

DO NOT SCALE FROM DRAWINGS - USE ONLY FIGURED DIMENSIONS

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PRELIMINARY

DO NOT SCALE FROM DRAWINGS - USE ONLY FIGURED DIMENSIONS

GENERAL

- G1 These drawings shall be read in conjunction with the architectural and other consultants' drawings / specifications and with other such written instructions as may be issued during the construction. Any discrepancy shall be referred to the Engineer before commencing the work.
- G2 All dimensions are in millimeters, UNO (unless noted otherwise).
- G3 These drawings shall not be scaled, refer to dimensions given only or refer to the Architectural drawings.
- G4 All levels and setting out dimensions shown on the drawings shall be checked on site prior to the commencement of the work.
- G5 During construction the structure shall be maintained in a stable condition with no part being overstressed.
- G6 Existing services, where shown, have been drawn based on supplied information and as such their accuracy can not be guaranteed. It is the responsibility of the contractor to determine their exact location prior to the commencement of work.
- G7 All service trenches under vehicular pavements shall be back filled in accordance with the respective authorities requirements.
- G8 All trench backfill material shall be compacted to the same density as the surround material.
- G9 All site disturbed areas shall be reinstated to the original condition, including kerbs, footpaths, concrete areas, gravel and grassed areas, etc.
- G10 It is the contractor responsibility to obtain all authority approvals.

STORMWATER DRAINAGE

- S1 The stormwater drainage design has been carried out in accordance with AS / NZS 3500.3 "Stormwater Drainage" & AS / NZS 3500.2.3 "Stormwater Drainage - Acceptable Solutions".
- S2 Any variations to the design levels shall be referred to the engineer immediately for approval.
- S3 Any variations to specified products or details shall be referred to the engineer for approval prior to their installation.
- S4 Subsoil drainage shall be provided to all retaining walls & embankments. They shall be a minimum of Ø100 slotted pipe in filter sock surrounded by crushed rock. They shall drain to the stormwater drainage system.

SEDIMENT & EROSION CONTROL NOTES

- E1 The sediment & erosion controls shall be maintained effectively for the duration of the project. They shall not be removed until the site has been stabilized or landscaped to the principal certifying authorities satisfaction.
- E2 A single all weather access way shall be provided at the front of the property consisting of 50-80 mm aggregate or similar material with a minimum thickness of 150 mm laid over needle-punched geotextile fabric (Bidim A14 or similar) and installed prior to any works being commenced on site.
- E3 Where the building works are greater than a single dwelling development, a shaker pad must be installed as part of the vehicular accessway. The shaker pad shall be:
 - Established on suitable prepared & compacted material.
 - Constructed such that it is flush with the adjoining surfaces.
 - A minimum of 5000 mm in length and breadth.
 - Designed with rungs spaced 200-250 mm apart & with a maximum width of 75 mm each.
- E4 The contractor shall ensure that no spoil or fill encroaches upon adjacent areas during the project.
- E5 The contractor shall ensure that all kerb inlets and drains affected by stormwater flow from the site are protected at all times during the project. Kerb inlet sediment traps shall be installed along the immediate vicinity along the street frontage. These shall be regularly maintained during the project.
- E6 The street / road shall be kept clean from dirt and debris from vehicles departing the site.
- E7 Sediment fencing shall be secured to posts (please note that if star pickets or similar are used then plastic safety caps shall be installed on top of the posts) at 2000 mm intervals with the geotextile fabric embedded a minimum of 200 mm in to the soil.
- E8 All the topsoil stripped from the site shall be stockpiled such that it does not interfere with drainage lines and stormwater inlet pits. The stockpile shall be suitably covered with an impervious membrane and screened by sediment fencing.

SOIL CONSERVATION NOTE:

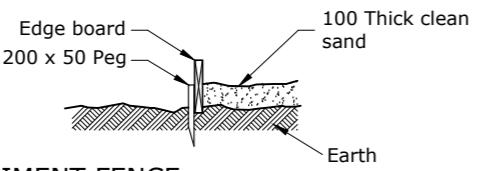
- C1 Prior to the commencement of the site works the following shall be provided to capture water borne sediments:
 - Sediment fencing
 - Sediment trap
 - Washout area
- C2 These shall be maintained regularly during the course of the construction with the sediment trap cleaned after each storm event.

SEDIMENT TRAP

- T1 A 1000 x 1000 mm square by 500 mm deep pit located at the low point of the site.

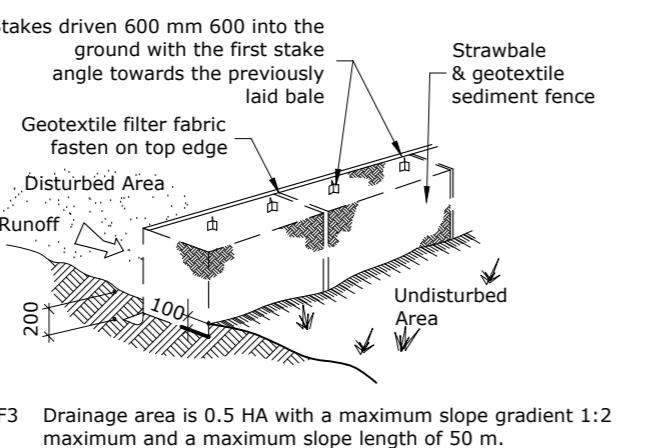
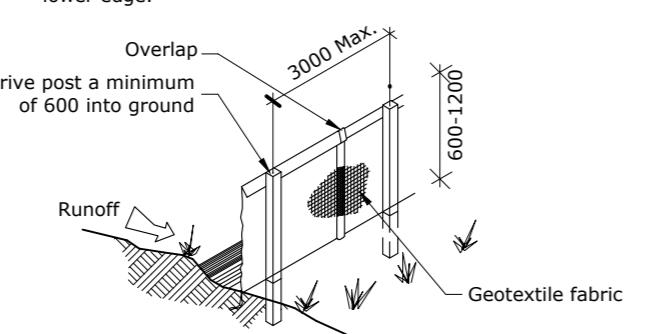
WASHOUT AREA

- W1 The washout area shall be 1800 x 1800 mm allocated for the washing of tools & equipment in accordance with the detail below:



SEDIMENT FENCE

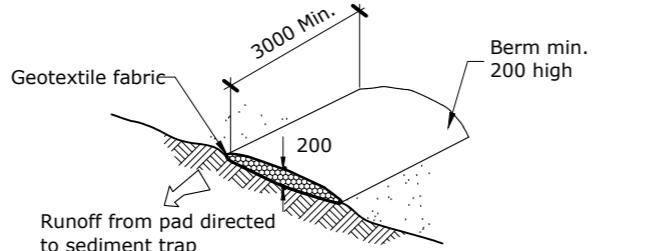
- F1 Provide sediment fence on down slope boundary as shown on plan.
- F2 Geotextile fabric to be buried 200 mm below ground at the lower edge.



- F3 Drainage area is 0.5 HA with a maximum slope gradient 1:2 maximum and a maximum slope length of 50 m.

VEHICLE ACCESS TO SITE

- V1 Vehicle access to the building site shall be restricted to a single point so as to reduce the amount of soil deposited on the street pavement.



BUILDING MATERIAL STOCKPILES

- M1 Where there are stockpiles of material on site they shall be located at least 2000 mm away from any hazard including surfaces with grades greater than 15%, away from zones of concentrated stormwater flows, away from driveways, temporary vehicular accessways, footpaths, nature strips, kerbs, open swales & the drip zone of trees.
- M2 Sediment fencing shall be installed downslope of all stockpiles.
- M3 The stockpile shall be covered with a impervious cover and held down firmly at all corners and sides.

RUNOFF

- T1 A 1000 x 1000 mm square by 500 mm deep pit located at the low point of the site.

WATERPROOF COVERING

- W1 The waterproof covering shall be applied to the top surface of the stockpile.

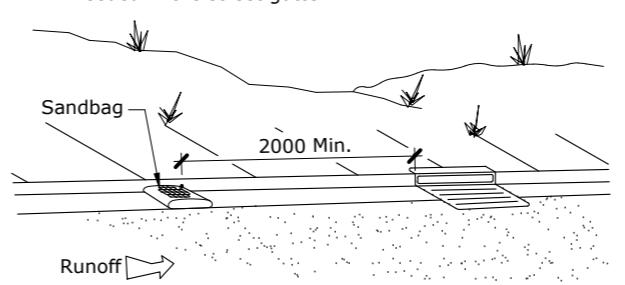
SEDIMENT FENCE

- F1 Provide sediment fence on down slope boundary as shown on plan.

- F2 Geotextile fabric to be buried 200 mm below ground at the lower edge.

SANDBAG KERB SEDIMENT TRAP

- K1 In certain circumstances extra sediment trapping maybe needed in the street gutter.



DRAINAGE DESIGN CALCULATIONS:

Council: Pittwater

Site area = 860 m² (survey)

Pre-developed impervious area = 148.6 m²

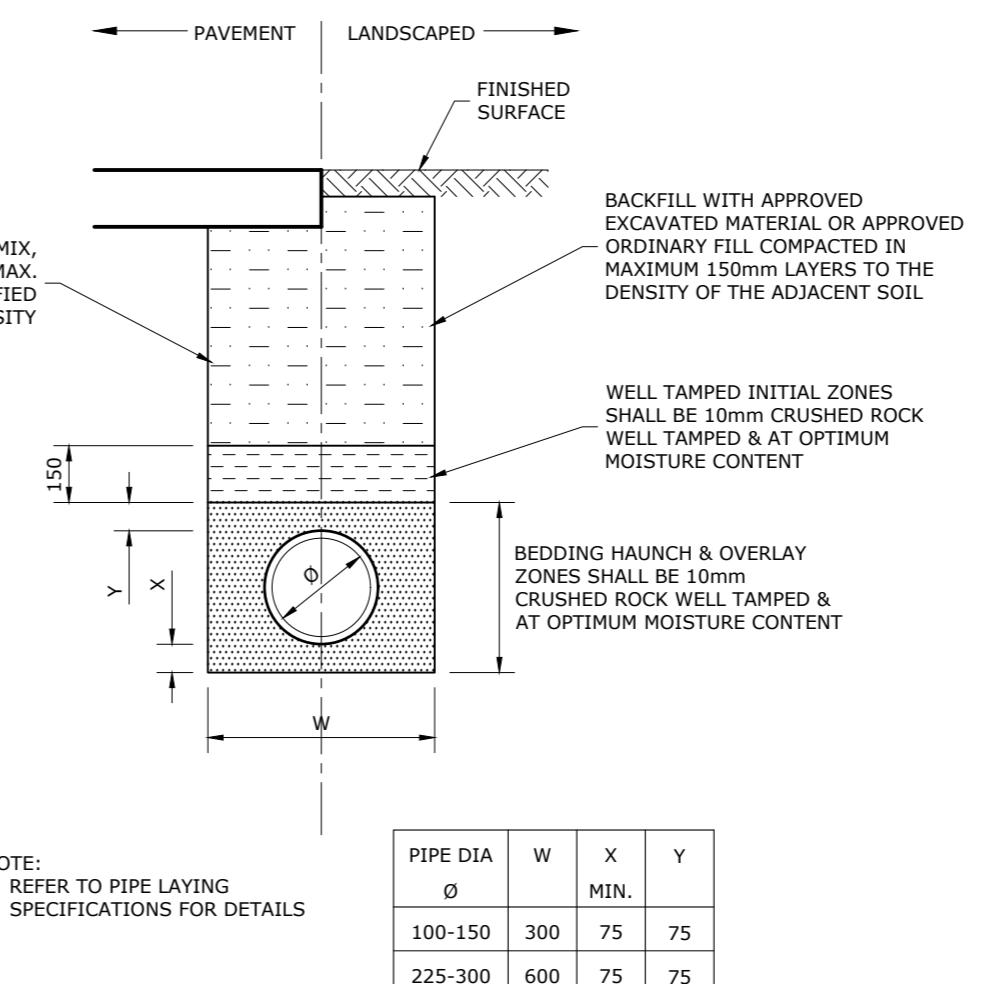
Post-developed impervious area = 193 m²

Impervious area increased by 44.4 m²

Therefore:

No OSD is required

Rainwater tank IF required by BASIX

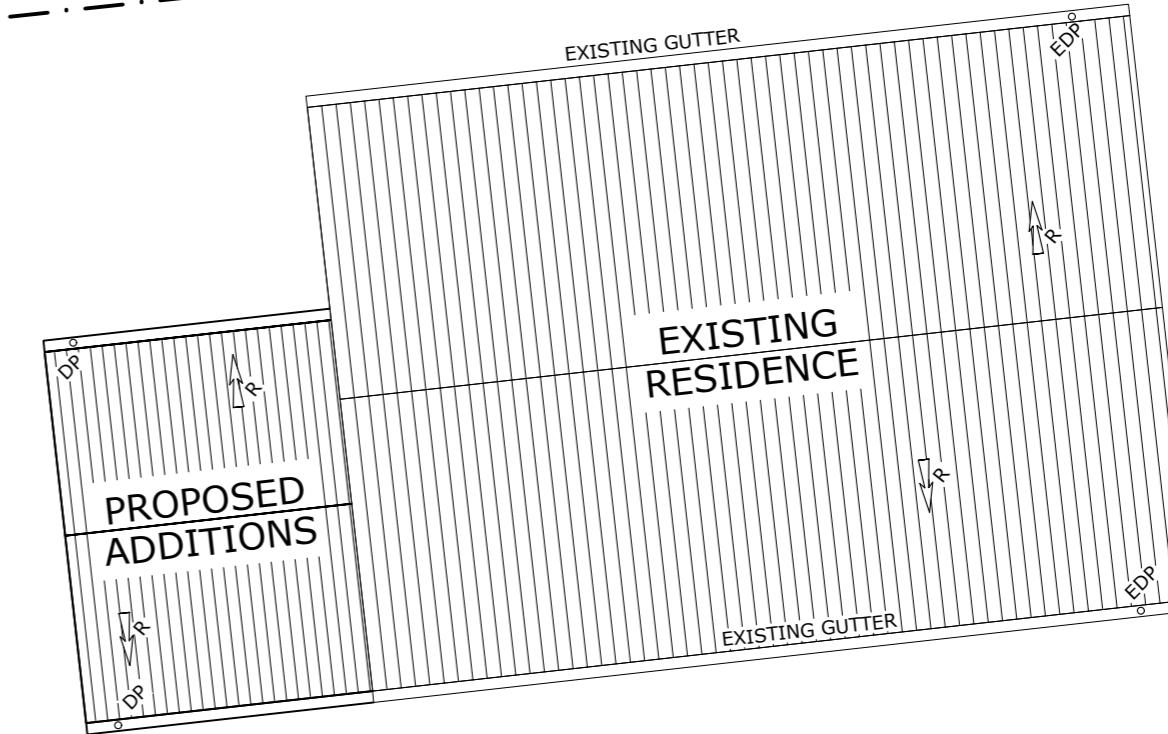
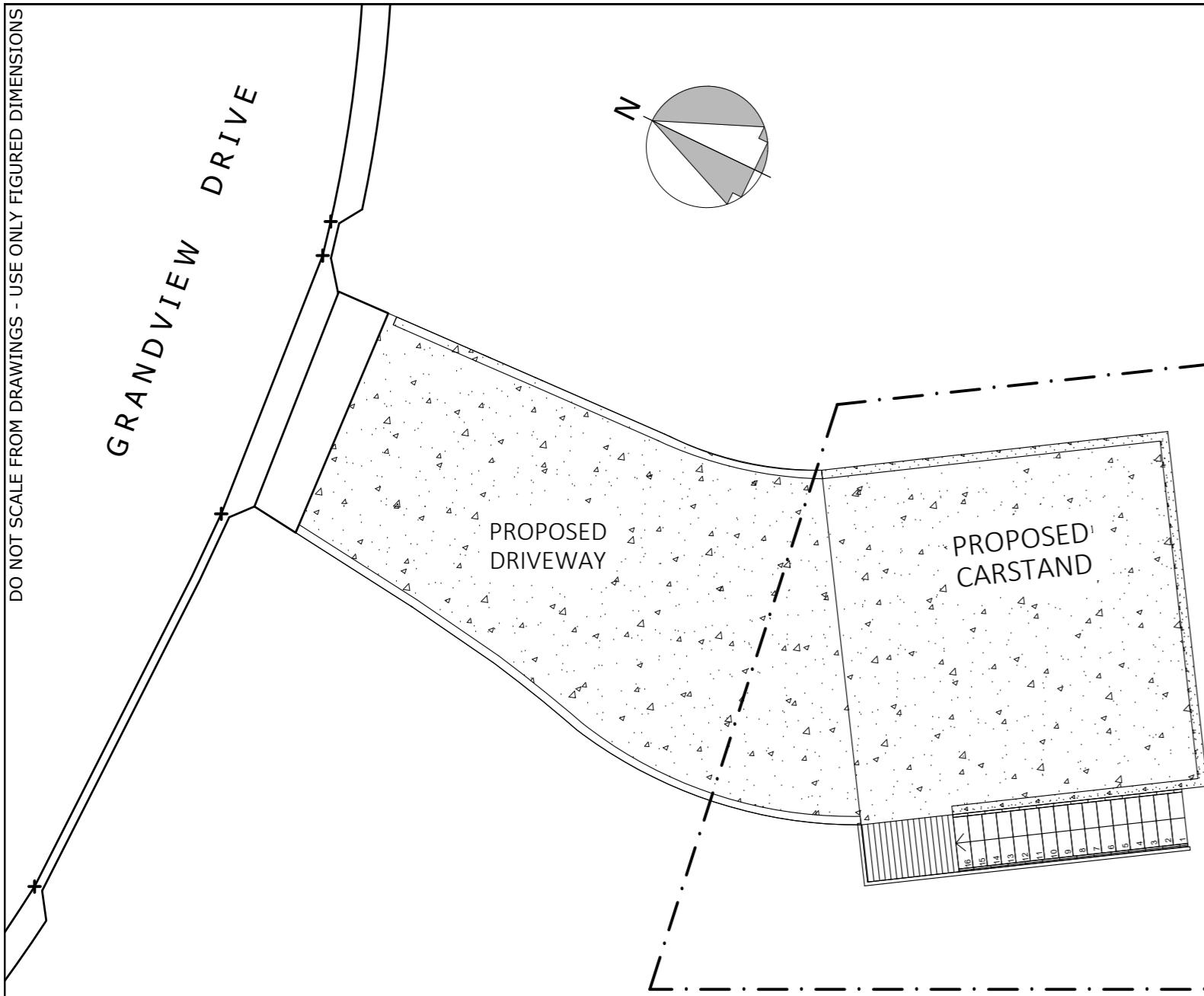


UPVC DRAINAGE PIPE

TYPICAL PIPE LAYING DETAILS 1:20

REV	APP	AMENDMENT DESCRIPTION	DATE
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PROPOSED ADDITIONS AT			
51 GRANDVIEW DRIVE			
NEWPORT NSW 2106			
MAXWORTHY			
Notes			
DRAWN: CA	DES: CA	DATE: 26 JULY 2019	SCALE: As Noted
JOB: 19.310	DRW:	SW1	REV: 0

PRELIMINARY



CONCEPT ROOF DRAINAGE PLAN 1:100

- DP = Down Pipe
- Denotes falling direction of roof.
- Fall new gutters to downpipes at min 1:250 grade.
- Unless noted otherwise roof sheeting shall fall to gutters at minimum 2%
- This design assumed the gutters to be maintained properly by the owner.
- Lip of eaves gutters must be at least 25mm below the height of the fascia to ensure gutters cannot overflow back into the residence.
- Adequacy of existing gutters to be confirmed onsite if under-performing.

DNPIPE & GUTTER SCHEDULE	
GUTTER SIZE unless noted otherwise	DP
Conventional eaves gutter	Ø90 or 100x50

NOTE: All Gutter Systems shall be GS1, UNO.

REV	APP.	AMENDMENT DESCRIPTION	DATE

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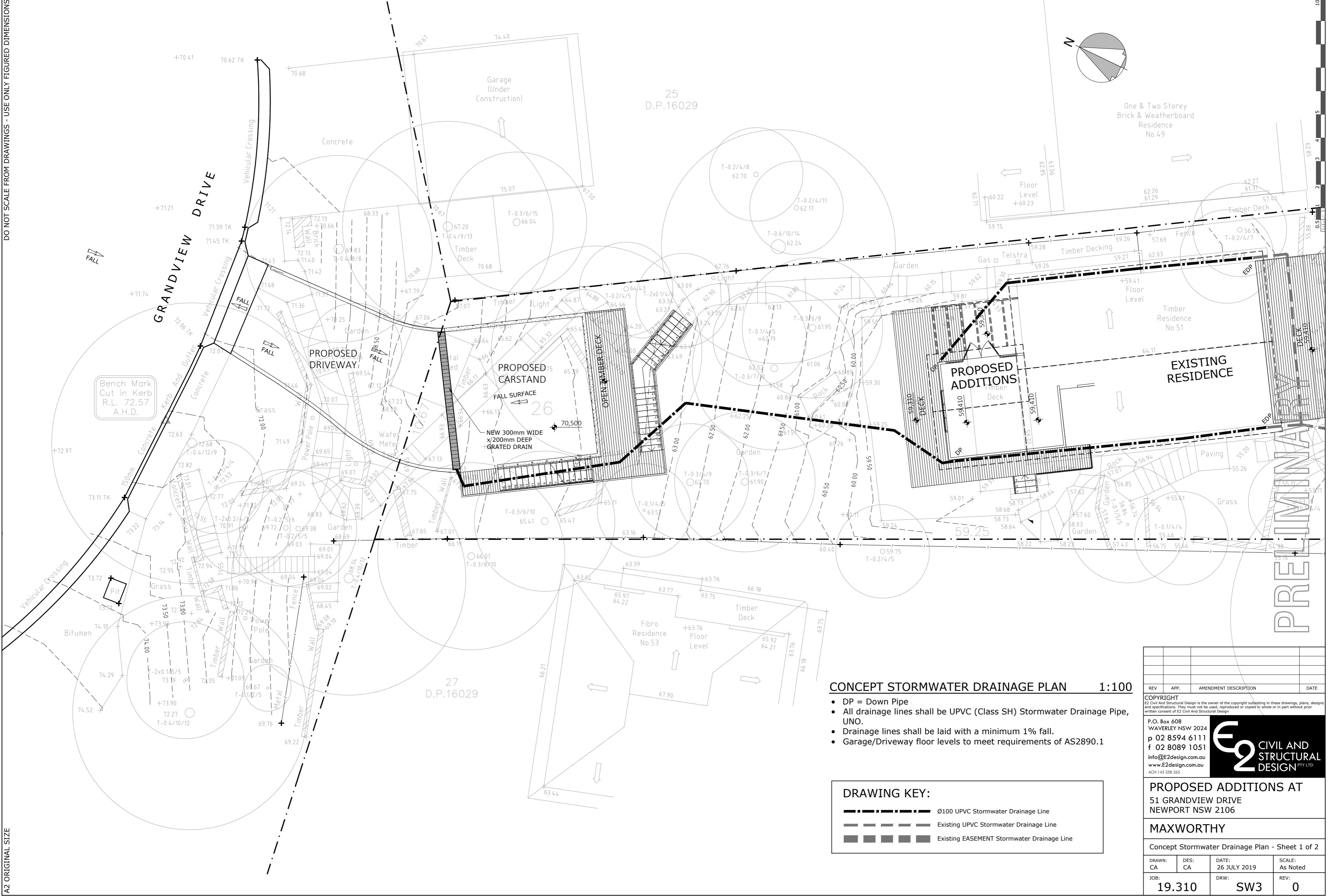


PROPOSED ADDITIONS AT
51 GRANDVIEW DRIVE
NEWPORT NSW 2106

MAXWORTHY

Concept Roof Drainage Plan

DRAWN: CA	DES: CA	SCALE: As Noted
JOB: 19.310	DRW: SW2	REV: 0



PRELIMINARY

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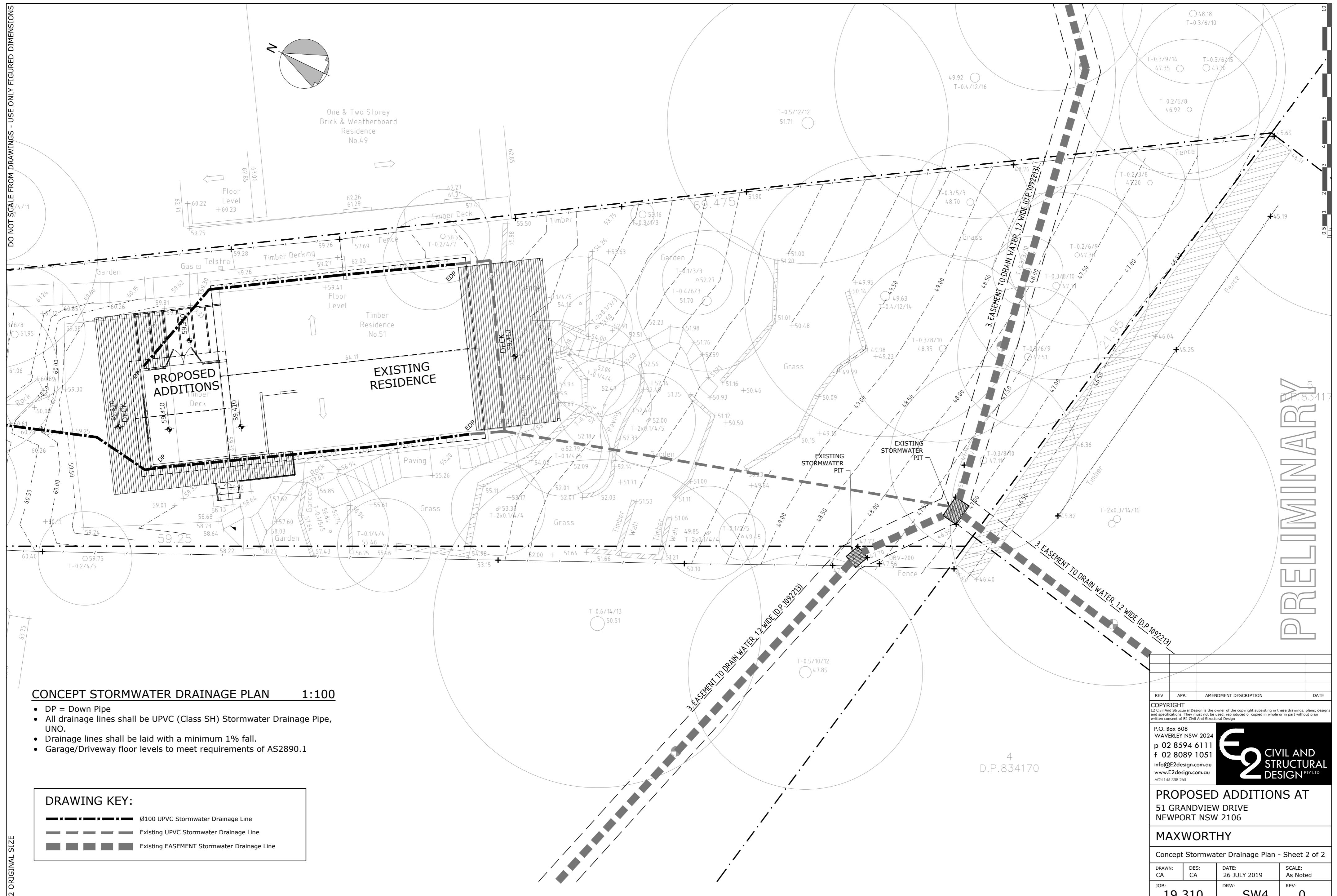
DO NOT SCALE FROM DRAWINGS - USE ONLY FIGURED DIMENSIONS

CONCEPT STORMWATER DRAINAGE PLAN 1:100

- DP = Down Pipe
 - All drainage lines shall be UPVC (Class SH) Stormwater Drainage Pipe, UNO.
 - Drainage lines shall be laid with a minimum 1% fall.
 - Garage/Driveway floor levels to meet requirements of AS2890.1

DRAWING KEY:

The legend consists of three horizontal rows. The first row shows a black dashed line segment followed by the text "Ø100 UPVC Stormwater Drainage Line". The second row shows a grey dashed line segment followed by the text "Existing UPVC Stormwater Drainage Line". The third row shows a solid grey square followed by the text "Existing EASEMENT Stormwater Drainage Line".



PRELIMINARY

