



# SEWER FLOW MANAGMENT Design Considerations

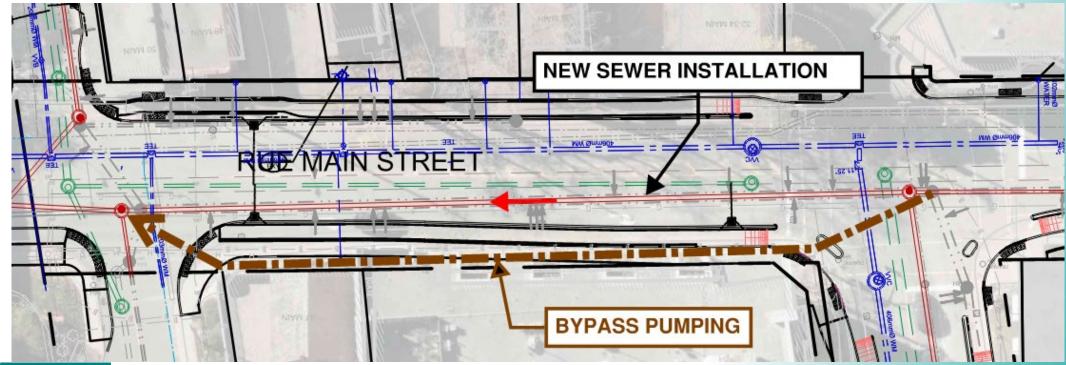
Project Example:

**Greenfield, Main, Hawthorne Reconstruction Project (GMH)** 



#### **Standard Plans**

- If working on sewers in a similar alignment, between two manholes
- Pumping from upstream manhole to downstream manhole
- Reviewed to ensure:
  - Limited impact on upstream systems
  - Sufficient pump capacity to manage known flows
  - System redundancy (i.e., back up pumps)

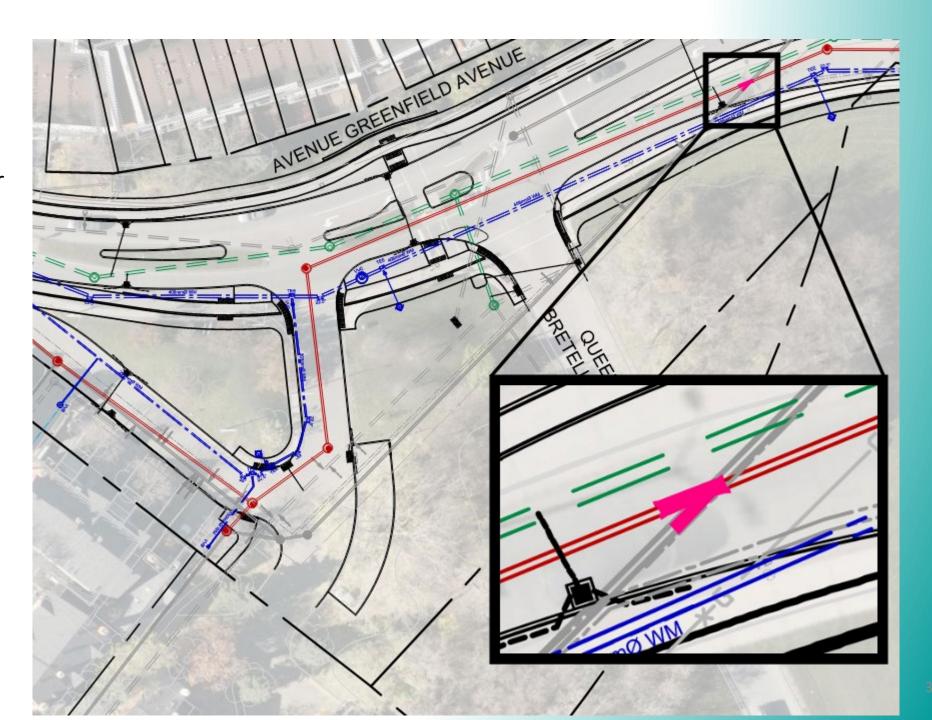




### **Temporary Wye/Tee**

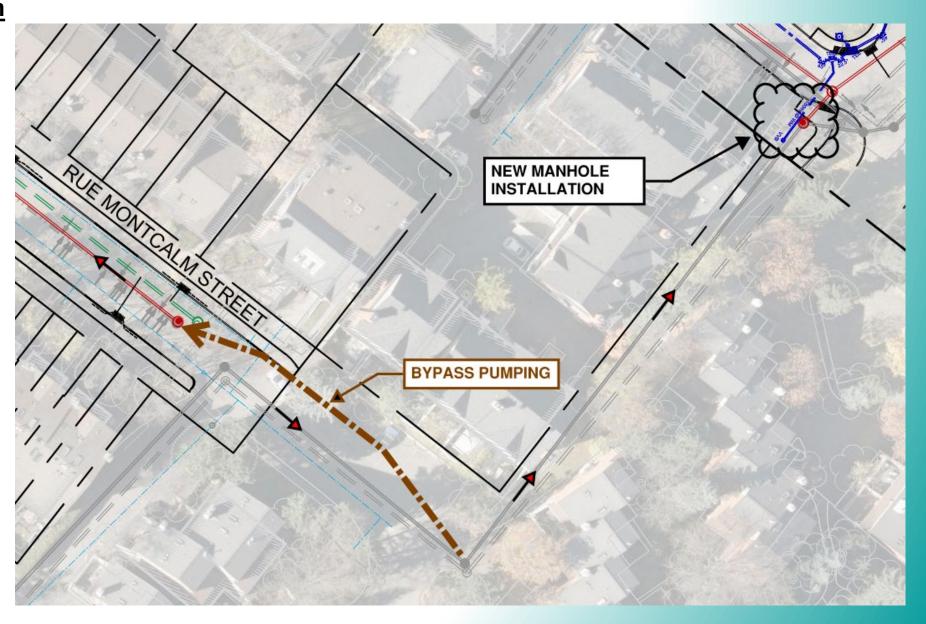
- Used to maintain existing sanitary flows during construction of new sewer in a new alignment
- Avoided weeks of 24/7 pumping
- Integral with the new sewer (no repair sleeves used)
- Connection blanked with a watertight cap upon completion





### **Alternate Bypass Destination**

- Diverting flows from one catchment area to another
- Site constraints are easier to manage
- Reduced pumping distance (hose length)
- Ultimately denied due to capacity concerns





## **Construction Sequencing**

- Maintained sewer flows within existing combined system during construction
- Sewers constructed out of sequence (upstream first)
- Limited pumping requirements for major storm flows
- Combined system fully separated prior to sewer abandonment

