

Appendix C – SOP for Jet Flushing 15-inch and Smaller Lines

JET FLUSHING 15" AND SMALLER LINES

The purpose of jet flushing is to clean the sanitary sewer lines of grease, roots, and other debris. Generally the lines are cleaned, by a two man crew, a basin at a time, starting at the top or highest point and working down toward the bottom of the basin. Lines are cleaned by shooting the jet nozzle up the line against the direction of flow and then pulling it back slowly to clean the line.

Personal Protective Equipement (PPE) Required

- Approved Safety Vest
- Safety Boots
- Gloves
- Eye protection

Equipment Check

- Prior to leaving shop check tools, supplies and equipment.
- Do a walk around of the jet flusher & check the tires lights & condition of the vehicle.
- Check that PPE is either on your person or in the truck.
- Verify on foreman's map area to cleaned
- Note any special instructions use of low pressure, roots present, blowback pr.
- Check water level of truck.

Drive to work assignment location

- Prior to driving, check mirrors and buckle up.
- Fill up water tank if required and make notation onto time card.

Jet Cleaning

- Put on PPE.

Crew member #1: Pulls truck close to downstream manhole.

Crew member #2: Gets out and directs driver in backing up truck to approximately 6 feet from manhole.

Crew member #1: Note any special instructions for this particular line: use of low pressure, roots present, blowback notifications, turn on vehicle safety lights and directional arrows.

Crew member #2: Set out safety cones or other direction devices if the situation warrants.

Crew member #1: Gets out, opens manhole using proper ergonomics, visually inspects manhole for defects and readies the truck for cleaning.

Collection SOPs

Crew member #2: Walks to upstream manhole with pick and cones, opens manhole using proper ergonomics, visually inspects manhole for defects and secure with cones. Do not leave open manhole unattended.

Crew member #1: Put manhole guide onto manhole to eliminate unnecessary wear of jet hose. Lower nozzle into line being cleaned, so that it is against the flow. Turn on pressure valve and pull on pump valve. Check to see if crew member #2 is at the upstream manhole. Use radio or hand signal to indicate you are about to start.

Crew member #2: Look for crew member #1 signal or radio call, and return signal or call.

Crew member #1: Upon receiving the go ahead from crew member #2, turn on water handle, pull out pump and hit switch to throttle up the pressure to approximately 1100psi. The jet nozzle should take off and start proceeding up the line. Look to Crew member #2 for a signal that the jet nozzle has reached the upper manhole.

Crew member #2: Wait for the nozzle to reach the manhole and signal back to crew member #1.

Crew member #1: Insert the grit catcher into the line and flip the switch to reverse to bring back the hose, traveling at no faster than 2 ft/sec.

Crew member #2: Close the manhole lid, pick up tools and walk back to truck.

Crew member #1: Once the hose is back, turn off the pressure valve and pump.

Crew member #2: Remove grit catcher and dump into bucket.

Crew member #1: Pull hose out of the line.

Crew member #2: Remove manhole guide and put into truck

Crew member #1: Put lid back onto manhole

Crew member #2: Pick up cones.

- Write down information onto crewcards, include observation notes.
- Get back into truck, turn off safety lights and directional arrows.
- Proceed to next line segment.
- Fill out repair form for any manholes needing repairs.
- Turn in crewcards and repair forms daily.