

## **On-Site Servicing Requirements for Active Building Permits**

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The City of Nanaimo under Building Bylaw No. 5693 relies upon certification by the Civil Engineer that the design and installation of the on-site civil works is in compliance with the BC Building Code and in accordance with good engineering practice.

### **ON-SITE SERVICING INSPECTIONS:**

- As part of the inspection process the Plumbing inspectors will be requesting the Civil Engineer's site reports on a weekly basis.
- Inspection by the Civil Engineer of the on-site servicing and submission of reports is mandatory. Building Inspection approvals may be affected if inspections and reports are not completed and submitted.

The Civil Engineer is responsible for the design and inspection of the following on-site items. The submitted reports should note inspection of these items where applicable to the project.

#### **1. PIPE PLACEMENT (drop-in inspections)**

**(Engineer's site inspection report to be submitted to the plumbing inspector)**

- Domestic water line, fire line, sanitary sewer line, storm sewer line.
- Pipe material and classification schedule as per City approved plans (City of Nanaimo Standards, BC Building Code and/or NFPA Standards).
- Confirm location and size of connections.
- Note thrust blocking, tie rods and /or hold-downs.

#### **2. COMPACTION OVER PIPE (drop-in inspection)**

**(Engineer's site inspection report to be submitted to the plumbing inspector)**

- Compaction results from testing agency.

#### **3. WATER (drop-in inspections)**

**(Engineer's site inspection report to be submitted to the plumbing inspector)**

- Pressure test – the greater of 1.5 times the average system operating pressure or 1,035 kpa (150 psi) for 1 hour with no loss of pressure.
- Watermain flushing.
- Chlorination test results AWWA C651 where pipe is 2 inches and larger.

#### **4. FIRE LINE TO NFPA STANDARDS (drop-in inspections)**

**(Engineer's site inspection report to be submitted to the plumbing inspector)**

- Pressure test 2 hours at 1378 kpa or 200 pounds.

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## **5. SANITARY SEWER (drop-in inspections)**

### **(Engineer's site inspection report to be submitted to the plumbing inspector)**

- Air test, 8" sanitary pipe – 24 kpa or 3.5 lbs. for 5 min. 6 sec., 6" sanitary pipe – 24 kpa or 3.5 lbs. for 3 min. 50 sec. Air test not to be used with concrete pipe.
- Smoke test (where there are multi connections).
- Video of pipe, confirm video has been reviewed and no defects were found, submit paper copy of video report.

## **6. STORM SEWER (drop-in inspections)**

### **(Engineer's site inspection report to be submitted to the plumbing inspector)**

- Smoke test (where there are multiple connections).
- Video of pipe, confirm video has been reviewed and no defects were found, submit paper copy of video report.

## **FINAL APPROVAL:**

Requires the submission of Civil Engineering Schedule "C-B", daily engineering inspection reports and testing reports including:

- Compaction results for utility trenching from a testing agency.
- Chlorination documentation (where pipe is 2" or larger).
- Water system leakage test.
- Fire line leakage test.
- Sanitary sewer air leakage test.
- Storm & Sanitary smoke test (where there are multiple connections).
- Video results for Sanitary & Storm from testing agency.

## **OCCUPANCY FOR BUILDINGS:**

Occupancy will not be granted until on-site and off-site servicing is approved, and all requirements of the Building Permit(s) have been met.

**Questions regarding on-site servicing can be directed to City Plumbing Inspector at 755-4429.**