

**1. SUBJECT     WYE CONNECTIONS TO COMBINED SEWERS****2. DEFINITIONS**

A sanitary private drain connection (PDC) is a gravity pipe which connects the internal plumbing (sanitary flows) of a site to the municipal sanitary sewer.

A storm private drain connection (PDC) is a gravity pipe, which connects the stormwater drainage systems (catchbasins, parking lots, downspouts, etc.) of a site to the municipal storm sewer.

A combined sewer is a single mainline sewer located within the right-of-way or in an easement in favour of the City, which by design, conveys both sanitary and storm flows.

**3. DRAWINGS**

AS-566 – Wye Connections to Combined Sewers

AS-313 – Private Drain Details (Single)

**4. BEST PRACTICE**

Storm and sanitary PDC's may be permitted to connect to a combined sewer where:

1. The only sewers available to service the site are combined sewers
2. The applicant is using an existing connection to the combined sewer to service an addition to the site
3. There is evidence that the design drainage areas for the site correspond to the combined sewer
4. Where at the discretion of the City Engineer, the only available separated sewers are:
  - a) Under an existing roadway which is in new or good condition, and creating an opening to tap the separated sewers is not in the best interests of the City,
  - b) Of considerable depth (greater than 5.5m (18 feet) deep) and the opening created to access the sewer for a tap would be detrimental to the infrastructure, or specialized equipment is required,
  - c) Trunk sewers where connections to the sewer are discouraged.

The storm PDC shall be connected to the sanitary PDC by way of a wye connection within the right-of-way as shown on the attached drawing. This will ensure the provision for the future separation of the connections at the property line. Where the length of the wyed section, projected to the property line, is greater than 1.5m (5 ft.), the applicant may be required to enter into an Encroachment Agreement for the connection.

Installation of a backwater valve or similar apparatus is recommended on any connections to the municipal combined sewer, as a precaution and to help mitigate possible damage from a sewer surcharge and the location should be further discussed with the Building Department to confirm compliance with the Building Code.

**Commercial Properties**

At the discretion of Pollution Control, a 1200mm (48") diameter sanitary sampling manhole shall be installed at the property line of any non-residential site to the satisfaction of the City Engineer.

The storm PDC will have a clean out at the property line and shall not connect to the sanitary sampling manhole.

**Residential Properties**

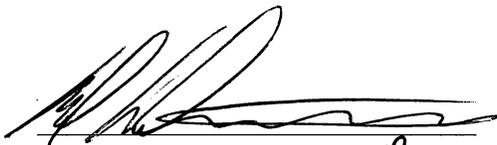
Storm and sanitary clean outs required at the property line for all residential developments prior to connecting to each other within the right-of-way.

**5. RELATED BEST PRACTICES**

BP1.1.2 - Sanitary Sampling Manholes

**6. RELATED CITY SPECIFICATIONS**

- S-1 – Sewers
- S-2 – Maintenance Holes and Catchbasins
- S-3 – Earth Excavation (Grading) and Structural Removal
- S-4 – Granular Base & Aggregates
- S-5 – Concrete Curbs and Gutter Systems
- S-6 – Concrete Sidewalk and Driveway Approaches
- S-7 – Concrete Pavement and Concrete Base
- S-9 – Concrete
- S-10 – Construction Specification for Hot Mix Asphalt
- S-14 – Sodding
- S-15 – Seeding
- S-24 – Unshrinkable Backfill
- S-29 – Utility Cuts Restoration
- S-32 – CCTV Sewer Inspection
- S-34 – Topsoil



City Engineer or Designate *AL*

*June 3/21*

Date