Work instruction:	Date Raised
High Pressure Water Jetting & Rodding	18/06/2012

Work Description

Process for unblocking drainage system

Instruction

1. Refer to W0001 & W0002.
2. Rodding is a quick and simple method to remove most first time blockages. Locate the drain line that is affected, you may need to feel with rod if manhole is full, push the rod down, connect extra 2m sections if required and push down the line. This will create pressure and suction when pushed in and out, the force will hopefully clear the blockage.
3. If rodding is unsuccessful, then high pressure water jetting with be required. The Sewer Jetting Code of Practice 2nd Edition must be followed.
4. Always carry out checks to jetting equipment prior to commencing works. Inspect hoses, jetter nozzles, pressure release valve and filters etc. Set up rigid barriers and cones to define the work area.
5. Once line blockage has been identified, always try to jet from a downstream MH position.
6. For any type of jetting work limit the time the nozzle is stationary for a maximum of 60 seconds.
7. Allow the hose to enter the drain and push into the blockage material, pull back the hose and the force of the jets will break up debris into small pieces to prevent re-blocking further downstream.
8. Do not allow the hose to enter the drain at excessive speeds, this may cause damage to bends, traps or gullies.
9. If a gully cannot be cleared by rodding, attempt to push the mini jetting hose against the back of the gully pot to feed through the hose before proceeding with jetting.
10. A summary of the maximum jetting pressures for different pipe materials is given in the table below.

Drain Material	Maximum pumping pressure (bar / psi)
Clay / Concrete / Asbestos cement	340/5000
Plastics	180/2600
Pitch Fibre	100/1500
Unknown Material	130/19000

Responsibilities

Drainage Investigation & Site Investigation Engineers

Key Objectives

To unblock the system to clear CCTV footage and serviceability of system
All in accordance with WRc – The Drain Repair Book – best practice manual for the inspection and repair of domestic and light industrial drains, 4th Edition
Sewer Jetting Code of Practice, 2nd Edition