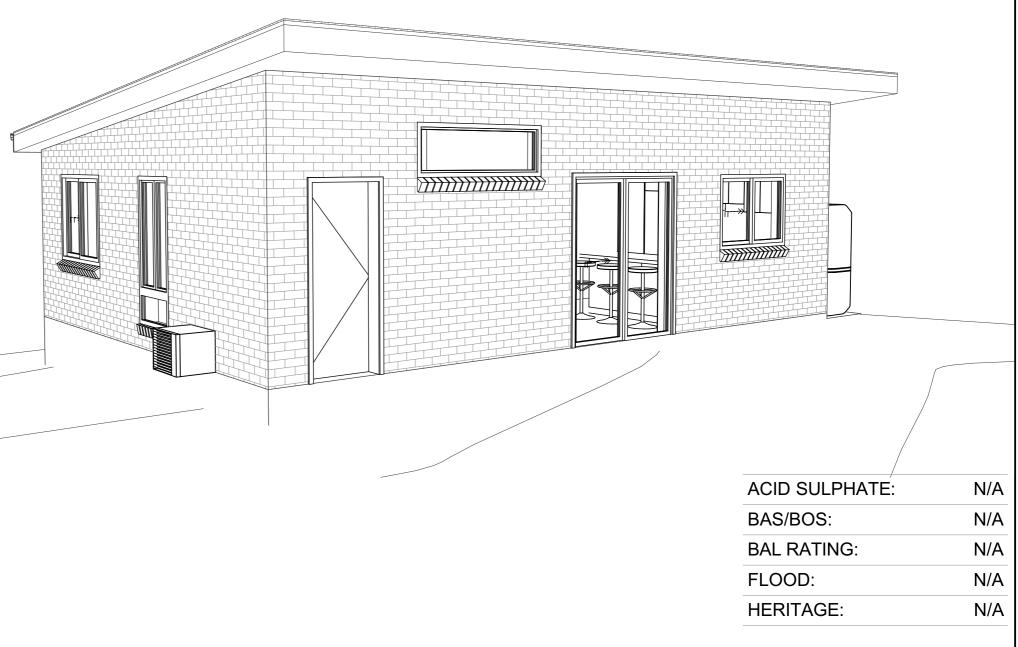
PROPOSED 2 BEDROOM GRANNY FLAT **59 McIntosh Road, Dee Why**

SITE CALCULATIONS				
SITE AREA:	727.2m ²			
EXISTING DWELLING:	125.47m ²			
EXISTING AWNING:	25.22m ²			
EXISTING DECK:	19.41m²			
EXISTING GARAGE:	15.6m ²			
EXISTING LAUNDRY:	6.3m ²			
EXISTING SHED:	18.29m ²			
PROPOSED GRANNY FLAT GROSS AREA:	60m²			
PROPOSED GRANNY FLAT BUILT AREA:	64.7m ²			
TOTAL GROSS FLOOR AREA:	171.73m²			
FLOOR SPACE RATIO:	0.24/1			
TOTAL SOFT AREAS:	198.78m² (27.3%)			
SITE COVERAGE AREAS:				
BUILDINGS:	274.99m ²			
DRIVEWAYS/PATHS:	219.56m ²			
TOTAL:	494.55m² (68%)			



GENERAL NOTES

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JOB REF 193520 LOT 17 - DP 9255

CDC 01

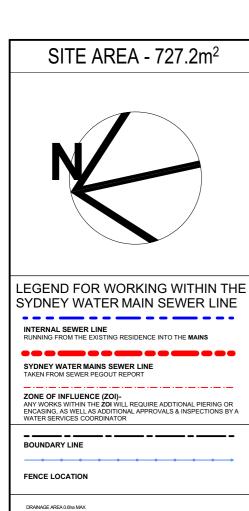
SCALE A3

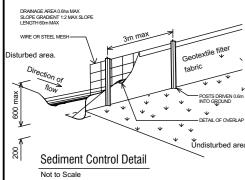
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COVER PAGE

GrannyFlat

20 / 7 SEFTON ROAD, THORNLEIGH NSW 2120 Ph: (02) 9481 7443





SITE INDUCTION NOTE:

BEFORE ENTERING THE SITE, PLEASE REVIEW AND MAKE YOURSELF FAMILIAR WITH THE EMERGENCY CONTACTS, AND SITE INDUCTION INFORMATION.

IF YOU HAVE ANY TROUBLES UNDERSTANDING THE INSTRUCTIONS, PLEASE CONTACT YOUR SITE SUPERVISOR BEFORE ENTERING THE SITE.

IMPORTANT SURVEY NOTE:

PARCEL BOUNDARY DIMENSIONS, BEARINGS AND AREAS HAVE BEEN ADOPTED FROM THE SUBJECT DEPOSITED PLAN AND HAVE NOT BEEN INVESTIGATED. ANY BEARING, DISTANCE, AREA, SETBACK OR OTHER DIMENSION MAY BE SUBJECT TO CHANGE WITH FURTHER INVESTIGATION AND LODGEMENT OF A PLAN AT THE LAND TITLES OFFICE.

THEREFORE, AT TIME OF SITE PEGOUT BEFORE CONSTRUCTION WORKS COMMENCE, THERE MAY BE SOME MINOR DISCREPANCIES WITH THE SETBACKS BETWEEN BUILDINGS AS SHOWN ON THE SITE PLAN.

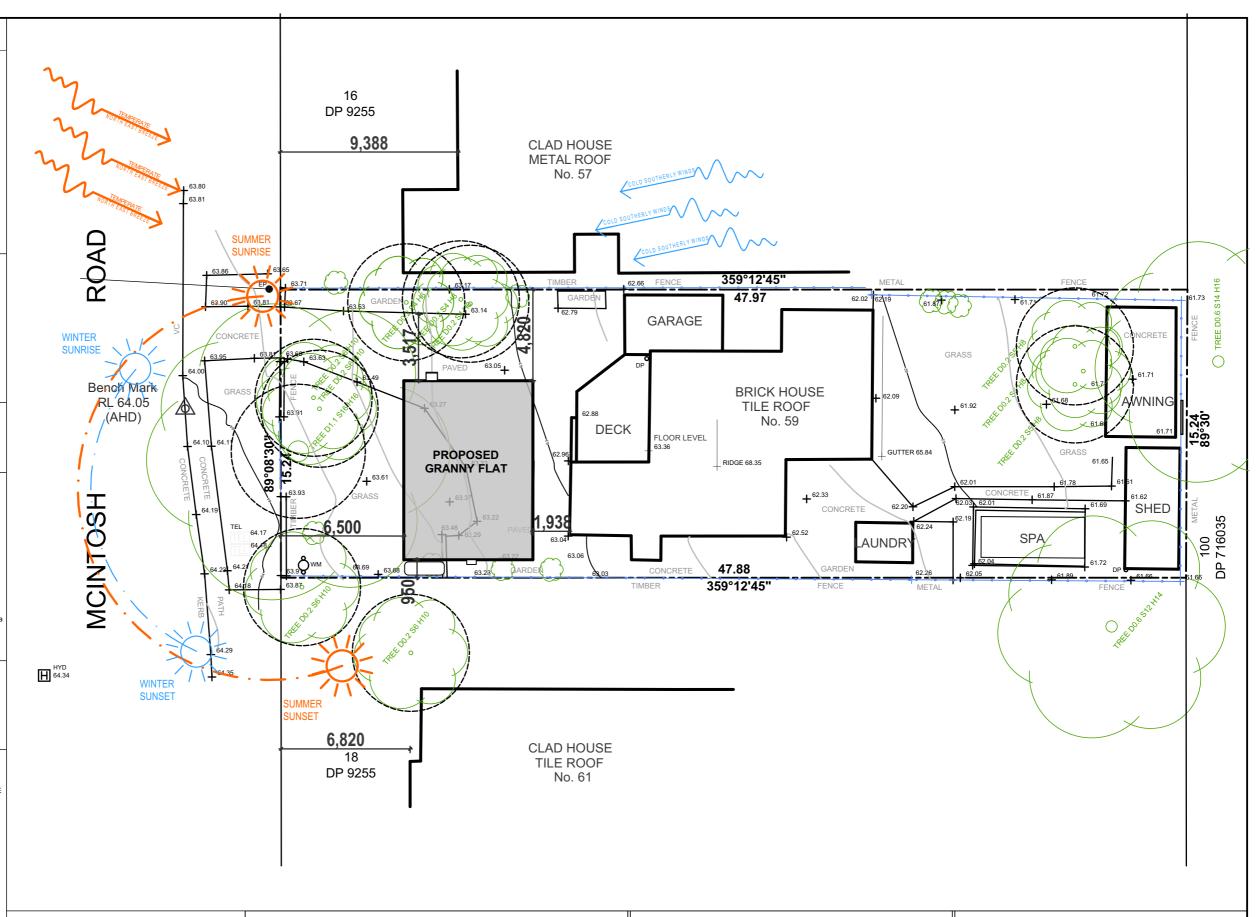
CONTOURS ARE INDICATIVE OF SURFACE TOPOGRAPHY ONLY. SURVEYED SPOT LEVELS ARE THE ONLY VALUES AT WHICH REDUCED LEVEL CAN BE RELIED UPON. CONTOURS ARE DISPLAYED AT 1 METRE MAJOR AND 0.25 METRE MINOR INTERVALS.

SERVICES SHOWN HAVE BEEN DERIVED FROM VISUAL EVIDENCE APPARENT AT THE TIME OF SURVEY. IT IS STRONGLY ADVISED TO VISIT 'DIAL BEFORE YOU DIG' PRIOR TO ANY EXCAVATION OR CONSTRUCTION AND VERIFY LOCATIONS WITH A SUITABLY QUALIFIED SERVICE LOCATOR PRIOR TO ANY WORKS OR CRITICAL DESIGN.

IT IS STRONGLY ADVISED TO REVIEW AN UP TO DATE TITLE SEARCH AND GIVE CAREFUL CONSIDERATION TO ALL ITEMS PRIOR TO ANY PLANNING OR CONSTRUCTION.

TREE AND ROOF PROFILE DETAILS ARE APPROXIMATE ONLY.

WHEN BUILDING ON A SITE WITH AN EXISTING INGROUND POOL, GRANNY FLAT SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY VIBRATION CAUSED TO THE POOL DURING EXCAVATION, PIERING AND CONSTRUCTION, OR TO FUTURE DAMAGE





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				JOB REF	193520
				SCALE A3	1:200
2/12/2019	AC	E	DA Issue to Council		
DATE	DRAWN BY	REVISION	ISSUE	SHEET	CDC 02

59 McIntosh Road, Dee Why

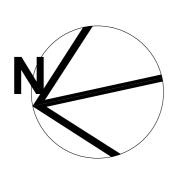
Ben & Elizabeth Davis

LOT 17 - DP 9255

SITE PLAN & ANALYSIS



20 / 7 SEFTON ROAD, THORNLEIGH NSW 2120 Ph: (02) 9481 7443



LEGEND FOR WORKING WITHIN THE SYDNEY WATER MAIN SEWER LINE

INTERNAL SEWER LINE
RUNNING FROM THE EXISTING RESIDENCE INTO THE MAINS

SYDNEY WATER MAINS SEWER LINE

ZONE OF INFLUENCE (ZOI)ANY WORKS WITHIN THE ZOI WILL REQUIRE ADDITIONAL PIERING OR ENCASING, AS WELL AS
ADDITIONAL APPROVALS & INSPECTIONS BY A WATER SERVICES COORDINATOR

FLOOR FINISHES NOTE

PLEASE NOTE THAT THERE MAY BE A SMALL STEP WHEN THERE IS A CHANGE IN FLOOR FINISHES BETWEEN ROOMS

FLYSCREEN NOTES

ALL FLYSCREEN FOR SLIDING DOORS TO HAVE MID BARS

GLAZING NOTES

ALL GLAZING TO COMPLY WITH AS 1288 & BASIX CERTIFICATE
ALL WINDOWS WILL HAVE A FIXED PANEL ON THE RIGHT AND OPENING PANEL
ON THE LEFT, WHEN VIEWED FROM THE OUTSIDE, UNLESS REQUESTED
OTHERWISE. SLIDING DOORS WILL OPEN IN DIRECTION AS SHOWN ON PLAN.

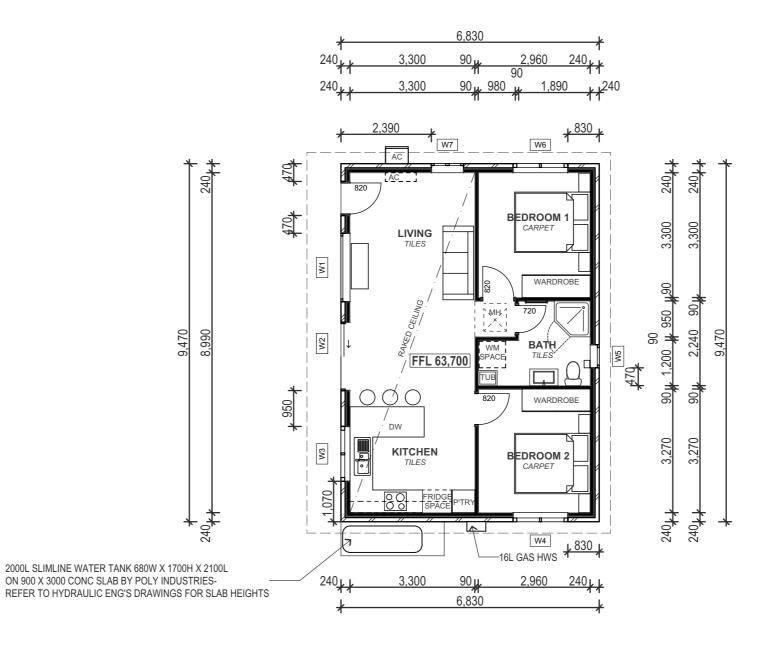
STUD OPENING SIZE

ADD 60mm TO HEIGHT AND 50mm TO WIDTH OF ALL WINDOWS

BAL RATING: SEE NOTE ON PAGE 1

WINDOW SCHEDULE

W#	HEIGHT	WIDTH	FRAME	GLAZING	TYPE	REVEAL
W1	600	1,810	ALUMINIUM	CLEAR	FIXED	138mm
W2	2,100	1,810	ALUMINIUM	CLEAR	SLIDING	138mm
W3	1,029	1,450	ALUMINIUM	CLEAR	SLIDING	138mm
W4	1,200	1,450	ALUMINIUM	CLEAR	SLIDING	138mm
W5	857	610	ALUMINIUM	OBSCURE	AWNING	138mm
W6	1,200	1,450	ALUMINIUM	CLEAR	SLIDING	138mm
W7	1 800	850	ALUMINIUM	CLEAR	SLIDING	138mm



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DRAWN BY REVISION ISSUE

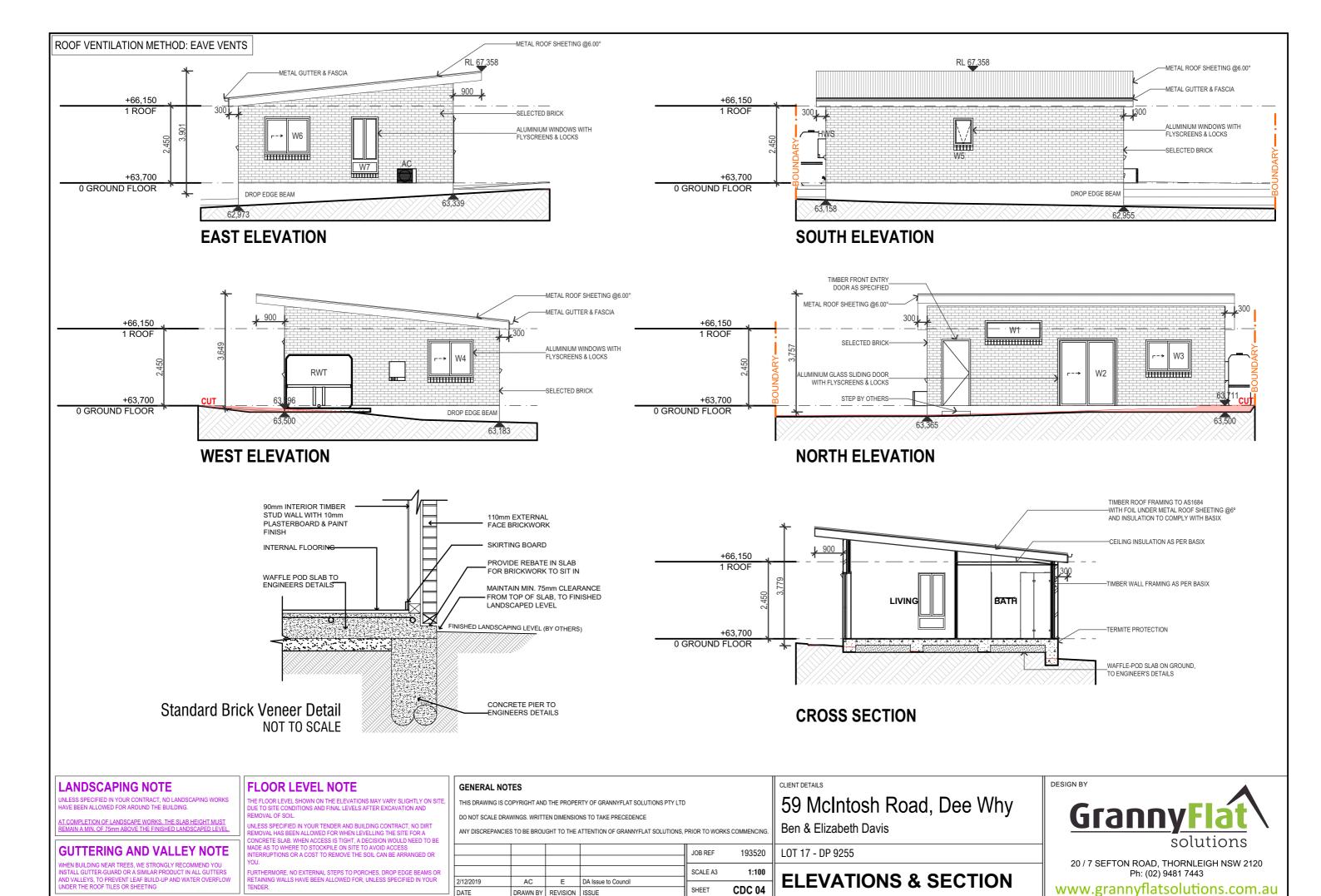
59 McIntosh Road, Dee Why Ben & Elizabeth Davis

LOT 17 - DP 9255

FLOOR PLAN



20 / 7 SEFTON ROAD, THORNLEIGH NSW 2120 Ph: (02) 9481 7443



Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Fixtures			
The applicant must install showerheads with a minimum rating of 4 star (> 4.5 but <= 6 L/min plus spray force and/or coverage tests) in all showers in the development.		~	~
The applicant must install a toilet flushing system with a minimum rating of 4 star in each toilet in the development.		~	~
The applicant must install taps with a minimum rating of 3 star in the kitchen in the development.		~	
The applicant must install basin taps with a minimum rating of 3 star in each bathroom in the development.		~	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 2000 litres on the site. This 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 rain runoff from at least 104 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		~	~
The applicant must connect the rainwater tank to:			
 at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.) 		•	-

consumption in areas with potable water supply.)		~	~
Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifie check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 6 stars.	~	~	~
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 3 Star		~	~
The bedrooms must not incorporate any cooling system, or any ducting which is designed to accommodate a cooling system.		~	-
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: 1-phase airconditioning; Energy rating: 3 Star		~	-
The bedrooms must not incorporate any heating system, or any ducting which is designed to accommodate a heating system.		~	V
/entilation			
The applicant must install the following exhaust systems in the development:			
At least 1 Bathroom: individual fan, ducted to façade or roof; Operation control: manual switch on/off			
Kitchen: individual fan, not ducted; Operation control: manual switch on/off			ľ
Laundry: natural ventilation only, or no laundry; Operation control: n/a			
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps:			
at least 2 of the bedrooms / study; dedicated		~	•
at least 2 of the living / dining rooms; dedicated		•	
the kitchen; dedicated		•	•
Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifi
all bathrooms/toilets; dedicated	·		
the law down do dischool		_	_
the laundry; dedicated		✓	•
all hallways; dedicated		~	V
latural lighting		<u> </u>	
he applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.		J	
he applicant must install a window and/or skylight in 1 bathroom(s)/toilet(s) in the development for natural lighting.	J	J	
Other			
he applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.			
The applicant must construct each refrigerator space in the development so that it is "well ventilated", as defined in the BASIX		•	
lefinitions.	1	1	+
lefinitions. The applicant must install a fixed outdoor clothes drying line as part of the development.		~	

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
General features			
The dwelling must not have more than 2 storeys.	~	~	~
The conditioned floor area of the dwelling must not exceed 300 square metres.	~	~	~
The dwelling must not contain open mezzanine area exceeding 25 square metres.	~	~	~
The dwelling must not contain third level habitable attic room.	~	~	~
Floor, walls and ceiling/roof			
The applicant must construct the floor(s), walls, and ceiling/roof of the dwelling in accordance with the specifications listed in the table below.	~	V	~

Construction	Additional insulation required (R-Value)	Other specifications
floor - concrete slab on ground	nil	
external wall - brick veneer	1.86 (or 2.40 including construction)	
ceiling and roof - flat ceiling / pitched roof	ceiling: 1.95 (up), roof: foil backed blanket (75 mm)	1 wind-driven ventilator(s) + eave vents; dark (solar absorptance > 0.70)
ceiling and roof - raked ceiling / pitched or skillion roof, framed	ceiling: 2.24 (up), roof: foil backed blanket (75 mm)	framed; dark (solar absorptance > 0.70)

Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Windows, glazed doors and skylights			
The applicant must install the windows, glazed doors and shading devices described in the table below, in accordance with the specifications listed in the table. Relevant overshadowing specifications must be satisfied for each window and glazed door.	-	~	-
The dwelling may have 1 skylight (<0.7 square metres) which is not listed in the table.	~	~	~
The following requirements must also be satisfied in relation to each window and glazed door:		~	-
For the following glass and frame types, the certifier check can be performed by visual inspection.			-
- Aluminium single clear			
- Aluminium double (air) clear			
- Timber/uPVC/fibreglass single clear			
- Timber/uPVC/fibreglass double (air) clear			

	1			1				
Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing			
North facing	North facing							
W01	600	1810	aluminium, single, clear	eave 300 mm, 50 mm above head of window or glazed door	not overshadowed			
W02	2100	1810	aluminium, single, clear	eave 300 mm, 50 mm above head of window or glazed door	not overshadowed			
W03	1029	1450	aluminium, single, clear	eave 300 mm, 50 mm above head of window or glazed door	not overshadowed			
East facing								
W06	1200	1450	aluminium, single, clear	eave 300 mm, 50 mm above head of window or glazed door	not overshadowed			
W07	1800	850	aluminium, single, clear	eave 300 mm, 50 mm above head of window or glazed door	not overshadowed			
South facing								
Window/glazed door no.	Maximum height (mm)	Maximum width (mm)	Туре	Shading Device (Dimension within 10%)	Overshadowing			
W05	600	610	aluminium, single, clear	eave 300 mm, 50 mm above head of	not overshadowed			

aluminium, single, clear

CERTIFICATE NUMBER: 0151868S

Project score		
Water	✓ 43	Target 40
Thermal Comfort	✓ Pass	Target Pass
Energy	✓ 54	Target 50

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West facing

1200

1450

Sen & Elizabeth Davis

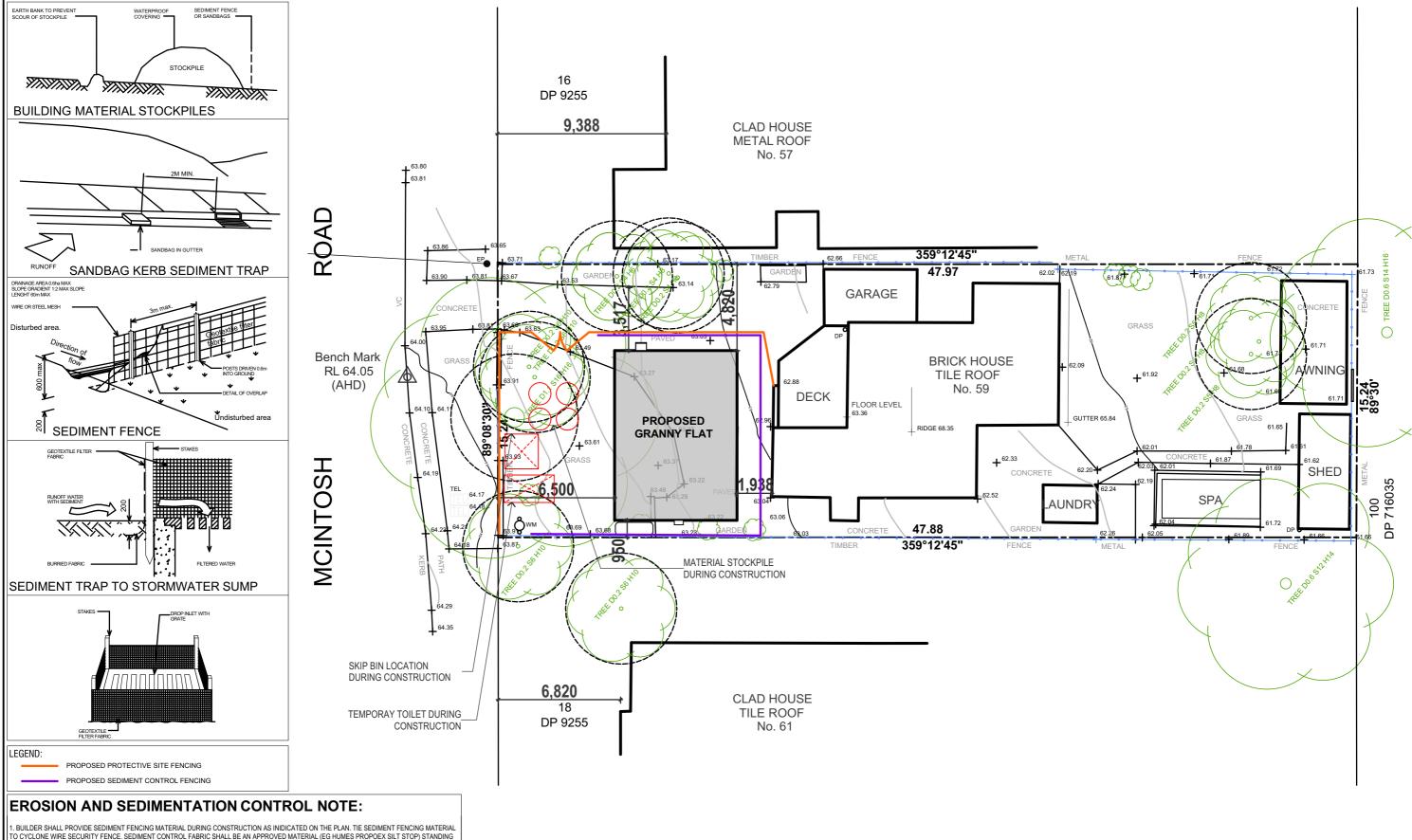
LOT 17 - DP 9255

BASIX COMMITMENTS

GrannyFlat solutions

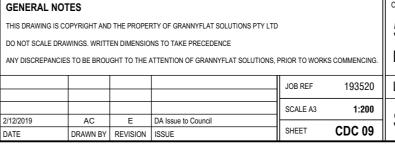
eave 300 mm, 50 mm above head of not overshadowed window or glazed door

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1. BUILDER SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION AS INIDICATED ON THE PLAN. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG HUMES PROPOEX SILT STOP) STANDING 300mm MIN. ABOVE GROUND AND EXTENDING 200mm BELOW GROUND.

- 2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL
- 3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE
- 4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- BUILDER SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE SITE DO SO IN A FORWARD DIRECTION.
- 7. ALL TEMPORARY STOCKPILES SHALL BE AT LEAST 2000mm CLEAR OF AREAS OF CONCENTRATED WATER FLOW & THE DRIVEWAY
- 3. PROVIDE MESH AND GRAVEL PROTECTION TO GUTTER INLETS NEAR THE ALLOTMENT



59 McIntosh Road, Dee Why Ben & Elizabeth Davis LOT 17 - DP 9255

SITE MANAGEMENT PLAN

Granny

20 / 7 SEFTON ROAD, THORNLEIGH NSW 2120 Ph: (02) 9481 7443



Colour & Material Schedule

For a Proposed Secondary Dwelling

Site Address: 59 McIntosh Rd, Dee Why



The colour scheme will be similar as shown above, with the following colours selected:

External Walls: Brick - Colour: Dark Grey

Fascia: Colour: Dark Grey Gutters: Colour: Dark Grey Roof tiles: Colour: Dark Grey

Windows: Powder Coated Aluminium – Colour: White

Note: Shades may vary slightly with the finished product.

PROPOSED SECONDARY DWELLING AT 59 MCINTOSH RD, DEE WHY NSW 2099

GENERAL NOTES

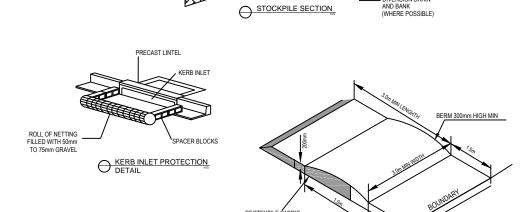
- ALL WORKS SHALL BE IN ACCORDANCE WITH B.C.A AND AS3500.3.
- ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERS DRAWINGS CORRESPOND TO THE ARCHITECTURAL, STRUCTURAL, AND LANDSCAPING DRAWINGS. IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE DRAWINGS, THE BUILDER SHALL REPORT THE DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORKS.
- PRIOR TO COMMENCING ANY WORKS, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTS INTO THE COUNCILS KERB/DRAINAGE SYSTEM MATCHED THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER.
- THE DRAINAGE CONTRACTOR IS TO LOCATE AND RELOCATE AS NECESSARY ALL SERVICES ON SITE
- ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK, THIS IS TYPICALLY METRES TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL DOWNPIPES TO BE 100MM DIAMETER UNLESS NOTED OTHERWISE
- ALL DOWN PIPES TO HAVE LEAF GUARDS.
- ALL LINES ARE TO BE 100MM DIAMETER uPVC AT A MINIMUM 1.0% SLOPE UNLESS NOTED OTHERWISE. LINES ARE TO BE SEWER-GRADE AND SEALED
- G10 ALL PIPES TO HAVE MINIMUM 150MM COVER IF LOCATED WITHIN PROPERTY.
- ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES
- G12 ALL SUB-SOIL DRAINAGE SHALL BE OF A MINIMUM 100MM DIAMETER AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE ARCHITECT OR STORMWATER ENGINEER.
- G13 ALL RETAINING WALLS SHALL BE CONSTRUCTED COMPLETELY WITHIN THE PROPERTY BOUNDARY LIMITS TO DETAILS PREPARED BY THE STRUCTURAL ENGINEER. WALLS FORMING THE ON-SITE DETENTION SYSTEM SHALL BE OF MASONARY/BRICK/CONCRETE CONSTRUCTION AND WATER TIGHT
- G14 ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON-SITE DETENTION STORAGE SHALL BE OF A NON-FLOTABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. PINE PARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA
- G15 ALL DRAINAGE WORKS ARE TO AVOID TREE ROOTS. ROOT BARRIER TO BE INSTALLED ADJACENT TO TREE ZONES WHERE DRAINAGE MAY BE AT RISK
- G16 ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- G17 COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE

RAINWATER TANKS

- RAINWATER TANK, DRAINED ROOF AREAS AND REUSE PLUMBING TO COMPLY WITH BASIX REQUIREMENTS AND CERTIFICATE.
- R2 ADEQUATE SCREENING TO PREVENT MOSQUITO BREEDING AND ENTRY OF ANIMAL OR FLOATING MATTER
- A 'FIRST FI LISH' DIVERSION TO REMOVE ROOF CONTAMINANTS MUST BE PROVIDED
- TANKS TO BE PUMPED TO TOP-UP FROM THE POTABLE WATER SUPPLY DURING DRY PERIOD WHEN THE TANK IS 80% EMPTY.
- PUMP TO BE SUITABLY SOUNDPROOFED
- A SIGN IS TO BE INSTALLED NEAR THE RAINWATER TANK HIGHLIGHTING "NOT FOR HUMAN CONSUMPTION"

LEGEND

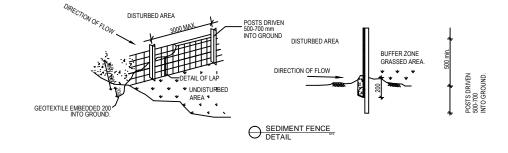
PRESSURE PIPE (CHARGED LINE) GRAVITY PIPE AT MIN. 1% SLOPE U.N.O. AG. LINE AT MIN. 1% SLOPE DOWNPIPE MIN Ø100 U N O **GRATED PIT** SL: SURFACE LEVEL IL: INVERT LEVEL CLEANING EYE (INSPECTION EYE) OVERLAND FLOW PATH **GRATED TRENCH** EXISTING RL



TEMPORARY CONSTRUCTION EXIT

SEDIMENT & EROSION CONTROL

- PLANS ARE MINIMUM REQUIREMENTS AND ARE TO BE USED AS A GUIDE ONLY, EXACT MEASURES USED SHALL BE DETERMINED ON SITE IN CONJUNCTION WITH PROGRAM OF CONTRACTORS WORKS
- IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURE TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CLEARING OR EARTHWORKS AND MAINTAINED UNTIL THE WORKS ARE COMPLETED AND NO LONGER POSE AN EROSION HAZARD, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT
- IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO IDENTIFY AND MARK TREES WHICH ARE TO BE PRESERVED. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO MINIMISE DISTURBANCE TO EXISTING VEGETATION AND GROUND COVER OUTSIDE THE MINIMUM AREAS REQUIRED TO COMPLETE THE WORKS AND SHALL BE RESPONSIBLE FOR RECTIFICATION AT ITS OWN COST OF ANY DISTURBANCE BEYOND THOSE AREAS
- PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
- PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT.
- ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
- ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION
- WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM.
- NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
- APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGHOUT CONSTRUCTION.
- IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
- TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON SITE BY THE SUPERINTENDENT



SEDIMENT FENCE

- FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES, STAPLES OR
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150MM AND
- POSTS SHALL NOT BE SPACED MORE THAN 3.0 METRES APART
- FOR EXTRA STRENGTH TO SILT FENCE, WOVEN WIRE (14MM GAUGE, 150MM MESH SPACING) TO BE FASTENED SECURELY BETWEEN FILTER CLOTH AND POSTS BY WIRE TIES OR STAPLES
- INSPECTIONS SHALL BE PROVIDED ON A REGULAR BASIS, SPECIALLY AFTER RAINFALL AND EXCESSIVE SILT DEPOSITS REMOVED WHEN "BULGES" DEVELOP IN SILT FENCE SEDIMENT FENCES SHALL BE CONSTRUCTED WITH SEDIMENT TRAPS AND EMERGENCY SPILLWAYS AT SPACINGS NO GREATER THAN 40M ON FLAT TERRAIN DECREASING TO 20M SPACINGS ON STEEP TERRAIN

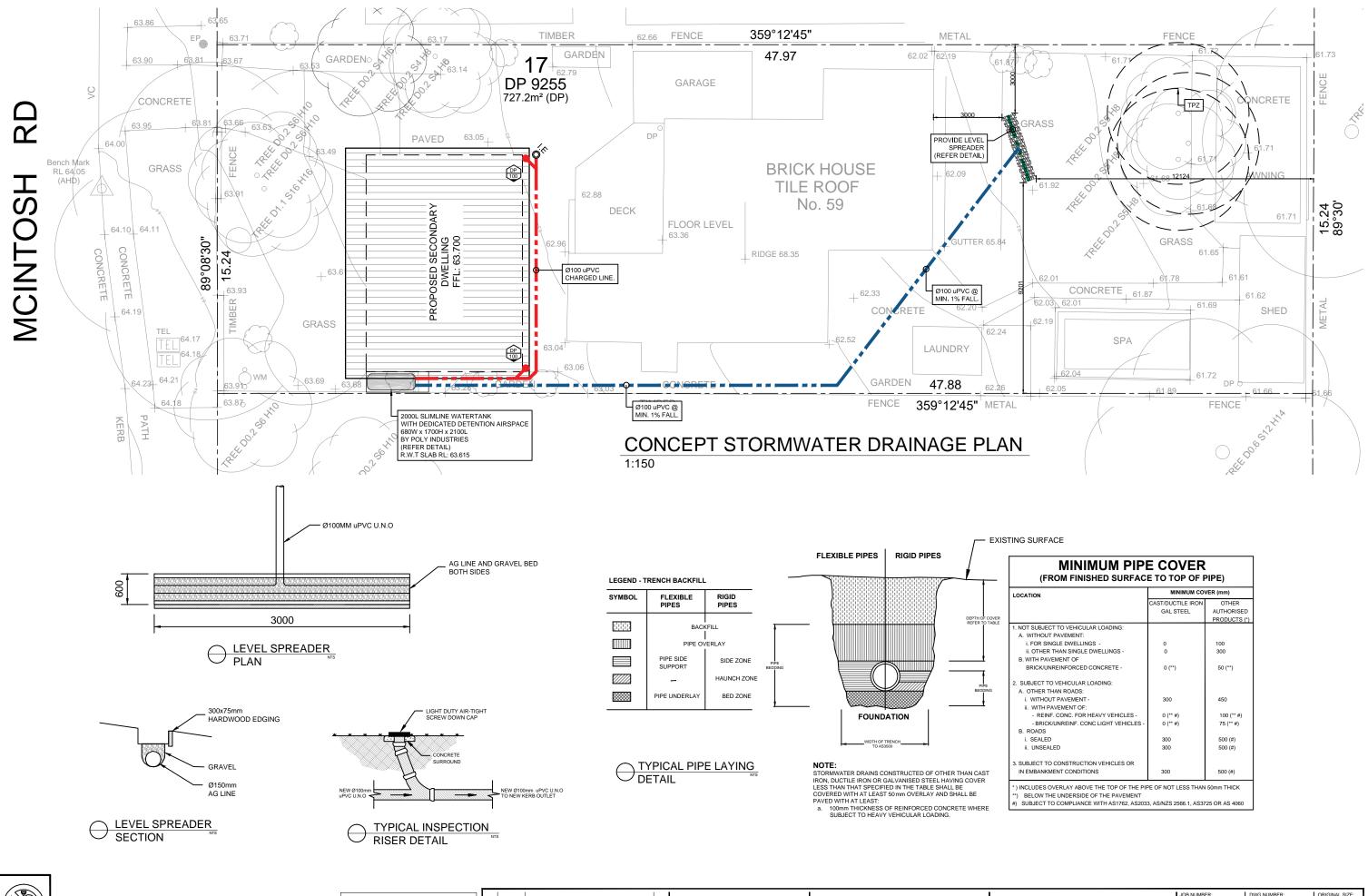
NOTE DO NOT SCALE OF DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR LEVELS, STEPS, DIMENSIONS AND SETOUT. VERIFY DIMENSIONS ON SITE. THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATIONS BEFORE COMMENCEMENT OF WORKS

12.12.2019 LEVEL SPREADER RELOCATED 10.12.2019 ISSUED FOR DA

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PROPOSED SECONDARY DWELLING AT 59 MCINTOSH RD, DEE WHY NSW 2099					
FOR GRANNY FLAT SOLUTIONS	DE M.				
GENERAL NOTES	DR				

NG	JOB NUMBER: 19666	DWG NUMBER: C000	ORIGINAL SIZE:
	DESIGNED BY: M.Y	DATE: 10/12/2019	
	DRAWN BY: M.Y	SCALE: AS SHOWN	





NOT FOR CONSTRUCTION

NOTE
DO NOT SCALE OF DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR LEVELS, STEPS, DIMENSIONS AND SETOUT. VERIFY DIMENSIONS ON SITE. THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATIONS TO THAT SHOWN ON STRUCTURAL PLANS BEFORE COMMENCEMENT OF WORKS

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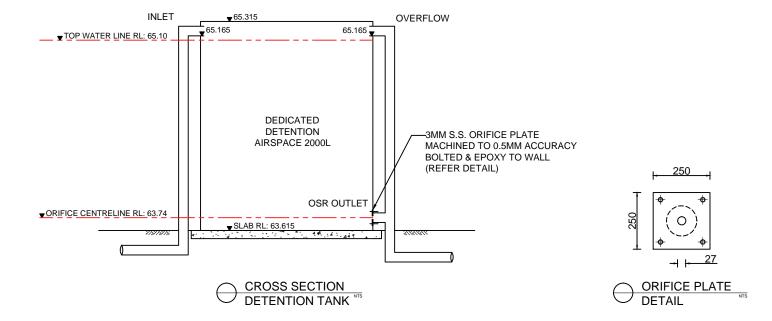


PROPOSED SECONDARY DWELLING
AT 59 MCINTOSH RD, DEE WHY NSW 2099
FOR GRANNY FLAT SOLUTIONS

CONCEPT STORMWATER DRAINAGE PLAN/

DETAILS

•	19666	C001	A3	
	DESIGNED BY: M.Y	DATE: 10/12/2019		
/	DRAWN BY: M.Y	SCALE: AS SHOWN		



DISCHARGE CALCULATIONS:

VOLUME CALCULATED USING DRAINS SOFTWARE

DURATION	PRE-DEVELOPED STATE	POST-DEVELOPED STATE
5 YEAR ARI - 60 MIN. STORM	2L/S	1L/S
10 YEAR ARI - 60 MIN. STORM	2L/S	1L/S
20 YEAR ARI - 60 MIN. STORM	3L/S	2L/S
50 YEAR ARI - 60 MIN. STORM	3L/S	2L/S
100 YEAR ARI - 60 MIN. STORM	4L/S	2L/S

SDS Engineering 19666 18/11/2019

EAVES GUTTER AND DOWN PIPE DESIGN TO AS/NZS 3500.3: 2018 59 McIntosh Rd, Dee Why NSW 2099

Proposed secondary dwelling

Horizontal catchment area	Ah	=	81	sq.m
Roof Average slope	S	=	6	degrees
Intensity	I	=	200	mm/hr
Is Gutter slope steeper than 1:500 ?			Yes	
Down pipe size selected	dia	=	100	mm
Cross referencing From Table 3.5.2 and Fig 3.5.2 Theoretical number of DPs required	Tnum	=	1.97	
Selected Number of Down pipes	n	=	2	
from AS3500 Table 3.4.5.2, C'ment Area Multiplier	f	=	1.05	
Roof Area allowing for slope	Ac	=	Ah*f	
		=	85.1	sq.m
Catchment Area per DP	A	=	Ac/n	sq.m
		=	42.5	sq.m
Flow/DP	q	=	I*A/3600	litres/sec
		=	2.36	litres/sec
from AS/NZS 3500 fig 3.5.2(B), Gutter Area		=	8101	sq.mm
Gutter Area rounded to nearest 100sq.mm		=	8100	sq.mm
From AS/NZS 3500 Table 3.5.2,, Down Pipe size		=	100	mm
Down Pipe size selected		=	100	mm
Summary				
This catchment requires :- number of DPs		=	2	
Downpipe size		=	100	mm
minimum eaves gutter cross sectional Area		=	8101	sq.mm
				-

Notes:

Catchment area of each DP to be roughly similar size.

Length of any gutter draining to a downpipe to be not longer than 12m.(NCC

POSSIBLE OPTIONS

	Number Req'd	Number Used	Gutter Area	Gutter Width	Gutter Depth
90 Dia:	2.6	3	5886	110	55
100 Dia:	1.97	2	8101	125	65
150 Dia:	0.73	1	14232	170	85
225 Dia:	0.26	1	14232	170	85
300 Dia:	0.13	1	14232	170	85

DOWNPIPE CAPACITY In terms of Plan area of roof.

	90 Dia	100 Dia	150 Dia	225 Dia	300 Dia
Max Catchment Area (sq.m)	31	41	111	322	660
Gutter Area (sq.mm)	6600	8200	18400	42310	76563

NOTE
DO NOT SCALE OF DRAWINGS. REFER TO
ARCHITECTURAL PLANS FOR LEVELS,
STEPS, DIMENSIONS AND SETOUT. VERIFY
DIMENSIONS ON SITE. THE ENGINEER
SHALL BE NOTIFIED OF ANY VARIATIONS
TO THAT SHOWN ON STRUCTURAL PLANS
BEFORE COMMENCEMENT OF WORKS

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PROPOSED SECONDARY DWELLING AT 59 MCINTOSH RD. DEE WHY NSW 2099	J 1
FOR GRANNY FLAT SOLUTIONS	С
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STORMWATER DRAINAGE DETAILS

G	JOB NUMBER: 19666	DWG NUMBER: C002	ORIGINAL SIZE
	DESIGNED BY: M.Y	DATE: 10/12/2019	
	DRAWN BY: M.Y	SCALE: AS SHOWN	