PROPOSED SECONDARY DWELLING AT 3 PATRICK ST, AVALON BEACH NSW 2107

GENERAL NOTES

- G1 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.
- G3 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.
- 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.
- G5 THE DRAINAGE CONTRACTOR IS TO LOCATE AND RELOCATE AS NECESSARY ALL SERVICES ON SITE.
- G6 ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK. THIS IS TYPICALLY METRES TO AUSTRALIAN HEIGHT DATUM (AHD).
- G7 ALL DOWNPIPES TO BE 100MM DIAMETER UNLESS NOTED OTHERWISE.
- G8 ALL DOWN PIPES TO HAVE LEAF GUARDS.
- G9 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.
- 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"

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

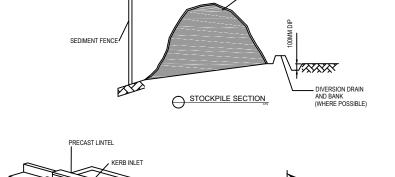
GRATED TRENCH

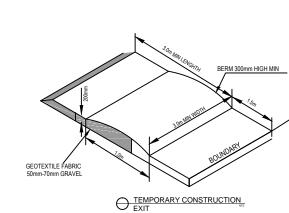
EXISTING RL

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TRUE OF THE MIN. 1% SLOPE U.N.O.

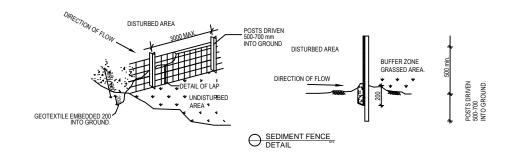
AG. LINE AT MIN. 1%





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.
- S2 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.
- S4 PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
- S5 PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT.
- S6 ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
- S7 ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
- 8 WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM.
- S9 NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
- S10 APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGHOUT CONSTRUCTION.
- S11 IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
- 512 TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON SITE BY THE SUPERINTENDENT.



SEDIMENT FENCE

KERB INLET PROTECTION
DETAIL

- F1 FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES, STAPLES OR ATTACHMENT BELTS.
- F2 WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150MM AND FOLDED.
- F3 POSTS SHALL NOT BE SPACED MORE THAN 3.0 METRES APART.
- F4 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
- F5 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 TO THAT SHOWN ON STRUCTURAL PLANS BEFORE COMMENCEMENT OF WORKS

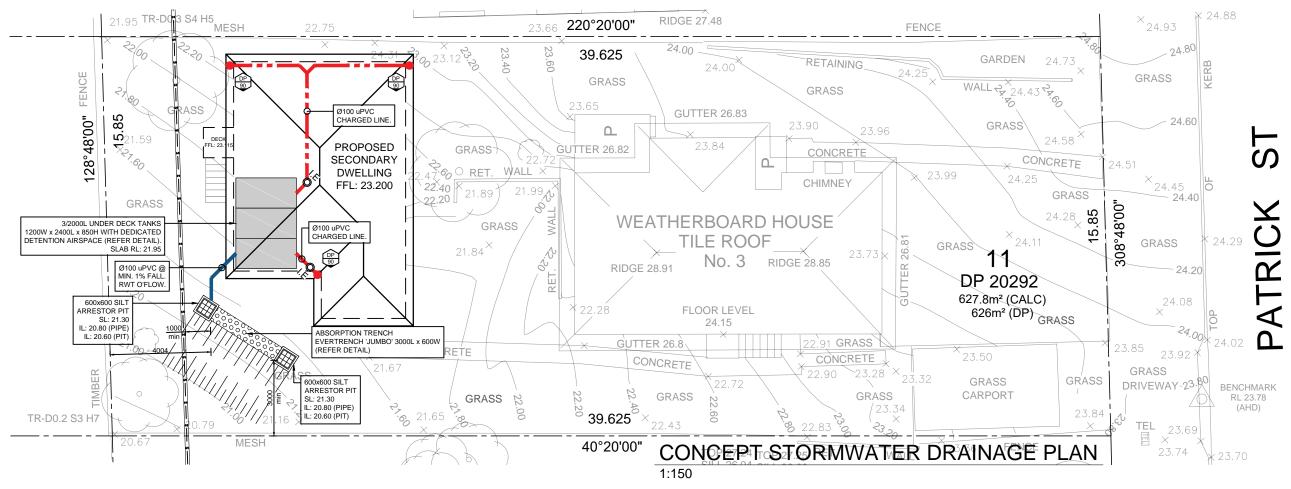
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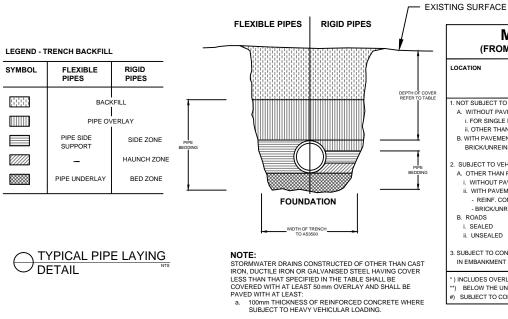
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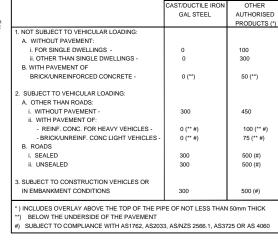
)	PROPOSED SECONDARY DWELLING AT 3 PATRICK ST, AVALON BEACH NSW 2107 FOR GRANNY FLAT SOLUTIONS	JOB NUMBER: DWG NUMBER: 19372 C000	
L		DESIGNED BY: M.Y	DATE: 16.01.2020
	GENERAL NOTES	DRAWN BY:	SCALE:

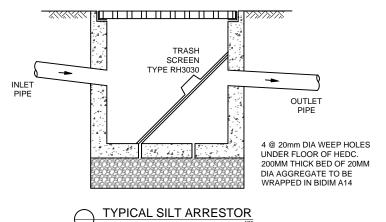


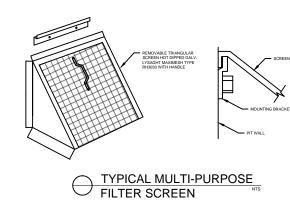




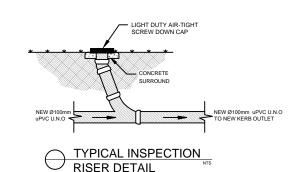
MINIMUM PIPE COVER (FROM FINISHED SURFACE TO TOP OF PIPE) MINIMUM COVER (mm LOCATION T/DUCTILE IRO GAL STEEL AUTHORISED PRODUCTS (* A. WITHOUT PAVEMENT: i FOR SINGLE DWELLINGS ii. OTHER THAN SINGLE DWELLINGS B. WITH PAVEMENT OF BRICK/UNREINFORCED CONCRETE 0 (**) 50 (**) SUBJECT TO VEHICULAR LOADING A. OTHER THAN ROADS: i. WITHOUT PAVEMENT 300 ii. WITH PAVEMENT OF: - REINF, CONC. FOR HEAVY VEHICLES -0 (** #) 0 (** #) - BRICK/UNREINF. CONC LIGHT VEHICLES 75 (** #) B. ROADS ii. UNSEALED 300 500 (#) IN EMBANKMENT CONDITIONS











NOT FOR CONSTRUCTION

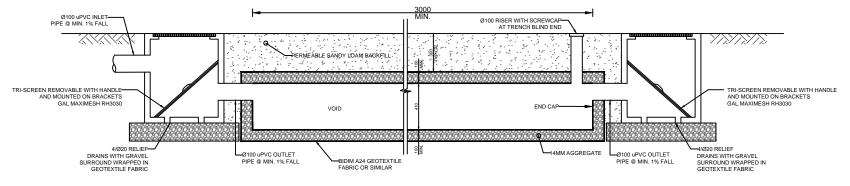
NOTE
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ARCHITECTURAL PLANS FOR LEVELS,
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TO THAT SHOWN ON STRUCTURAL PLANS
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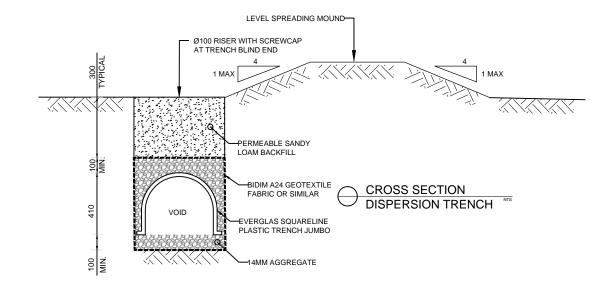
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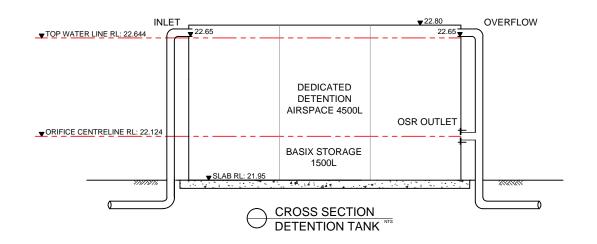
SDS Engineering
Suite 403/5 Celebration Drive Bella Vista, NSW 2153 www.sdsengineering.com.au

DDODOSED SECONDARY DWELLING	JOB NUMBER:	DWG NUMBER:
AT 3 PATRICK ST, AVALON BEACH NSW 2107 FOR GRANNY FLAT SOLUTIONS	19372	C001
	DESIGNED BY: M.Y	DATE: 16.01.2020
STORMWATER DRAINAGE PLAN/ DETAILS	DRAWN BY:	SCALE:

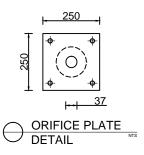


LONG SECTION DISPERSION TRENCH





OSD DATA				
VOLUME REQUIRED	4.5m ³			
VOLUME PROVIDED	4.5m ³			
P.S.D	2L/S			
DEPTH OF TANK ABOVE ORIFICE CL:	0.52m			
ORIFICE DIAMETER: (TABLE 1 - P21 DCP APPENDIC 11)	37mm			



NOTE	
DO NOT SCALE	OF DRAWINGS. REFER TO
ARCHITECTURA	AL PLANS FOR LEVELS,
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PROPOSED SECONDARY DWELLING AT 3 PATRICK ST, AVALON BEACH NSW 2107 FOR GRANNY FLAT SOLUTIONS

STORMWATER DRAINAGE DETAILS

G	JOB NUMBER: 19372	DWG NUMBER: C002	ORIGINAL SIZE	
	DESIGNED BY: M.Y	DATE: 16.01.2020		
	DRAWN BY: M.Y	SCALE: AS SHOWN		

19372 SDS Engineering 16.01.2020

EAVES GUTTER AND DOWN PIPE DESIGN TO AS/NZS 3500.3: 2018 3 Patrick St, Avalon Beach NSW 2107 Proposed secondary dwelling

Ah	= 74 sq.m	
S	= 15 degre	es
I	= 206 mm/h	ır
	Yes	
dia	= 90 mm	
Tnum	= 2.63	
n	= 3	
f	= 1.13	
Ac	= Ah*f	
	= 83.6 sq.m	
A	= Ac/n sq.m	
	= 27.9 sq.m	
q	= I*A/3600 litres/	sec
	= 1.59 litres/	sec
	= 5950 sq.mr	n
	= 6000 sq.mr	n
	= 90 mm	
	= 90 mm	
	= 3	
	= 90 mm	
	= 5950 sq.mr	n
	S I dia Tnum n f Ac	S = 15 degre I = 206 mm/h Yes dia = 90 mm Tnum = 2.63 n = 3 f = 1.13 Ac = Ah*f = 83.6 sq.m A = Ac/n sq.m = 27.9 sq.m q = I*A/3600 litres/ = 1.59 litres/ = 5950 sq.mr = 90 mm = 90 mm = 90 mm = 90 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 vol2).

POSSIBLE OPTIONS

TODDINE OF TROTTO						
	Number Req'd	Number Used	Gutter Area	Gutter Width	Gutter Depth	
90 Dia:	2.63	3	5950	110	55	
100 Dia:	2	2	8188	130	65	
150 Dia:	0.74	1	14391	170	85	
225 Dia:	0.27	1	14391	170	85	
300 Dia:	0.13	1	14391	170	85	

DOWNPIPE CAPACITY In terms of Plan area of roof.

DOWNINE CALACITY IN terms of Francisco of 1001.					
	90 Dia	100 Dia	150 Dia	225 Dia	300 Dia
Max Catchment Area (sq.m)	28	37	100	313	640
Gutter Area (sq.mm)	6600	8200	18400	42310	76563