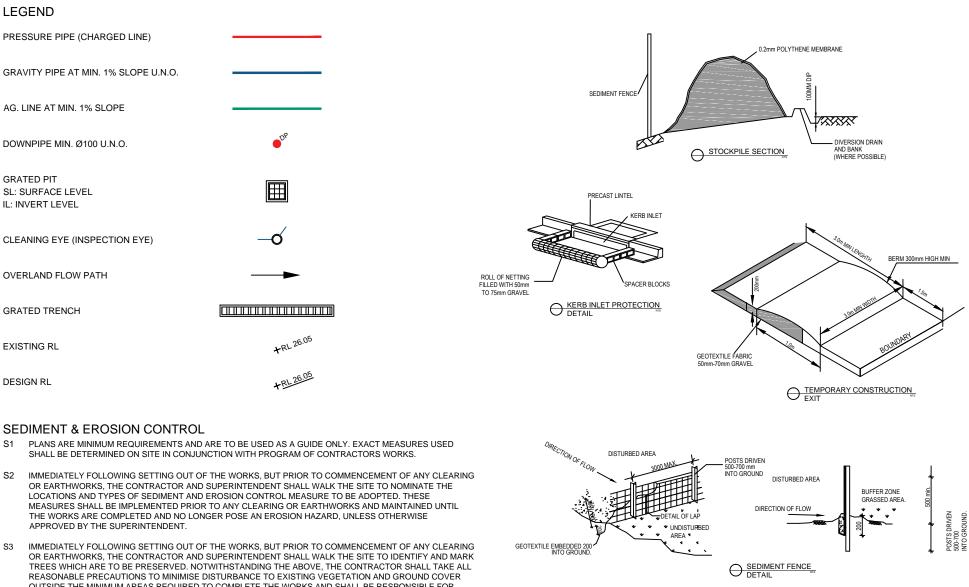
PROPOSED SECONDARY DWELLING AT 59 MCINTOSH RD, DEE WHY NSW 2099

GENERAL NOTES

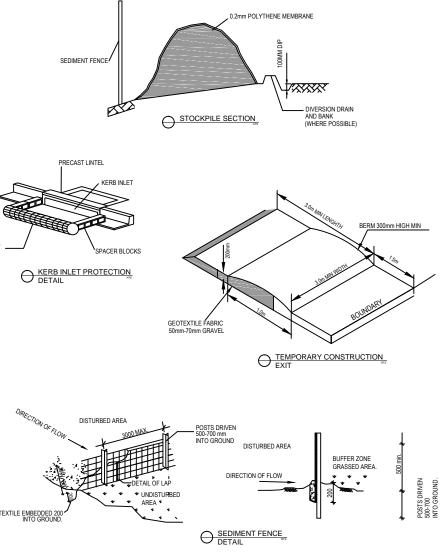
- ALL WORKS SHALL BE IN ACCORDANCE WITH B.C.A AND AS3500.3.
- G2 ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERS DRAWINGS CORRESPOND TO THE G3 ARCHITECTURAL, STRUCTURAL, AND LANDSCAPING DRAWINGS. IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE DRAWINGS, THE BUILDER SHALL REPORT THE DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORKS.
- G4 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 G5
- ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK. THIS IS TYPICALLY METRES TO AUSTRALIAN G6 HEIGHT DATUM (AHD).
- ALL DOWNPIPES TO BE 100MM DIAMETER UNLESS NOTED OTHERWISE G7
- ALL DOWN PIPES TO HAVE LEAF GUARDS. G8
- ALL LINES ARE TO BE 100MM DIAMETER uPVC AT A MINIMUM 1.0% SLOPE UNLESS NOTED OTHERWISE. LINES G9 ARE TO BE SEWER-GRADE AND SEALED
- G10 ALL PIPES TO HAVE MINIMUM 150MM COVER IF LOCATED WITHIN PROPERTY.
- G11 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 ISSUED BY COUNCIL

RAINWATER TANKS

- R1 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
- R3 A 'FIRST FLUSH' DIVERSION TO REMOVE ROOF CONTAMINANTS MUST BE PROVIDED
- R4 TANKS TO BE PUMPED TO TOP-UP FROM THE POTABLE WATER SUPPLY DURING DRY PERIOD WHEN THE TANK IS 80% EMPTY.
- R5 PUMP TO BE SUITABLY SOUNDPROOFED
- R6 A SIGN IS TO BE INSTALLED NEAR THE RAINWATER TANK HIGHLIGHTING "NOT FOR HUMAN CONSUMPTION"



- S2
- S3 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. S4
- PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT. S5
- ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE. S6
- S7 ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION
- S8 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. S9
- S10 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 S12 THE SUPERINTENDENT



SEDIMENT FENCE

- ATTACHMENT BELTS.
- F2 FOI DED
- F3
- F4
- F5

	NOTE			
	NOIL			
	DO NOT SCALE OF DRAWINGS. REFER TO			
	ARCHITECTURAL PLANS FOR LEVELS,			
	STEPS, DIMENSIONS AND SETOUT, VERIFY			
	DIMENSIONS ON SITE. THE ENGINEER	в	12.12.2019	LEVEL SPREADER RELOCATED
	SHALL BE NOTIFIED OF ANY VARIATIONS TO THAT SHOWN ON STRUCTURAL PLANS BEFORE COMMENCEMENT OF WORKS	А	10.12.2019	ISSUED FOR DA
		REV	DATE	DESCRIPTION

S11

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F1

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

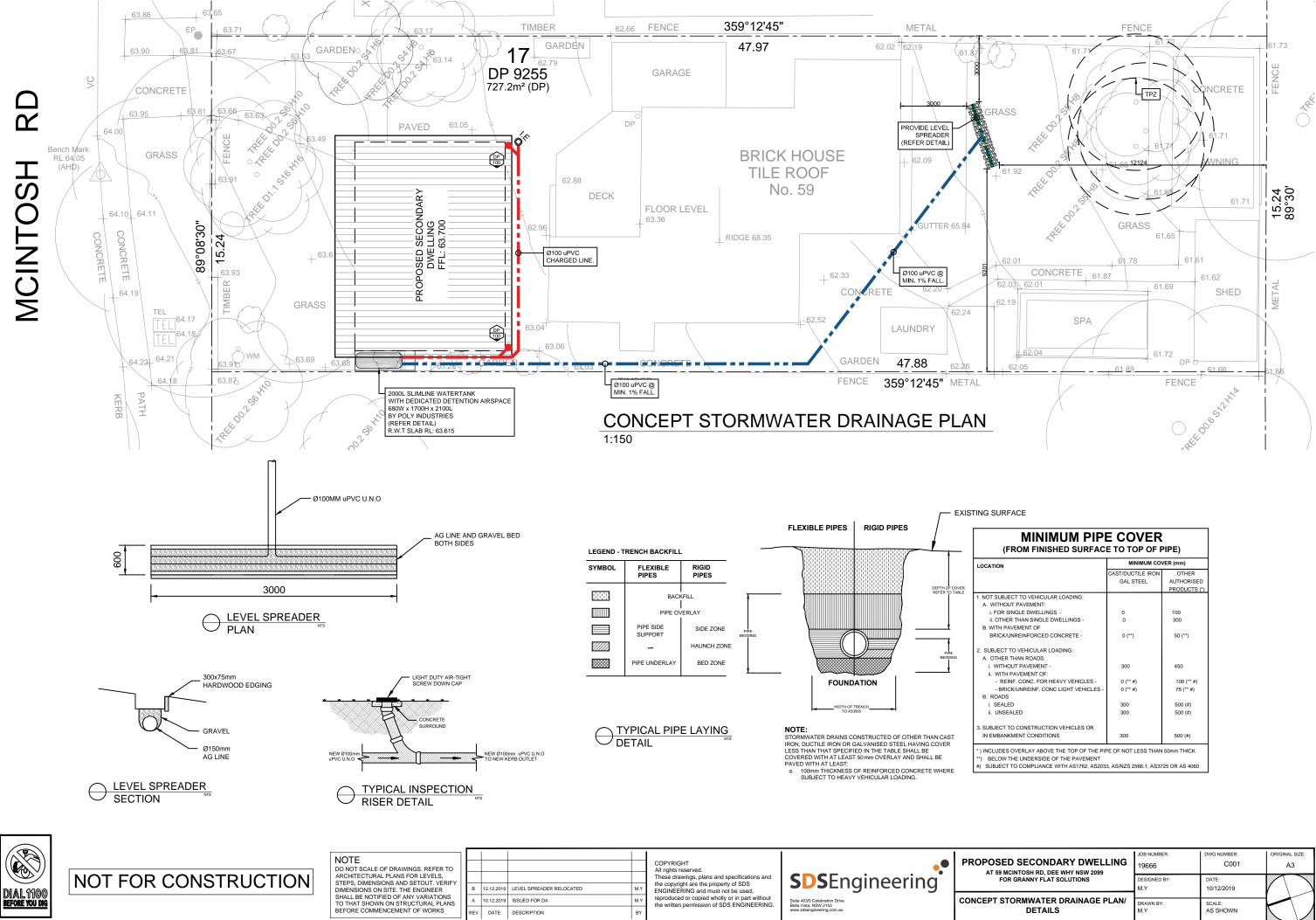
POSTS SHALL NOT BE SPACED MORE THAN 3.0 METRES APART

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

	JOB NUMBER: 19666	DWG NUMBER: C000	ORIGINAL SIZE: A3	
OR GRANNY FLAT SOLUTIONS	DESIGNED BY: M.Y	DATE: 10/12/2019	$\langle \rangle$	
GENERAL NOTES	DRAWN BY: M.Y	SCALE: AS SHOWN		

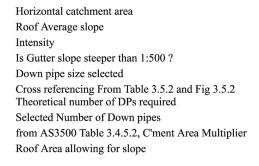


MINIMUM PIPE COVER FROM FINISHED SURFACE TO TOP OF PIPE)							
	MINIMUM COVER (mm)						
	CAST/DUCTILE IRON	OTHER					
	GAL STEEL	AUTHORISED					
		PRODUCTS (*)					
ECT TO VEHICULAR LOADING: UT PAVEMENT:							
SINGLE DWELLINGS -	0	100					
R THAN SINGLE DWELLINGS -	0	300					
AVEMENT OF							
UNREINFORCED CONCRETE -	0 (**)	50 (**)					
TO VEHICULAR LOADING:							
THAN ROADS:							
OUT PAVEMENT -	300	450					
PAVEMENT OF:							
INF. CONC. FOR HEAVY VEHICLES -	0 (** #)	100 (** #)					
CK/UNREINF. CONC LIGHT VEHICLES -	0 (** #)	75 (** #)					
ED	300	500 (#)					
ALED	300	500 (#)					
TO CONSTRUCTION VEHICLES OR							
KMENT CONDITIONS	300	500 (#)					
OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK THE UNDERSIDE OF THE PAVEMENT TO COMPLIANCE WITH AS1762, AS2033, AS/NZS 2566.1, AS3725 OR AS 4060							

D SECONDARY DWELLING	JOB NUMBER: DWG NUMBER: 19666 C001		ORIGINAL SIZE: A3	
R GRANNY FLAT SOLUTIONS	DESIGNED BY: M.Y	DATE: 10/12/2019	$\langle \rangle$	
TORMWATER DRAINAGE PLAN/ DETAILS	DRAWN BY: M.Y	SCALE: AS SHOWN		

SDS Engineering

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



Catchment Area per DP

Flow/DP

27

from AS/NZS 3500 fig 3.5.2(B), Gutter Area Gutter Area rounded to nearest 100sq.mm From AS/NZS 3500 Table 3.5.2,, Down Pipe size Down Pipe size selected

Summary

This catchment requires :- number of DPs Downpipe size minimum eaves gutter cross sectional Area

Notes:

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 vol2).

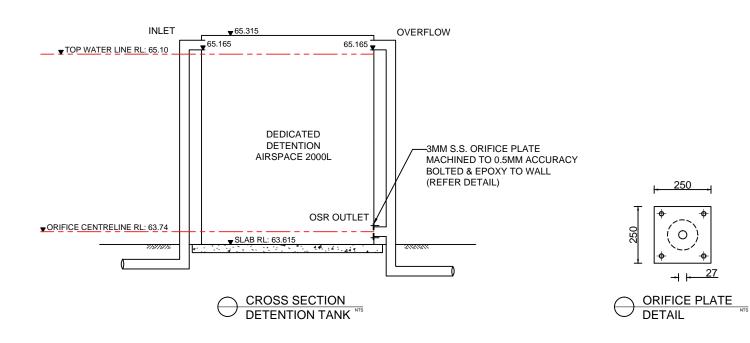
POSSIBLE OPTIONS

	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				COPYRIGHT All rights reserved.	••		JOB NUMBER: 19666	DWG NUMBER: C002	ORIGINAL SIZE
DIMENSIONS ON SITE. THE ENGINEER	B 12.12.2019	LEVEL SPREADER RELOCATED	M.Y	These drawings, plans and specifications and the copyright are the property of SDS ENGINEERING and must not be used,	SDS Engineering		DESIGNED BY: M.Y	DATE: 10/12/2019	\square
SHALL BE NOTIFIED OF ANY VARIATIONS TO THAT SHOWN ON STRUCTURAL PLANS BEFORE COMMENCEMENT OF WORKS		ESSUED FOR DA DESCRIPTION	M.Y BY	reproduced or copied wholly or in part without the written permission of SDS ENGINEERING.	Suite 403/5 Celebration Drive Bella Vista, NSW 2153 www.sdsengineering.com.au	STORMWATER DRAINAGE DETAILS	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		

19666 18/11/2019

Proposed secondary dwelling

Ah	=	81	sq.m
S	=	6	degrees
Ι	=	200	mm/hr
		Yes	
dia	=	100	mm
Tnum	=	1.97	
n	=	2	
f	=	1.05	
Ac	=	Ah*f	
	=	85.1	sq.m
Α	=	Ac/n	sq.m
	=	42.5	sq.m
q	=	I*A/3600	litres/sec
	=	2.36	litres/sec
	=	8101	sq.mm
	=	8100	sq.mm
	=	100	mm
	=	100	mm
	=	2	
	=	100	mm
	=	8101	sq.mm
			- 1