

Requirements and Standards For Closed Circuit Television Private Sewer Lateral Inspections

PURPOSE AND SCOPE

This document provides information and sets forth standards for Private Sewer Lateral (Lateral) closed circuit television (CCTV) inspections and recording, to be used by CCTV operators and technicians, contractors, plumbers, design engineers, CCTV interpreters and others who are or may be involved in the CCTV of Private Sewer Laterals to comply with District Ordinance No. OVSD-78.

PART 1 – FIELD DATA COLLECTION PRACTICES

- 1) Prior to performing the CCTV inspection, the Lateral shall have been cleaned by utilizing the appropriate cleaning method given the inside condition of the Lateral. Roots, grease, oil, sediment, or solids shall be removed to permit the visual review and recording of the inside wall of the Lateral.
- 2) CCTV Lateral inspection recordings shall be in DVD format and shall be in color.
- 3) Camera, power source, lights, and other components for the video inspection shall be equipment designed and manufactured for the inspection of Laterals and piping having a minimum diameter of 3: and for a distance of at least 100 feet from the point of access.
- 4) Lighting and camera quality shall be suitable to provide a clear, in focus picture of the entire inside periphery of the Lateral for all conditions encountered during the work.
- 5) All recordings shall be in focus, properly illuminated with good contrast, adequate color and tint without distortion or outside interference.
- 6) The camera lens must be kept clean and clear; any fogging due to oil, grease or other water content or debris that obscures the lens shall be cleaned off before proceeding with the recording operation. The camera is to be operative in 100% humidity.
- 7) The camera shall be moved through the Lateral at a uniform rate not exceeding 30 feet per minute. The camera shall be stopped for a minimum of 5 seconds at broken or cracked pipe defects. The camera shall be stopped for a full minute at any flowing connection. Camera units shall have adjustable support and shall be set so the camera axis is generally at the centerline of the pipe.
- 8) CCTV inspection of a Lateral must be performed with a District authorized representative present.
- 9) The CCTV inspection DVD shall show the whole periphery of the Lateral pipe.
- 10) The CCTV data view display feature must be capable of showing on the DVD the following information:
 - (a) Physical address of property which the Lateral serves. The video must start and end with a view of the front of the building showing distinguishing features and the street number.
 - (b) Date and time of inspection.
 - (c) Name of company, firm or technician performing the CCTV inspection.
 - (d) Inside diameter of Lateral and type of pipe material.
 - (e) Continuous footage counter accurate within 3 percent.
 - (f) Identification of access and starting point for video inspection such as upstream cleanout and location of cleanout. Vent lines will not be acceptable as access points.

- 11) The preferred direction of the video inspection is forward from upstream to downstream.
- 12) The CCTV video must include the entire length of the Lateral. Inability or failure to do so because of obstructions in the line, collapsed pipe, out of alignment joint offsets, or lack of acceptable access points will result in the rejection of the CCTVB inspection report. An acceptable access point is defined as a cleanout constructed in accordance with district requirements (see District Standard Plan) and it permits the complete video inspection of the Lateral. A vent pipe or any portion of the building plumbing is not considered as an acceptable access point. If there are no acceptable access points, installation of a new Lateral cleanout meeting the requirements of the District will be required in order to perform a video inspection of the Lateral.
- 13) The CCTV video DVD shall be labeled and the label shall be legibly and shall include the following information:
 - (1) Title of CCTV Private Sewer Lateral Inspection”
 - (2) Street address of the property to which the Lateral serves
 - (3) Date of inspection
 - (4) The name of the Company, Firm or Individual responsible for the CCTV Inspection and to which payment has been made as reflected on the invoice provided by the inspection service provider to the property owner or service requestor.

PART 2 – PRIVATE SEWER LATERAL INSPECTION REPORTING

The District’s Private Sewer Lateral Inspection Report & Log form is to be utilized in reporting and submitting any CCTV inspection recording to the District for review and the subsequent issuance of a Sewer Lateral Compliance Certificate. The Inspection Report & Log can have any number of pages, depending on the number of defects found. A diagram or a drawing showing the street, approximate location of the cleanout(s) and building face is to be provided. The diagram may be drawn in the space provided on the form or prepared on a separate sheet of paper and attached to the inspection report.

Following is a listing of sample adverse pipe conditions which should be reported in the inspection report:

- Cracked Pipe (longitudinal, radial, spiral, multiple)
- Broken Pipe, Hole in Pipe, Deformed Pipe, Collapsed Pipe
- Separation in Pipe Joint (roots, earth movement, collapsed pipe section)
- Pipe Obstruction
- Infiltration (observable, evidence of, seeps into line, runs into line)
- Debris or sediment in the Pipe (flow undisturbed or disturbed, unable to continue)
- Grease (flow undisturbed or disturbed, unable to continue)
- Scaling (flow undisturbed or disturbed, unable to continue)
- Side Connections (attempt to identify)
- Cleanouts (existing or missing and location)

(This list is not all inclusive; other adverse conditions may exist and should also be included in the report)

Defects shall be noted on the report form and the lineal footage for each defect shall be included.