

# **EXACT ENGINEERS**

# PROPOSED SECONDARY DWELLING

65 DEFOE STREET, WILEY PARK

DRAWING INDEX - STORMWATER						
Sheet Number Revision Date Sheet Title						
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PROJECT		REV	ISSUE / REVISION DESCRIPTION	DATE	TITLE	NAME
	PROPOSED SECONDARY DWELLING	А	ISSUE FOR APPROVAL	08/05/25	DDAMAI	E.N
65 DEFOE STREET, WILEY PARK	65 DEFOE STREET, WILEY PARK	-	-	-	DRAWN	
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TITLE		-	-	-	CHECKED	Z.C
	COVER SHEET	-	-	-	SCALE @ A3	N/A
		-	-	-	JOB No.	SHEET No.
CLIENT	BRICKWOOD HOMES	-	-	-	JB938	S-0.0
	DVICKANOOD HOIME?	-	-	-	10536	3-0.0

#### **GENERAL NOTES:**

- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH B.C.A AND AS3500.3.
- 2. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- 3. 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.
- 4. 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.
- 5. THE DRAINAGE CONTRACTOR IS TO LOCATE AND RELOCATE AS NECESSARY ALL SERVICES ON SITE.
- 6. ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK. THIS IS TYPICALLY METRES TO AUSTRALIAN HEIGHT DATUM (AHD).
- 7. ALL DOWNPIPES TO BE 100MM DIAMETER UNLESS NOTED OTHERWISE.
- 8. ALL DOWN PIPES TO HAVE LEAF GUARDS
- 9. 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.
- 10. ALL PIPES TO HAVE MINIMUM 150MM COVER IF LOCATED WITHIN PROPERTY
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. ALL DRAINAGE WORKS ARE TO AVOID TREE ROOTS. ROOT BARRIER TO BE INSTALLED ADJACENT TO TREE ZONES WHERE DRAINAGE MAY BE AT RISK.
- 16. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- 17. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.

#### RAINWATER TANKS:

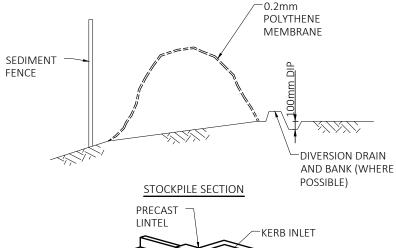
- 1. RAINWATER TANK, DRAINED ROOF AREAS AND REUSE PLUMBING TO COMPLY WITH BASIX REQUIREMENTS AND CERTIFICATE.
- ADEQUATE SCREENING TO PREVENT MOSQUITO BREEDING AND ENTRY OF ANIMAL OR FLOATING MATTER.
- 3. A 'FIRST FLUSH' DIVERSION TO REMOVE ROOF CONTAMINANTS MUST BE PROVIDED.
- 4. TANKS TO BE PUMPED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

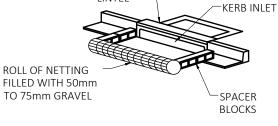
#### **SEDIMENT & EROSION CONTROL:**

- 1. 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.
- 2. 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.
- 3. 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.
- 4. PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
- 5. PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT.
- 6. ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
- 7. 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.
  - NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
  - 10. APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGHOUT CONSTRUCTION.
  - 11. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
  - 12. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON SITE BY THE SUPERINTENDENT.

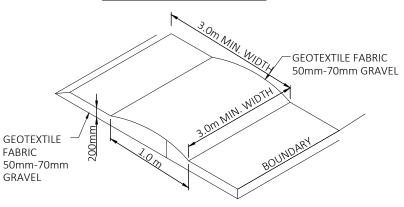
#### SEDIMENT FENCE:

- FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES,
   STAPLES OR ATTACHMENT BELTS.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150MM AND FOLDED.
- 3. 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
- ALL WORK TO BE IN ACCORDANCE WITH AS3500.3.1 AND AS3500.3.2
- NOTIFY ENGINEER OF ANY DISCREPANCIES ON SITE
- DIAL BEFORE YOU DIG. PRIOR TO COMMENCING WORK.
- SILT ARRESTOR/ GRATED INLET PITS 450X450 U.N.O
- ALL WORK IN ACCORDANCE WITH THE LOCAL GOVERNMENT ACT. COUNCILS STANDARD SPECIFICATION AND CODES AND TO THE SATISFACTION OF COUNCILS SUPERVISING OFFICER.
- THIS PLAN TO BE READ IN CONJUNCTION WITH PLANS PREPARED BY THE ARCHITECTS AND STRUCTURAL ENGINEERS PLANS.
- INSTALL TEMPORARY SEDIMENT BARRIERS AROUND ALL INLET PITS TO DETAIL UNTIL SURROUNDING AREAS ARE PAVED OR GRASSED.
- CONTRACTOR IS TO VERIFY THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF EXCAVATION FOR DRAINAGE.
- ALL PITS TO BE BENCHED TO HALF PIPE SECTION AND TO HAVE GALVANISED STEEL GRATES AND SURROUNDS.
- PIPE GRADES SHOWN ARE INDICATIVE MINIMUM.
- PIPES ARE TO BE LAID TO I.L. LEVELS INDICATED AT PITS.
- ALL STORMWATER TO CONNECT TO EXISTING STORMWATER MAIN, LOCATION TO BE CONFIRMED ONSITE

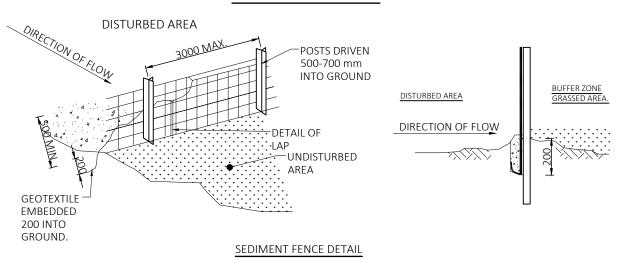




#### KERB INLET PROTECTION DETAIL



**TEMPORARY CONSTRUCTION** 

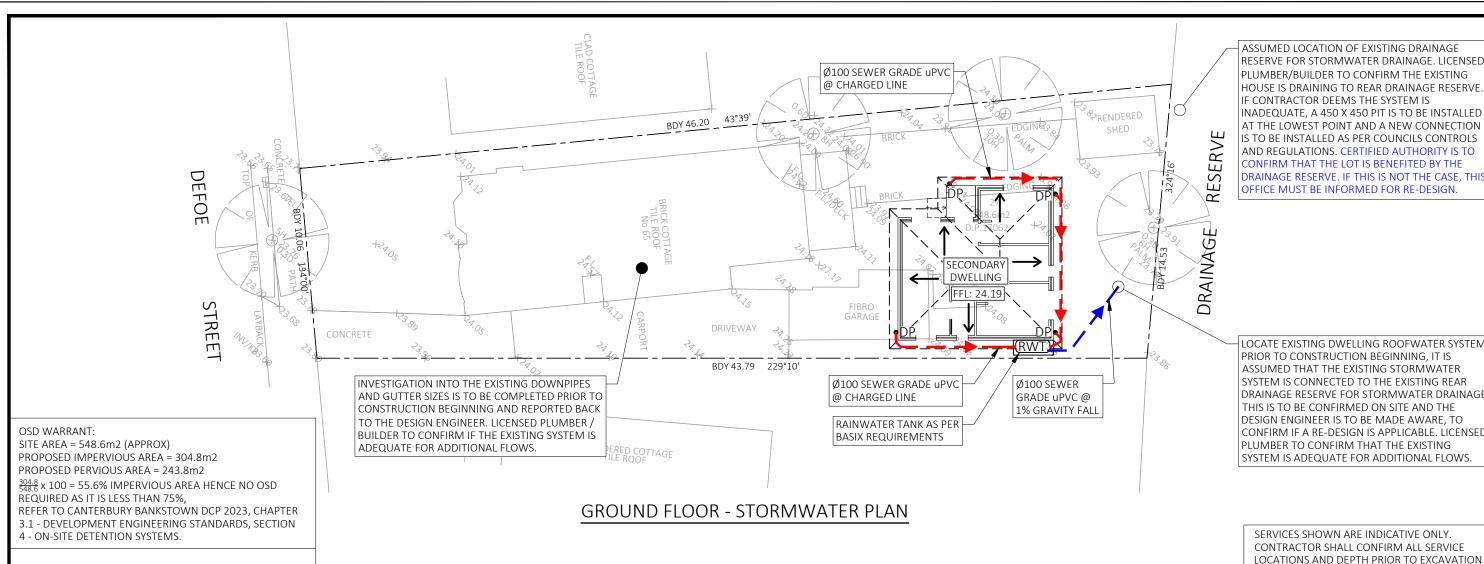




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		-	-	-	CHECKED	Z.C
TITLE		-	-	-	CHECKED	2.0
	GENERAL NOTES - SHEET 1	-	-	-	SCALE @ A3	N/A
		-	-	-	JOB No.	SHEET No.
CLIENT	BRICKWOOD HOMES	-	- -	-	JB938	S-0.1
	DNICKWOOD HOIVIES		-	-	10000	50.1



RESERVE FOR STORMWATER DRAINAGE. LICENSED PLUMBER/BUILDER TO CONFIRM THE EXISTING HOUSE IS DRAINING TO REAR DRAINAGE RESERVE. IF CONTRACTOR DEEMS THE SYSTEM IS INADEQUATE, A 450 X 450 PIT IS TO BE INSTALLED AT THE LOWEST POINT AND A NEW CONNECTION IS TO BE INSTALLED AS PER COUNCILS CONTROLS AND REGULATIONS. CERTIFIED AUTHORITY IS TO CONFIRM THAT THE LOT IS BENEFITED BY THE DRAINAGE RESERVE. IF THIS IS NOT THE CASE, THIS OFFICE MUST BE INFORMED FOR RE-DESIGN.

LOCATE EXISTING DWELLING ROOFWATER SYSTEM PRIOR TO CONSTRUCTION BEGINNING, IT IS ASSUMED THAT THE EXISTING STORMWATER SYSTEM IS CONNECTED TO THE EXISTING REAR DRAINAGE RESERVE FOR STORMWATER DRAINAGE. THIS IS TO BE CONFIRMED ON SITE AND THE DESIGN ENGINEER IS TO BE MADE AWARE, TO CONFIRM IF A RE-DESIGN IS APPLICABLE. LICENSED PLUMBER TO CONFIRM THAT THE EXISTING SYSTEM IS ADEQUATE FOR ADDITIONAL FLOWS.

SERVICES SHOWN ARE INDICATIVE ONLY. CONTRACTOR SHALL CONFIRM ALL SERVICE

ALL PIPES AND GUTTERS SIZED FOR STORM EVENTS UP TO AND INCLUDING THE 5% AEP. ALL PIPES TO BE SEWER GRADE uPVC

ALL DRAINAGE LINES BEND AND PITS ARE TO BE SEALED.

PLUMBER TO MAKE GOOD CONNECTION TO COUNCIL STORMWATER PIPE. IF ANY ISSUES CONTACT ENGINEER IMMEDIATELY.

ALL DRAINAGE LINES ARE TO BE A MINIMUM OF Ø100mm SEWER GRADE uPVC @ 1% UNLESS NOTED OTHERWISE. ALL PIPES SIZED FOR 1% AEP STORM EVENT

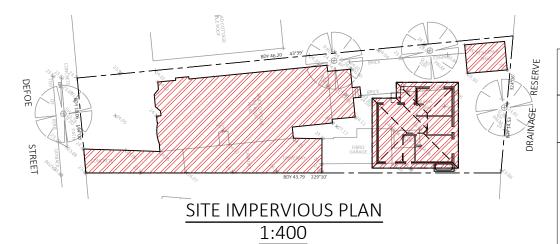
ALL PIPE WORK IS SHOWN INDICATIVELY/ DIAGRAMMATICALLY AND SHOULD NOT BE SCALED OF THE PLAN, THE DOWNPIPES ARE TO RUN ALONG THE WALL OF THE SECONDARY DWELLING

- 1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S DCP
- 2. THE CONTRACTOR IS TO LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE IF NECESSARY
- 3. ALL PIPES ARE TO BE 100mm U.P.V.C ON 1% MINIMUM GRADE U.N.O AND TO HAVE MIN 200mm COVER

### **DESIGN SUMMARY** CANTERBURY-BANKSTOWN COUNCIL SITE AREA = 548.6 (APPROX) $m^2$

TOTAL ROOF AREA =  $78.12 \text{ m}^2$  (APPROX) 1:100 ARI 5MIN. = 208 mm/hr 1:20 ARI 5MIN. = 166 mm/hr CATCHMENT PER DP = 36m<sup>2</sup>

- 1. EAVE GUTTER MINIMUM EFFECTIVE AREA 6200mm2
- ALL CHARGED LINES MUST BE OF PRESSURE GRADE AND JOINTS ARE TO BE SOLVENT WELDED
- THE PIPE SYSTEM INCLUDING DOWNPIPES MUST BE CONSTRUCTED FROM SUITABLY **DURABLE MATERIALS**
- FLUSHING POINTS/SEALED CLEANING EYES ARE TO BE PROVIDED AT LOWEST POINTS IN THE SYSTEM AND AT FRONT BOUNDARY PRIOR TO COUNCIL LAND AND SHOULD BE EASE TO ACCESS
- ALL SURFACE PIT SHALL BE CAST IN SITU OR PRECAST CONCRETE PIT





DP •

RWT

**LEGEND** 

PROPOSED STORMWATER

PROPOSED STORMWATER

SURFACE FLOW ARROWS

DRAINING TO RWT

ROOF SLOPE

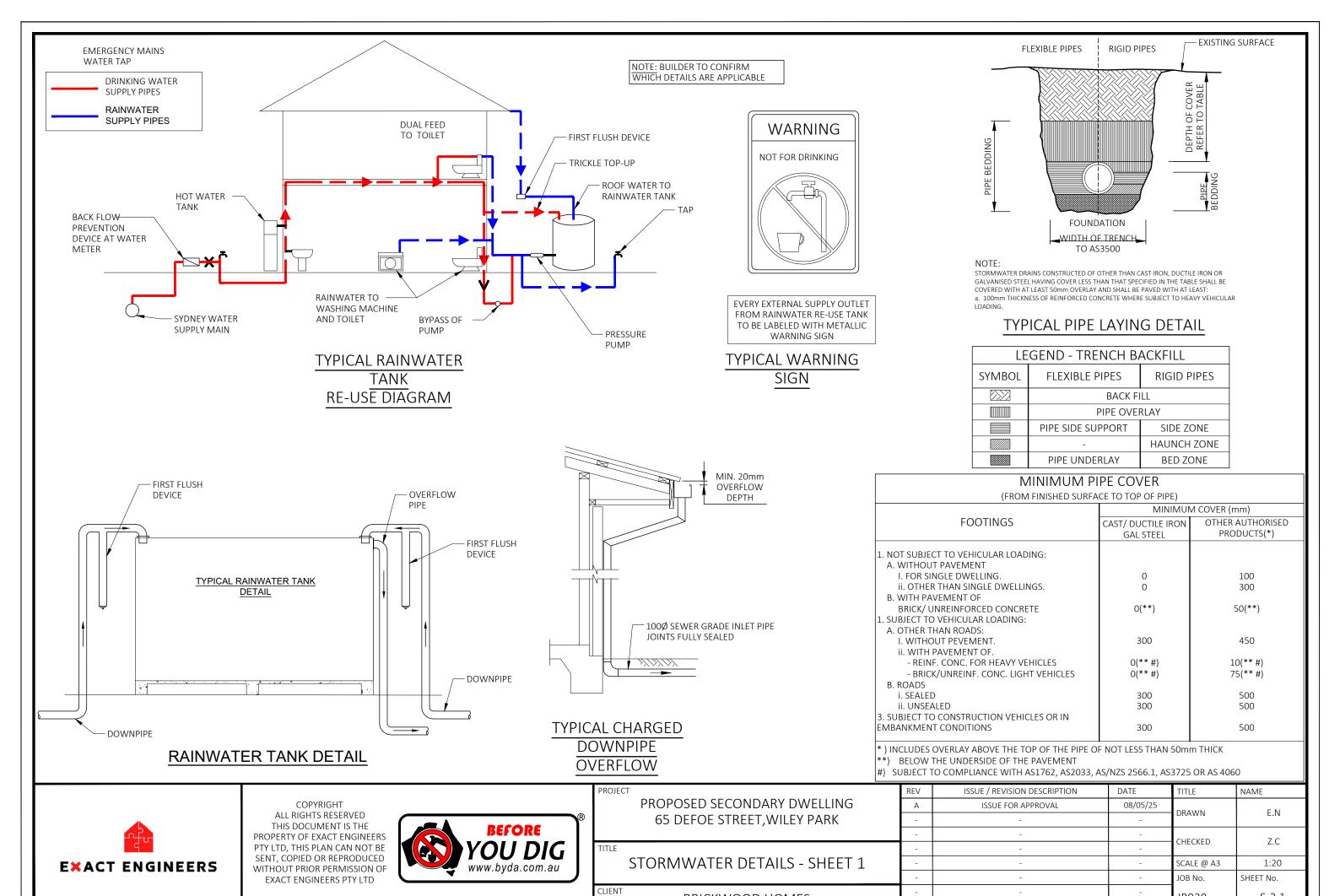
90Ø DOWNPIPE

PROPOSED RWT

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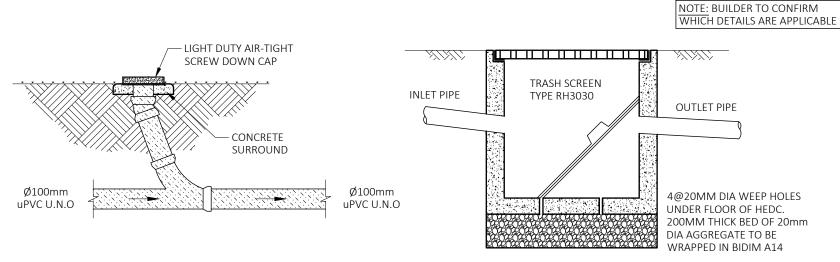
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		-	-	-		
		-	-	-	CHECKED	7.C
TITLE		-	-	-	CHECKED	Z.C
	STORMWATER PLAN	-	-	-	SCALE @ A3	1:200
		-	-	-	JOB No.	SHEET No.
CLIENT	BRICKWOOD HOMES	-	-	-	JB938	S-1.1
	DVICKMOOD HOIME?	-	-	-	30550	5 1.1



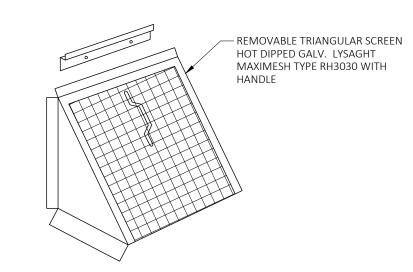
**BRICKWOOD HOMES** 

JB938

S-2.1



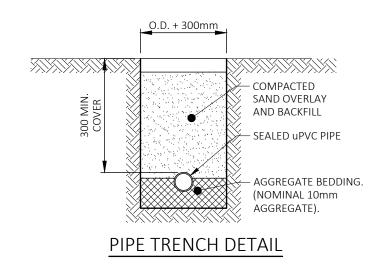
TYPICAL SILT ARRESTOR

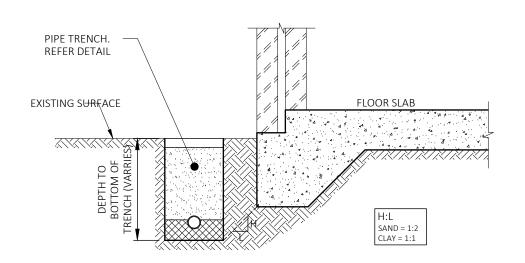


SCREEN PIT WALL

PIT DETAIL

TYPICAL MULTI-PURPOSE FILTER SCREEN





## TRENCH EXCAVATION NEAR FOOTINGS



TYPICAL INSPECTION RISER DETAIL

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		-	-	-	CHECKED	Z.C
TITLE		-	-	-	CHECKED	2.0
STORMWATER DETAILS - SHEET 2	-	-	-	SCALE @ A3	1:20	
		-	-	-	JOB No.	SHEET No.
CLIENT	BRICKWOOD HOMES	-	-	-	JB938	S-2.2
	DNICK VV OOD HOIVIES	-	-	-	30330	5 2.2