PROPOSED SECONDARY DWELLING AT 1277 CANTERBURY ROAD, PUNCHBOWL

- These drawings shall be read in conjunction with all architectural and other consultants drawings and specifications and with such other written instructions and sketches as may be issued during the course of the Contract. Any discrepancies shall be referred to the Superintendent before proceeding with any related works. Construction from these drawings, and their associated consultant's drawings is not to commence until approved by the Local Authorities.

- During construction the structure shall be maintained in a stable condition and no part shall be overstressed.

 Temporary bracing shall be provided by the builder/subcontractor to keep the works and excavations stable at all times.

- G7 Any substitution of materials shall be approved by the Engineer and included in any tender.
- G8 All services, or conduits for servicing shall be installed prior to commencement of pavement construction.
- The structural components detailed on these drawings have been designed in accordance with the relevant Standards Australia codes and Local Covernment Ordinances for the following loadings. Refer to the Architectural drawings for proposed floor usage. Refer to drawings for live loads and superimposed dead loads.

DRAINAGE NOTES

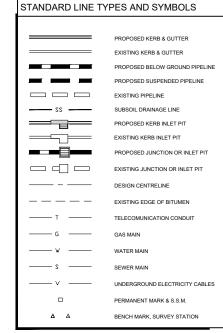
- All pits within the property are to be fitted with "weldlok" or approved equivalent grates: Light duty for landscaped areas Heavy duty where subjected to vehicular traffic

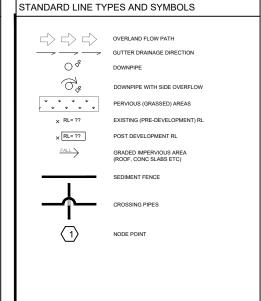
- D7 All pits in roadways are to be fitted with heavy duty grates with locking bolts and continuous hinge
- D8 Provide step irons to stormwater pits greater than 1200 in depth
- D10 Where a high early discharge (hed) pit is provided all pipes are to be connected to the hed pit, uno.
- D13 Eaves gutters shall be a minimum of 125 wide x 100 deep (or of equivalent area) colorbond or zincalume
- D14 Subsoil drainage shall be provided to all retaining walls & embankments, with the lines feeding into the

EROSION AND SEDIMENT CONTROL NOTES

- The contractor shall implement all soil erosion and sediment control measures as necessary and to the satisfaction of the relevant local authority prior to the commencement of and during construction. No disturbance to the site shall be permitted other than in the immediate area of the works and no material shall be removed from the site without the relevant local authority approval. All erosion and sediment control devices to be installed and maintained in accordance with standards outlined in risw department of housing's 'managing urban stormwater soils and constructions'.
- Place straw bales length wise in a row as parallel as possible to the site contours, uno. Bale ends to be tightly butted. Bales are to be placed so that straws are parallel to the row. Bales are to be placed 1.5m to 2m downslope from the toe of the disturbed batter, uno.

- pits constructed and protected with silt barrier
- E6 Provide and maintain silt traps around all surface inlet pits until catchment is revegetated or paved.
- The contractor shall implement dust control by regularly wetting down (but not saturating) disturbed area.
- Topsoil shall be stripped and stockpiled outside hazard areas such as drainage lines. This topsoil shall be respread later on areas to be revegetated and stabilised only, (i.e. all footpaths, batters, site regarding areas, basins and cathordrains). Topsoil shall not be respread on any other areas unless specifically instructed by the superintendent. If they are to remain for longer than one month stockpiles shall be protected from erosion by covering them with a mulch and hydroseeding and, if necessary, by locating banks or drains downstream of a stockpile to retard silt laden runoff.





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| A HO AGRICA OF THE AGRICA OF T | Australian height datum Ag-pipe (Sub soll drainage) Average recurrence interval Box Cutter Bottom water level Cover level Clean out inspection opening Discharge control pit Down pipe Dropper pip Dropper pip Dropper pip Bushing eaves guitter Existing down pipe Existing eaves guitter Existing down pipe Existing eaves guitter Fiber reinforced concrete Fiber reinforced concrete Fiber avide auftrage Grated drain Grated surface inlet pit High early discharge High point of guiter Invert level Inspection opening On-site detention Permissible site discharge Pipe 1 Reinforced concrete pipe Rectangular hollow section Reduced level Rubber ring joint Rainwater re-use tank Rain water head Sealed ild access pit Spreader pipe Spreader | SS SU TW TW TWL U/S VG UNO | Stainless steel Box gutter sump Top of wall Top water level Underside of slab Vally gutter Unless noted otherwise |

| RECOMMENDED MAINTENA | NCE SCHED | ULE | |
|---|-------------|---------------------------|---|
| DISCHARGE CONTROL PIT (DCP) | FREQUENCY | RESPONSIBILITY | PROCEDURE |
| Inspect flap valve and remove any blockage. | Six monthly | Owner | Remove grate. Ensure flap valve moves freely and remove any blockages or debris. |
| Inspect screen and clean. | Six monthly | Owner | Revove grate and screen if required and clean it. |
| Inspect & remove any blockage of orifice. | Six monthly | Owner | Remove grate & screen to inspect orifice. see plan for location of dcp. |
| Inspect dcp sump & remove any sediment-sludge. | Six monthly | Owner | Remove grate and screen. Remove sediment/sludge build-up and check orifice and flap valve clear. |
| Inspect grate for damage or blockage. | Six monthly | Owner | Check both sides of grate for corrosion, (especially corners and welds) damage or blockage. |
| Inspect return pipe from storage and return any blockage. | Six monthly | Owner | Remove grate and screen. ventilate underground storage if present. open flap valve and remove any blockages in return line. Check for sludge/debris on upstream side of return line. |
| Inspect outlet pipe and remove any blockage. | Six monthly | Maintenance Contractor | Remove grate and screen, ventilate underground storage if present. Check orifice and remove any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for studge/debris on upstream side of return line. |
| Check fixing of step irons is secure. | Six monthly | Maintenance Contractor | Remove grate and ensure fixings secure prior to placing weight on step iron. |
| Inspect overflow weir & remove any blockage. | Six monthly | Maintenance Contractor | Remove grate and open cover to ventilate underground storage if present. ensure weir clear of blockages. |
| Empty basket at overflow weir (if present). | Six monthly | Maintenance Contractor | Remove grate and ventilate underground storage chamber if present. Empty basket, check fixings secure and not corroded. |
| Check attachment of orifice plate to wall of pit (gaps less than 5 mm). | Annually | Maintenance Contractor | Remove grate and screen. ensure plate mounted securely, tighten fixings if required. seal gaps as required. |
| Check attachment of screen to wall of pit. | Annually | Maintenance Contractor | Remove grate and screen. ensure screen fixings secure. repair as required. |
| Check screen for corrosion. | Annually | Maintenance Contractor | Remove grate and examine screen for rust or corrosion, especially at corners or welds. |
| Check attachment of flap valve to wall of . | Annually | Maintenance Contractor | Remove grate. Ensure fixings of valve are secure. |
| Check flap valve seals against wall of pit. | Annually | Maintenance Contractor | Remove grate. fill pit with water and check that flap seals against side of pit with minimal leakage. |
| Check any hinges of flap valve move freely. | Annually | Maintenance Contractor | Remove grate. Test valve hinge by moving flap to full extent. |
| Inspect dcp walls (internal and external, if appropriate) for cracks or spalling. | Annually | Maintenance Contractor | Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required. |
| Check step irons for corrosion. | Annually | Maintenance Contractor | Remove grate. Examine step irons and repair any corrosion or damage. |
| Check orifice diameter correct and retains sharp edge. | Five yearly | Maintenance Contractor | Compare diameter to design (see work-as- executed) and ensure edge is not pitted or damaged. |
| STORAGE | | | |
| Inspect & remove any blockage of orifice. | Six monthly | Owner | Remove grate and screen. remove sediment/sludge build-up. |
| Check orifice diameter correct and retains sharp edge. | Six monthly | Owner | Remove blockages from grate and check if pit blocked. |
| Inspect screen and clean. | Six monthly | Owner | Remove debris and floatable material likely to be carried to grates. |
| Check attachment of orifice plate to wall of pit (gaps less than 5 mm). | Annually | Maintenance | Remove grate to inspect internal walls, repair as required, clear vegetation from external walls if necessary and repair as required. |
| Check attachment of screen to wall of pit. | Five yearly | Maintenance Contractor | Compare actual storage available with work-as executed plans. If volume loss is greater than 5%, arrange for reconstruction to replace the volume lost. Council to be notified of the proposal. |
| Check attachment of screen to wall of pit. | Five yearly | Maintenance Contractor | Check along drainage lines and at pits for subsidence likely to indicate leakages. |

| REVISION |
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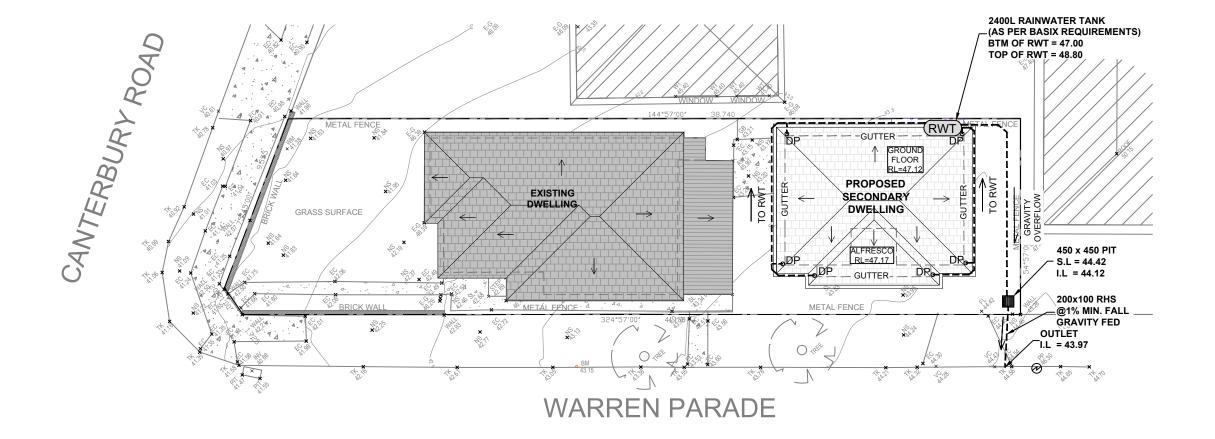
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STORMWATER - GENERAL NOTES

| PROPOSED SECONDARY |
|-------------------------------|
| DWELLING |
| 1277 CANTERBURY RD, PUNCHBOWL |
| LOT 4, DP 16529 |
| |

| JOB NUMBER: 24494 | DWG NUMBER: | ORIGINAL SIZE: |
|---------------------|---------------------|----------------|
| DESIGNED BY: A.N | DATE: 07.03.2025 | |
| DRAWN BY: M.T. | SCALE: AS SHOWN | |

NOTE: DO NOT SCALE OFF DRAWINGS, REFER TO ARCHITECTURAL PLANS, VERIFY DIMENSIONS ON SITE

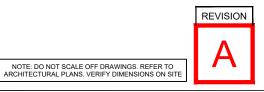


CONCEPT STORMWATER PLAN

- ALL DRAINAGE LINES SHALL BE uPVC (CLASS SH) STORMWATER DRAINAGE PIPE, U.N.O.
 ALL DRAINAGE LINES SHALL BE LAID @ 1% FALL MIN, U.N.O.
- MINIMUM EAVE GUTTER SIZE = 13400mm²
- ALL GUTTERS TO BE FITTED WITH GUTTER GUARD TO BUILDERS DETAIL
- MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:200 U.N.O.
- THE FOLLOWING SYMBOLS & ABBREVIATIONS HAVE BEEN USED:

LEGEND

DP = Ø100 OR 100 x 75 RECTANGULAR DOWN PIPE, U.N.O. DP/SP = DOWN PIPE + SPREADER



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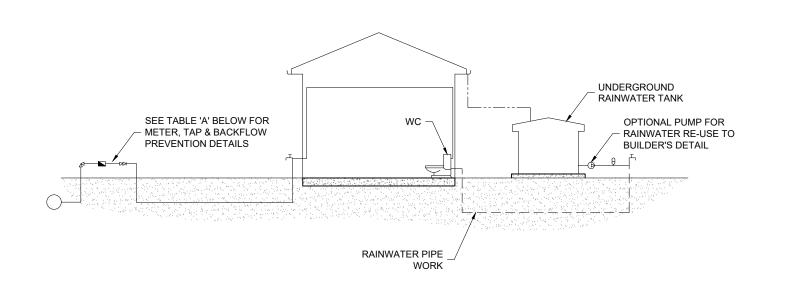
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| MCO DESIGN | E: abraham@nemcodesign.c |

STRUCTURAL ENGINEERING & ARCHITECTURAL DESIGN

PROPOSED SECONDARY DWELLING

| 1277 CANTERBURY RD, PUNCHBOWL LOT 4, DP 16529 | |
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| CONCEPT STORMWATER PLAN | |

| JOB NUMBER: 24494 | DWG NUMBER: C01 | ORIGINAL SIZE: |
|---------------------|---------------------|-------------------|
| DESIGNED BY: A.N | DATE: 07.03.2025 | |
| DRAWN BY: M.T. | SCALE: AS SHOWN | $\langle \rangle$ |



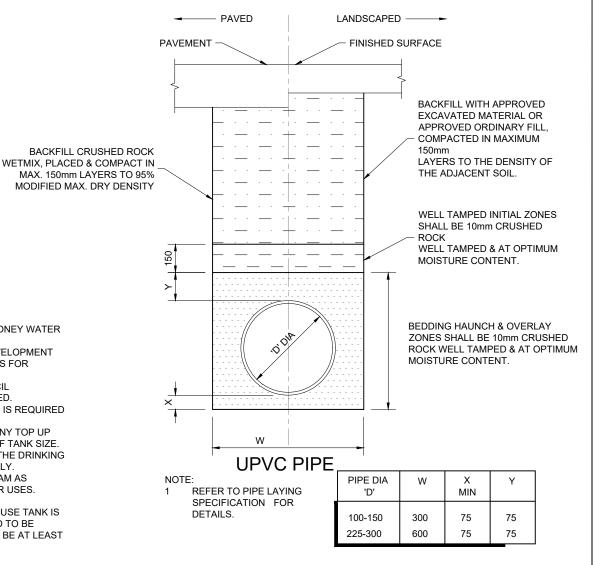


TABLE A RAINWATER **METER** TYPE TYPE OF TANK LOCATION SIZE (mr OF TAP **BACKFLOW PREVENTION** ABOVE GROUND 20 BALL VALVE DUAL CHECK VALVE (COMBINED WITH METER) 25 BALL VALVE DUAL CHECK VALVE ≥ 32 BALL VALVE DUAL CHECK VALVE BELOW GROUND 20 BALL VALVE TESTABLE DOUBLE CHECK VALVE BALL VALVE TESTABLE DOUBLE CHECK VALVE ≥ 32 BALL VALVE TESTABLE DOUBLE CHECK VALVE

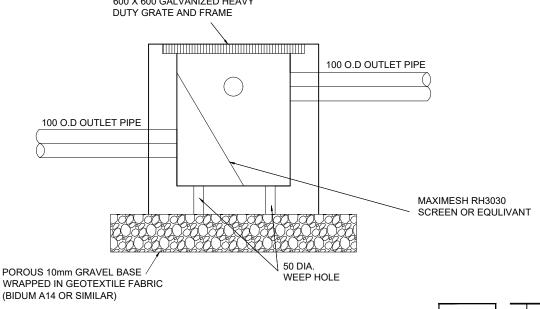
LEGEND

- PRESSURE VESSEL
- MFTFR
- BALL VALVE RIGHT ANGLE TYPE Ճ
- DUAL CHECK VALVE
- PUMP ◑
- **GARDEN TAP**
- DRINKING WATER SUPPLY PIPES
- RAINWATER SUPPLY PIPES
- ——— DOWN PIPES

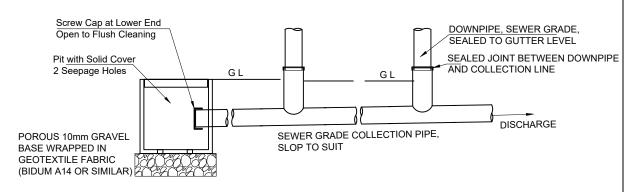
- DIAGRAM NOTES:
- DRAWING TO BE READ IN CONJUNCTION WITH SYDNEY WATER PLUMBING REQUIREMENTS
- 2 FOR TANKS 10,000 LITRES OR LESS, COUNCIL DEVELOPMENT CONSENT IS NOT REQUIRED, IF THEIR CONDITIONS FOR INSTALLATION ARE FOLLOWED.
- 3 FOR TANKS GREATER THAN 10,000 LITRES COUNCIL DEVELOPMENT CONSENT IS GENERALLY REQUIRED.
- FOR TANKS MORE THAN 10,000 LITRES APPROVAL IS REQUIRED FOR BUILDING OVER SEWERS.
- 5 SYDNEY WATER'S APPROVAL IS REQUIRED FOR ANY TOP UP FROM DRINKING WATER SUPPLY, REGARDLESS OF TANK SIZE. NO DIRECT CONNECTION IS ALLOWED BETWEEN THE DRINKING WATER SUPPLY AND THE RAINWATER TANK SUPPLY.
- RAINWATER PIPEWORK IS SHOWN ON THE DIAGRAM AS SUPPLYING INTERNAL AND EXTERNAL RAINWATER USES. CUSTOMERS MAY WANT ONE OR THE OTHER.
- ANY DESIGNED ACCESS LID INTO RAINWATER RE-USE TANK IS TO HAVE A LOCKABLE LID. IF THE LID IS DESIGNED TO BE ACCESSED BY A MAINTENANCE PERSON, IT MUST BE AT LEAST 600 mm x 900 mm IN SIZE.

DUAL DRINKING WATER & RAINWATER SUPPLY DIAGRAM

600 X 600 GALVANIZED HEAVY



TYPICAL PIPE LAYING DETAIL



TYPICAL CHARGED SYSTEM **CLEANING EYE PIT DETAIL**

TYPICAL SILT ARRESTOR DETAIL

NOTE: DO NOT SCALE OFF DRAWINGS, REFER TO ARCHITECTURAL PLANS. VERIFY DIMENSIONS ON SITE



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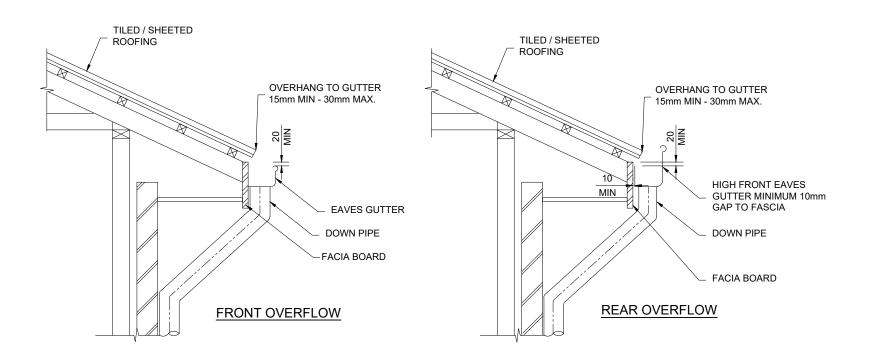
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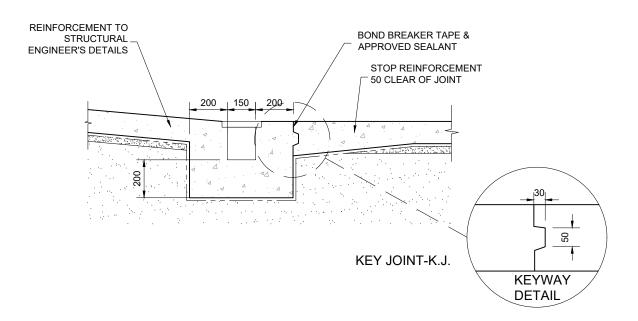
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PROPOSED SECONDARY **DWELLING** 1277 CANTERBURY RD, PUNCHBOWI LOT 4, DP 16529 STORMWATER DETAILS

| JOB NUMBER: | DWG NUMBER: | ORIGINAL SIZE: |
|---------------------|---------------------|----------------|
| 24494 | C02 | А3 |
| DESIGNED BY: A.N | DATE: 07.03.2025 | |
| DRAWN BY: M.T. | SCALE: AS SHOWN | |



TYPICAL EAVES GUTTER DETAIL



TYPICAL GRATED DRAIN DETAIL

1:20



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| DWELLING 1277 CANTERBURY RD, PUNCHBO LOT 4, DP 16529 |
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| STORMWATER DETAILS |

PROPOSED SECONDARY

| · | JOB NUMBER: 24494 | DWG NUMBER: C03 | ORIGINAL SIZE: | | |
|---|---------------------|---------------------|----------------------|--|--|
| | DESIGNED BY: A.N | DATE: 07.03.2025 | | | |
| | DRAWN BY: M.T. | SCALE: AS SHOWN | $\sqrt{\mathcal{Y}}$ | | |