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**To:** All Development Community Members, Consultants and Development Design Professionals

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**Subject:** **Letter to Industry 11-26-12: Video Inspection Requirements for New Storm Drainage Infrastructure**

### Background

In the past 8 months, the Public Works Engineering and Street Maintenance Divisions have conducted approximately 40 Closed Circuit TV inspection surveys (CCTV) of thousands of linear feet of storm drainage piping on new developments. Defects in the storm drainage piping were found on nearly all of the systems inspected. Significant defects and/or failures requiring repairs in the storm drainage systems were found on approximately 40 percent of the projects inspected. Durham County and several other municipalities in the area require TV inspections of storm sewer prior to placing the systems into service. The County and other municipalities report a significant enough failure rate to cause concern and CCTV inspections are commonly required nationwide. In an effort to improve the quality and lifespan of new storm drainage systems constructed within and ultimately maintained by the City of Durham, the Department of Public Works will begin requiring CCTV inspections of all permitted storm drainage systems prior to acceptance by the City.

### Camera Inspection Requirements

Specifications & submittals: All CCTV inspections will be conducted in accordance with the National Association of Sewer Service Companies, Inc. (NASSCO) Pipeline Assessment Certification Program (PACP). Refer to the following sites for more information on CCTV requirements and specifications: [http://nassco.org/training\\_edu/te\\_pacp.html](http://nassco.org/training_edu/te_pacp.html) and [http://nassco.org/training\\_edu/te\\_macp.html](http://nassco.org/training_edu/te_macp.html). Certified assessment reports, repair recommendations and DVDs will be submitted to Public Works by the owner's engineer. Public Works will review the reports and recommendations and approve or revise recommended remedial action on piping, structures, backfill and street sections.

Storm drainage systems: CCTV of storm drainage systems will be conducted after subbase stone has been compacted and setup, just prior to placement of first lift of pavement surface, but not less than 30 days after installation and backfill to allow for consolidation and settlement of backfill material. CCTV of storm drainage systems will be required a second time, just prior to City acceptance of infrastructure, if more than one year

## **Letter to Industry 11-26-12: Video Inspection Requirements for New Sanitary Sewer and Storm Drainage Piping**

has elapsed between placement of first lift and final lift of pavement surface. For general repair reference on new reinforced concrete storm drainage piping, refer to the following document: [http://concrete-pipe.org/pdf/Post Install Inspect 081011.pdf](http://concrete-pipe.org/pdf/Post%20Install%20Inspect%20081011.pdf).

### **Timing and Implementation**

The requirements will take effect by January 1<sup>st</sup>, 2013 and will apply to all new construction and all construction currently in progress on which the final layer of pavement surface course has not been placed.