



Residential water services reuse guidelines

Single family detached and semi-detached dwellings

This guideline established consistent criteria for residential water service reuse for various types of redevelopment based on asset management principles. It improves customer service by streamlining internal processes and putting an arbitration process in place for special cases or appeals.

All inquiries are now submitted by contacting 311 to initiate a water and sewer service reuse application, where reuse is permitted.

Eligibility and requirements

Applicants should be aware that opting to reuse the existing water services may negatively affect the pressure and/or volume of water supplied. The performance of the existing sewer services will not be improved.

As per the design guidelines for Development Site Servicing Plans, if any of the services require replacement by means of full length excavation, all services within the same trench must be replaced.

The residential redevelopment construction types considered in this guideline are:

1. **New building construction:** redevelopments where the existing structure is demolished and replaced with a new residence(s).

New building construction **is not eligible** for service reuse. A complete kill of the existing services and the installation of a new water service (minimum 25mm PEX or copper), new sewer and storm servicing (where storm mains exist) meeting current Water and Sewer Standard Specifications and the current Canadian Plumbing Code is required.

2. **Minor redevelopment:** redevelopments where the original basement foundation remains unchanged and the addition proposed will increase the total above ground square footage **by less than 50 per cent.**

Minor redevelopment **is eligible** for service reuse.

3. **Major redevelopment:** redevelopment where the original basement foundation changes or the total above ground square footage increases **by 50 per cent or more.** This may be in the form of additional stories and/or a ground level addition where the original foundation is modified to provide a full basement under the proposed addition.



Major redevelopment **is eligible** for service reuse provided the following conditions are met:

- The water services on public or private property are **not** composed of lead or galvanized iron. Existing water services composed of either of these materials must be replaced, as these materials are no longer permitted under the Canadian Plumbing Code.
- The water service is a minimum of 20mm or larger PE, PEX or copper and has a fully operable service valve capable of providing a complete shut-down of the water supply.
- The sanitary service is a minimum of 100mm PVC or DR17 HDPE.
- The storm service is a minimum of 75mm PVC or DR17 HDPE.

Where the above minimum criteria are met, or where rehabilitation work is proposed to meet these criteria, the applicant must commission and submit a report certified by an Engineering Professional accredited in the province of Alberta to Planning & Development - Development Servicing for review.

This report must contain:

- A water service sizing calculation as per the Canadian Plumbing Code (CPC) Division B certifying that the existing water service size is compliant to the CPC fixture count requirements.
- A private sewer inspection video as per the requirements of The City of Calgary Standard Specifications for Sewer Construction (most recent edition). Video/report to comply with Section 403.13.05.01. The video shall be accompanied by the engineer's letter attesting that the existing sanitary and/or storm services are acceptable for reuse.
- Where a CIPP (cured in place pipe) sewer service liner exists, or is proposed for installation as an upgrade, complete documentation, including engineering design drawings and material specifications for the CIPP installation shall be submitted for review and approval.

Based on review of the above submission by Water Services Operations Engineering, further acceptance and/or rehabilitation conditions may be imposed and must be successfully completed by the applicant prior to the grant of a reuse.

City of Calgary indemnified contractor required

Where the applicant wishes to satisfy the conditions for residential service reuse, all work must be carried out by a contractor on The City of Calgary indemnified contractor list (available through Supply Management) and written confirmation of the work completion must be submitted on behalf of the applicant by the contractor directly to The City.