
POLICY

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Number: DECM.11.POL.601
Title: CLOSED-CIRCUIT TELEVISION
INSPECTION

Approved: 
Resource Stewardship Director

Related: None

Approved: 
Drainage Manual Administrator

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Cancels: New

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Control Manual / TCC 15.05

DECM.11.POL.601 CLOSED-CIRCUIT TELEVISION INSPECTION

This policy applies to all development and redevelopment projects in Thurston County subject to the Drainage Design and Erosion Control Manual.

Purpose:

The purpose of this policy is to clarify Closed-Circuit Television Inspection (CCTV) requirements when storm drainage systems are designed and constructed in accordance with the Thurston County Drainage Design and Erosion Control Manual (DDECM).

The DDECM does not stipulate how and when CCTV will be required for projects that include storm drain pipes greater than 8" and larger. Therefore, this policy defines how and when CCTV will be required before final acceptance.

Policy:

All new storm drain pipeline shall be Closed-circuit television (CCTV) inspected by the developer, contractor or applicant. The DVD of the inspection shall become the property of the County. The County will review the CCTV inspection and will notify the Contractor if the review revealed deficiencies. The following deficiencies in storm drain installation that are identified by the Inspector or by television inspection shall be corrected by the Contractor at no cost to the County:

1. Joint separation of any size shall require a low pressure air test following criteria set in the most current version of WSDOT Standard Specifications.
2. Joint deflection greater than the manufacturer's recommended maximum or county standards if applicable.
3. Cracked or damaged pipe, including liner pipe.
4. Debris in the line.
5. Identifiable sags or high points in the line greater than 1 inches in pipes 8" and larger.

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All other criteria as set by the County Standard Specification and/or special conditions shall apply for storm drain pipes. The Contractor will be notified in writing of any deficiencies revealed by the television inspection that will require repair. The Contractor may request a review of the video with the County. Upon completion of the required corrective actions, the storm drain will be re-televised in accordance with this Section. This process shall be repeated until the review of the recorded television inspection reveals a satisfactory installation.

The television inspection requirements shall include the provisions of:

1. A color CCTV camera with a pan and tilt capacity in order to view all main lines, lateral lines, and structures including channels.
2. A dye solution to be introduced in sufficient quantity to travel from the structure that is the highest point of inspection to the downstream terminus of the inspection limits. Red or purple dye shall be used for PVC pipe and green dye for ductile iron and concrete pipe.
3. A one-inch reference ball to be mounted to the camera in order to drag along the bottom of the pipe during the entire inspection procedure.
4. Linear measure references to be measured from the center of the beginning structure to the center of the next inline structure and include the direction of flow. The locations of lateral pipes and all distinctive pipe conditions shall be referenced to the centerline of the beginning structure. All structure references shall utilize the designated structure reference numbers shown on the plans.

The following television inspection information shall be provided to the County:

1. A clear color DVD which encompasses the limits of the project area and including all reference data as described herein. A recorded reference time and date for the start of each run shall also be indicated.
2. A written report shall be provided corresponding to the recorded inspection and including all reference data as described herein. The report shall consist of a written narrative of all distinctive pipe conditions including ponding areas in excess of 1/2 inch.