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.

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 \$\phi100\$ 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.

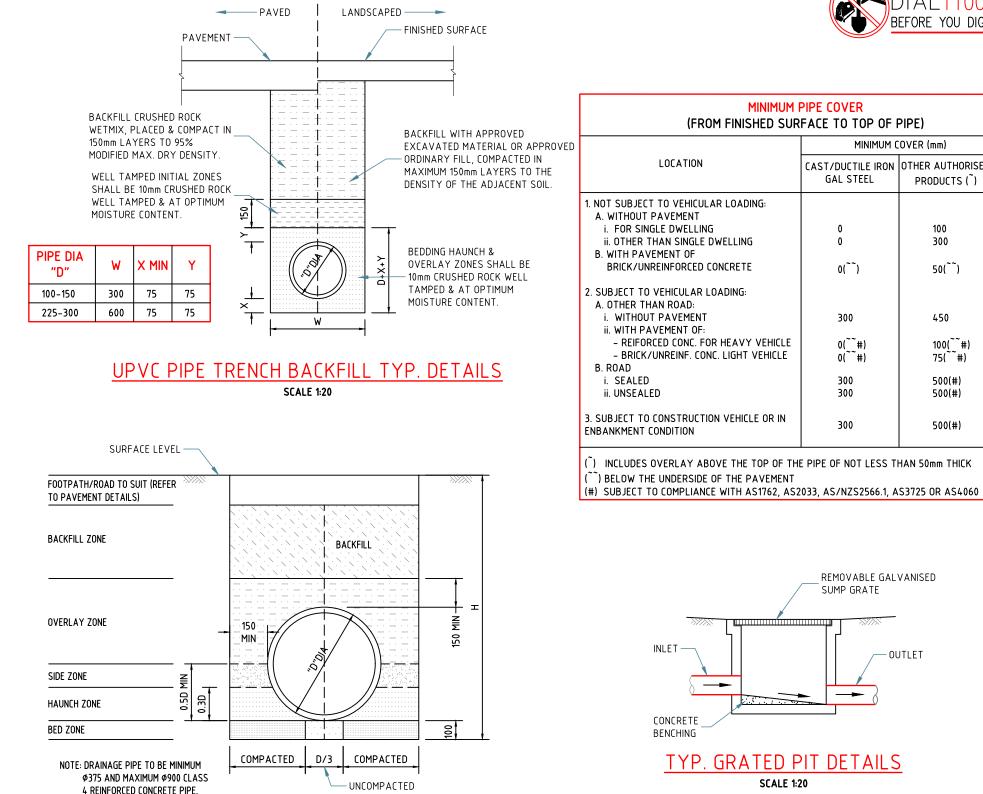
10. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH: - ARCHITECTURAL PLAN BY OLIVER KEAVENEY, JOB No. 18456, DATED 07/10/22

BASIX REQUIREMENTS

THIS DEVELOPMENT REQUIRES A 3500L RWT. A 3500L ABOVE GROUND RWT IS PROVIDED TO MEET THE REQUIREMENT

OSD REQUIREMENTS

SITE AREA = 1004 m2 TOTAL IMPERVIOUS AREA = 290m2 IMPERVIOUS RATIO = 28% < 35% THEREFOR, OSD IS NOT REQUIRED



CONCRETE PIPE TRENCH BACKFILL TYP. DETAILS

SCALE 1:20

All dimensions are in millimetres. Do not scale the drawing. Use written dimensions. Dimensions must be confirmed prior to commencement. Location of services are approximate only. Dial 1100 before any excavation or demolition.	_	visions Checked: HN	Approved:	C O N S U		NITMA CONSULTING PTY LTD PO Box 43, West Ryde NSW 1685 P: 1300 905 269 E: admin@nitma.com.au W: nitma.com.au © Copyright. All rights reserved.	PROJECT: PROPO ADDRESS: 100 HIL LGA: NORTHERN NOTE Project No: 5652H
---	---	------------------------	-----------	-----------	--	---	--

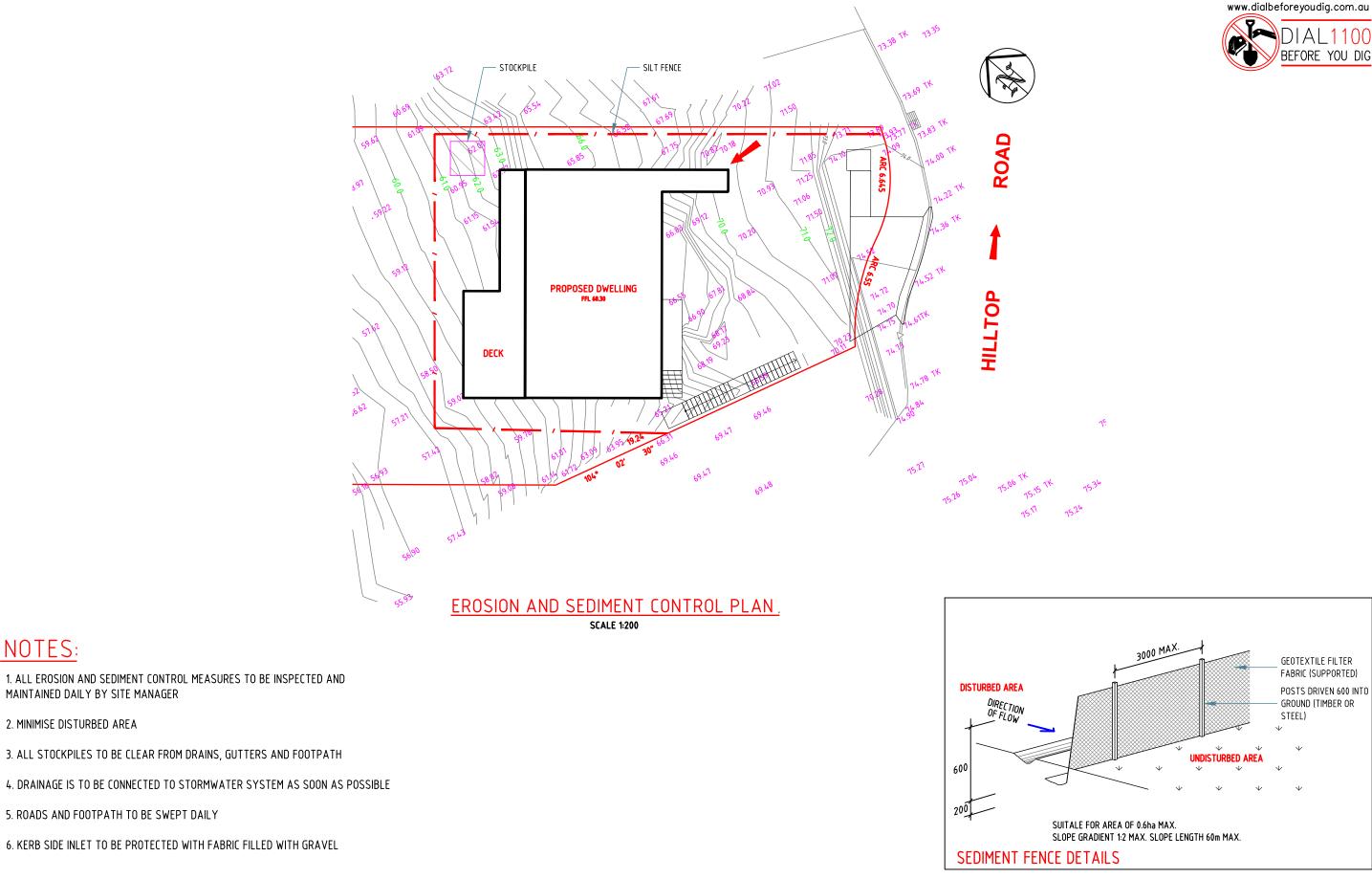
www.dialbeforeyoudig.com.au



<mark>minimum i</mark> (From Finished Sur	P <mark>IPE COVER</mark> FACE TO TOP OF I	PIPE)
	MINIMUM (OVER (mm)
DEATION	CAST/DUCTILE IRON GAL STEEL	OTHER AUTHORISED PRODUCTS (~)
VEHICULAR LOADING: /EMENT		
DWELLING	0	100
N SINGLE DWELLING NT OF	0	300
	0(~~)	50(~~)
HCULAR LOADING: ROAD:		
VEMENT IENT OF:	300	450
CONC. FOR HEAVY VEHICLE	0(~~~#)	100(~~#)
Reinf. Conc. Light Vehicle	0(~~#)	75(~~#)
	300 300	500(#) 500(#)
ISTRUCTION VEHICLE OR IN DITION	300	500(#)

POSED DWELLING HILLTOP RD. CLAREVILLE N BEACHES COUNCIL **FES & STANDARD DETAILS**

2H Issue: A Date: 28.10.2022 Sheet No:



All dimensions are in millimetres. Do not scale the drawing. Use written dimensions. Dimensions must be confirmed prior to commencement. Location of services are approximate only. Dial 1100 before any excavation or demolition.	Original issue	visions Checked: HN	Approved:		NITMA CONSULTING PTY LTD PO Box 43, West Ryde NSW 1685 P: 1300 905 269 E: admin@nitma.com.au W: nitma.com.au © Copyright. All rights reserved.	PROJECT: PROPOSED DWELLI ADDRESS: 100 HILLTOP RD, CL LGA: NORTHERN BEACHES CC EROSION & SEDII Project No: 5652H Issue: A	
---	----------------	------------------------	-----------	--	---	--	--

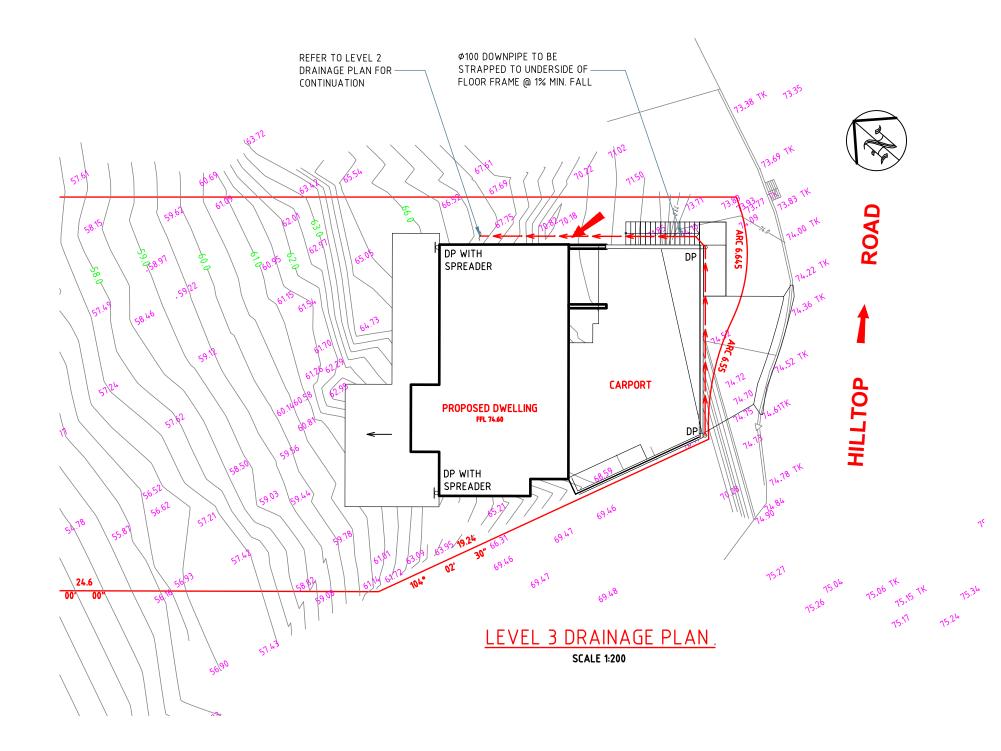
NOTES:

MAINTAINED DAILY BY SITE MANAGER

5. ROADS AND FOOTPATH TO BE SWEPT DAILY

2. MINIMISE DISTURBED AREA





r size:	All dimensions are in millimetres. Do not scale the drawing. Use written dimensions. Dimensions must be confirmed prior to commencement. Location of services are approximate only. Dial 1100 before any		evisions	Approved:	NTmA	NITMA CONSULTING PTY LTD PO Box 43, West Ryde NSW 1685 P: 1300 905 269 E: admin@nitma.com.au W: nitma.com.au	PROJECT: PROPO ADDRESS: 100 HIL LGA: NORTHERN E
Pal	excavation or demolition.	Designed: CH	Checked: HN		CONSULTING	© Copyright. All rights reserved.	Project No: 5652H

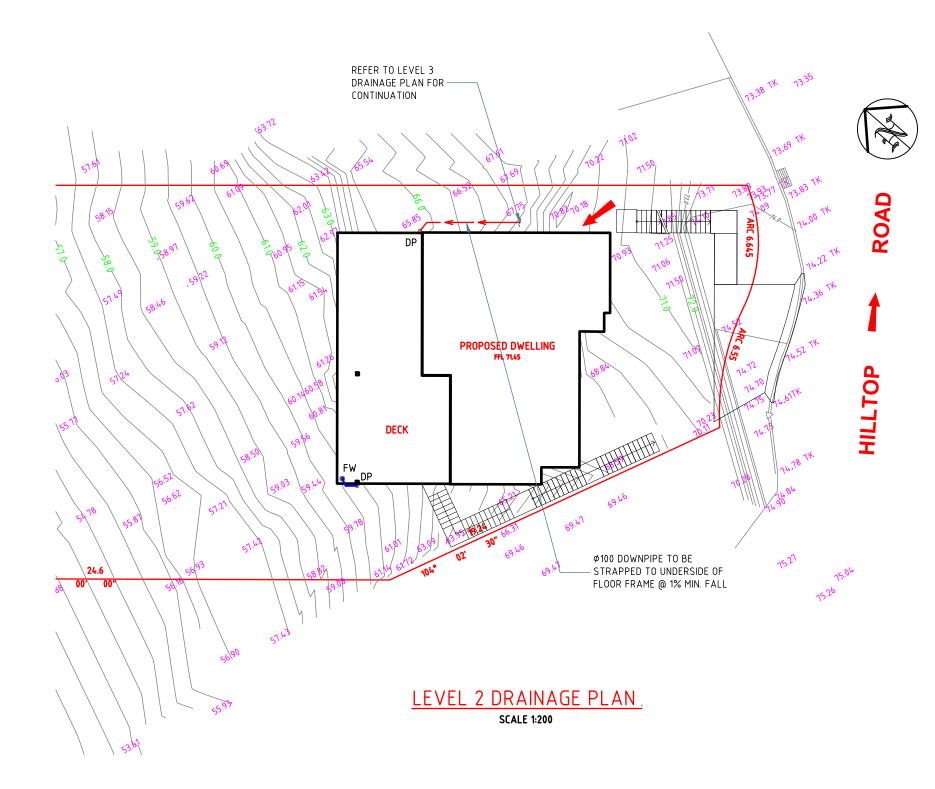
www.dialbeforeyoudig.com.au



<u>LEGENI</u>	<u>)</u>
DP	DOWNPIPE
GP	GRATED PIT
SP	SILT ARRESTOR PIT
CP	CLEAN-OUT PIT
SL	SURFACE LEVEL
IL	INVERT LEVEL
	GRATED BOX DRAIN
	ROOF- WATER PIPELINE
	SURFACE- WATER PIPELINE
	EXISTING PIPELINE
	SURFACE RUNOFF DIRECTION
20.00	EXISTING GROUND CONTOUR
+20.00	PROPOSED GROUND LEVEL

POSED DWELLING HILLTOP RD, CLAREVILLE RN BEACHES COUNCIL LEVEL 3 DRAINAGE PLAN

2H Issue: A Date: 28.10.2022 Sheet No:



r si:	All dimensions are in millimetres. Do not scale the drawing. Use written dimensions. Dimensions must be confirmed prior to commencement. Location of services are approximate only. Dial 1100 before any		Revisions	Approved:	NTmA	NITMA CONSULTING PTY LTD PO Box 43, West Ryde NSW 1685 P: 1300 905 269 E: admin@nitma.com.au W: nitma.com.au	PROJECT: PROPO ADDRESS: 100 HIL LGA: NORTHERN I
Pa	excavation or demolition.	Designed: CH	Checked: HN		CONSULTIN	G © Copyright. All rights reserved.	Project No: 5652H

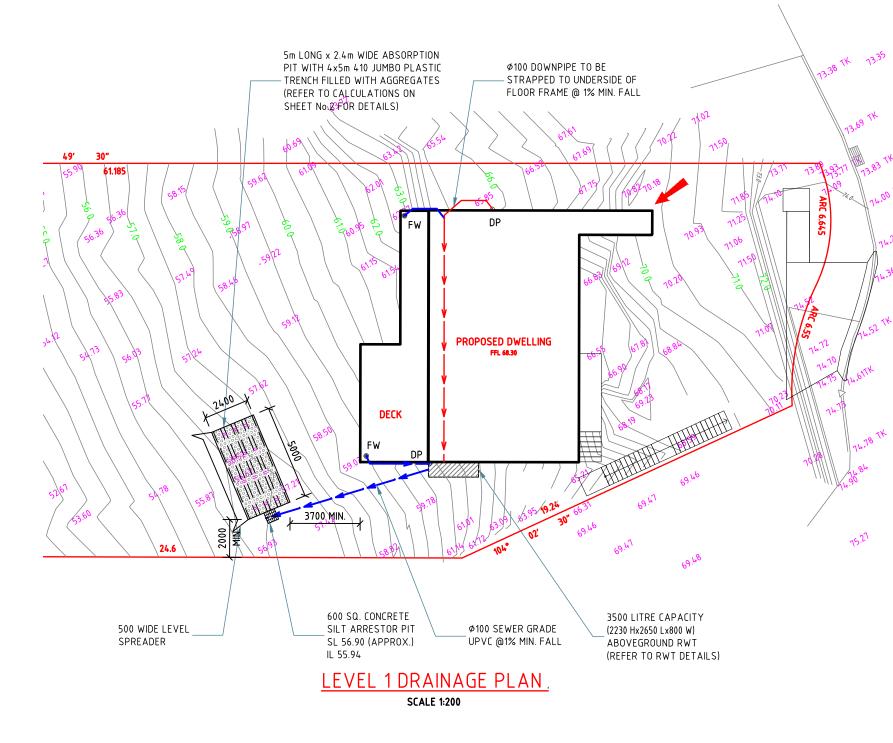
www.dialbeforeyoudig.com.au



LEGEND DP DOWNPIPE GRATED PIT GΡ SP SILT ARRESTOR PIT СР CLEAN-OUT PIT SL SURFACE LEVEL INVERT LEVEL IL GRATED BOX DRAIN - ROOF- WATER PIPELINE SURFACE- WATER PIPELINE EXISTING PIPELINE SURFACE RUNOFF DIRECTION 20.00 EXISTING GROUND CONTOUR PROPOSED GROUND LEVEL +20.00

POSED DWELLING HILLTOP RD, CLAREVILLE N BEACHES COUNCIL EVEL 2 DRAINAGE PLAN

2H Issue: A Date: 28.10.2022 Sheet No:



r size: A	All dimensions are in millimetres. Do not scale the drawing. Use written dimensions. Dimensions must be confirmed prior to commencement. Location of services are approximate only. Dial 1100 before any	Original issue	Revisions	Approved:	NTmA	NITMA CONSULTING PTY LTD PO Box 43, West Ryde NSW 1685 P: 1300 905 269 E: admin@nitma.com.au W: nitma.com.au	PROJECT: PROPOSED DWELLING ADDRESS: 100 HILLTOP RD, CLAF LGA: NORTHERN BEACHES COUN LEVEL 1 DR/
	excavation or demolition.	Designed: CH	Checked: HN		CONSULTING	© Copyright. All rights reserved.	Project No: 5652H Issue: A D

N BEACHES COUNCIL EVEL 1 DRAINAGE PLAN 2H Issue: A Date: 28.10.2022 Sheet No:

HILLTOP RD, CLAREVILLE

LEGEND

ROAD HILLTOP

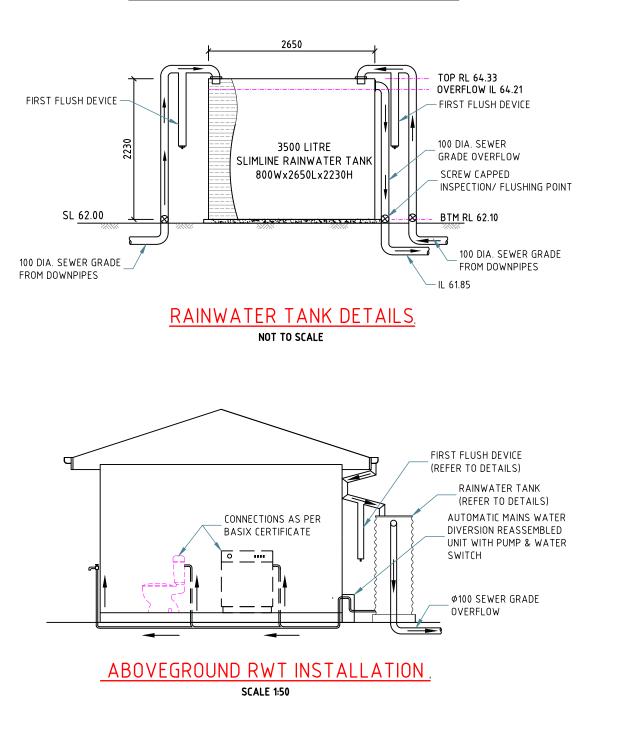
www.dialbeforeyoudig.com.au DIAL1100 BEFORE YOU DIG

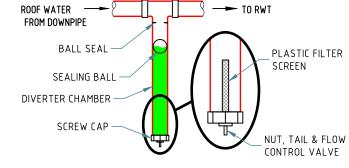


DP DOWNPIPE GRATED PIT GΡ SILT ARRESTOR PIT SP CP CLEAN-OUT PIT SL SURFACE LEVEL INVERT LEVEL IL GRATED BOX DRAIN ROOF- WATER PIPELINE - SURFACE- WATER PIPELINE EXISTING PIPELINE SURFACE RUNOFF DIRECTION 20.00-EXISTING GROUND CONTOUR +20.00 PROPOSED GROUND LEVEL

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.



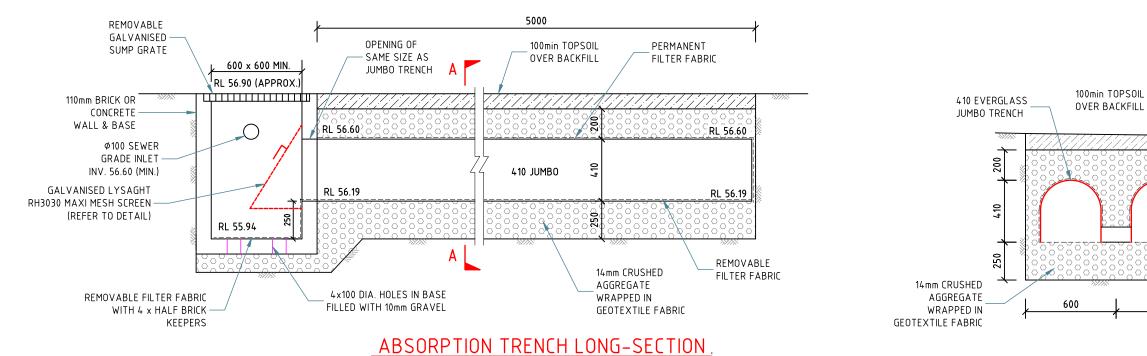




r size:	All dimensions are in millimetres. Do not scale the drawing. Use written dimensions. Dimensions must be confirmed prior to commencement. Location of services are approximate only. Dial 1100 before any		evisions	Approved:	NTmA	NITMA CONSULTING PTY LTD PO Box 43, West Ryde NSW 1685 P: 1300 905 269 E: admin@nitma.com.au W: nitma.com.au	PROJECT: PROPOS ADDRESS: 100 HILL LGA: NORTHERN BE RV
Pat	excavation or demolition.	Designed: CH	Checked: HN		CONSULTING	© Copyright. All rights reserved.	Project No: 5652H

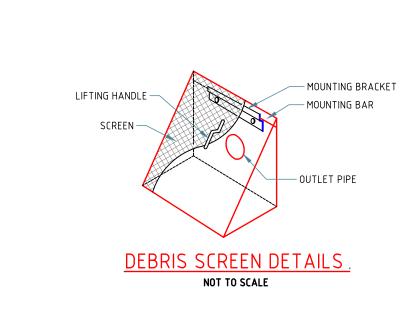


OSED DWELLING LLTOP RD, CLAREVILLE BEACHES COUNCIL RWT AND PIT DETAILS 6 of 7 Issue: A Date: 28.10.2022 Sheet No:



SCALE 1:25

ABSORPTION TRENCH SYSTEM CALCULATION	S	
Project No: 5652H – Address: 100 Hilltop Rd, Cla	areville	
		_
Total area drained into absorption system	260	m2
Maximum required absorption system volume		
MRASV (m3)	3.90	m3
No of pits	1	
Storage volume of each pit	0.35	m3
Total length of Jumbo pipes	20	m
Width of each trench	0.6	m
Total length of trenches	20	m
Total trench area	12	m2
Jumbo pipe diameter	0.41	m
Assumed void ratio of gravel backfill	30	%
Thickness of gravel layer above Jumbo	0.2	m
Thickness of gravel layer below Jumbo	0.2	m
Storage capacity of 410 jumbo pipes	2.64	m3
Volume of void in gravel layer above Jumbo	0.72	m3
Volume of void in gravel layer below Jumbo	0.72	m3
Total storage volume of pits	0.35	m3
TOTAL AVAILABLE STORAGE VOLUME	4.43	m3



600

	P: 1300 905 269 E: admin@nitma.com.au W: nitma.com.au	com.au LGA: NORTHERN E
--	---	------------------------

ORPTION TRENCH DETAILS 2H Issue: A Date: 28.10.2022 Sheet No:

7 of 7

DPOSED DWELLING HILLTOP RD, CLAREVILLE RN BEACHES COUNCIL



