

Alimur Mobile Home Park  
4300 Soquel Drive  
Soquel CA 95073

08/24/2015

Mr. Rooter performed a thorough camera inspection of all the main drain lines throughout the entire mobile home park. Mr. Rooter was able to visually inspect the main drain line system for the whole park by use of different accessible clean outs positioned around the park. Below we have listed our findings and all recommendations for the Park's main drain line system listed in priority order.

### **Areas Requiring Repair**

#### **Laundry/recreation Room:**

Existing 4" ABS clean out access located behind the parks communal laundry/recreation room has excessive roots intruding the base of the clean out. The 4" ABS lateral line coming from the laundry/recreation building connecting into the existing clean out has a crack in the pipe (above ground) Mr. Rooter recommends hand digging down (approx. 3-4') to expose and replace the damaged clean out access with a new 4" ABS clean out and new sewer relief valve. Mr. Rooter recommends also replacing the cracked section of pipe with new 4" ABS and reconnecting into the new clean out.  
Estimated Cost \$ 5,900.00

#### **Space # 101A:**

Mr. Rooter discovered excessive roots intruding the main line approx. 44' from space number 101A's clean out access. The roots are intruding the pipe where it transitions from Asbestos Cement pipe into Terracotta Clay pipe. Our camera equipment will not pass this junction due to the heavy root obstruction, wherefore we are unable to properly inspect this section of line. Mr. Rooter recommends digging down approx. 8-9' with tractor to expose the damaged section of pipe and perform a spot repair. Once exposed Mr. Rooter will then attempt to camera inspect the remaining portion of the pipe to determine if a Trenchless replacement is necessary for this entire line. Estimated Cost: \$ 10,887.00

\*This price can only be valid if a tractor can access the area for exposure

\* Customer will need to have a separate company mark the under ground facilities in this location prior to excavation

### **Recommended Improvements**

#### **Space # 19:**

The drain line from the existing clean out for space # 19 going out to the parks 6" main line is old Orangeburg pipe that has become oval in shape. It is our recommendation that it be replaced with new Polyethylene pipe using our Trenchless system. This section of Orangeburg is approx. 25-30' in length.  
Estimated Cost \$ 6,900.00

#### **Space # 48:**

The drain line from the existing clean out for space # 48 going out to the parks 6" main line is old Orangeburg pipe that has become oval in shape. It is our recommendation that it be replaced with new Polyethylene pipe using our Trenchless system. This section of Orangeburg is approx. 15-25' in length.  
Estimated Cost \$ 6,900.00



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**The following Space numbers do not have a proper clean out accesses:**

216, 219, 220, 68, 73, 55, 44, 33, 36, 24, 26, 29, 18, 81, 90, 74, 98, 94, 104, 103, 101, 9, 11, 3, 4, 201, 205, 204, 232, 226, 235, 222, 213.

\* Mr. Rooter recommends installing proper and accessible clean out access with sewer relief valves at each of the spaces listed in order to provide proper accessibility to the main drain lines in the event of a back up. Based on our inspection of the park we believe a majority of these spaces will have a pre-existing 3" P-trap located on the sides of the mobile homes (below ground) Mr. Rooter will need to hand dig to expose the existing P-traps order to be remove and replaced each of them with a new 3" ABS clean out access.

Estimated Cost per 3" clean out access - \$ 410.00 (up to 5' in length)

Estimated Cost per 4" Clean out access - \$ 506.00 (up to 5' in length)

\* If there are existing P-traps discovered at any of the above space numbers Mr. Rooter will charge for a P-Trap installation rather than a Clean out installation (see below P-trap installations for pricing)

**Space numbers with old existing P-Traps:**

1, 4, 12, 103, 90, 91, 99, 97, 88, 86, 84, 89, 82, 78, 77, 76, 75, 72, 68B, 67, 66, 65, 221, 217, 52, 56, 58, 59, 60, 61, 44, 43, 45, 46, 49, 40, 39, 38, 35, 34, 30, 23, 22, 21, 17, 16, 15, 12

\* Upon evaluation of this spaces Mr. Rooter was able to visibly observe existing 3" cast iron P-Traps inside the risers located on the side of each mobile home. Mr. Rooter recommends hand digging down to expose and remove the old existing 3" cast iron P-traps replacing them with new 3" ABS clean out access and sewer relief valves.

\* P-trap removal pricing includes installation of a new proper clean out access for the site

Estimated Cost Per 2' deep P-trap Removal - \$ 659.00

Estimated Cost Per 3' Deep P-Trap Removal - \$ 819.00

Estimated Cost Per 5' Deep P-Trap Removal - \$ 1,070.00

\*\* The following P-Trap Estimates are given based on exposures in Dirt Only if concrete removal is necessary Mr. Rooter will charge an additional \$587.00 (Per site) for concrete removal/replacement

**Recommended Maintenance**

**Hydro Scrubbing:**

Mr. Rooter recommends a complete and thorough Hydro Scrub of all of the existing main line pipes throughout the entire park using our large trailer jetting machine (4000PSI). In order to perform a full hydro maintenance of all the parks main lines we will need to use our large trailer jetting machine from all of the parks accessible clean out accesses. The Hydro Scrub maintenance will help to eliminate the grease, debris and build up that accumulates with heavy use in the drain lines. Mr. Rooter will need to have two technicians on site in order to safely and effectively operate the necessary equipment from each of the mobile home parks accessible clean out accesses. Estimated Cost \$ \$ **3,352.00**



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**Mr. Rooter**  
PLUMBING

**Exclusions;**

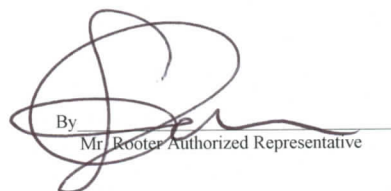
Should any potential footings, electrical, cable, water or gas lines or other utilities be discovered during excavation and need to be repaired, rerouted or jack hammered, they will be billed at a time and materials basis. This cost does not include any unforeseen adjustments to the work stated above.

**Terms:**

- All invoices are due and payable upon completion of job described above
- A service charge of 18.5% per annum will be competed on all amounts overdue
- All extra work not described above will be billed at \$165.00 per hour plus material & fuel
- Amount due in full upon final inspection and completion of all work

The above is mutually agreed to this \_\_\_\_\_ day of August, 2015

By \_\_\_\_\_  
Authorized Representative

By   
Mr. Rooter Authorized Representative



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