PROPOSED SINGLE DWELLING AT LOT 20 RAVEN CIRCUIT, WARRIEWOOD NSW 2102

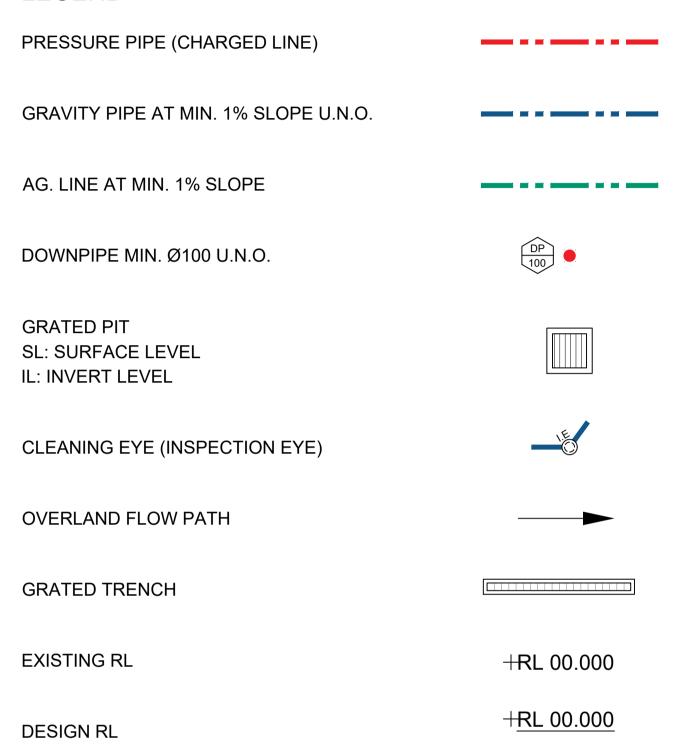
GENERAL NOTES

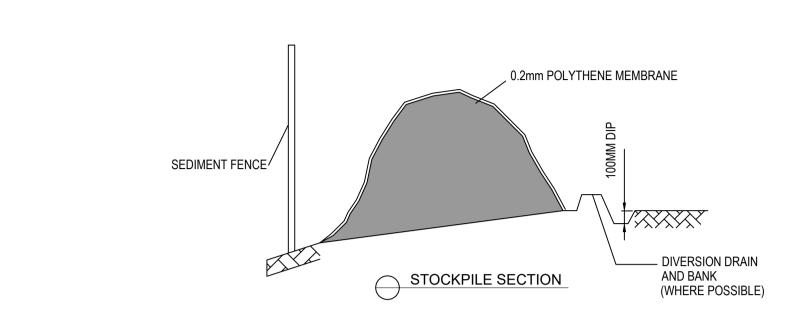
- G1 ALL WORKS SHALL BE IN ACCORDANCE WITH B.C.A AND AS3500.3.
- G2 ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERS DRAWINGS CORRESPOND TO THE ARCHITECTURAL, STRUCTURAL, AND LANDSCAPING DRAWINGS. IF THERE EXISTS ANY DISCREPANCIES 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.
- 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.

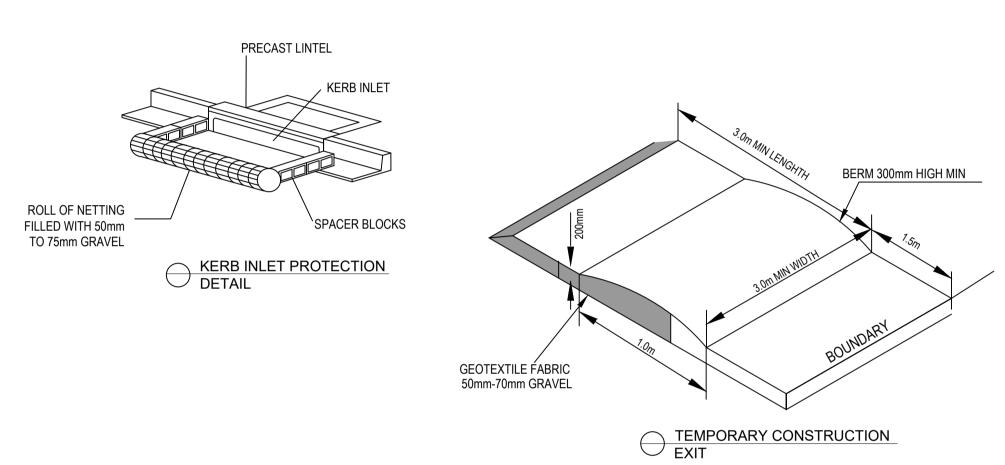
RAINWATER TANKS

- 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

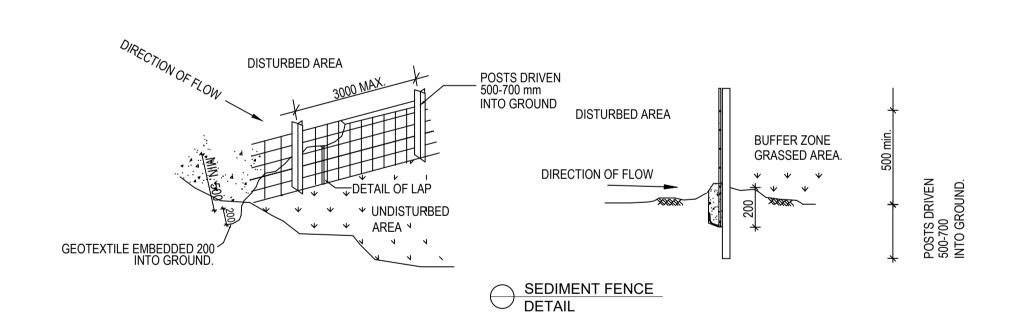






SEDIMENT & EROSION CONTROL

- 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.
- 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.
- S8 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.
- S12 TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON SITE BY THE SUPERINTENDENT.



SEDIMENT FENCE

- 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
- 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 OFF 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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[*]					
s		Α	22.01.2025	ISSUED FOR DA	J.L
		REV	DATE	DESCRIPTION	BY
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SDSEngineering
Unit 50 Level 1 / 11-21 Underwood Road, Homebush NSW 2140

www.sdsengineering.com.au

PROPOSED
SINGLE DWELLING
AT: LOT 20 RAVEN CIRCUIT, WARRIEWOOD NSW 2102
FOR: NEEV HOMES

COVER SHEET

JOB NUMBER:
250018

COVER SHEET

DWG NUMBER:
COVER SHEER:

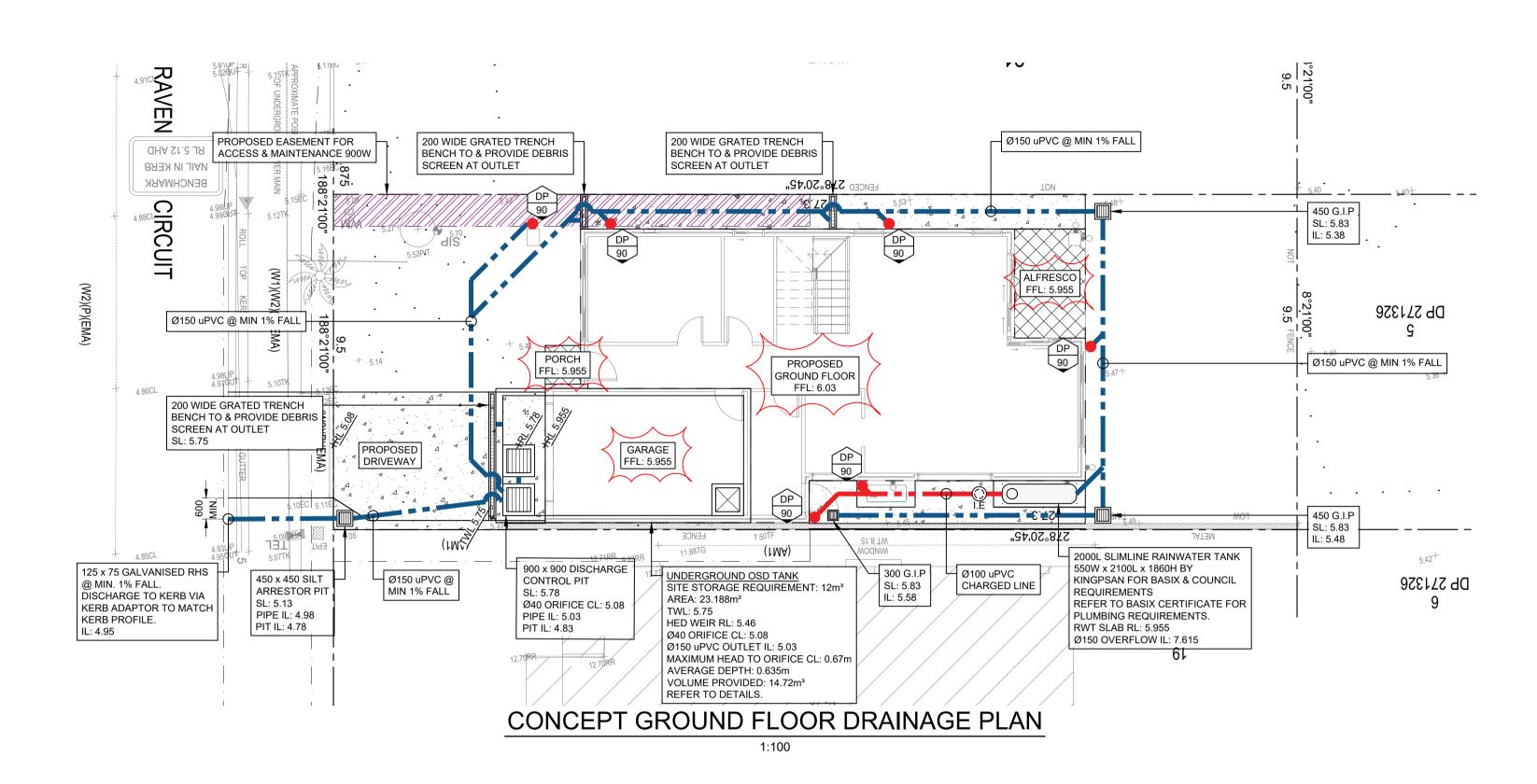
DESIGNED BY:
J.L

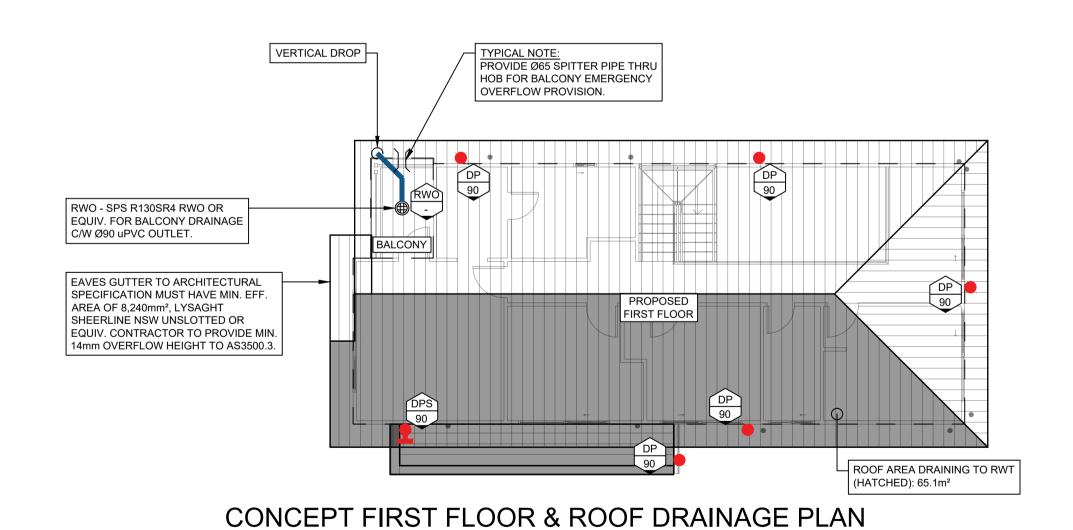
DRAWN BY:
J.L

SCALE:
AS SHOWN

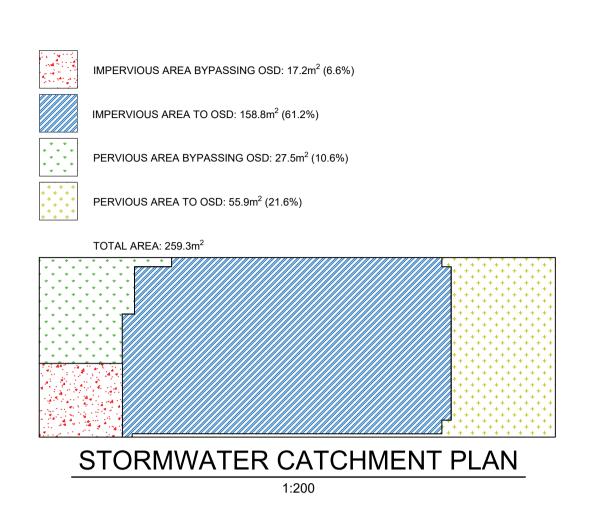
ORIGINAL SIZE:







NORTHERN BEACHES COUNCIL - REGION 1 **ON-SITE DETENTION (OSD) WARRANT** SITE AREA: 259.3m² PROPOSED INCREASE IN IMPERVIOUS AREA: 176.0m² OSD TANK REQUIREMENTS FROM TABLE 7 SSR: 12,000L PSD: 6L/s REFER TO ON-SITE DETENTION CALCULATION FOR DISCHARGE CONTROL AND STORAGE CALCULATIONS



ON-SITE DETENTION CALCULATION:

PROPOSED SITE AREA = 259.3m²

PRE-DEVELOPMENT CONDITIONS:

ASSUMED PERVIOUS AREA = 259.3m² (100%)

POST-DEVELOPMENT CONDITIONS:

IMPERVIOUS AREA BYPASSING OSD = 17.2m² (6.6%) IMPERVIOUS AREA TO OSD = 158.8m² (61.2%) PERVIOUS AREA BYPASSING OSD = 27.5m² (10.6%) PERVIOUS AREA TO OSD = 55.9m² (21.6%)

VOLUME CALCULATED USING DRAINS SOFTWARE: LIMIT POST-DEVELOPMENT PEAK TO 6L/s FOR ALL STORM EVENTS UP TO THE 1% AEP AS PER COUNCIL REQUIREMENTS.

OUTPUTS ORIFICE DIAMETER = 40mm OSD VOLUME REQUIRED = 12m³ OSD VOLUME PROVIDED = 14.72m³

	PRE DEVELOPMENT	POST DEVELOPMENT
STORM EVENT	TOTAL FLOW L/S	TOTAL FLOW L/S
20% AEP	7	3
5% AEP	11	4
1% AEP	15	5

CONCEPT ONLY NOT FOR CONSTRUCTION

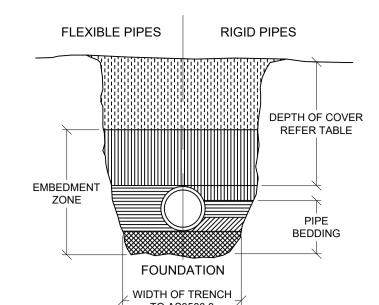
NOTE	
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STEPS, DIMENSIONS AND SETOUT. VERIFY	
DIMENSIONS ON SITE. THE ENGINEER	
SHALL BE NOTIFIED OF ANY VARIATIONS	
TO THAT SHOWN ON STRUCTURAL PLANS	
BEFORE COMMENCEMENT OF WORKS	

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PROPOSED	
SINGLE DWELLING	
AT: LOT 20 RAVEN CIRCUIT, WARRIEWOOD NSW 2102 FOR: NEEV HOMES	

PROPOSED	JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
SINGLE DWELLING	250018	C001	A1
AT: LOT 20 RAVEN CIRCUIT, WARRIEWOOD NSW 2102 FOR: NEEV HOMES	DESIGNED BY: J.L	DATE: 22/01/2025	
CONCEPT STORMWATER DRAINAGE PLAN / NOTES	DRAWN BY: J.L	SCALE: AS SHOWN	



	//	TO AS3500.3	/
EGEND: TR	ENCH BACKF	TLL	NOTE:
SYMBOL	FLEXIBLE PIPES	RIGID PIPES	STORMWATER DRAINS CONSTRUCTED OF OTHER THAN CAST IRON, DUCTILE
HHHH	BAC	(FILL	IRON OR GALVANISED STEE HAVING COVER LESS THAN THAT SPECIFIED IN THE TAE
	OVE	RLAY	SHALL BE COVERED WITH A LEAST 50mm OVERLAY AND
	SIDE SU	IPPORT	SHALL BE PAVED WITH AT LEAST 100mm THICKNESS O
	_	HAUNCH	UNREINFORCED CONCRETE OR REINFORCED CONCRET
	UNDERLAY	BEDDING	WHERE SUBJECT TO HEAVY VEHICULAR LOADING.

REFER TO

MANUFACTURER'S

GRATE INSTALLATION.

INFORMATION FOR

WEEP HOLES FOR

SCREED DRAINAGE

WATERPROOF MEMBRANE.

PUDDLE FLANGE.

DRESS INTO

CONNECTION

PUSH-IN

CHARGED DOWNPIPES TO

BE SOLVENT WELD SEALED

RE-USE SYSTEM CONTROL BOX

APPROVED MAINS WATER DIVERTER.

INSPECTION OPENING CAP SECURED WITH CONCRETE SURROUND TO

MAKE PROVISION FOR THE TREATMENT OF SLOW RELEASE WATER DISCHARGE

FROM DIVERTER OUTLET. DO NOT ALLOW DISCHARGE TO POND ON SOIL.

FINISHED SURFACE LEVEL ON ALL CHARGED INLETS

NUT AND TAIL TO FLOW CONTROL VALVE.

MOUNTED TO DWELLING WALL.

(WWW.RAINMASTER.COM.AU)

PROVIDE SYDNEY WATER

EXAMPLES: RAINMASTER

RAINWATER RE-USE

AS SPECIFIED BY

(BY OTHERS) T

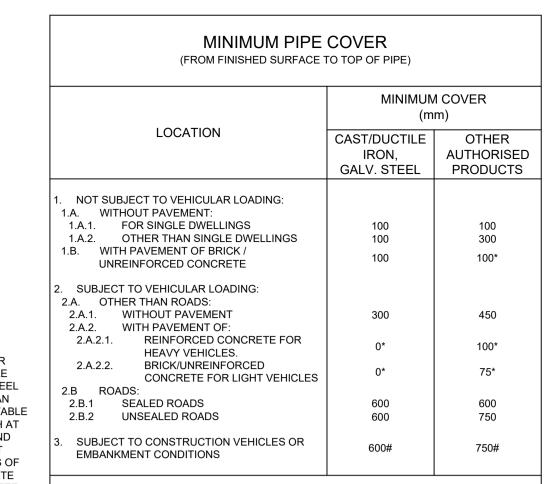
OUTDOOR TAPS

AND/OR TOILETS

MACHINE

AND/OR WASHING

BASIX CERTIFICATE



SUBJECT TO COMPLIANCE WITH AS1762, AS2033, AS/NZS 2566.1, AS3725 OR AS 4060

GUTTER GUARDS

RECOMMENDED

DEBRIS BASKET

(REFER PLAN)

OVERFLOW PIPE

CHARGED INLET/S

(INVERT = TOP TANK)

SUBMERSIBLE PUMP

(FINE SCREEN - MOSQUITO PROOF)

ABOVE-GROUND RAINWATER TANK

PROPRIETARY FIRST FLUSH SYSTEM

SYSTEM MAY BE INSTALLED

DIVERTER CHAMBER

PLASTIC FILTER SCREEN

INSTALLED TO MANUFACTURERS SPECS.

ALTERNATE APPROVED FIRST FLUSHING

BELOW THE UNDERSIDE OF PAVEMENT

GRADE TOPPING SLAB,

TO FLOOR WASTE

TILE FINISH OR MEMBRANE

ROOF AT MINIMUM 1% FALL

STRUCTURAL SLAB

RAINWATER

TANK AS PER

BASIX

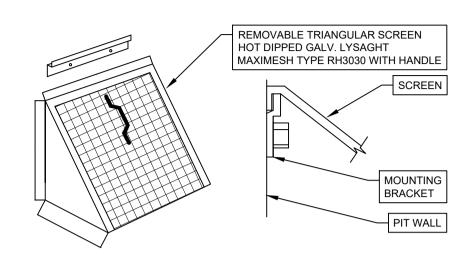
CEILING VOID

TYPICAL PIPE LAYING DETAIL

TYPICAL FLOOR WASTE DETAIL

TYPICAL ABOVE-GROUND RAINWATER RE-USE TANK DETAIL

REMOVABLE ACCESS GRATE OR LID NOTE: IF DENOTED "SURCHARGE PIT" ON PLAN, GRATE IS TO BE FINISHED MIN. 75mm ABOVE FSL. FINISHED SURFACE LEVEL (FSL) PERPENDICULAR TO MESH SCREEN TO PROMOTE SELF CLEANING. INSTALL MIN. 50mm ABOVE OUTLET PIPE IL. OUTLET PIPE IL TO BE INSTALLED MIN. 200mm ABOVE SUMP. HOT DIPPED GALVANISED REMOVABLE TRIANGULAR MESH SCREEN. MAXI-MESH RH3030 OR EQUIVALENT 2/Ø90 WEEP HOLES THRU BASE OF 200mm DEEP SUMP. OVERLAY PIT BASE WITH MINIMUM 2 LAYERS OF REMOVABLE PERMEABLE GEOTEXTILE FABRIC. SUMP TO CONSIST OF A 200mm THICK BED OF 10mm AG. WRAPPED IN GEOTEXTILE FABRIC. ALL GEOTEXTILE FABRIC TO BE BIDIM A14 OR EQUIVALENT.



<u>LOCATION</u>
INSPECTION EYES SHALL BE LOCATED AT: EACH POINT OF CONNECTION. **EVEN SPACINGS OF NOT MORE THAN 30m** EACH END OF ANY INCLINED JUMP UP THAT EXCEEDS 6m IN LENGTH. EACH CONNECTION TO AN EXISTING SITE STORMWATER DRAIN. AT ANY CHANGE OF DIRECTION GREATER THAN 45°. FOR SIZES LESS THAN DN150, THE RISER SHALL BE THE SAME SIZE AS THE OTHERWISE NOT LESS THAN DN150 NOTE: AN INLET OR STORMWATER PIT MAY BE USED IN LIEU OF AN INSPECTION EYE.

SEAL INSPECTION

AIRTIGHT REMOVABLE

CAP FITTED WITH AN

ELASTOMETRIC SEAL

LEGIBLY MARK TOP OF

OPENING WITH

CAP "SW".

SECURE INSPECTION

OPENING IN POSITION,

FLUSH WITH FINISHED

SURFACE LEVEL, WITH

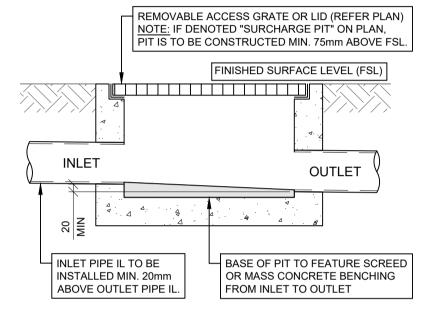
CONCRETE SURROUNDS.

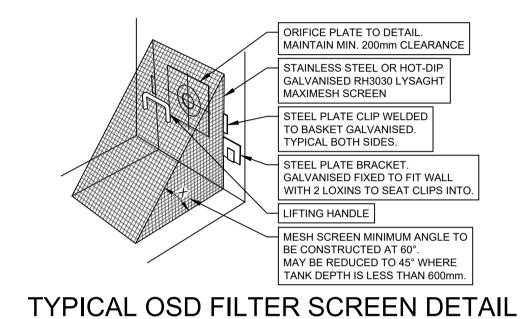
350 x 350 x 150 mm

TYPICAL SILT ARRESTOR PIT DETAIL

MULTI-PURPOSE FILTER SCREEN

TYPICAL INSPECTION EYE DETAIL





NON-POTABLE WARNING SIGN

THE ON-SITE STORMWATER DETENTION SYSTEM

SHALL BE INDICATED ON THE SITE BY FIXING A

MARKER PLATE IN A PROMINENT POSITION. THIS

EVERY EXTERNAL SUPPLY OUTLET FROM

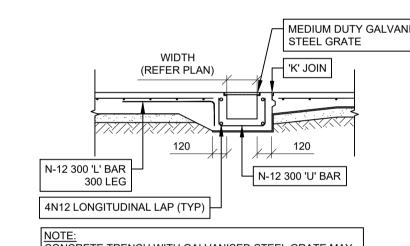
WITH METALLIC WARNING SIGN

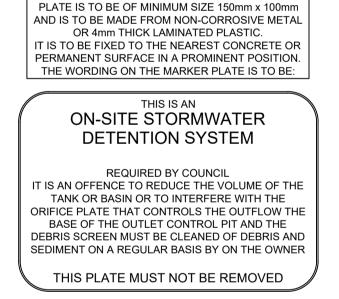
RAINWATER RE-USE TANK TO BE LABELED

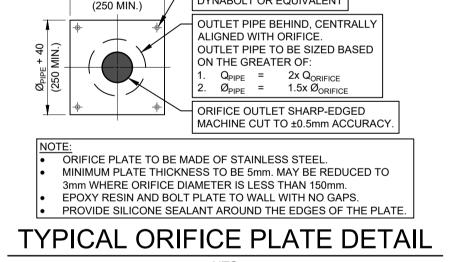
WARNING

NOT FOR DRINKING



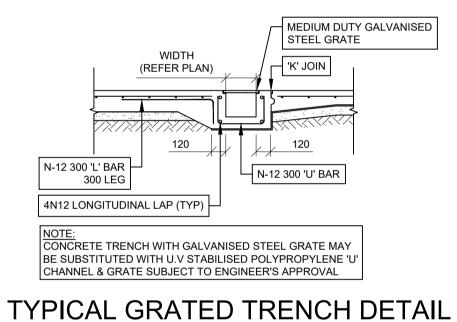






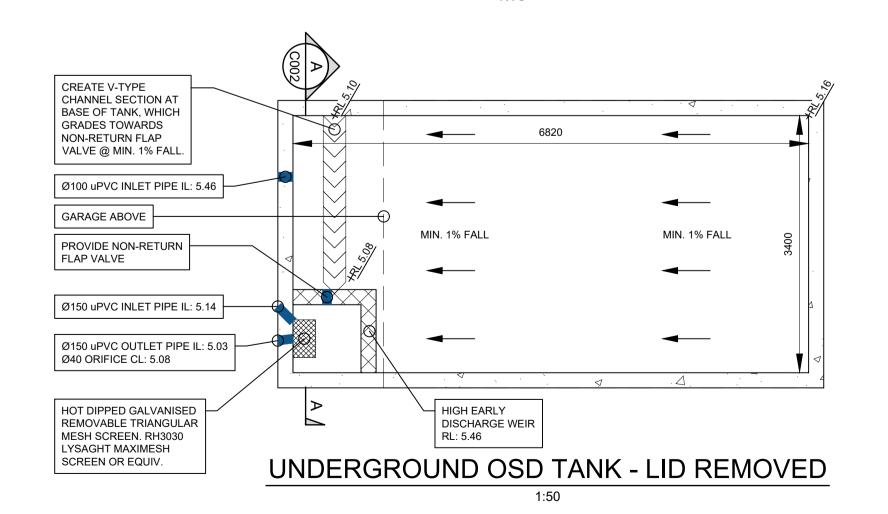
M10 GALVANISED STEEL

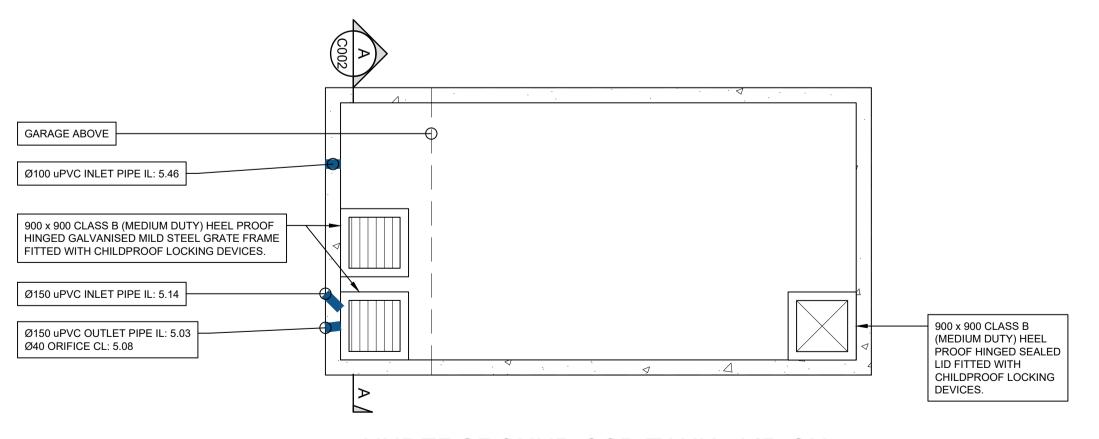
YNABOLT OR EQUIVALENT

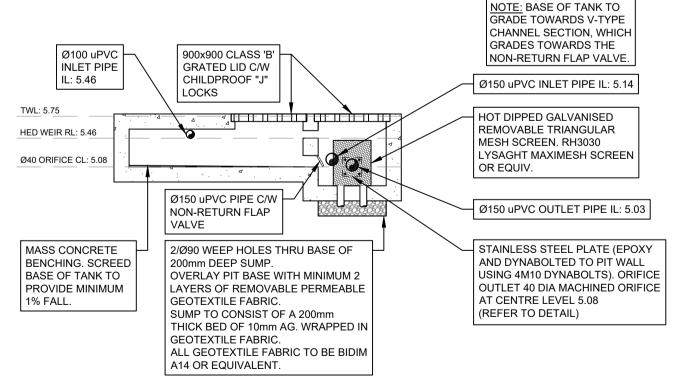


TYPICAL OSD SIGN









UNDERGROUND OSD TANK - LID ON

UNDERGORUND OSD TANK SECTION

CONCEPT ONLY NOT FOR CONSTRUCTION

NOTE	
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ARCHITECTURAL PLANS FOR LEVELS,	l
STEPS, DIMENSIONS AND SETOUT. VERIFY	l
DIMENSIONS ON SITE. THE ENGINEER	l
SHALL BE NOTIFIED OF ANY VARIATIONS	l
TO THAT SHOWN ON STRUCTURAL PLANS	l
BEFORE COMMENCEMENT OF WORKS	ı

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REV	DATE	DESCRIPTION	BY	



PROPOSED	JOB NUMBER:	DWG NUMBER:	ORIGINAL SIZE:
SINGLE DWELLING	250018	C002	A1
T: LOT 20 RAVEN CIRCUIT, WARRIEWOOD NSW 2102 FOR: NEEV HOMES	DESIGNED BY: J.L	DATE: 22/01/2025	
CONCEPT STORMWATER DRAINAGE OSD SECTIONS / DETAILS	DRAWN BY: J.L	SCALE: AS SHOWN	
OOD OLOTIONO / DETAILO			