
CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | www.mercergov.org

Inspection Requests: Online: www.MyBuildingPermit.com VM: 206.275.7730



Side Sewer Video Inspection Standards

PURPOSE AND SCOPE

Construction of new residential or commercial buildings, including extensive remodels that consist of additions are required to make a video inspection of the existing side sewer to determine the existing condition. Side sewers that have sags, root intrusion, low spots, misaligned joints, cracks or breaks, or show signs of infiltration shall be replaced. The video inspection helps determine the minimum limits of side sewer replacement. This document provides information and sets standards for private side sewer inspections. The intent of these requirements is to ensure the accuracy, quality, and completeness of the video inspection submittal for the use of operators, technicians, property owners, plan reviewers, inspectors, and any others gathering or using the detailed information.

GENERAL REQUIREMENTS

1. The Side Sewer Video Inspection Report shall be accurate, fully completed, and then submitted with the Closed Circuit Television (CCTV) video inspection recording.
2. The CCTV video inspection recordings shall be submitted on CD, DVD, or via email. VHS tape is currently allowed but may be phased out soon.
3. The camera, power source, lights, and other components for the video inspection shall be specifically designed and manufactured for the inspection of sanitary side sewers.
4. The quality of the camera and lighting shall be suitable to provide a clear, in-focus video of the inside periphery of the sewer pipe extending at least 5 feet in front. Lighting for the camera shall minimize reflective glare.
5. The camera lens must be kept clean and clear. Any fogging due to oil, grease, or other debris that obscures the lens shall be cleaned off before proceeding with the recording operation. The camera is to be operative in 100% humidity conditions.
6. The video shall be performed in low flow conditions that do not inhibit the view of the inside periphery of the side sewer.
7. The following data shall be displayed on the video recording:
 - a. Address of property being served by the side sewer
 - b. Date and time of inspection
 - c. On-going footage counter
 - d. If the CCTV camera system is not capable of showing the above information (a & b) on the video screen, a whiteboard or blackboard showing the information will be permitted as long as the information is shown on the video screen and then the camera shown entering the side sewer without a break or delay in the recording.
8. The entire length of the side sewer from the building to the public sewer main shall be inspected and recorded in one continuous recording. Spliced or multiple segments of video will not be acceptable.
 - a. Video recordings of side sewers that are connected to the lake line shall be inspected to the static water level then pause long enough for static level to decrease and inspect to lowest static level possible.

9. All VHS tapes, CDs and DVDs must be labeled. Labels shall be typewritten or legibly hand printed and include:
 - a. Title "Side Sewer Inspection"
 - b. Address of property being served by the side sewer
 - c. Date of inspection
 - d. Contractor Name
10. The picture should be of adequate light to clearly view all pipe features and defects, such as additional connections, cracks, offset joints, roots, holes, etc.
11. The camera operation may be cable-pulled or self-propelling, move at a uniform rate, and record moving forward or on a reverse pull depending on the pipeline conditions.
12. The camera shall be stopped for a minimum of 5 seconds at all defects. The camera shall be stopped for a minimum of 30 seconds at pipe connections, if needed, pulled back, and re-televised to ensure a clear recording of the connection. Defects and pipe connections shall be noted on the Inspection Report Form to the nearest foot based on the on-going footage counter.

SUBMITTAL REQUIREMENTS

1. Video will be submitted to the City of Mercer Island Utilities & Site Improvement Inspector.
2. All inspection forms and videos will be reviewed for quality, accuracy, and completeness based on the minimum standards established and the video recording logs will be checked against the visible features on the recording.
3. If all or a portion of the video or report form is incomplete, inaccurate, non-visible, or of a poor quality and do not meet the standards set forth, the contractor will be notified of the deficiencies. A new video and inspection report form must be completed and resubmitted for review.
4. Heavy water flow making the inside condition of the pipe non-visible would be cause for rejection of the video unless it is clearly due to a sag in the pipe.
5. When discrepancies exist between the video footage and on-going footage counter that leave doubt as to the accuracy of the locations of defects or the total footage of pipe, the property owner and contractor will be notified of the deficiencies. A new video and inspection report form must be completed and resubmitted for review. If the operator acknowledges that the forward run is unacceptable and decides to re-televiser on the reverse pass, the operator shall ensure that the footage markings are correct and stop for defects and other pipe connections per the standards set forth.
6. Video inspection report observations shall be measured from the main or connection of shared sewer to the starting point of video inspection. Please see example below.

Example

Condition of Lateral - Observation		
Footage	Observation	Comments
0	-	Connection to main
2	Bend	Bend Prior to main
5	Tee	Tee-Capped
25	R	Root Intrusion @ 6 o'clock
32	OJ	Poor joint connection
41		Start of video inspection

Observation Key: (H=Hole, SV=Soil Visible, EA=Exposed Aggregate, R=Roots, OJ=Offset Joint, C=Cracks. G=Grease/Blockage. S=Sag)

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SIDE SEWER VIDEO INSPECTION REPORT

PROPERTY OWNER INFORMATION					
Applicant/Contact:			Phone:		
Site Address:					
Mailing Address:					
Building Type:		Single Family	Multi Family	Commercial	
CONTRACTOR INFORMATION					
Contractor/Contact:			Phone:		
Address:					
Email Address:					
Name of Technician:					
Date of Inspection:			Weather Condition:		
INFLOW INSPECTION					
Are there any sources of inflow entering the sanitary sewer system:				Yes	No
If yes, check all that apply:		Sump Pump	Basement Area Drain	Downspouts	
Footing/Foundation Drain		Driveway Drain		Other:	
PRIVATE SIDE SEWER INSPECTION RESULTS					
TV Direction:		Upstream	Downstream	Total video Footage:	
Pipe Material (check all that applies)		A/C	Concrete	Cast/Ductile	PVC/ABS
		Other:			
Pipe Diameter:		3"	4"	6"	8"
Cleanouts:		Yes	No	If yes, location:	
Is this side sewer shared with neighboring properties?			Yes	No	
If yes, please list addresses:					

Please complete reverse side

CONDITION OF LATERAL - OBSERVATIONS		
Observation Key: (H-Hole, SV-Soil Visible, EA-Exposed Aggregate, R-Roots, OJ-Offset Joint, C-Cracks, G-Grease/Blockage, S-Sag)		
Footage	Observation	Comments

ADDITIONAL COMMENTS REGARDING CONDITION OF LATERAL

Signature _____	Date _____
Print Name _____	

SKETCH