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| Developer Specifications | Checklist – Water Reticulation Drawings |
| Developer: |  |
| Location: |  |
| Description: |  |
| Date: |  | Council Reference: |  |

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| **Item** | **Description** | **Developer** | **Council** | **Comments** |
| **Y** | **N** | **NA** | **Y** | **N** | **NA** |
| **1** | **General** |  |  |  |  |  |  |  |
| 1a | Cover Sheet with Locality Plan, List of Drawings and DA number | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1b | Plans prepared in A1 format at a scale of 1:1000 (A3 where appropriate) | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1c | Drawing Scale is shown on drawings as a bar scale | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1d | Scale of Detail Drawings is shown as appropriate | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1e | Schedule of Symbols | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1f | Benchmark within 100 metres of development site is shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1g | North Point shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1h | Site topography is shown via contour lines | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1i | Datum reference incl. Benchmark at A.H.D adopted by N.S.W. Dept. of Lands | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1j | Each plan to be numbered with revision no. and revision schedule and date | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1k | Road names or number | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1l | Drawings to be signed by respective Consultant / Engineer | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1m | Lettering, line work and symbols to conform to AS 1100 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1n | Water mains to be shown on road cross sections and longitudinal sections | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 1o | Landscaping and utilities plan (ie Telecommunications, power, gas) | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |

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| **2** | **Water Layout Plans** |  |  |  |  |  |  |  |
| 2a | Existing water mains and services are shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2b | Lot boundaries and lot numbers shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2c | Pipelines are numbered | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2d | Pipeline centreline chainages are shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2e | Pipeline diameters are shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2f | Terminations at Cul-de Sac’s through pathways, reserves or loop shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2g | Location and size of water services shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2h | Type and class of pipe work and fittings clearly indicated | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2i | Location of hydrants, stop valves especially at intersections, scour valves, air valves and other fittings to be shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2j | Alignment of mains and services in accordance with respective footway allocations for urban and rural residential | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2k | Location of proposed easements, reserves etc including downstream if required | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2l | Location of all drainage lines, sewer lines and other utility lines crossing the mains to be shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2m | Limit of construction to be shown including staging | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2n | Mains to be extended to the full length of the subdivision (beyond last lot) | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2o | Service connection to each block | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2p | A hydrant is to be located at dead ends | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2q | Hydrant spacing to be as per guidelines | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2r | Thurst blocks to be indicated where required | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2s | Water services at right angles to road centerline and parallel to the radius on curves and in Cul-de-Sac ends | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 2t | Metal detectable tape to be shown when non-metallic pipe is proposed | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |

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| **3** | **Water Longitudinal Sections** |  |  |  |  |  |  |  |
| 3a | Sections are drawn at scale of 1:1000 horizontal and 1:200 vertical | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3b | Levels to be shown at 20m chainage intervals, high and low points and pipe junctions | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3c | Chainages as per layout plans | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3d | RL of existing surface, design surface and pipe invert at each location of 3b above and at major variations in natural surface such as roads, gullies etc. | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3e | Location of hydrants, stop valves, scour valves, air valves and other fittings | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3f | Design grades including length of each gradient  | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3g | Pipe diameters and material type and class to be shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3h | Air valves or hydrants high points | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3i | Scour valves at low points | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3j | Location and size of existing and proposed services and utilities crossing the main complete with invert levels | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3k | Sections to be taken along intersecting roads for a sufficient distance to allow connection design | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3l | Trench stops shown as required on steep grades | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3m | All new water services to be shown | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 3n | Mains satisfy cover requirements | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| **4** | **Miscellaneous** |  |  |  |  |  |  |  |
| 4a | Show differing water supply zones if applicable | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4b | Design is satisfactory for future extension | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4c | Pipe sizes and design conform to current strategies for future development | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4d | Detailed engineering drawings are required for any structure such as reservoirs and pumping stations proposed for construction in conjunction with water supply works | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |

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| 4e | All allotments including areas set aside for recreation to be provided with a reticulated water supply sufficient for both domestic and firefighting purposes except where trickle flow has been determined | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4f | Engineering plans and subdivision plans agree | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4g | Engineering conditions of consent included in design plans | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4h | Water service sizes in accordance with AS3500 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4i | Mains designed to satisfy minimum cover requirements | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4j | Minimum pipe size is 100mm diameter for residential and 150mm diameter for commercial and industrial areas | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |
| 4k | Provide all GIS, AutoCAD and pdf files (as per specification) | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 | 🞏 |  |