |
|---|---|----------|---|---|---------|------------------------------------|----------------|------------------|----------|--|
|   |   |          | Client  | <div>DR BERNHARD HURZELER</div> <div></div> <div>APPROVED CONSULTING ENGINEERS</div> | Project | 45A RIVIERA AVENUE<br>AVALON BEACH |                | Designed<br>CH   | 25/06/25 |  |
| C | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - LEVEL SPREADER ADDED | 25/06/25 | Architect / Designer                          |   |         | Checked<br>CH                      | Approved<br>CH | Scale<br>1 : 200 |          |  |
| B | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION - OSD SUMMARY AMENDED  | 17/06/25 | JJ DRAFTING                                   |   | Title   | Drawing number                     | Job number     | Revision         |          |  |
| A | PLANS FOR DA SUBMISSION - NOT FOR CONSTRUCTION                        | 10/06/25 |   |   |         |                                    |                |                  |          |  |
|   | AMENDMENT   | DATE     | PO BOX: 1510, DEE WHY<br>ABN - 90 645 409 801 |   |         |                                    |                |                  |          |  |