

Hamilton City Development Manual	
Volume 4 : Quality Systems for Land Development	Part 4 & 5 – Stormwater & Wastewater
Authorised by : Water & Waste Services Manager	Page 1 of 2

PART 4 & 5 : STORMWATER AND WASTEWATER RETICULATION

4.1 General

Council's Role includes random audits of a sample of the Works for compliance, and witnessing and acceptance of:

- a) All pressure testing
- b) All connections to existing infrastructure
- c) The final inspection prior to 224 (c) approval.

The Engineer shall carry out the following checks on all Works to certify quality and compliance:

- a) Before pipelaying commences check that pipes are correct line and level to join existing mains and joining procedures are agreed
- b) Design and re-design compliance
- c) Trench safety – OSH
- d) Pipe specification compliance including size, quality and use of approved materials
- e) Foundation conditions suitable – undercut and hardfill replace where necessary
- f) Pipe grade and alignment with specified tolerances
- g) Pipe bedding and surround correctly placed and compacted
- h) House connections, London junctions, and ramped risers laid and located correctly both horizontally and vertically
- i) Bulk backfilling and surface reinstatement to specifications
- j) Manhole construction, to HCC Technical Specification, including: connections and leads, benching, precast base, mastic sealing strip, rungs, concrete lid, cast iron, frame and cover, hardfill to underdrops, surface levels conform etc.
- k) No debris in pipelines
- l) All QA checklists and test certificates completed, checked for compliance and submitted to Council as the work progresses
- m) Council present to witness required testing and for final inspection
- n) Catchpit construction, to HCC Technical Specification, including plastering and that they are clear of debris.

o) As-built information logged and trench width noted for deep pipelines.

4.2 Stormwater Detention Facilities

Where required by the Resource Consent, stormwater detention facilities shall be constructed in accordance with this manual and completion inspections shall be undertaken using Checklist 4.6. Part of the process for obtaining 224c release for developments involving stormwater facilities is the preparation of an Operations Manual that complies with the requirements in Checklist 4.7. The following flowchart outlines the development process for these facilities.

