

SECTION 441

CLEANOUT OF EXISTING STORM SEWERS, CATCH BASINS, MANHOLES AND DITCH INLETS

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441.01 GENERAL

Storm sewers, catch basins and ditch inlets to be cleaned out will be identified in the field by the Owner's Representative. The conditions of the site and the storm sewer system shall be thoroughly assessed by the Contractor prior to the commencement of work, including the degree of pipe blockage and types of debris. Storm sewer cleanout shall typically be accomplished by means of high velocity jet water propelled cleaning equipment. The equipment, nozzles, flow rates, and pressures necessary to complete the work shall be determined by the Contractor. The equipment shall be able to clear blockages and remove debris from pipe sewer systems with varied sizes and downstream constraints. If necessary, and as directed by the Owner's Representative, other means of storm sewer cleaning such as hand cleanout, hydraulically propelled or mechanically powered cleaning equipment with use of reamers, cutters or grinders, and flushed afterwards with a high-pressure water nozzle shall be utilized. Cleanout operations shall restore the existing infrastructure to within 25mm of its original internal diameter.

The Owner's Representative shall be notified of the location where cleaning will be performed a minimum of 24 hours in advance of commencing the work.

The Contractor shall ensure that cleaning operations do not damage the existing condition of the storm sewers. During cleaning operations the Contractor shall identify any areas of deterioration or damage and immediately notify the Owner's Representative. Water pressures and flow volume shall be appropriate for the age and condition of the storm sewer system, and shall not cause damage to the storm sewer. Storm sewer infrastructure damaged as a result of negligence on behalf of the Contractor shall be repaired at the Contractor's expense. The Contractor is responsible for ensuring that cleanout operations do not cause flooding or damage to adjacent private properties. Any damage to the existing storm sewer or private property arising from cleanout operations shall be repaired

at the Contractor's expense. Cleanout of the storm sewer shall not cause any blockages to service connections or laterals.

Cleanout shall include the removal and disposal of any debris, blockages, or any build-up of foreign material that may be obstructing the storm sewer infrastructure at or immediately adjacent to the inlet and outlet. Any and all debris resulting from the cleaning operations shall be removed from the job site and properly disposed of by the Contractor, at their own expense. If debris accumulates in clean drainage infrastructure during construction, the Contractor shall clean infrastructure again, at their own expense

Storm sewers shall be cleaned in the direction of flow for each segment of storm sewer. The Contractor shall install a screen at all storm sewer outfalls to collect all materials that migrate downstream from the given section of storm sewer cleanout. Precautions shall be taken to ensure that no foreign material, silt laden or contaminated cleanout water enters any adjacent watercourses at storm sewer outfalls.

Before cleaning operations the Contractor shall remove and store all grates and other appurtenances from the culvert. When cleaning is complete, treat hardware required for the grates and other appurtenances with anti-seize compound. Then, reinstall the grate and appurtenances using the treated hardware.

Water source shall be as specified by the Contractor. Water shall be clean and free from oil, acid, alkali, organic matter, or other deleterious substances. Backflow prevention and air gap methods shall be used when water is taken from potable water systems, and shall be considered incidental to the work.

Contractors are reminded that all relevant sections of Division 8 – General Environmental Requirements of the Department's Specifications Book shall apply to this work.

441.02 MEASUREMENT OF PAYMENT

Measurement for payment for the cleanout of existing storm sewer pipe of a particular diameter shall be the length of storm sewer pipe cleaned out, measured in meters, rounded to one decimal place.

Measurement for Payment for the cleanout of existing storm sewer catch basins, manholes and ditch inlets of a particular size shall be measured per each individual unit cleaned out.

441.03 BASIS OF PAYMENT

Payment at the contract price shall be considered compensation in full to: provide all materials, labour, supervision and equipment required to cleanout existing storm sewer culverts, catch basins, manholes and ditch inlets as required by the Owner's Representative.

Disposal of all materials collected from storm sewer cleanout shall be disposed of offsite at the Contractor's Expense.