











06.06.22 CONSTRUCTION CERTIFICATE 02.06.22 DEVELOPMENT APPLICATION 06.12.21 DEVELOPMENT APPLICATION Date Details

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- 1. COLEBROOK-WHITE ROUGHNESS k = 0.015mm FOR POLYVINYL CHLORIDE PIPE (PVC) & 0.15mm FOR GALVANISED MILD STEEL (GMS).
- 2. COLEBROOK-WHITE ROUGHNESS k = 0.15mm FOR FIBRE REINFORCED CONCRETE(FRC) & 0.60mm FOR REINFORCED CONCRETE PIPE (RCP).
- 3. A MINIMUM PIPE SLOPE OF 1.00% IS ASSUMED FOR CALCULATION PURPOSES.
- 4. SURFACE LEVELS BASED ON ARCHITECTURAL & SURVEY DRAWINGS.
- 5. CONFIRM PRACTICALITY OF PIPE INSTALLATION & ADVISE OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.
- 6. STORMWATER DRAINAGE < 300Ø TO BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS LAID ON GRANULAR BEDDING TO AS/NZS3500.3.
- 7. STORMWATER DRAINAGE > 225Ø TO BE CLASS 2 FIBRE REINFORCED CONCRETE WITH RUBBER RING JOINTS LAID ON GRANULAR BEDDING TO AS3500.3.
- 8. SUBSOIL DRAINAGE (WHERE REQUIRED) TO BE SLOTTED UPVC WITH FILTER SOCK LAID IN FREE-DRAINING GRANULAR MATERIAL.
- 9. CONFIRM ALL SUBSOIL DRAINAGE REQUIREMENTS PRIOR TO CONSTRUCTION & CONNECT DOWNSTREAM OF DETENTION TANK OUTLET WHERE APPLICABLE.
- 10. ALL DRAINAGE TO BE MIN 100Ø UNLESS NOTED OTHERWISE.
- 11. ALL RAINWATER OUTLETS TO BE 100Ø FLAT GRATE EQUAL TO SPECIALITY PLUMBING SUPPLIES TRUFLO SERIES (TEL 02 9416 8031).
- 12. ALL DOWNPIPES DRAINING TO THE DETENTION SYSTEM SHALL BE MADE WATERTIGHT BELOW THE MAXIMUM WATER STORAGE LEVEL.
- 13. DETENTION TANK PIPE CONNECTIONS SHALL BE PROVIDED WITH FLEXIBLE JOINTS TO ACCOMMODATE LONG-TERM SETTLEMENT AS PER AS/NZS3500.3 CLAUSE 7.3.3.
- 14. BUILDER TO PROVIDE 'AS BUILT' DRAWINGS OF ALL RELEVANT DRAINAGE WORKS AS REQUIRED FOR CERTIFICATION PURPOSES.
- 15. ANY PROPOSED CHANGE TO DETENTION DISCHARGE CONTROL SHALL BE SUBMITTED TO CONSULTANT FOR APPROVAL PRIOR TO INSTALLATION.
- 16. FINAL DRAINAGE LAYOUT SHALL BE MARKED ON AS-BUILT DRAWINGS AS REQUIRED FOR CERTIFICATION & REFERENCE PURPOSES.
- 17. ANY EASEMENTS, POSITIVE COVENANTS OR OTHER LEGAL INSTRUMENTS TO BE ARRANGED & REGISTERED BY SURVEYOR OR OTHER APPROVED AGENT.

NOTE:

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THE BUILDER SHALL ENSURE THAT <u>ALL</u> ITEMS INDICATED ON THE APPROVED DRAWINGS (SUCH AS ORIFICE PLATE AT THE CORRECT LEVEL, REMOVABLE DEBRIS SCREEN, STEP RUNGS, ETC) HAVE BEEN INSTALLED PRIOR TO FINAL INSPECTION & MEASUREMENT BY A REGISTERED SURVEYOR OR OTHER APPROVED AGENT. ENGINEERING CERTIFICATION WILL <u>NOT</u> BE ISSUED IF DOCUMENTED VERIFICATION OF CRITICAL ITEMS (INCLUDING STORAGE VOLUME) IS NOT PROVIDED.

PRIOR TO THE BACKFILLING OF ABSORPTION PITS OR OTHER UNDERGROUND HYDRAULIC STRUCTURES WHICH ARE NOT READILY ACCESSIBLE, INLINE HYDRAULIC SERVICES ARE TO BE NOTIFIED AND ENGAGED TO ATTEND SITE TO REVIEW THE INSTALLATION AND A SURVEYOR SHALL BE REQUIRED TO VERIFY THE DIMENSIONS OF THE PIT. A MINIMUM OF TWO DAYS' NOTICE SHOULD BE PROVIDED PRIOR TO THE INSPECTION BEING SCHEDULED. IN ADDITION, THE BUILDING CONTRACTOR IS TO PROVIDE AN AS-BUILT DRAWING INDICATING ANY VARIATIONS TO THE APPROVED DESIGN, TOGETHER WITH SIGNED WRITTEN ADVICE STATING THAT THE WORKS HAVE BEEN CARRIED OUT WITH THE INTENT OF THE DESIGN.

IF THIS IS NOT DONE, AJ WHIPPS CONSULTING GROUP WILL NOT BE ABLE TO PROVIDE COMPLIANCE CERTIFICATION.

С	07.08.24	CONSTRUCTION CERTIFICATE	
В	16.06.22	CONSTRUCTION CERTIFICATE	
Α	06.06.22	CONSTRUCTION CERTIFICATE	
P2	02.06.22	DEVELOPMENT APPLICATION	
P1	06.12.21	DEVELOPMENT APPLICATION	
No	Date	Details	

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Drawing HYDRAULIC SERVICES
SPECIFICATION SHEET

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