

THIS SPACE IS LEFT BLANK
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HYDRAULIC ENGINEERING PLAN

PROJECT: PROPOSED NEW GRANNY FLAT

ADDRESS: 1489 CANTERBURY ROAD, PUNCHBOWL

LGA: CANTERBURY-BANKSTOWN COUNCIL

LIST OF DRAWING

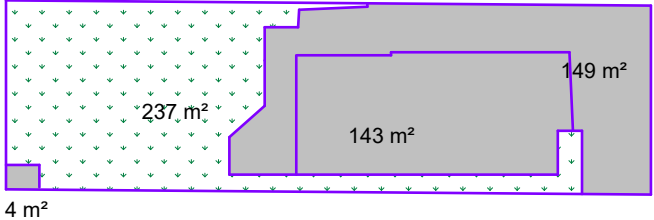
SHEET NO	DRAWING NAME
GN0	COVER PAGE
0E0	EROSION AND SEDIMENT CONTROL PLAN
0L1	GROUND FLOOR PLAN
RL1	ROOF PLAN
SD1	STANDARD DETAILS
SD2	STANDARD DETAILS (CONT'D)

GENERAL NOTES

1. THE PLUMBER/ DRAINER SHALL INSPECT THE SITE AND CONFIRM THE EXISTING SITE STRUCTURES, SERVICES AND CONDITIONS PRIOR TO PROCEEDING. IF ANY DISCREPANCIES FOUND, CONTACT THE ENGINEER FOR DISCUSSION.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS, BUILDING CODE OF AUSTRALIA AND LOCAL GOVERNMENT'S REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE PLUMBER/ DRAINER TO OBTAIN ANY APPROVALS/ PERMITS/ LICENSES ISSUED BY THE AUTHORITIES PRIOR TO PROCEEDING WITH STORMWATER WORKS PROCEEDING WITH STORMWATER WORKS.
3. UNLESS NOTED AS OTHERWISE, ALL DOWNPIPES TO BE Ø100 ROUND (OR 100x75 RECTANGULAR) AND FULLY SEALED. ALL EAVE GUTTERS TO BE 115 QUAD HI-FRONT OR EQUIVALENT, ALL BOX GUTTERS TO BE 200Wx150H. ALL STORMWATER PIPES TO BE Ø100 SEWER GRADE AND LAID AT 1% MIN. FALL. ALL MATERIALS USED IN THE WORK SHALL BE NEW AND CONFORM WITH RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK.
4. LOCATION OF STORMWATER SYSTEMS, INCLUDING DOWNPIPES, PIPES, PITS AND RAINWATER TANK ARE INDICATIVE ONLY. EXACT LOCATION SHALL BE DETERMINED ON SITE TO SUIT SITE CONDITIONS.
5. SUB-SOIL DRAINS FOR RETAINING WALL SHALL BE INSTALLED BY THE BUILDER AND CONNECTED TO STORMWATER LINES. ALL AGG. LINES SHALL BE 100mm DIA., UNLESS NOTED OTHERWISE.
6. NATURAL GROUND LEVELS ALONG ALL BOUNDARIES MUST BE MAINTAINED UNALTERED. ALL RETAINING WALLS TO BE SETBACK FROM BOUNDARIES TO AVOID CONCENTRATION OF STORMWATER FLOWS.
7. LEVELS ARE APPROXIMATE ONLY. THE PLUMBER/ DRAINER SHALL CONFIRM THE LEVELS PRIOR TO PROCEEDING. IF ANY DISCREPANCIES FOUND, CONTACT THE ENGINEER FOR DISCUSSION.
8. INSPECTION AND CERTIFICATION, IF REQUIRED, SHALL BE DONE PRIOR TO BACKFILLING. ALLOW 24 HOUR NOTICE FOR THE ENGINEER TO CARRY OUT INSPECTION.
9. ANY DAMAGE TO SERVICES DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT THE PLUMBER/ DRAINER'S OWN EXPENSE.
10. RWT TO BE WATERPROOFED TO AS 3500.1:2018, AS 3735:2001 AND AS 4766:2006 AS APPLICABLE.

EXISTING IMPERVIOUS AREA

Name	Area
IMPERVIOUS AREA	296 m²
PERVIOUS AREA	237 m²
TOTAL SITE AREA	533 m²



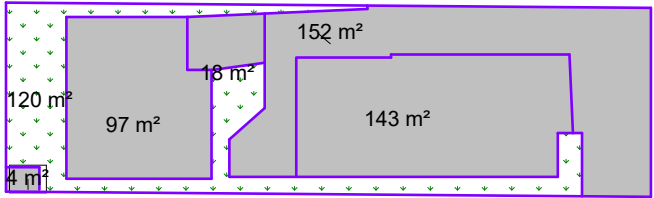
EXISTING SITE PLAN (AREA)

SCALE: 1 : 500

■ IMPERVIOUS AREA
● PERVIOUS AREA

PROPOSED IMPERVIOUS AREA

Name	Area
IMPERVIOUS AREA	413 m²
PERVIOUS AREA	120 m²
TOTAL SITE AREA:	533 m²



PROPOSED SITE PLAN (AREA)

SCALE: 1 : 500

1. IF ANY DISCREPANCIES OR DOUBTS, CONTACT THE ENGINEER.
2. BOOKINGS FOR INSPECTION, IF REQUIRED, SHALL BE MADE VIA OUR WEBSITE AT www.nitma.com.au/bookings. CONDITIONS APPLY.

Paper size: **A3**

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Revisions

Original issue

Designed: NL

Checked: HN

Approved:

Quoc Huy Nguyen
PhD (Eng). MIEAust, CPEng,
NER Reg. No. 208 2513

NITMA
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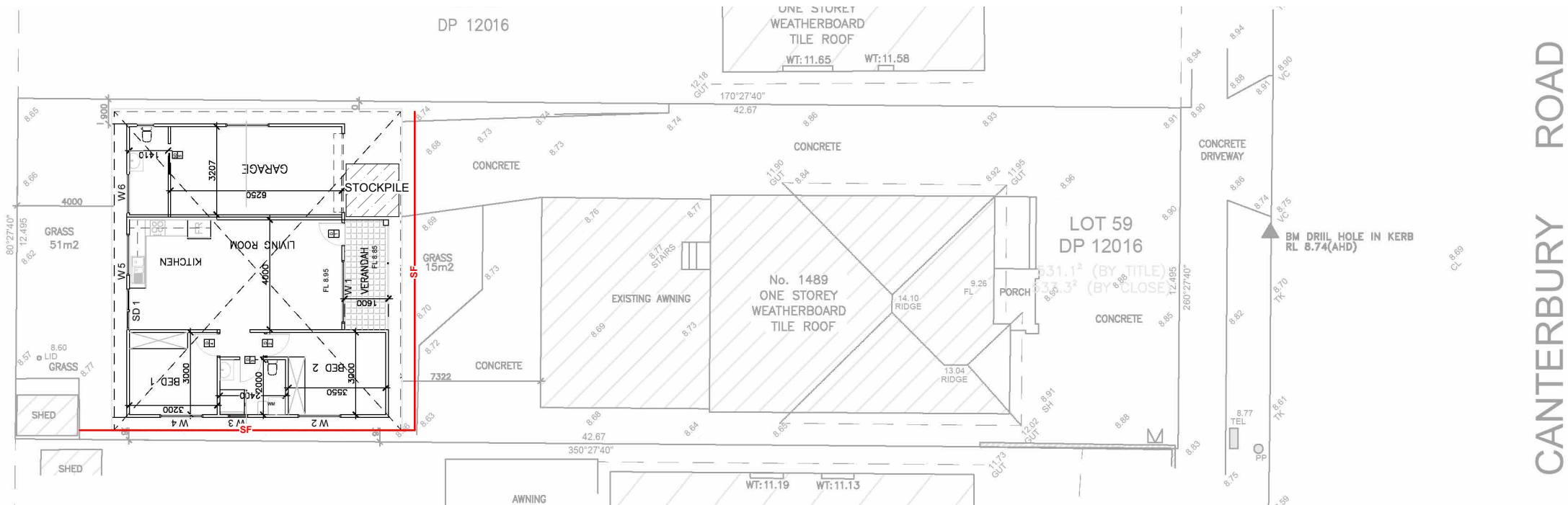
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COVER PAGE

Project No: 6797H Issue: A Date: 20.11.2024 Drawing No: GN0

Total no. of sheets **6**

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EROSION & SEDIMENT CONTROL PLAN

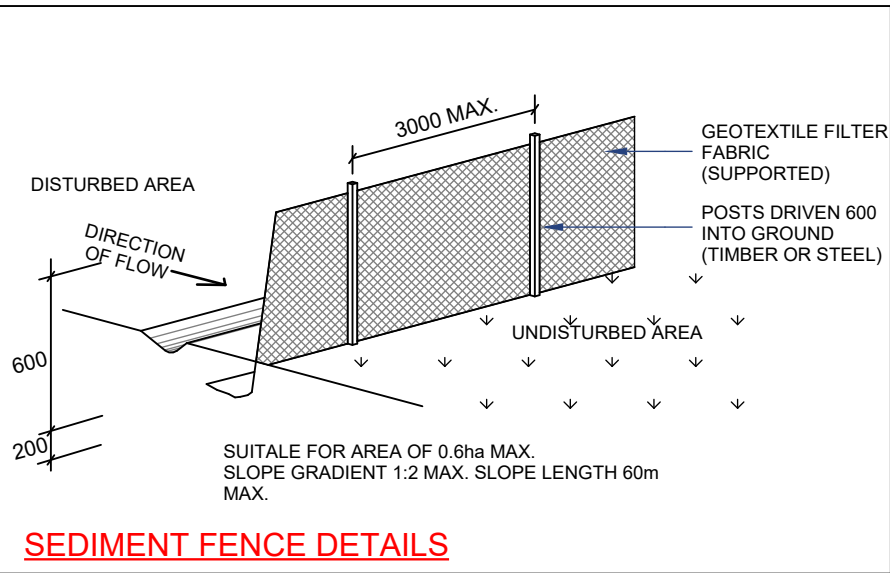
SCALE: 1 : 200

NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED AND MAINTAINED DAILY BY SITE MANAGER
2. MINIMISE DISTURBED AREA
3. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATH
4. DRAINAGE IS TO BE CONNECTED TO STORMWATER SYSTEM AS SOON AS POSSIBLE
5. ROADS AND FOOTPATH TO BE SWEEPED DAILY
6. KERB SIDE INLET TO BE PROTECTED WITH FABRIC FILLED WITH GRAVEL
7. NON-COMPLIANCE MAY INCUR PENALTY

KEY:

- SF— SILT FENCE
- STOCKPILE



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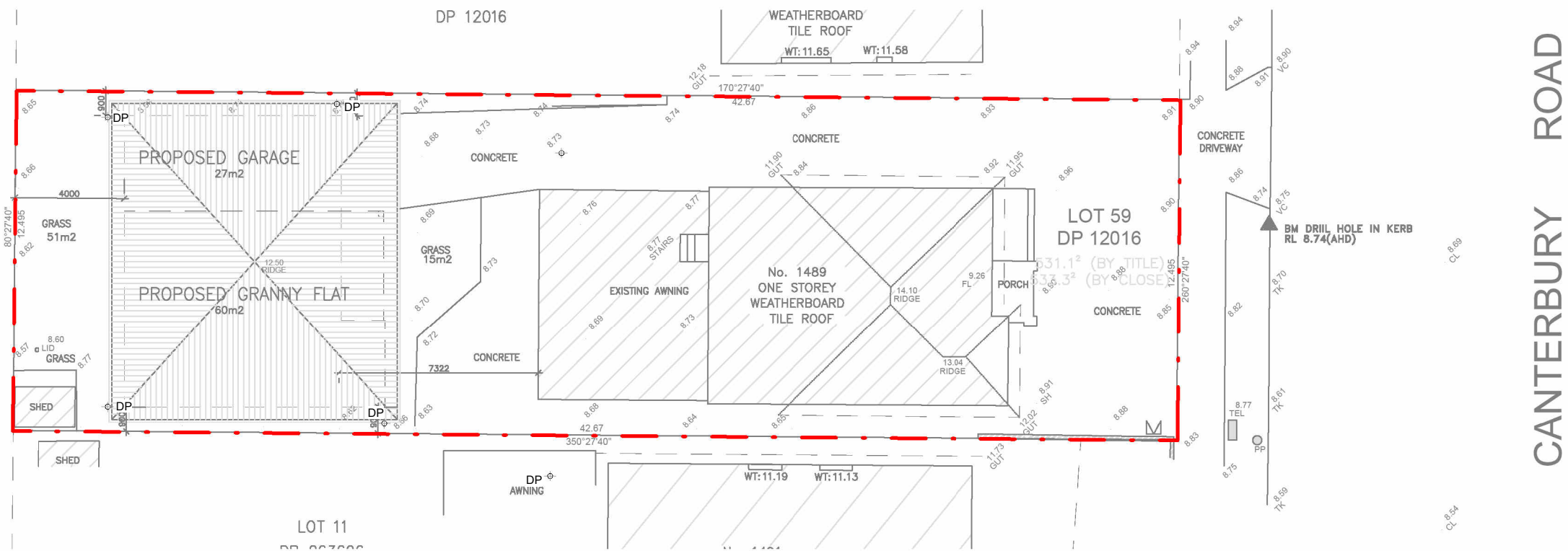
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EROSION AND SEDIMENT CONTROL PLAN

Project No: 6797H Issue: A Date: 20.11.2024 Drawing No: 0EO

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DRAINAGE PLAN - ROOF PLAN

SCALE: 1 : 200

KEY:

- DP DOWN PIPE
- 100 → Ø100 SEWER GRADE UPVC TO TOP OF RWT (CHARGED LINE). ALL DOWNPIPES TO BE FULLY SEALED
- 100 → Ø100 SEWER GRADE UPVC @1% MIN. FALL
- EX → EXISTING LINE

Paper size: **A3**

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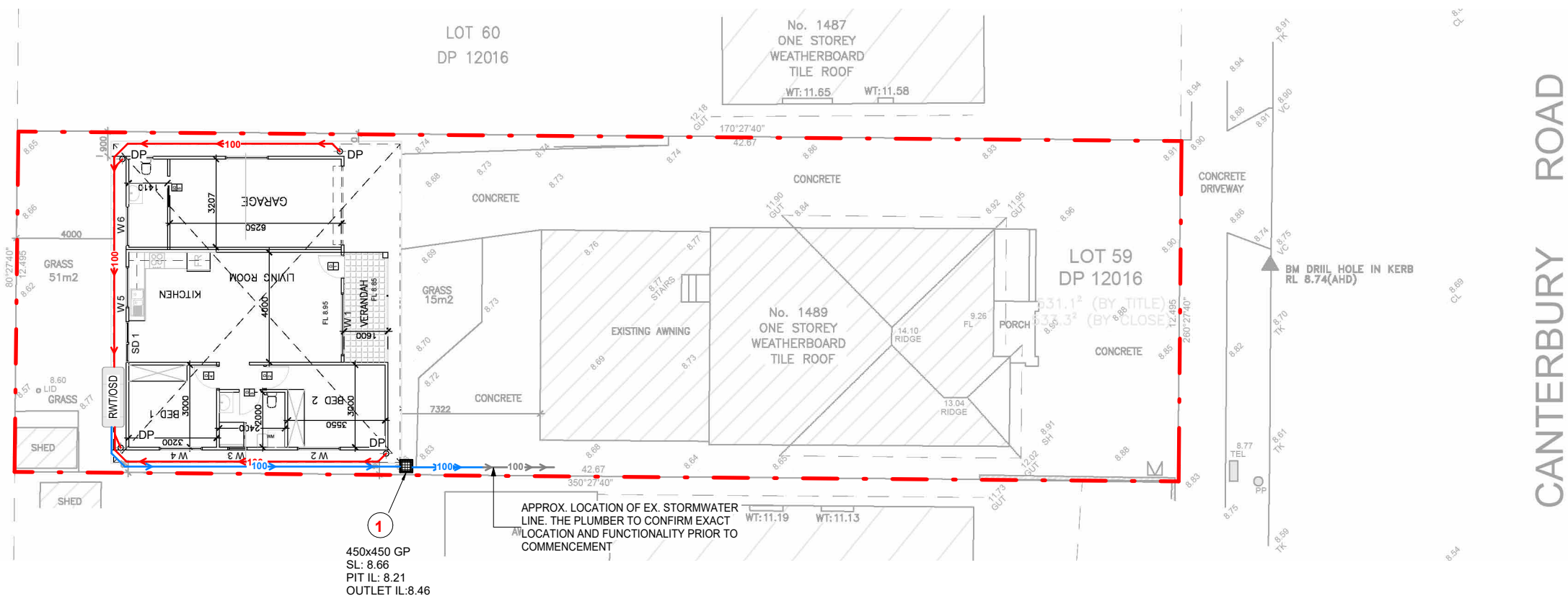
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ROOF PLAN

Project No: 6797H Issue: A Date: 20.11.2024 Drawing No: RL1

Total no. of sheets: **6**

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TANK SIZING

TANK	HEIGHT	LENGTH	WIDTH	VOLUME
RWT/OSD	1860	2200	800	3.00 m ³

DRAINAGE PLAN - GROUND FLOOR PLAN

SCALE: 1 : 200

KEY:

DP DOWN PIPE

100

Ø100 SEWER GRADE UPVC TO TOP OF RWT
(CHARGED LINE). ALL DOWNPIPES TO BE FULLY
SEALED

100

Ø100 SEWER GRADE UPVC @1% MIN. FALL

EX

EXISTING LINE

Paper size: A3

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GROUND FLOOR PLAN

Project No: 6797H Issue: A Date: 20.11.2024 Drawing No: 0L1

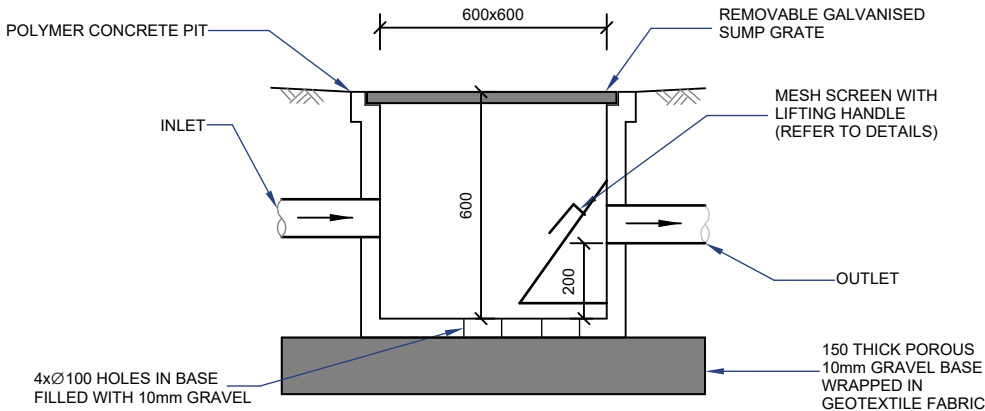
Total no.
of sheets 6

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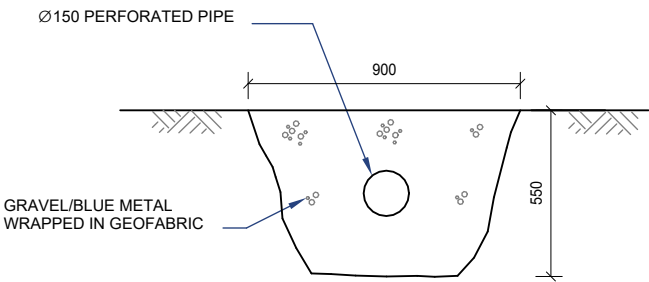
Notes: Some details may not be applicable to current project

SILT ARRESTOR PIT NOTES:

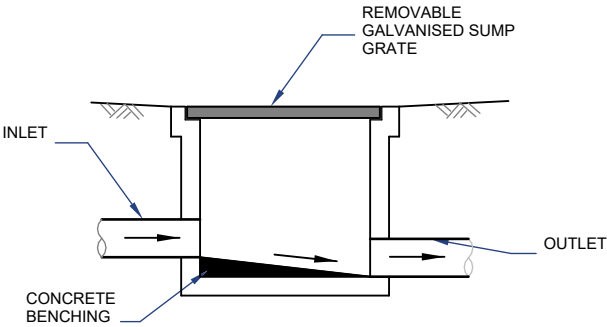
1. MESH SCREEN IS TO BE GALVANISED LYSAGHT RH3030 MAXI MESH COVERED WITH GEOTEXTILE IN GALVANISED STEEL FRAME WITH LIFTING HANDLES ACROSS BASE.
2. GEOTEXTILE IS TO BE BIDIM A14, PROPEX 4550 OR SIMILAR WITH COEFFICIENT OF PERMEABILITY GREATER THAN 50E-4m/s.



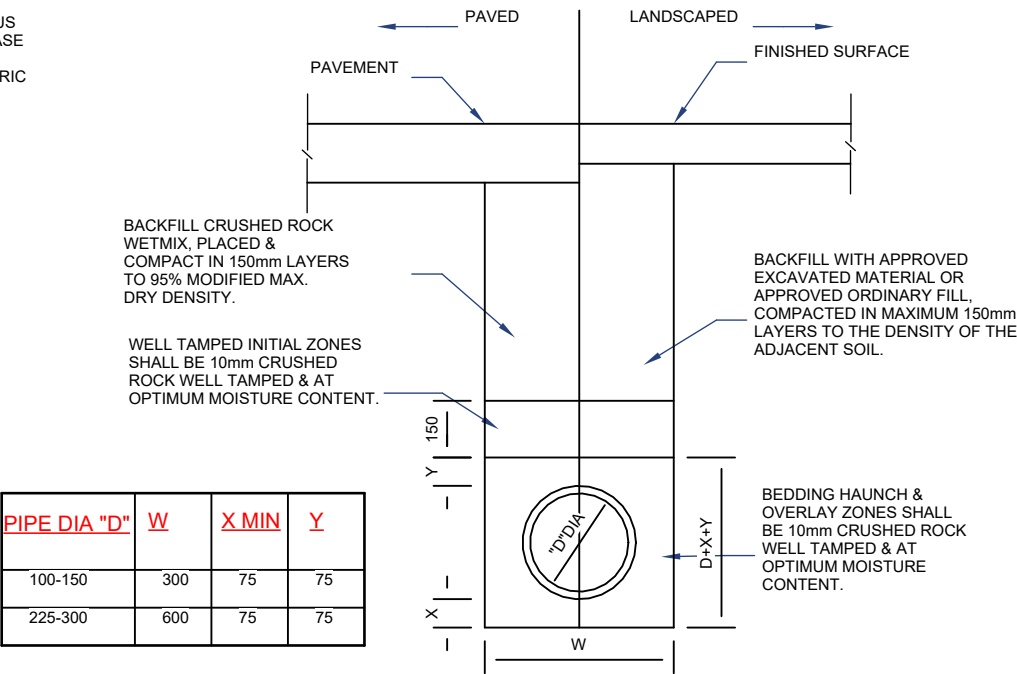
SILT ARRESTOR PIT DETAILS
SCALE 1:20



LEVEL SPREADER DETAILS
SCALE: 1 : 25

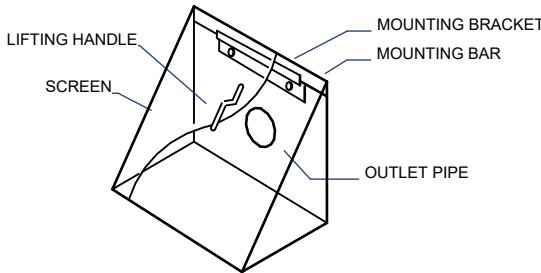


TYP. GRATED PIT DETAILS
SCALE 1:20

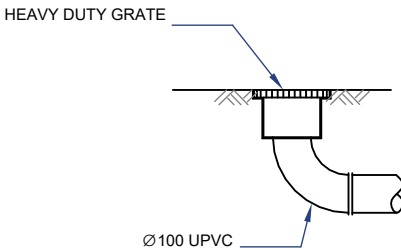


UPVC PIPE TRENCH BACKFILL TYP. DETAILS

SCALE 1:20



DEBRIS SCREEN DETAILS
NOT TO SCALE



GRATED BOX DRAIN DETAILS
SCALE 1:20

MINIMUM PIPE COVER

(FROM FINISHED SURFACE TO TOP OF PIPE)

LOCATION	MINIMUM COVER (mm)	
	CAST/DUCTILE IRON GAL STEEL	OTHER AUTHORISED PRODUCTS (~)
1. NOT SUBJECT TO VEHICULAR LOADING:		
A. WITHOUT PAVEMENT		
i. FOR SINGLE DWELLING	0	100
ii. OTHER THAN SINGLE DWELLING	0	300
B. WITH PAVEMENT OF		
BRICK/UNREINFORCED CONCRETE	0(~)	50(~)
2. SUBJECT TO VEHICULAR LOADING:		
A. OTHER THAN ROAD:		
i. WITHOUT PAVEMENT	300	450
ii. WITH PAVEMENT OF:		
- REINFORCED CONC. FOR HEAVY	0(~#)	100(~#)
VEHICLE	0(~#)	75(~#)
- BRICK/UNREINF. CONC. LIGHT	300	500(#)
VEHICLE	300	500(#)
B. ROAD		
i. SEALED	300	500(#)
ii. UNSEALED		
3. SUBJECT TO CONSTRUCTION VEHICLE OR IN ENBANKMENT CONDITION		
(~) INCLUDES OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK (~) BELOW THE UNDERSIDE OF THE PAVEMENT (#) SUBJECT TO COMPLIANCE WITH AS1762, AS2033, AS/NZS2566.1, AS3725 OR AS4060		

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STANDARD DETAILS

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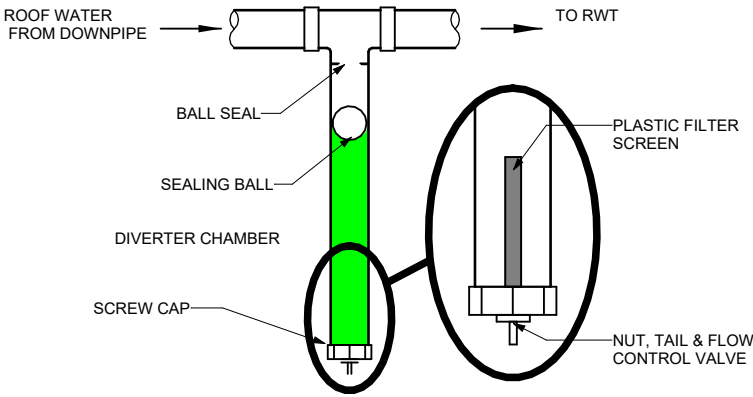
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OSD REQUIREMENTS

AN OSD OF 2000L IS REQUIRED FOR THIS DEVELOPEMENT UNDER BAXIS
CERTIFICATE. A RWT OF 2000 L IS PROVIDED

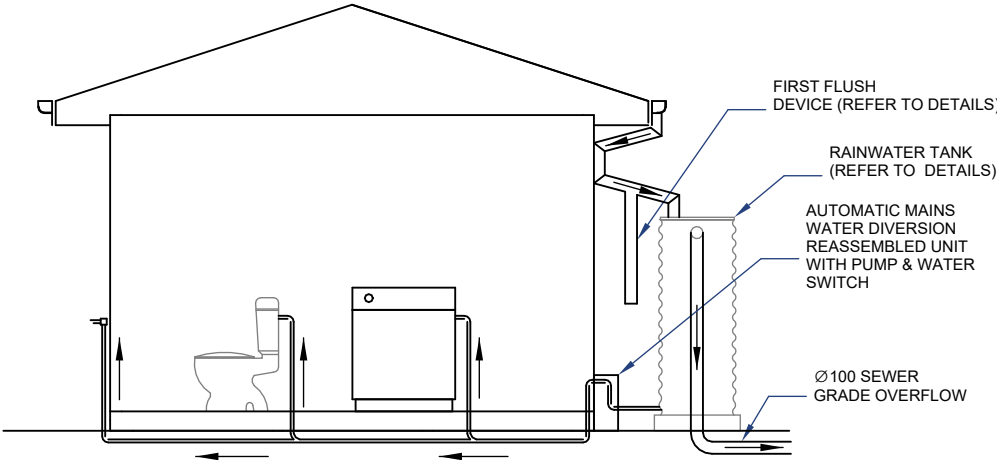
RWT REQUIREMENTS

A RWT OF 1000L IS REQUIRED FOR THIS DEVELOPEMENT UNDER BAXIS CERTIFICATE.
A RWT OF 10000 L IS PROVIDED



FIRST FLUSH DEVICE DETAILS

NOT TO SCALE

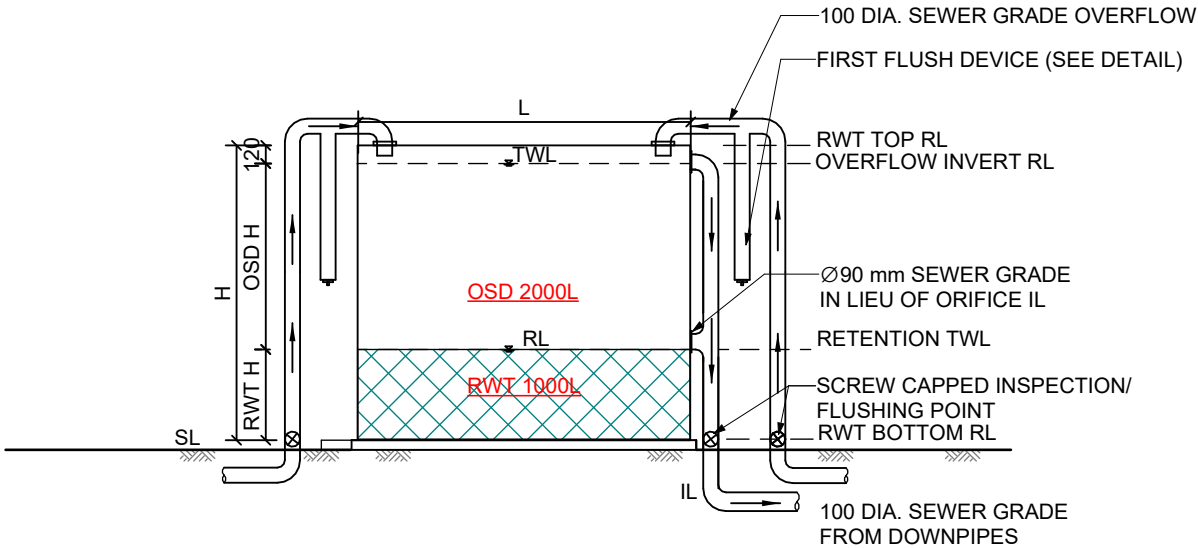


ABOVEGROUND RWT INSTALLATION

SCALE 1:50

RAINWATER TANK NOTES:

1. RAINWATER TANKS BY TANKWORKS AUSTRALIA (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. RAINWATER OUTLET CONNECTIONS AS PER BASIX CERTIFICATE.



COMBINED OSD/RWT DETAILS (TYP)

SCALE: 1 : 50

COMBINED RWT/OSD DETAILS

OSD	SL	RWT V	RWT H	RWT TWL	OSD V	OSD H	OSD TWL	DIA
RWT/OSD	8.60	1.00 m³	610	9.21	2.00 m³	1215	10.46	

TANK SIZING

TANK	HEIGHT	LENGTH	WIDTH	VOLUME
RWT/OSD	1860	2200	800	3.00 m³

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STANDARD DETAILS (CONT'D)

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