CITY OF MOLALLA

SMOKE TESTING REPORT

OCTOBER 2018

The Dyer Partnership Engineers & Planners, Inc.

Project No. 100.26

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City of Molalla

Clackamas County, Oregon

Smoke Testing Report

October 2018

Project No. 100.26

EXPIRES: 12/31/2018

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INTRODUCTION

SECTION 1: **INTRODUCTION**

1.1 General

Infiltration and inflow (I/I) is a problem affecting many Oregon communities. Infiltration and inflow, which is defined as groundwater and rainwater that enters a sanitary sewer collection system, creates many wastewater-related problems. Rain-induced sewer flows can hydraulically overload a wastewater treatment plant or pump station, increase the cost of operations, potentially cause a discharge of inadequately treated effluent, and lead to regulatory compliance issues. Infiltration and inflow can also cause flows to exceed the capacity of the pipes, thereby compromising the collection system.

1.2 Background and Need

The City of Molalla ('City') experiences higher sanitary sewer flows in "wet" weather months. Excessive infiltration and inflow overload the wastewater treatment facility, and contributes to violations at the wastewater treatment plant.

Smoke testing was performed to identify potential deficiencies allowing I/I into the collection system. Some of the sources of I/I that smoke testing identifies includes catch basins and roof drains tied to the sewer system, leaks in main and lateral sewer lines, leaky cleanouts, and deteriorated manholes. Correction of these I/I sources is an economical way to reduce extraneous flows within the collection system, reduce the operation and maintenance costs associated with treatment, and facilitate compliance at the wastewater treatment facility. Smoke testing the City's wastewater collection system is also a requirement of the Department of Environmental Quality.

1.3 Scope of Study

The scope of this study includes the following two main tasks: smoke testing and summary report.

Smoke Testing of the study area was completed to assist in identifying inflow sources. Detailed, individual reports were developed to document each "smoke sign". Each report includes a photograph of the observed smoke, a hand-drawn map of the location of the smoke, a written description of the source of the smoke, and other pertinent information. The ultimate and intended purpose of the smoke report is to assist the City in focusing on problem areas. Individual reports are attached in Appendix A.

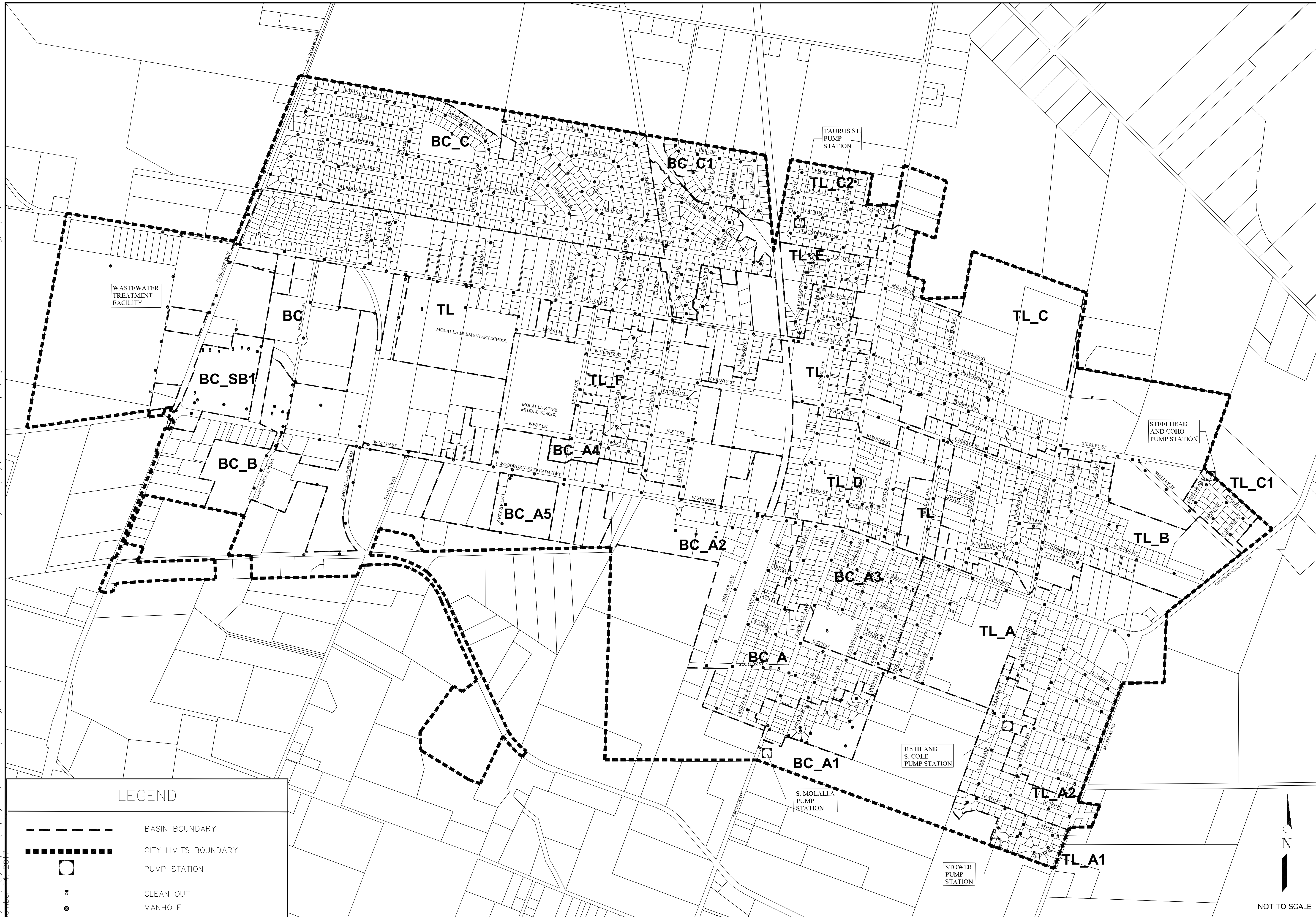
Summary and Recommendations were developed that identify the areas of that portion of the City's sewer collection system which need further investigation. The City should determine whether the individual defects are their responsibility or the responsibility of individual property owners, and create a plan to repair or rehabilitate each problem.

1.4 Study Area

The City's collection system is divided into two major basins; Toliver and Bear Creek. The Toliver Basin (TL) is located along Toliver Road, beginning from the WWTP, and includes the main trunk interceptor. The Bear Creek Basin (BC) originates at the WWTP, and follows Bear Creek until it intersects with Woodburn-Estacada Highway. The study area associated with the smoke testing includes all basins and sub-basins, as set forth in Table 1.4.1. Figure 1.4.1 illustrates the limits of the study area associated with the smoke testing.

TABLE 1.4.1
BASINS AND SUB BASINS SMOKE TESTED
CITY OF MOLALLA

Basin ID	
Toliver Basin	**Bear Creek Basin**
TL	BC
TL_Sub basins	BC_A
TL_A	*BC_A1*
TL_A1	*BC_A2*
TL_A2	*BC_A3*
TL_B	*BC_A4*
TL_C	*BC_A5*
TL_C1	BC_B
TL_C2	BC_C
TL_D	*BC_C1*
TL_E	
TL_F	



BC_C
BC_C1
TL_C2
TL_E
TAURUS ST. PUMP STATION
WASTEWATER TREATMENT FACILITY
BC
TL
MOLALLA ELEMENTARY SCHOOL
TL_C
BC_SB1
TL_F
TL
MOLALLA RIVER MIDDLE SCHOOL
STEELHEAD AND COHO PUMP STATION
BC_B
BC_A4
TL_D
TL_C1
BC_A5
TL
BC_A2
TL_B
BC_A3
TL_A
BC_A
E 5TH AND S. COLE PUMP STATION
BC_A1
S. MOLALLA PUMP STATION
TL_A2
TL_A1
STOWER PUMP STATION
LEGEND
BASIN BOUNDARY
CITY LIMITS BOUNDARY
PUMP STATION
CLEAN OUT
MANHOLE
N
NOT TO SCALE

FIGURE NO.
1.4.1

CITY OF MOLALLA
CLACKAMAS COUNTY, OREGON
SEWER BASIN MAP

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SECTION 2:

FIELD RESULTS

SECTION 2: **FIELD RESULTS**

2.1 Smoke Testing

Smoke testing was conducted from October 16 through October 18, 2017. The smoke testing was successful in identifying several possible sites of infiltration and inflow. Several catch basins are connected to the sewer system, which could introduce high flows into the collection system during wet weather conditions.

Table 2.1.1 lists the type and number of deficiencies that were indicated by the presence of smoke. Figure 2.1.1 illustrates the number and percentage of type of deficiency. Figures 2.1.2 and 2.1.3, located at the end of this section, are maps of the City's collection system, which show the sewer lines that were tested, the location of each deficiency discovered, and which manholes were smoked. Table 2.1.2 provides a reference to each of these individual deficiency reports according to the type of deficiency. A table of the smoke testing report number and its associated deficiency is included in Appendix A.

TABLE 2.1.1
NUMBER AND TYPE OF DEFICIENCIES

Type of Deficiency	Deficiency Code	Number of Issues
Leaking Service Lateral	LSL	19
Leaking Main Line	LML	2
Catch Basin	CB	26
Leaking Manhole	LMH	44
Open Cleanout	OCO	107
Plugged House Vent	PHV	1
Roof Drain	RD	9
	TOTAL DEFICIENCIES	**208**

FIGURE 2.1.1
SMOKE TESTING RESULTS SUMMARY
NUMBER OF VIOLATIONS BY TYPE

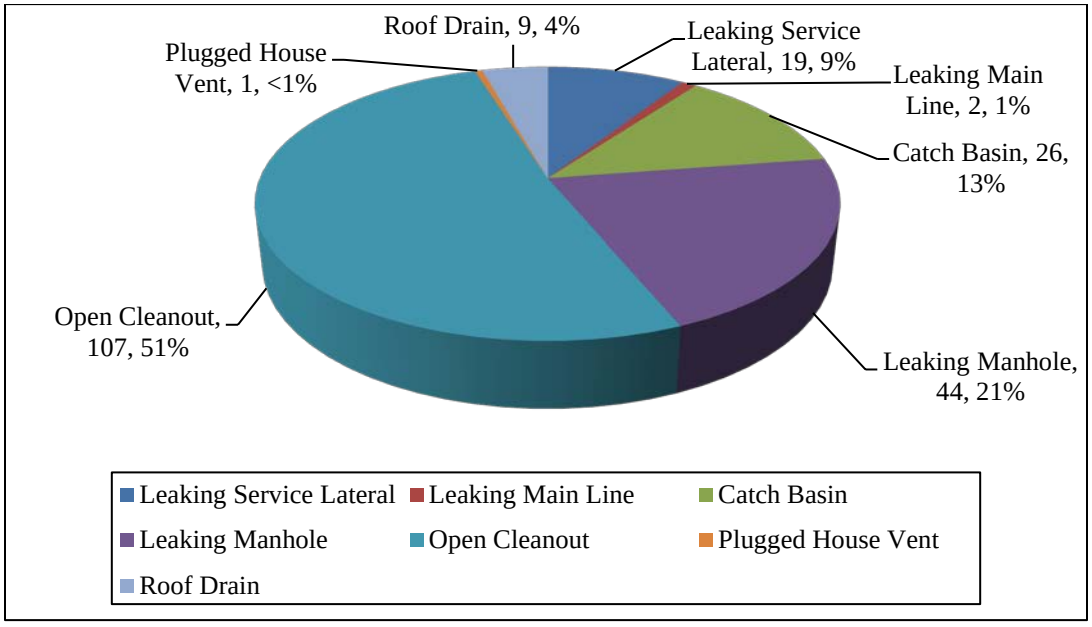


TABLE 2.1.2
REPORT NUMBERS ACCORDING TO DEFICIENCY TYPE[1]

Deficiency Type	Deficiency Code	Smoke Test Report Number			
Plugged House Vent	PHV	3-20			
Catch Basin	CB	1-14	1-33	2-1	2-17
		2-19	2-31	2-42	2-45
		2-57	2-59	2-61	3-16
		4-17	4-33	4-35	
Leaking Main Line	LML	1-25	2-47		
Roof Drain	RD	1-23	1-40	1-55	2-18
		2-36	3-40	4-12	4-22
		4-29			
Leaking Manhole	LMH	1-1	1-2	1-4	1-5
		1-16	1-19	1-20	1-21
		1-22	1-26	1-29	1-30
		1-39	2-3	2-6	2-14
		2-16	2-21	2-24	2-29
		2-34	2-35	3-1	3-2
		3-3	3-8	3-15	3-18
		3-23	3-26	3-32	3-34
		3-35	4-1	4-2	4-3
		4-4	4-5	4-9	4-13
		4-18	4-19	4-23	4-24
Leaking Service Lateral	LSL	1-11	1-28	1-32	1-38
		1-42	1-48	1-50	1-52
		2-2	2-13	2-15	2-39
		3-7	3-39	3-42	4-14
		4-26	4-31	4-34	
Open Clean Out	OCO	1-3	1-6	1-7	1-8
		1-9	1-10	1-12	1-13
		1-15	1-17	1-24	1-27
		1-31	1-32	1-34	1-35
		1-36	1-37	1-38	1-41
		1-43	1-44	1-45	1-46
		1-47	1-49	1-50	1-51
		1-53	1-54	2-4	2-5
		2-7	2-8	2-9	2-10
		2-11	2-12	2-20	2-22
		2-23	2-25	2-26	2-27
		2-28	2-30	2-32	2-33
		2-37	2-38	2-40	2-41
		2-43	2-44	2-46	2-48
		2-49	2-50	2-51	2-52
		2-53	2-54	2-55	2-56
		2-58	2-60	2-62	2-63

TABLE 2.1.2 (CONTINUED)
REPORT NUMBERS ACCORDING TO DEFICIENCY TYPE[1]

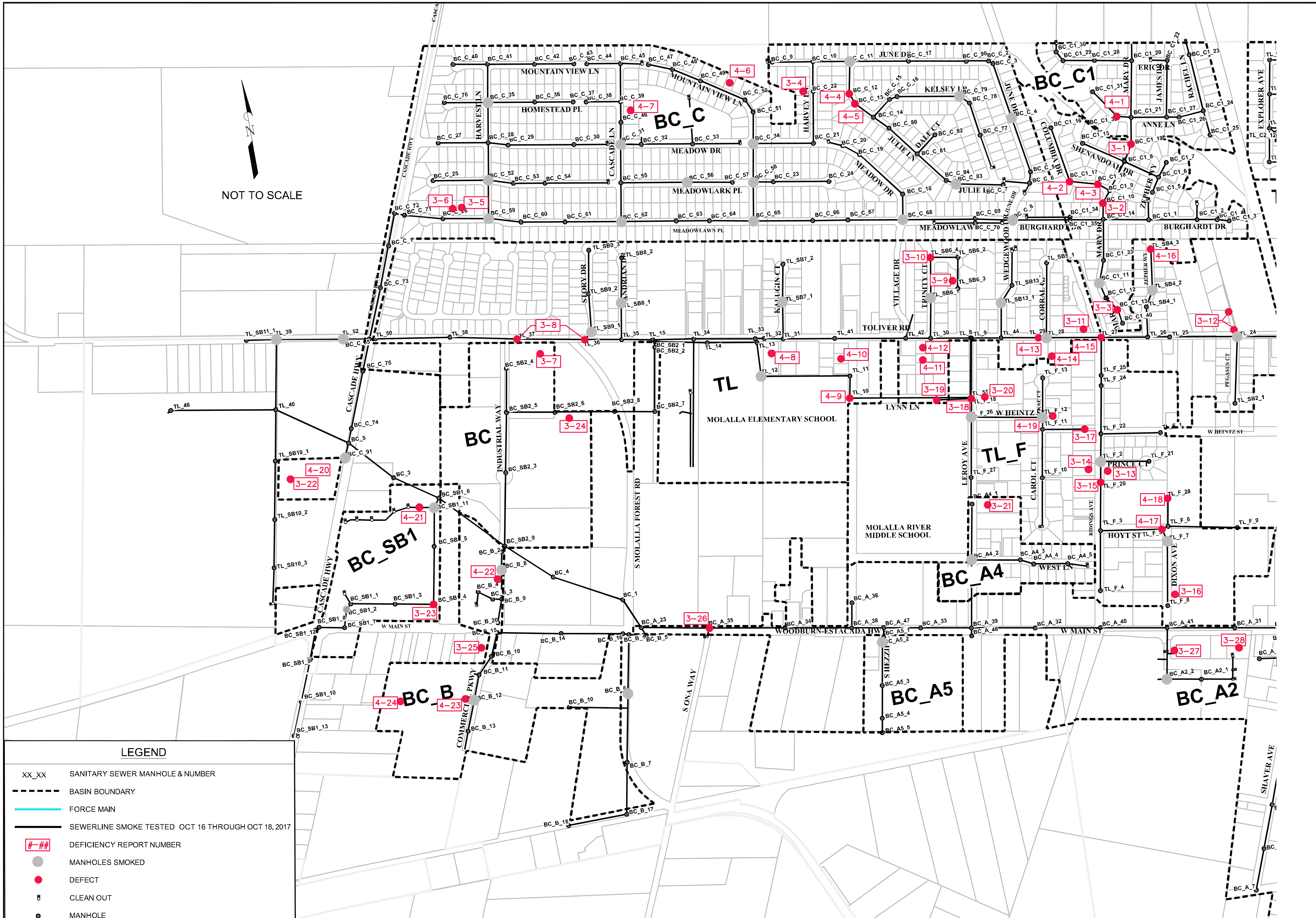
Deficiency Type	Deficiency Code	Smoke Test Report Number			
Open Clean Out	OCO	3-4	3-5	3-6	3-9
		3-10	3-11	3-12	3-13
		3-14	3-17	3-19	3-20
		3-21	3-22	3-24	3-25
		3-27	3-29	3-30	3-31
		3-33	3-36	3-37	3-38
		3-41	4-6	4-7	4-8
		4-10	4-11	4-15	4-16
		4-21	4-25	4-27	4-28
		4-30	4-32	4-36	

1. Some smoke reports included multiple deficiencies.

Other deficiencies, outside of the above categories, are summarized below:

- 1-18. Smoke was exiting from a communication box located in front of telephone pedestal #127.
- 3-28. Smoke was exiting from a vault in the parking lot west of car wash.
- 4-20. Floor drains at Les Schwab Tire Center were connected to the gravity sewer.

\\dyer2\H\dyer-part\AAprojects\100.00 Engineering, Misc\100.26 PDG - Molalla WW Fac & Coll Syst MP\dwg\Smoke Test Maps\100.26 Smoke Test Results.dwg, 11/10/2017 1:58:01 PM PLOT DATE November 10, 2017



NOT TO SCALE
N
BC_C
BC_C1
TL
BC
TL_F
BC_SB1
BC_A4
BC_B
BC_A5
BC_A2
MOUNTAIN VIEW LN
HOMESTEAD PL
MEADOW DR
MEADOWLARK PL
MEADOWLAWN PL
KELSEY LP
JUNE DR
JULIE LN
BURGHARDT DR
TOLIVER RD
LYNN LN
W HEINTZ ST
PRINCE CT
HOYT ST
WEST LN
W MAIN ST
WOODBURN-ESTACADA HWY
CASCADE HWY
INDUSTRIAL WAY
S MOLALLA FOREST RD
S ONA WAY
MOLALLA ELEMENTARY SCHOOL
MOLALLA RIVER MIDDLE SCHOOL
LEGEND
XX_XX SANITARY SEWER MANHOLE & NUMBER
BASIN BOUNDARY
FORCE MAIN
SEWERLINE SMOKE TESTED OCT 16 THROUGH OCT 18, 2017
#-## DEFICIENCY REPORT NUMBER
MANHOLES SMOKED
DEFECT
CLEAN OUT
MANHOLE

FIGURE NO. 2.1.2

CITY OF MOLALLA
CLACKAMAS COUNTY, OREGON

SMOKE TESTING MAP

THE DYER PARTNERSHIP
ENGINEERS & PLANNERS

DATE: OCTOBER, 2017

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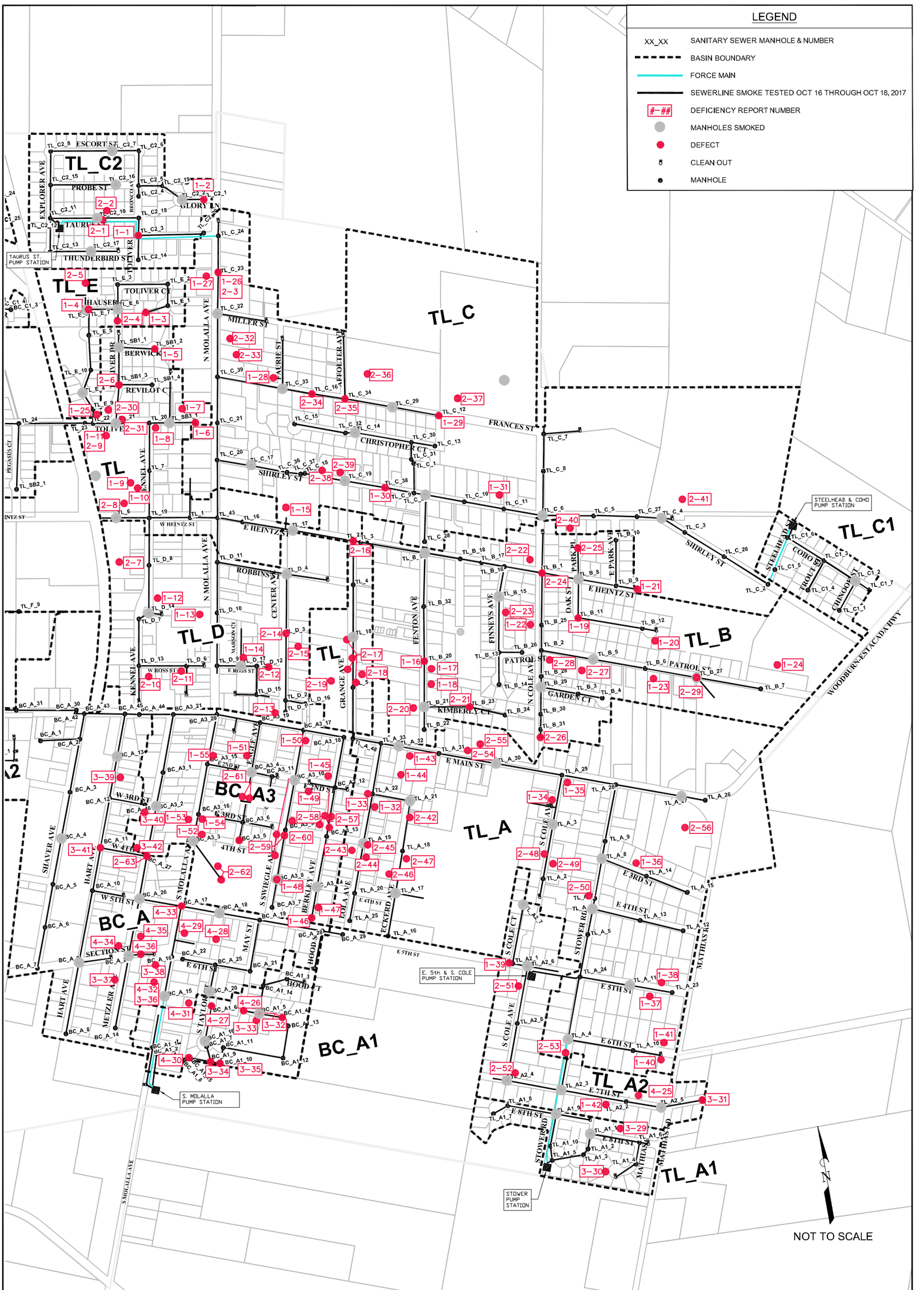


THE DYER PARTNERSHIP ENGINEERS & PLANNERS DATE: OCTOBER, 2017 PROJECT NO.: 100.26	**CITY OF MOLALLA** **CLACKAMAS COUNTY, OREGON** **SMOKE TESTING MAP**	FIGURE NO. **2.1.3**

SECTION 3:

POTENTIAL DEFICIENCIES

SECTION 3: **POTENTIAL DEFICIENCIES**

3.1 Major Line Failures

Failed lines can be described as having any of the following problems, many of which may be identified during television inspection.

- Blockages, collapses, or corroded pipes.
- Material degradation due to hydrogen sulfide gas.
- Joint gaskets exposed or missing.
- Large or multiple areas with earth exposure.
- Cross connections to storm drain infrastructure.
- Major joint or crack infiltration.
- Excessive settlement or sags such that the crown of the pipe deflects below the invert of upper and lower pipeline sections (submerged flow conditions).

3.2 Spot Failures

Spot failures can typically be characterized as a localized break, crack, or failure in a pipe section. The failures can come in the form of circumferential cracks, holes in the pipe walls, areas of minor root intrusion, chipped and broken pipe joints, and displaced or gapped joints. Many of these types of failures can be identified during television inspection of the main lines.

3.3 Leaky Service Laterals

As is the case with aging collection systems, many service laterals within the collection system contribute to the I/I problem. More often, utilities and regulatory agencies recognize the need to combat I/I in a holistic approach that addresses both public collection system components and private sources. The privately owned portions of the sewer system have the potential to contribute significantly to I/I flows. In some cities, it is estimated that as much as 60% of the I/I flows originate from service laterals (US Environmental Protection Agency, 1996). According to a 2015 Water Environment Federation (WEF) I/I survey, 31% of the respondents noted private I/I sources contributing 50 to 75% of the I/I, and 36% of the respondents contributing 20 to 50%. As a relatively local example, the City of McMinnville, Oregon estimates that approximately 60% of the City's I/I originates from their private sewer laterals.

Many communities throughout Oregon have recognized the need to address private sewer lateral I/I. The cities of Lebanon, McMinnville, Albany, and Mt. Angel, many of which were faced with similar sewer and WWTP capacity issues, all developed programs geared towards identifying and repairing defective private sewer laterals.

If the time of television inspection is correctly chosen, leaking laterals can clearly be identified. In order for this to occur, the collection system must not be surcharged, but high groundwater levels must be present. For Molalla, 9% of deficiencies were leaking service laterals.

Service laterals with leakage can, and should be, replaced from the connection to the main line, to the edge of the right-of-way during pipe reconstruction and rehabilitation. The City should work with private property owners to provide technical and other assistance to repair or replace private laterals. In many cases, the lateral connection can be deteriorating or failed. Improperly installed lateral connections include protruding lateral taps that extend far into the pipe cross section. In many cases, the protruding tap acts like a dam, trapping solids behind it. The protruding taps also make it troublesome or impossible to get an inspection camera or cleaning head through a sewer line.

Associated with service laterals are cleanouts that may be installed between the dwelling or structure and the main sewer line. Cleanouts can act as area drains if the caps are not properly installed. For Molalla, 51% of deficiencies noted were due to open cleanouts.

3.4 Leaky Manholes

Although not a part of this task, all manholes should be inspected to determine if leaks are present in incoming pipes, manhole bases, or other locations. Significant leaks can occur at pipe entrances if not properly grouted. As with service laterals, whenever a major improvement is proposed for a sewer line, the manholes on either side should be replaced or rehabilitated as necessary. In some cases, it is possible to effectively repair manholes using grouting or lining techniques. Leaky manholes can be rehabilitated for a fraction of the cost of a new manhole. In Molalla, forty-four manholes were found to be leaking.

3.5 Storm and Roof Drain Connections

As with any gravity sewer system, potential exists for interconnection of catch basins, ditching and storm drain piping with the sewer system. These storm drain connections can cause significant flows into the sewer system and can easily exceed capacities of the gravity sewer system. Depending on location and topography, the removal of the storm drain connection may entail placement of new storm drain lines to maintain drainages. Twenty-six catch basins and nine roof drains did show some type of interconnection with the gravity sewer system in the study area.

3.6 Deficient House Plumbing

Smoke from rooftop vents is normal and allows harmful sewer gasses to release outside rather than within structures. Occasionally a vent will be plugged or blocked allowing sewer gasses to escape within a structure. Smoke should not enter structures unless:

- Vents connected to the building's sewer pipe are inadequate, defective, or improperly installed.
- Traps under sinks, tubs, basins, showers, and other drains are dry, defective, improperly installed, or missing.
- Pipes, connections, and seals of the wastewater drain system in and under building are damaged, defective, or are improperly installed.

The most common defects allowing smoke into buildings are dry traps for wash basins, showers, or tubs that are used infrequently. Smoke was discovered inside some structures, and one structure was noted as having a plugged house vent where smoke did not exit the rooftop vent.

SECTION 4:

ALTERNATIVES

SECTION 4: **ALTERNATIVES**

4.1 General

Until recently, infiltration in sewer collection systems was either ignored or the piping systems were completely replaced in order to correct infiltration problems. Today, new "trenchless technologies" allow collection systems to be rehabilitated without excavating to replace the old pipe. Expenses associated with new asphalt, sidewalks, landscaping, and other costs resulting from trenching can be almost completely avoided. If applicable, trenchless technology can almost always reduce project costs when rehabilitating sewer collection systems. A summary of different repair and rehabilitation techniques is provided below.

4.2 Collection System Repair and Rehabilitation Methods

Repair and rehabilitation methods to correct pipe deficiencies and minimize I/I intrusion are discussed below.

Complete Pipe Replacement

Pipeline replacement by conventional excavation and backfill is normally required when the existing pipeline is deteriorated so badly that other methods of rehabilitation are not feasible. However, complete replacement provides the opportunity to correct any misalignments or low areas, increase the hydraulic capacity of the line, repair service connections, or eliminate storm water entry points such as catch basins. Replacing pipelines can also remove any "incidental" I/I (i.e. minor leaks that would not individually be cost-effective to remove). A rehabilitation alternative that is similar to complete pipe replacement is point repairs, which involve excavation, pipe replacement, backfill and resurfacing for selected sections only.

The obvious advantage of pipe replacement is that the service life gained with modern materials and methods is generally considered to be more than 50 years. The cost of pipe replacement is generally high, and the associated inconveniences and restoration required are expensive.

Another advantage associated with complete pipe replacement is the fact that the I/I along a replaced pipe segment should be significantly reduced; however, it is important to note that a large percentage of I/I will continue to originate from service laterals or other aboveground sources. It is therefore recommended that wherever feasible, complete service replacement to the property line be included in a replacement project.

There are a number of techniques for installing new sewer pipe, including the traditional open cut construction, and trenchless techniques (e.g. horizontal directional drilling (HDD)) and pipe bursting). Some of the key criteria for selecting a method for new pipe installation are given in Table 4.2.1.

TABLE 4.2.1
KEY CRITERIA FOR NEW PIPE INSTALLATION

Criteria	Potential Factors
Surface Conditions	Type (paved/unpaved), traffic use, land use (urban/rural), type (forest, water, etc.).
Cost	Pipe installation, surface restoration, subsurface difficulties
Environmental Considerations	Wetlands, critical habitat, migratory route
Subsurface Conditions	Installation depth, groundwater level, soil type, existing utilities
Hydraulics	Gravity vs. pressure flow, needed flow capacity, existing grades

Typically, the decision process will involve weighing the advantages of avoiding surface disruption against the costs. Surface conditions, depth of installation, subsurface conditions and environmental considerations also will affect the cost analysis. The evaluation and weighing criteria for choosing a particular construction technique will depend on specific site conditions. Brief descriptions of open cut, pipe bursting and HDD construction techniques are given below.

Open Trench Construction
Open trench construction consists of excavating an open trench in the ground for pipe installation. Typically, the width of the trench is at least 12 inches greater than the pipe diameter. While the trench depth will depend upon the specific application (e.g. force main versus gravity sewer), the cover depth over the pipe is generally at least three feet.

Open trench construction is traditionally used in most new sewer pipe installations because of cost considerations and availability of local contractors and crews to perform the work. The disadvantages of open trench construction include trench shoring requirements for trenches over five feet in depth or where soils are unstable, dewatering of the trench when high groundwater is present, and increased cost and complexity with deep excavations.

Horizontal Directional Drilling (HDD)
In horizontal directional drilling methods, a pilot bore is first made using a controllable drilling head. Once a hole is drilled from the entry point to the terminus, a new pipe is "towed" back through the bore hole behind the drill head on the return trip from the terminus to the entry point. While drift control within a few inches is available using electromagnetic tracking systems, this method cannot be used for minimum grade gravity sewer lines. Most projects utilize high-density polyethylene (HDPE) or fusible PVC for new line installations. The advantages of this construction technique include minimal impact to the surface conditions and ability to install pipe under adverse subsurface conditions (e.g. high groundwater). The disadvantages of horizontal directional drilling include cost (typically from 3 to 5 times greater than open trench construction), inability to construct minimum grade sewers, and difficulty in dealing with subsurface conditions containing boulders and cobbles. Environmental issues might potentially exist as well in that pressurized drilling fluids can fracture the soil surrounding the bore and migrate to the surface at undesirable locations.

Pipe Bursting
Pipe bursting is a trenchless replacement method that is used in certain circumstances to replace failed pipe or when upsizing of a pipe section is required. Pipe bursting consists of a hydraulically activated cutting head that is pushed or pulled through the inside of the old pipe to be replaced, breaking it up, and forcing the broken fragments into the surrounding ground. The cutting head tows a new pipeline behind it that is simultaneously installed in place as the head bursts the old line. The cutting head has a slightly larger outside diameter than the new pipe and is bigger than the inside diameter of the old pipe. Depending upon the size of the cutting head, new pipes of the same size or up to almost twice the original size can be installed. For example, an existing 8-inch diameter concrete sewer pipe can be replaced with a 15-inch diameter HDPE pipe utilizing pipe bursting technology.

The advantage of pipe bursting is the minimization of trenching and surface restoration. Pipe bursting, however, is generally not used if congestion underground is a question or if the existing pipeline is not of a brittle nature (e.g. clay, concrete, asbestos-cement pipe). In addition, this technique has major noise and vibration problems and is somewhat uneconomical if a number of laterals must be reconnected. Pipe bursting of AC pipe is also a concern as this process converts "non-friable" asbestos material in an intact AC sewer main to a friable one. While pipe bursting is performed underground with limited construction exposure, the shattered pipe material may be exposed during the installation of new sewer laterals or connections.

Summary
Among the complete pipe replacement techniques listed above, open trench construction is considered the preferred method for the replacement of existing sewer pipes. This construction technique is the most common means of constructing new sewers and is familiar to local contractors. Horizontal directional drilling and pipe bursting may be warranted and would be considered if pipe replacement was needed in an area with a deep sewer line and/or in areas where surface disturbance should be minimized.

Trenchless Pipe Rehabilitation Methods

Cured in Place Pipe
Cured in place pipe (CIPP) is best described as "manufacturing a new pipe within an existing pipe". A CIPP installation uses a plastic-lined felt bag that has been impregnated with resins. The impregnated bag is inverted (turned inside out) allowing the plastic exterior to be turned inward. Two methods are commonly used to cure the liner. The inner space is either filled with pressurized water or with air as the inverted bag is oriented into the existing pipe. The pressurized water or air drives the bag's inversion until the entire section of liner has been turned inside out and the end has been retrieved at the downstream manhole. The water or air pressure forces the resin material against the existing sewer pipe. Then heated water or steam is continuously pumped through the tube, causing the resins in the bag to cure and harden.

The use of CIPP lining is appropriate for pipelines requiring minor structural repair, sealing holes, leaky joints, leaky misalignments, and for correcting corrosion problems. Because this method of rehabilitation does not require excavations, it may be used under highways, railroads, and buildings. Service lateral connections are typically made with special cutters and sealers from inside the pipe. Laterals are sometimes physically reconnected in a manner similar to a spot repair. This is done with specific types of lateral saddles. If properly completed, the life of an inversion-lined pipe has been claimed by several lining manufacturers to be more than 50 years. Due to frictional factors of the lining, the hydraulic capacity of the pipe is increased.

Chemical Grouting
Chemical grouting is commonly used to seal leaking joints in structurally sound pipe, laterals, and manholes experiencing infiltration. Typical applications consist of two separate chemicals that are pumped through separate hoses to the joint, crack or manhole being sealed. Once the two chemicals are mixed together they form a gel or foam that expands out through the defect and into the surrounding earth.

The equipment used for chemical grouting of pipelines includes a joint or lateral packer and television (TV) camera. The entire assembly is pulled inside the sewer pipe with cables and winches. Chemical feed lines are extended from the supply tanks to the packer unit. Chemical injection is performed internally, using robotic equipment without requiring man entry or excavations unless unique problems develop.

Since manholes are a major component of the collection system, it is often desirable to enhance the grout rehabilitation method by applying an interior coating. This coating increases the effectiveness of a grout repair by providing an interior seal that will last beyond the expected grout life. Successful manhole coatings include cementitious linings, polyethylene linings, epoxy coatings, and cured-in-place fiberglass lining systems.

Chemical grouting does not improve the structural strength of a pipeline; therefore this method of rehabilitation should not be used on pipes that are badly broken or deteriorated. If the groundwater table drops below the level of the pipe, the chemical grout may become dehydrated and its useful life will be shortened. Also, many chemical grouts do not have shear strength and will tear or fracture if a load is

applied to the surrounding earth. When used appropriately, rehabilitation by chemical grouting should serve a useful life of at least ten years.

Internal Spot Repairs
There are a number of highly effective methods for performing internal spot repairs without requiring excavations. Two methods commonly utilized are Link-Pipe (stainless sleeve) and ambient cured soft liners. Each method has unique advantages.

Link-Pipe is a stainless steel grouting sleeve that is used to accomplish small spot repairs within a sewer line; these sleeves come in a variety of lengths—12, 18, 24 and 36 inches—and diameters ranging between 4 and 36 inches. Link-Pipe can be used to restore partially collapsed pipes, close holes created by material loss in pipe walls, and seal infiltrating cracked pipes and pipe joints. This method of rehabilitation requires no trenching and can be performed without bypassing water.

A Link-Pipe installation involves the placement of a grouting sleeve inside the damaged portion of a sewer line. This grouting sleeve is of stainless steel construction and is surrounded by a grout-absorbing gasket. The sleeve is moved into position on a wheeled flow-through plug; a video camera is used to monitor the positioning of the grout sleeve. Once in place, compressed air is used to inflate the plug, which in turn compresses the gasket against the walls of the sewer line. The repair is completed when the flow-through plug is fully inflated, the gasket has adhered to the wall, and the Link-Pipe's internal locks have engaged.

This method of rehabilitation creates a smooth stainless steel channel that supports damaged pipe and may actually improve the hydraulic properties of the existing line. Manufacturers of the stainless steel sleeve indicate a substantially long service life and guarantee 100 percent infiltration reduction. This guarantee, however, does not account for other sources or leaks associated with service laterals.

The second method of performing an internal spot repair commonly utilized is to install an ambient cure soft-liner. This type of liner is very similar to CIPP except that the liner does not require an inversion system and the resin does not require an external heat source to harden. Spot repair liners are especially applicable when a section of pipe requires a repair over a few feet in length. Another advantage of an ambient cure liner is that it can be used to repair laterals with or without having to excavate at the mainline connection.

Summary
Among the trenchless pipe rehabilitation methods described above, cured in place pipe (CIPP) is considered the preferred method for the rehabilitation of existing sewer pipes that have various defects throughout the entire length of pipe. Chemical grouting and internal spot repairs may be warranted and would be considered if the defects were isolated to a particular area within a pipe segment. Trenchless pipe rehabilitation method construction techniques are specialized and require the use of special equipment.

SECTION 5:

SUMMARY

SECTION 5: **SUMMARY**

5.1 Smoke Testing Summary

The smoke testing identified a number of deficiencies that need to be addressed. The City of Molalla's collection system and wastewater treatment facility is hydraulically overloaded. Eliminating infiltration and inflow is necessary to release capacity, within the collection system and at the wastewater treatment facility, trapped by infiltration and inflow.

The City of Molalla should return to each site using the reports to determine what measures must be taken to repair or rehabilitate each problem that is allowing smoke to escape the collection system. Some of the repairs can be fairly easy to correct, such as leaky cleanouts, while others such as catch basins, may require more extensive efforts to reroute flows to nearby drainages. Some of the deficiencies may also require additional television inspection to see the extent of deterioration of sewer main lines, sewer laterals, and lateral connections.

In some cases, the problem is located within the public right-of-way and should be repaired or rehabilitated by the City. In other cases, the deficiency is located on private property and the private property owner should be required to address and repair the problem. It is recommended that letters be sent to all private property owners where deficiencies were noted. A sample letter is provided in Appendix B.

APPENDICES

APPENDIX A: SMOKE TEST REPORTS

City of Molalla
Smoke Testing Report Summary
Project 100.26

Smoke Test Report Number	Deficiency Type
1-1	LMH
1-2	LMH
1-3	OCO
1-4	LMH
1-5	LMH
1-6	OCO
1-7	OCO
1-8	OCO
1-9	OCO
1-10	OCO
1-11	LSL
1-12	OCO
1-13	OCO
1-14	CB
1-15	OCO
1-16	LMH
1-17	OCO
1-18	Communication Box
1-19	LMH
1-20	LMH
1-21	LMH
1-22	LMH
1-23	RD
1-24	OCO
1-25	LML
1-26	LMH
1-27	OCO
1-28	LSL
1-29	LMH
1-30	LMH
1-31	OCO
1-32	OCO / LSL
1-33	CB
1-34	OCO
1-35	OCO
1-36	OCO
1-37	OCO
1-38	OCO / LSL
1-39	LMH
1-40	RD
1-41	OCO
1-42	LSL
1-43	OCO
1-44	OCO
1-45	OCO
1-46	OCO
1-47	OCO
1-48	LSL
1-49	OCO
1-50	OCO / LSL
1-51	OCO
1-52	LSL
1-53	OCO
1-54	OCO
1-55	RD

Smoke Test Report Number	Deficiency Type
2-1	CB
2-2	LSL
2-3	LMH
2-4	OCO
2-5	OCO
2-6	LMH
2-7	OCO
2-8	OCO
2-9	OCO
2-10	OCO
2-11	OCO
2-12	OCO
2-13	LSL
2-14	LMH
2-15	LSL
2-16	LMH
2-17	CB
2-18	RD
2-19	CB
2-20	OCO
2-21	LMH
2-22	OCO
2-23	OCO
2-24	LMH
2-25	OCO
2-26	OCO
2-27	OCO
2-28	OCO
2-29	LMH
2-30	OCO
2-31	CB
2-32	OCO
2-33	OCO
2-34	LMH
2-35	LMH
2-36	RD
2-37	OCO
2-38	OCO
2-39	LSL
2-40	OCO
2-41	OCO
2-42	CB
2-43	OCO
2-44	OCO
2-45	CB
2-46	OCO
2-47	LML
2-48	OCO
2-49	OCO
2-50	OCO
2-51	OCO
2-52	OCO
2-53	OCO
2-54	OCO
2-55	OCO
2-56	OCO
2-57	CB
2-58	OCO
2-59	CB
2-60	OCO
2-61	CB
2-62	OCO
2-63	OCO

Smoke Test Report Number	Deficiency Type
3-1	LMH
3-2	LMH
3-3	LMH
3-4	OCO
3-5	OCO
3-6	OCO
3-7	LSL
3-8	LMH
3-9	OCO
3-10	OCO
3-11	OCO
3-12	OCO
3-13	OCO
3-14	OCO
3-15	LMH
3-16	CB
3-17	OCO
3-18	LMH
3-19	OCO
3-20	OCO
3-21	OCO
3-22	OCO
3-23	LMH
3-24	OCO
3-25	OCO
3-26	LMH
3-27	OCO
3-28	Leaking Vault
3-29	OCO
3-30	OCO
3-31	OCO
3-32	LMH
3-33	OCO
3-34	LMH
3-35	LMH
3-36	OCO
3-37	OCO
3-38	OCO
3-39	LSL
3-40	RD
3-41	OCO
3-42	LSL

Smoke Test Report Number	Deficiency Type
4-1	LMH
4-2	LMH
4-3	LMH
4-4	LMH
4-5	LMH
4-6	OCO
4-7	OCO
4-8	OCO
4-9	LMH
4-10	OCO
4-11	OCO
4-12	RD
4-13	LMH
4-14	LSL
4-15	OCO
4-16	OCO
4-17	CB
4-18	LMH
4-19	LMH
4-20	Floor Drains
4-21	OCO
4-22	RD
4-23	LMH
4-24	LMH
4-25	OCO
4-26	LSL
4-27	OCO
4-28	OCO
4-29	RD
4-30	OCO
4-31	LSL
4-32	OCO
4-33	CB
4-34	LSL
4-35	CB
4-36	OCO

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Intersection of Thunderbird St & Bronco Ave.	
Project Name :		Location / Address:	
100.26	1-1	TL_C2	MH TL_C2_3
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	LMH
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming from around the ring and the cracks in the road next to the manhole.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Glory Lane	
Project Name :		Location / Address:	
100.26	1-2	TL_C2	MH TL_C2_1
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LMH
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from around the ring and the cracks in the road next to the manhole.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Toliver Court	
Project Name :		Location / Address:	
100.26	1-3	TL_E	C/O – TL_E_1
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Located in concrete driveway for 120 Toliver Ct.
- Smoke coming from cleanout cap, Did not open to verify actual issue
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Hauser Court	
Project Name :		Location / Address:	
100.26	1-4	TL_E	TL_E_7
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LMH
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from crack in road next to the manhole
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Berwick Court	
Project Name :		Location / Address:	
100.26	1-5	TL	TL_SB1_2
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LMH
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from around the rim of the manhole
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Toliver Rd.	
Project Name :		Location / Address:	
100.26	1-6	TL	C/O - TL_SB3_1
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from around the rim of the cleanout
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		103 Toliver Rd.	
Project Name :		Location / Address:	
100.26	1-7	TL	C/O - TL_SB3_1
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from behind wooden fence, could not gain access to verify issue
- There was an exposed section of PVC pipe at the fence.
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Intersection of Toliver Rd & Kennel Ave	
Project Name :		Location / Address:	
100.26	1-8	TL	TL_20 - TL_SB3_1
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	CB
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from catch basin.
- Looking east on Toliver Rd from Kennel Ave.
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

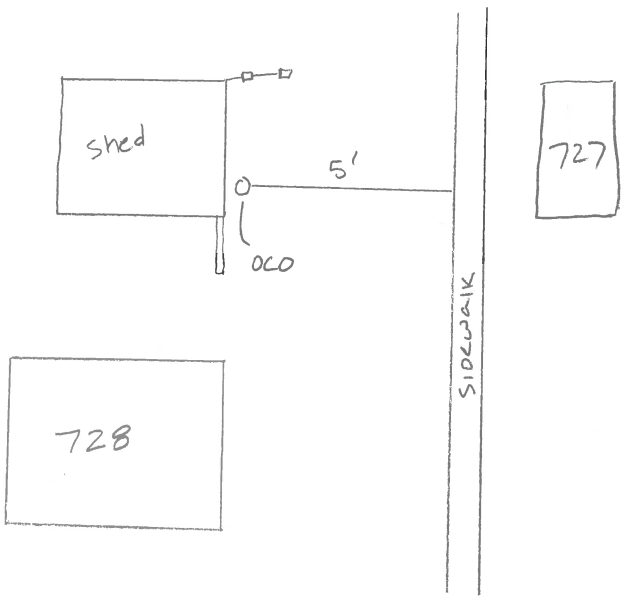
Molalla I/I Study		205 W. Heintz St Unit #728	
Project Name :		Location / Address:	
100.26	1-9	TL	TL_21 - TL_22
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Located at Unit #728 of Twin Firs Mobile Home Park
- Smoke coming from open cleanout, located behind the shed
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		205 W. Heintz St Unit #723	
Project Name :		Location / Address:	
100.26	1-10	TL	TL_21 - TL_22
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO - overall
CB	=	Catch Basin	2	OCO – open c/o behind the shed
LMH	=	Leaking Manhole	3	OCO – broken cap on c/o next to shed
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Located at Unit #723 of Twin Firs Mobile Home Park
- Smoke coming from open cleanout, located behind the shed
- Smoke coming out of broken cleanout cap on the side of the shed
-
-

SKETCH

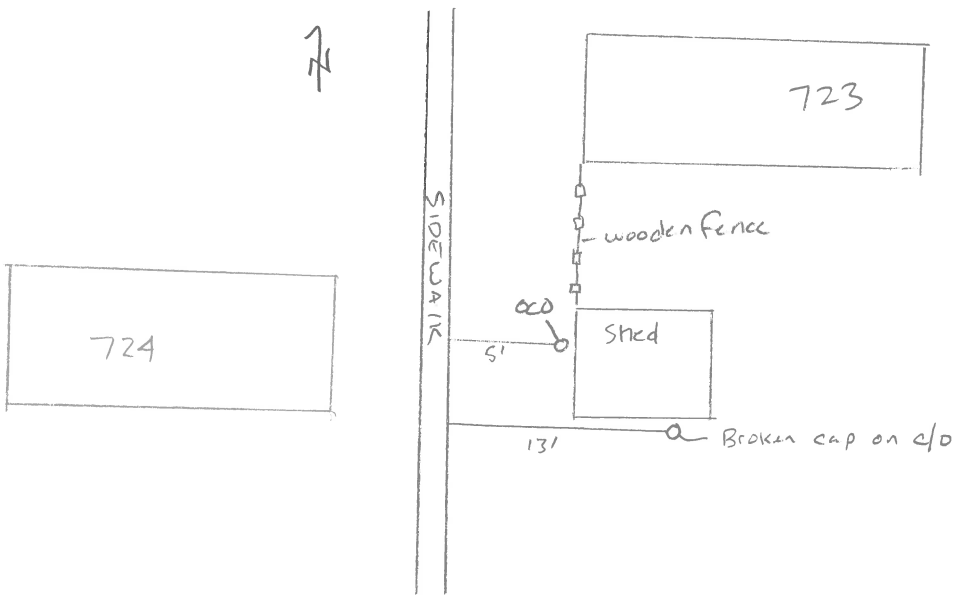
1.

2.


723
10 16 2017 11:41

3.


723
10 16 2017 11:41


N
723
724
SIDEWALK
KENNEL AVE
wooden fence
OCD
5'
Shed
131
Broken cap on c/o

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

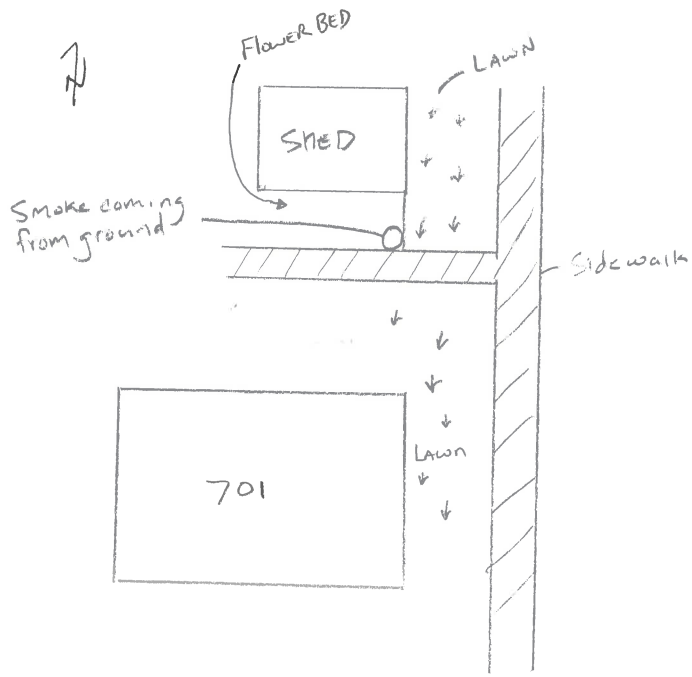
Molalla I/I Study		205 W. Heintz St Unit #701	
Project Name :		Location / Address:	
100.26	1-11	TL	TL_21 - TL_22
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LSL
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Located at Unit #701 of Twin Firs Mobile Home Park
- Smoke coming from ground in the flower bed, next the shed.
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

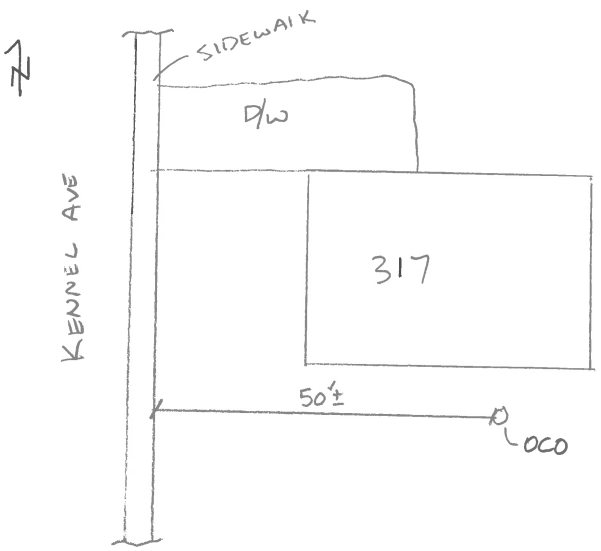
Molalla I/I Study		317 Kennel Ave	
Project Name :		Location / Address:	
100.26	1-12	TL_D	TL_D_8 - TL_D_14
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from open cleanout
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

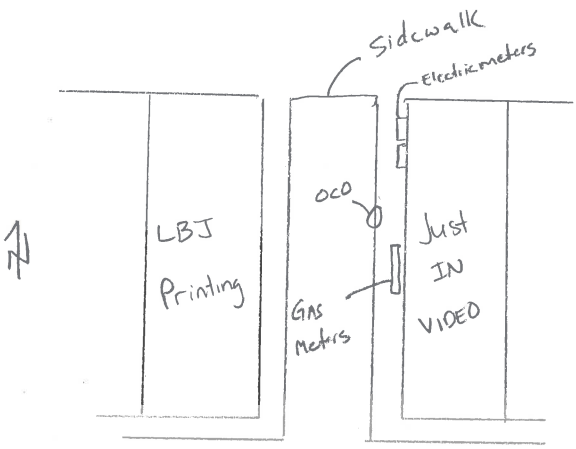
Molalla I/I Study		270 N. Molalla Ave	
Project Name :		Location / Address:	
100.26	1-13	TL_D	TL_D_8 - TL_D_14
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from cleanout cap,
- Located in the sidewalk along the west wall of building 270 N. Molalla (Just In video)
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

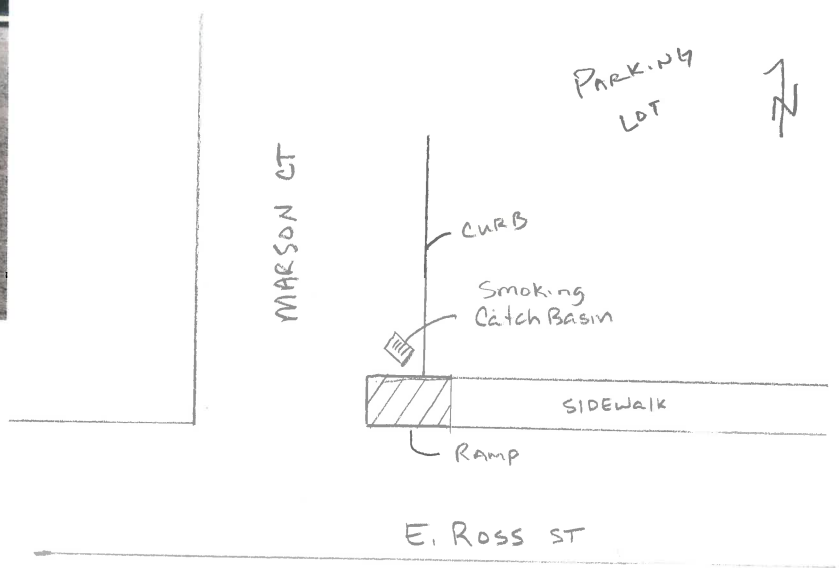
Molalla I/I Study		Intersection of Marson Ct. & East Ross Street	
Project Name :		Location / Address:	
100.26	1-14	TL_D	TL_D_17
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	CB
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming from catch basin
- Located in the northeast corner of intersection of E. Ross Street & Marson Court, on the north side of the asphalt ramp.
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

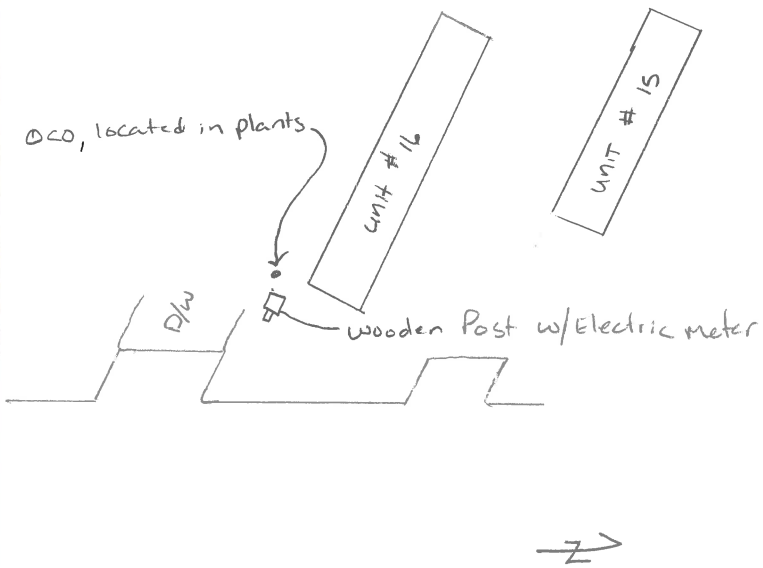
Molalla I/I Study		138 Shirley St, Unit #16	
Project Name :		Location / Address:	
100.26	1-15	TL_C	TL_16 - TL_17
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	OCO
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming from open cleanout with no cap
- Located in Molalla Mobile Manor
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		137 Fenton Avenue	
Project Name :		Location / Address:	
100.26	1-16	TL_B	TL_B_20
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	LMH
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Little bit of smoke leaking around the rim
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

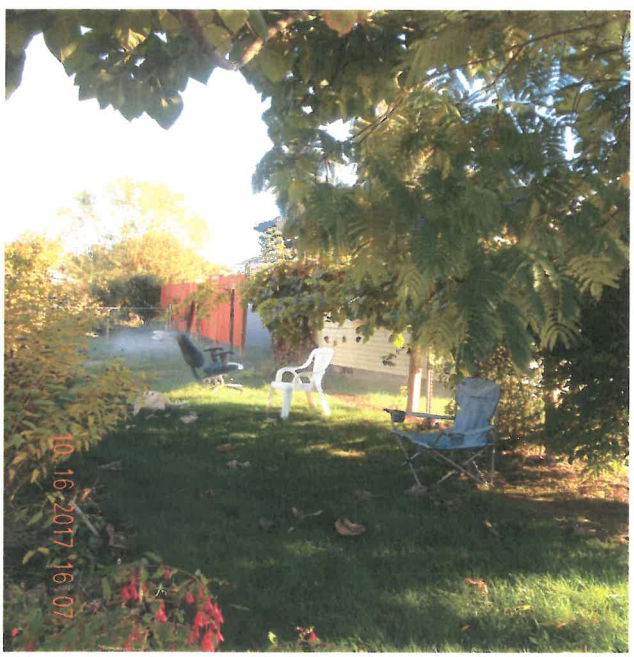
Molalla I/I Study		135 Fenton Avenue	
Project Name :		Location / Address:	
100.26	1-17	TL_B	TL_B_20 - TL_B_21
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.16.17
Tested By:			Date:

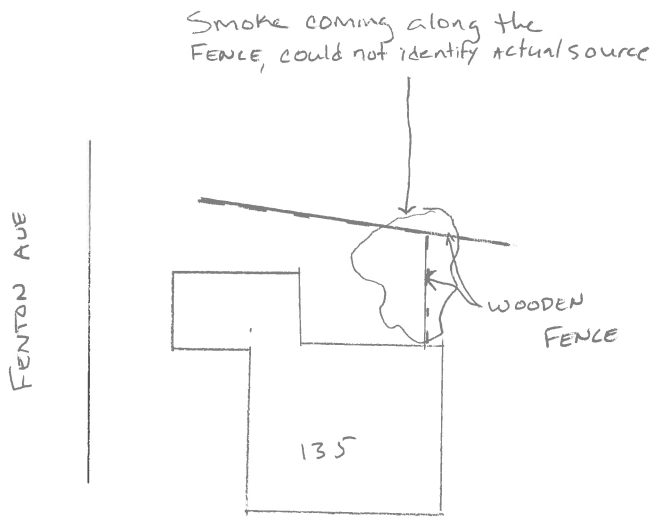
TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming behind the fence, could not identify the source.
-
-
-
-

SKETCH





SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

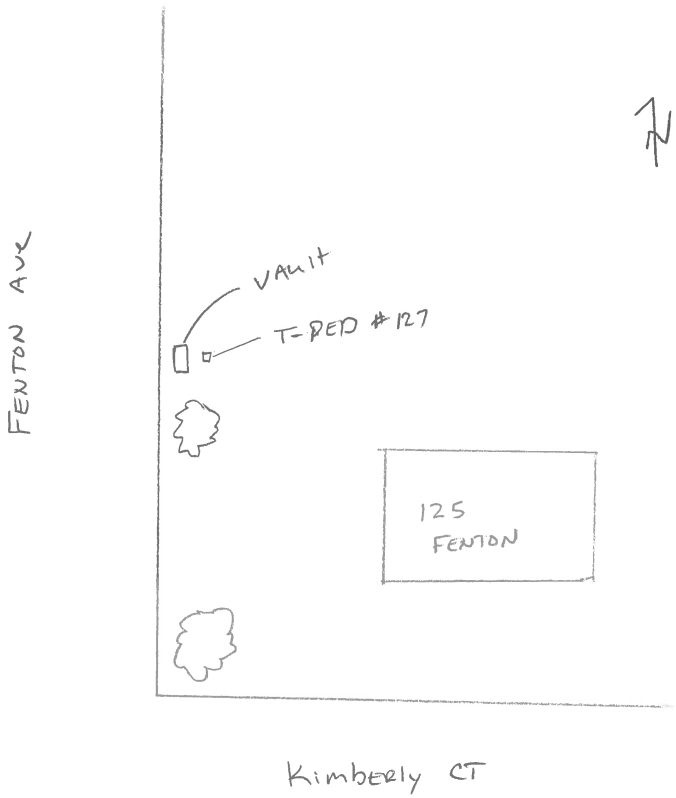
Molalla I/I Study		131 Fenton Avenue	
Project Name :		Location / Address:	
100.26	1-18	TL_B	TL_B_20 - TL_B_21
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming out of communication box located in front of telephone pedestal #127
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		200 Oak St.	
Project Name :		Location / Address:	
100.26	1-19	TL_B	TL_B_11
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

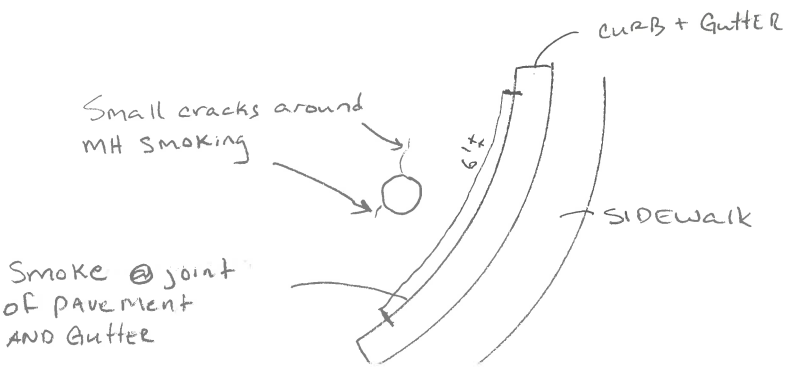
TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	LMH
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke leaky out around the rim of the manhole, the cracks in the road around the manhole and along the joint between the ac pavement and concrete gutter
-
-
-
-

SKETCH

1.



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

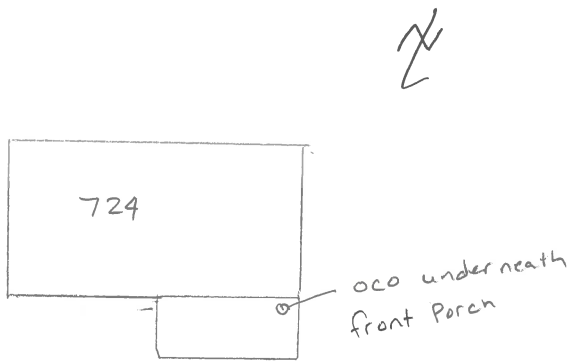
Molalla I/I Study		724 Oak St.	
Project Name :		Location / Address:	
100.26	1-20	TL_B	TL_B_12 - C/O
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LMH
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of open clean located under the front deck.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Intersection E. Heintz St. & E. Park Ave.	
Project Name :		Location / Address:	
100.26	1-21	TL_B	TL_B_9
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	LMH

Comments

- Smoke leaking slightly around the rim of the manhole
-
-
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-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		200 N. Cole Ave	
Project Name :		Location / Address:	
100.26	1-22	TL_B	TL_B_25
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	LMH

Comments

- Smoke leaking slightly around the rim of the manhole
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		716 Patrol St.	
Project Name :		Location / Address:	
100.26	1-23	TL_B	TL_B_6 - TL_B_27
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	RD

Comments

- Smoke coming out of gutter by front porch.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

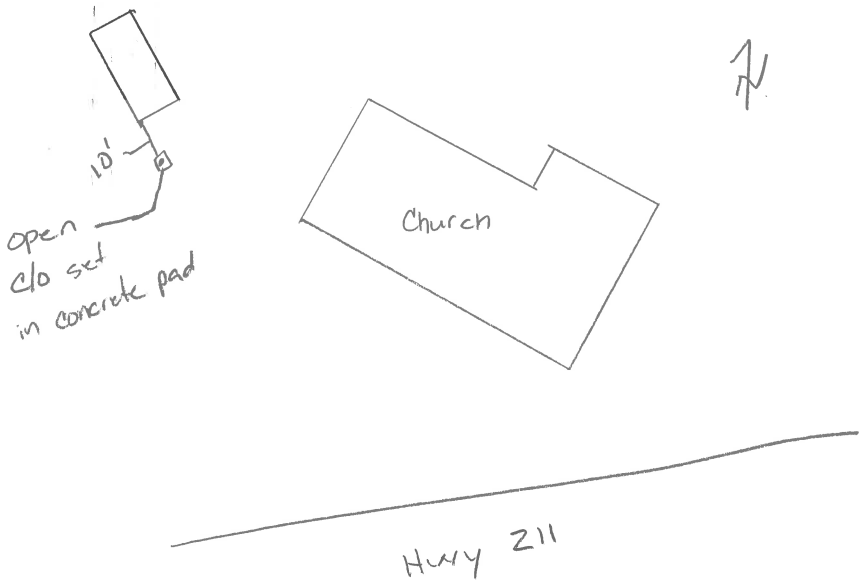
Molalla I/I Study		920 Shirley St	
Project Name :		Location / Address:	
100.26	1-24	TL_B	TL_B_27 - TL_B_7
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.16.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of open cleanout next to shop T@ Church of the Nazarene
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Toliver Rd & Creamery Cr. Lane	
Project Name :		Location / Address:	
100.26	1-25	TL	TL_21 - TL_22
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LML
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of the 36" diameter culvert. Smoke machine was set up on MH TL_21
-
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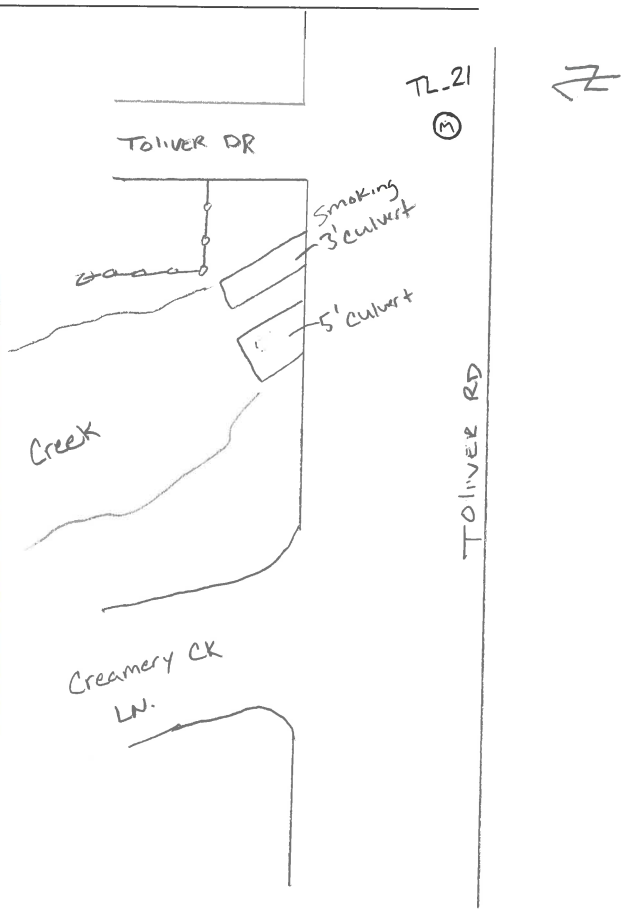
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		718 N. Molalla Ave	
Project Name :		Location / Address:	
100.26	1-26	TL_C	TL_C_23
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LMH
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke leaking around rim of manhole
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

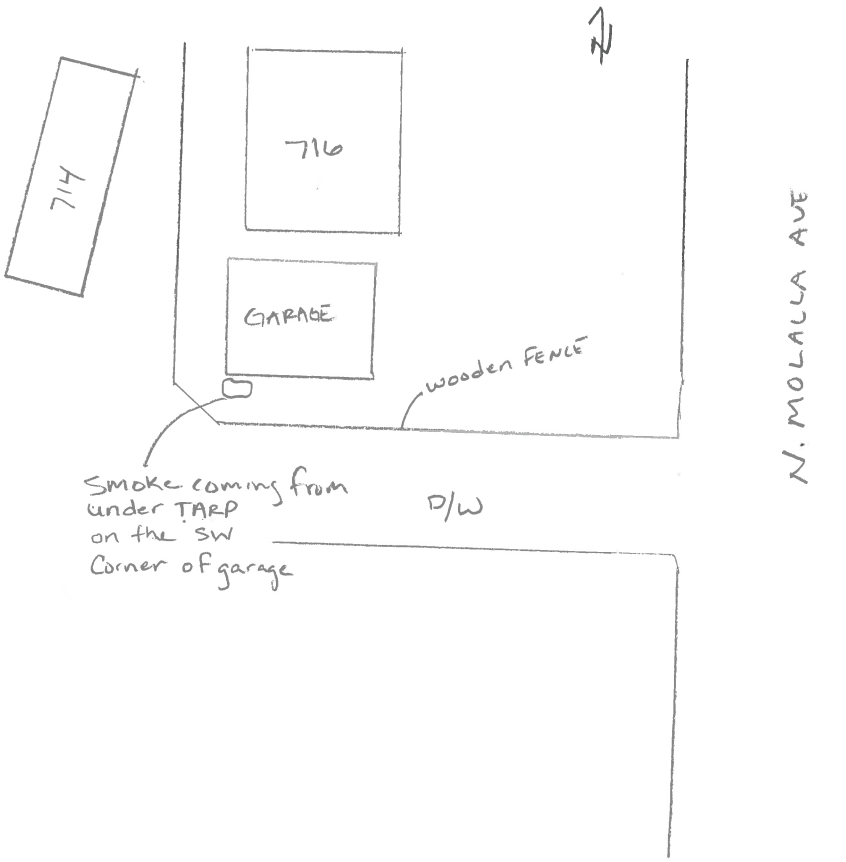
Molalla I/I Study		716 N. Molalla Ave	
Project Name :		Location / Address:	
100.26	1-27	TL_C	TL_C_22 - TL_C_23
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out from under the tarp on the southwest corner of the garage
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

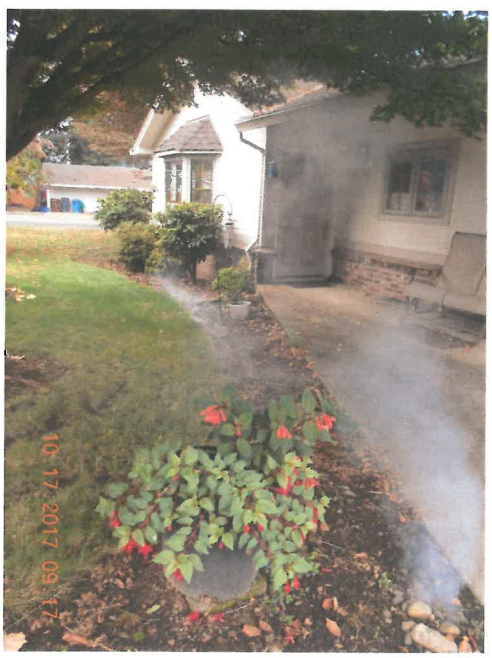
Molalla I/I Study		702 Faurie Ave	
Project Name :		Location / Address:	
100.26	1-28	TL_C	TL_C_33 - C/O
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

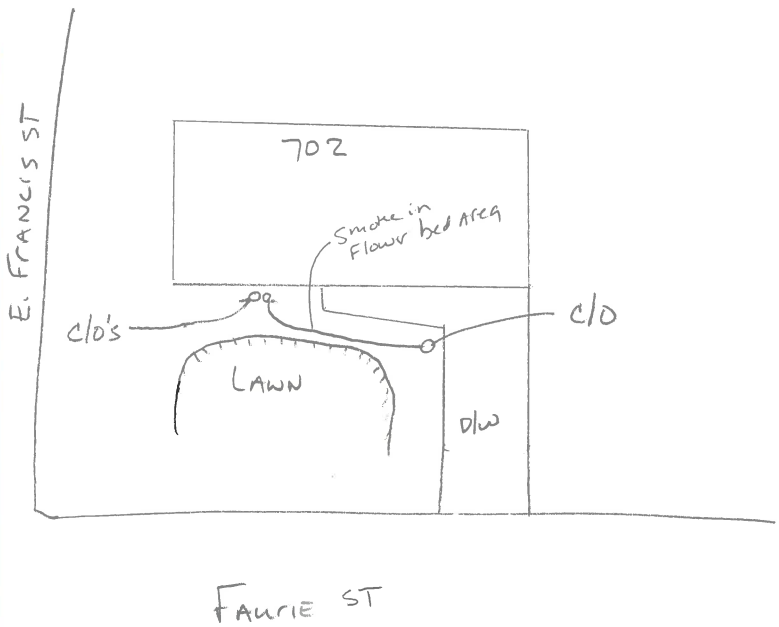
TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	OCO, LSL
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming out from cleanout with rocks over it and along the lateral to another cleanout located close to the house. The lateral follows the edge of the grass.
-
-
-
-

SKETCH





SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Intersection of Frances St. & Christopher St.	
Project Name :		Location / Address:	
100.26	1-29	TL_C	TL_C_12
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	LMH
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming out from around rim of manhole
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		193 Shirley St	
Project Name :		Location / Address:	
100.26	1-30	TL_C	TL_C_38
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	LMH

Comments

- Smoke coming out from around rim of manhole
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		237 Shirley St	
Project Name :		Location / Address:	
100.26	1-31	TL_C	TL_C_38
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of cleanout with no cap
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		207 Lola Ave	
Project Name :		Location / Address:	
100.26	1-32	TL_A	TL_A_19 - TL_A_22
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	OCO
2	LSL – smoke coming from ground
3	Smoke coming from ground

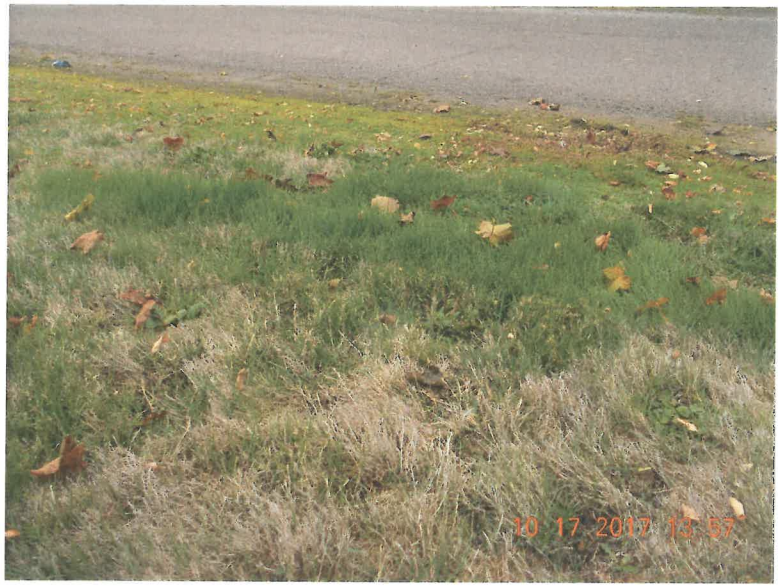
Comments

- Resident has a plastic plate fastened down over the cleanout, smoke coming out of the ground near the road and the gas meter
-
-
-
-

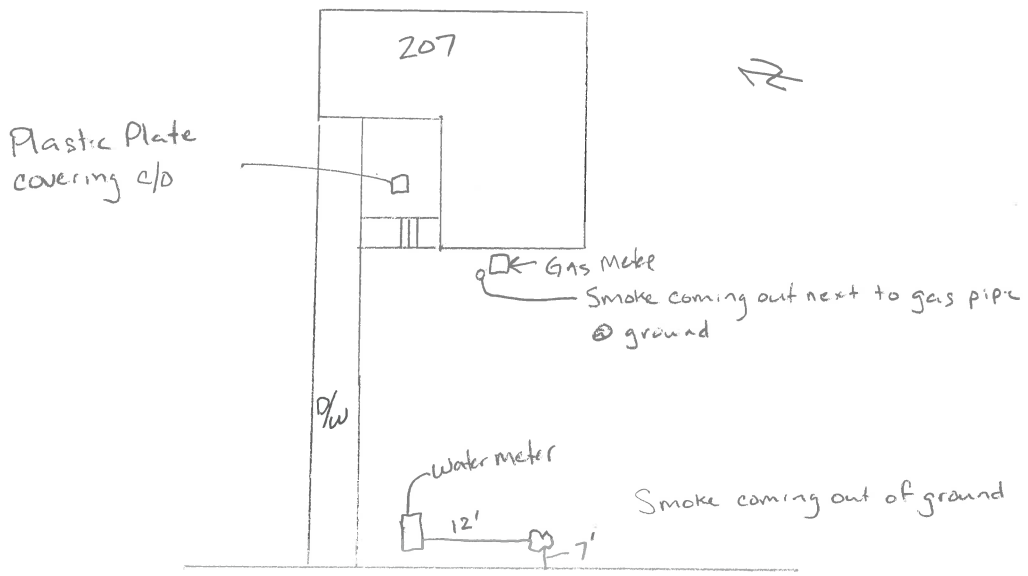
SKETCH

1.

2.


10 17 2017 13 57

3.


207
Plastic Plate
covering c/o
Gas Meter
Smoke coming out next to gas pipe
@ ground
D/W
water meter
12'
7'
Smoke coming out of ground
LoLa Ave

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		410 E. 2nd St	
Project Name :		Location / Address:	
100.26	1-33	TL_A	TL_A_19 - TL_A_22
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	CB

Comments

- Smoke coming out of catch basin on the southwest corner of Lola Ave and E. 2nd St.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		104 S. Cole Ave	
Project Name :		Location / Address:	
100.26	1-34	TL_A	TL_A_3 - TL_A_29
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	CB

Comments

- Smoke leaking around the cleanout cap
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

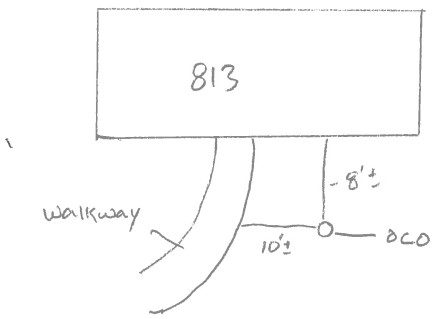
Molalla I/I Study		813 E. 3rd St.	
Project Name :		Location / Address:	
100.26	1-36	TL_A	TL_A_14 - TL_A_8
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of cleanout
-
-
-
-

SKETCH



E. 3RD ST

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		824 E. 5th St.	
Project Name :		Location / Address:	
100.26	1-37	TL_A	TL_A_11 - TL_A_23
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

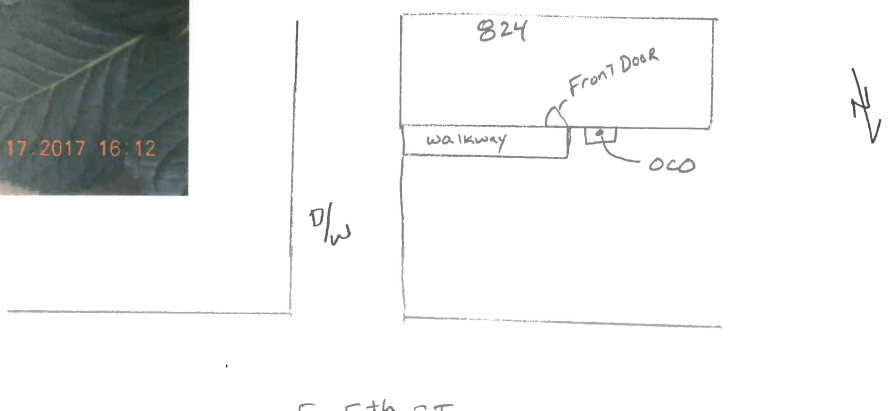
PHOTOGRAPHS

No.	Description
1	OCO

Comments

- Smoke coming out of cleanout, located in recessed house vent

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		827 E. 5th St.	
Project Name :		Location / Address:	
100.26	1-38	TL_A	TL_A_11 - TL_A_23
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	OCO
2	LSL
3	OCO

Comments

- 1. Smoke leaking around cleanout cap
- 2. Smoke coming out of irrigation valve box
- 3. Smoke coming out of cleanout with no cap
-
-

SKETCH

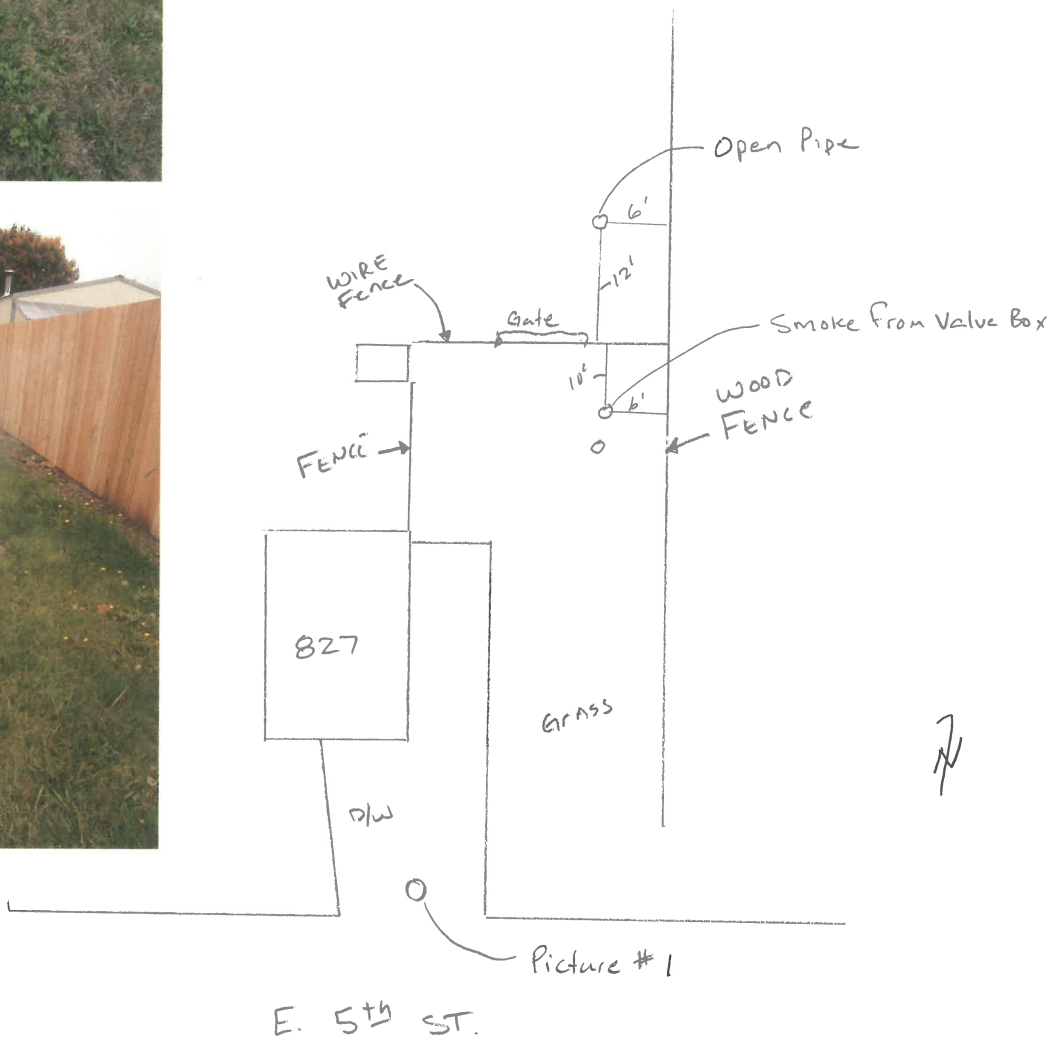
1.

2.


10 17 2017 16:18

3.


10 17 2017 16:18


Open Pipe
6'
12'
WIRE Fence
Gate
Smoke From Valve Box
10'
6'
WOOD FENCE
FENCE
827
GRASS
D/W
Picture #1
E. 5th ST.

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Intersection of E. 5th St. & S. Cole Ave	
Project Name :		Location / Address:	
100.26	1-39	TL_A2	TL_A2_1
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	LMH

Comments

- Smoke leaking around rim of manhole
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

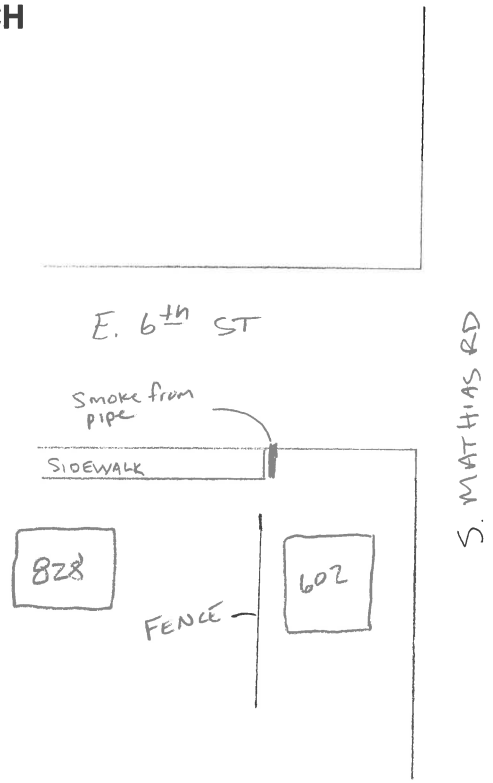
Molalla I/I Study		602 S. Mathias Rd.	
Project Name :		Location / Address:	
100.26	1-40	TL_A	TL_A_10 - C/O
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	RD
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of drain located in the sidewalk
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

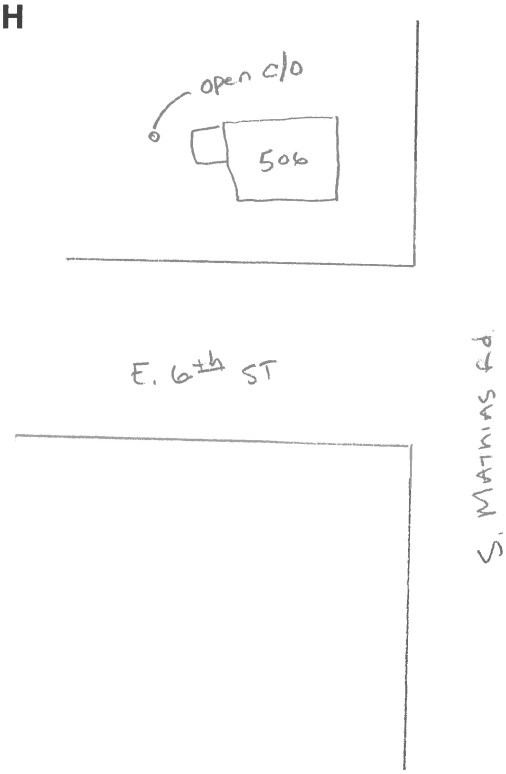
Molalla I/I Study		506 S. Mathias Rd.	
Project Name :		Location / Address:	
100.26	1-41	TL_A	TL_A_10 - C/O
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of cleanout with no cap
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

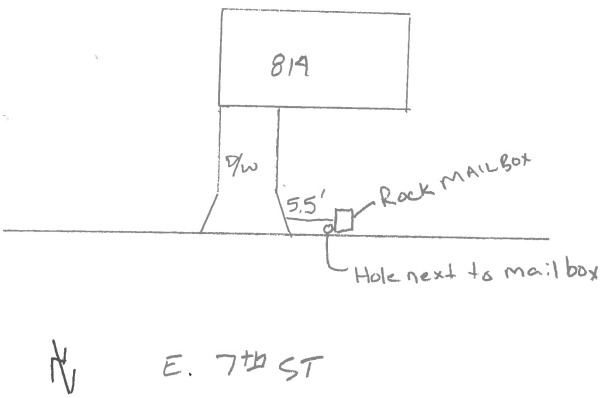
Molalla I/I Study		814 E. 7th St.	
Project Name :		Location / Address:	
100.26	1-42	TL_A2	TL_A2_2 - TL_A2_3
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.17.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LSL
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of hole in the ground next to the mailbox
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

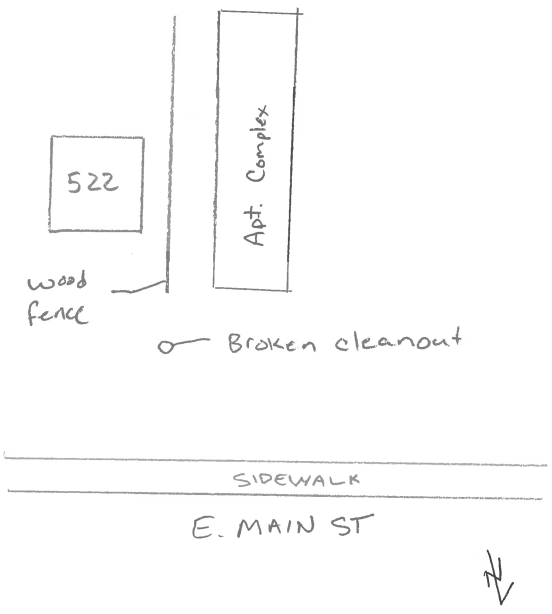
Molalla I/I Study		522 E. Main St	
Project Name :		Location / Address:	
100.26	1-43	TL_A	TL_A_31 - TL_A_32
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of broken cleanout
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		514 & 518 E. Main St	
Project Name :		Location / Address:	
100.26	1-44	TL_A	TL_A_31 - TL_A_32
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	OCO for Unit #514
2	OCO for Unit #518

Comments

- Smoke coming out of cleanout cap for both units
-
-
-
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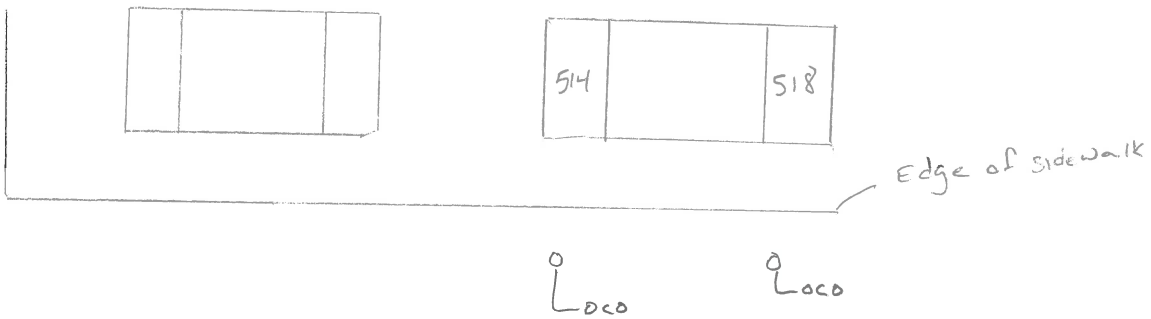
SKETCH

1.

2.



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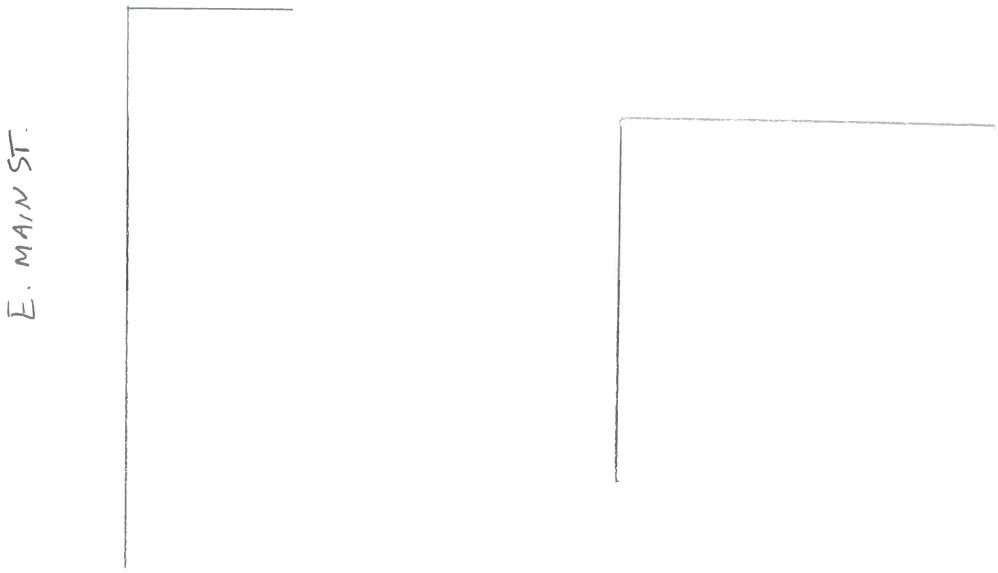


SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

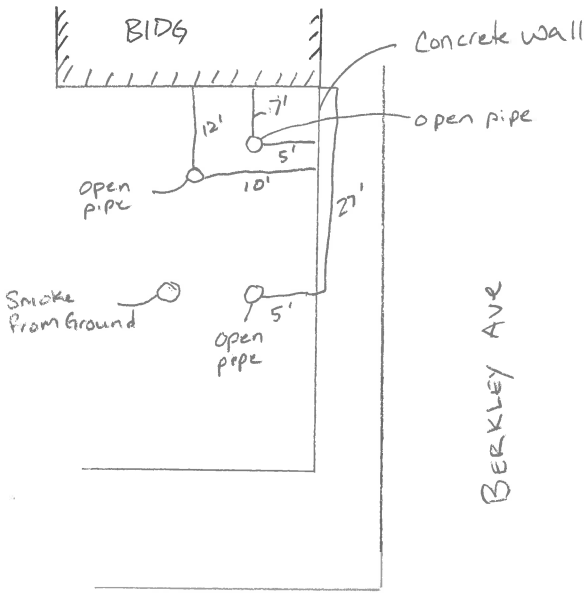
Molalla I/I Study		124 Berkley Ave	
Project Name :		Location / Address:	
100.26	1-45	BC_A3	BC_A3_12 - BC_A3_18
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Vacant lot - has multiple open pipes and multiple area where smoke was coming from the ground.
-
-
-
-

SKETCH



E 2ND ST.

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		415 Berkley Ave	
Project Name :		Location / Address:	
100.26	1-46	BC_A3	BC_A3_14 - C/O
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoking coming out of cleanout
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-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		411 Berkley Ave	
Project Name :		Location / Address:	
100.26	1-47	BC_A3	BC_A3_14 - C/O
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoking coming out of cleanout with no cap
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-
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		304 E. 4th St.	
Project Name :		Location / Address:	
100.26	1-48	BC_A3	BC_A3_7 - BC_A3_8
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	LSL
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoking coming out of communications vault
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		312 E. 2nd St.	
Project Name :		Location / Address:	
100.26	1-49	BC_A3	BC_A3_10 - BC_A3_12
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoking coming out around the cleanout, located in the street.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		111 Swiegle Ave	
Project Name :		Location / Address:	
100.26	1-50	BC_A3	BC_A3_18 - BC_A3_12
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO & LSL
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out of open cleanout with chunks of concrete covering it up. Smoke coming out at the joint of the AC pavement and the curb.
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-
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SKETCH

1. Smoke from open cleanout
2. Smoke from joint between road and curb,

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		120 Engle Ave - Pregnancy Care Center	
Project Name :		Location / Address:	
100.26	1-51	BC_A3	BC_A3_4 - BC_A3_19
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	OCO
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming out next the building, could not identify the source
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		311 S. Molalla Ave	
Project Name :		Location / Address:	
100.26	1-52	BC_A3	BC_A3_3 - BC_A3_16
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	LSL
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming out of the joint in the concrete sidewalk
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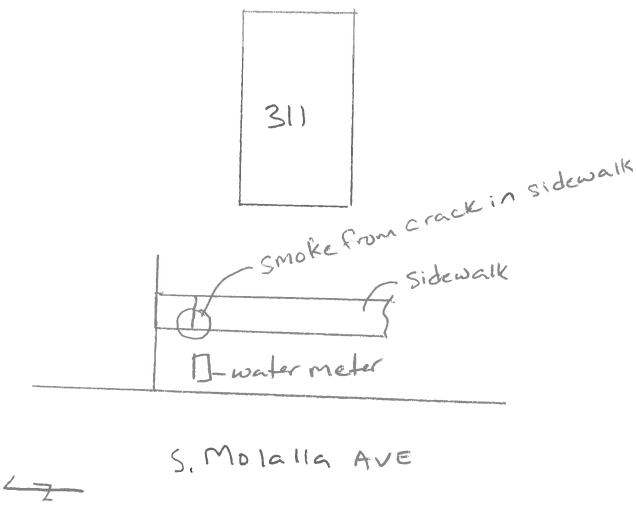
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		314 S. Molalla Ave	
Project Name :		Location / Address:	
100.26	1-53	BC_A3	BC_A3_3 - BC_A3_16
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	OCO

Comments

- Smoke coming out of open cleanout, no cap
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		Intersection of S. Molalla Ave & E. 3rd St.	
Project Name :		Location / Address:	
100.26	1-54	BC_A3	BC_A3_3 - BC_A3_16
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	OCO
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Smoke coming out of catch basin, located on the southeast corner of the intersection
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study		123 S. Molalla Ave	
Project Name :		Location / Address:	
100.26	1-55	BC_A3	BC_A3_15 - BC_A3_20
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck		10.18.17	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	RD
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- 4" white drain pipe located on the north side of the building. Smoke coming out of the pipe at the northeast corner of the building. Hole in the pipe.
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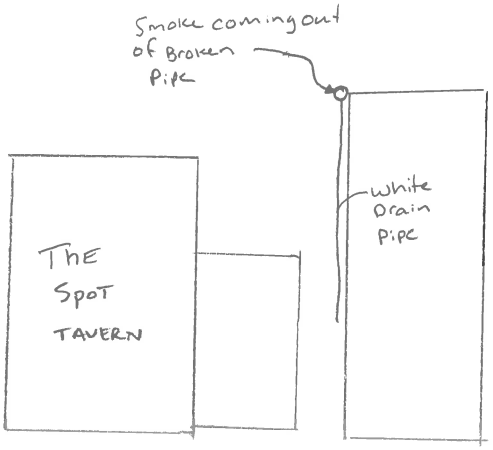
SKETCH



S. Molalla Ave

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		230 Taurus St.	
Project Name :		Location / Address:	
100.26	2-1	TL_C2	TL_C2_10 and TL_C2_18
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from Catch Basin
CB	**=**	**Catch Basin**		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Catch Basin on the south side of Taurus St., in front of 230 & 240 Taurus St.
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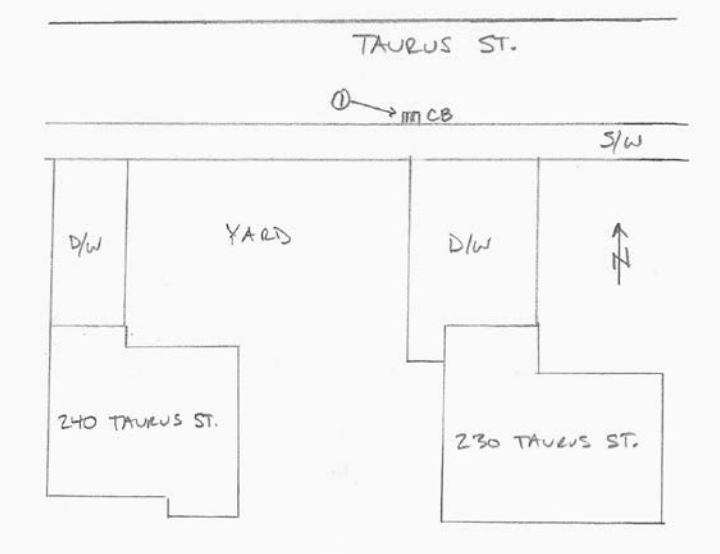
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		225 Taurus St.	
Project Name :		Location / Address:	
100.26	2-2	TL_C2	TL_C2_10 and TL_C22_18
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	**Leaking Service Lateral**	No.	Description
LML	=	Leaking Main Line	1	Smoke from front yard
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke in front yard, just east of driveway edge. No cleanout found in area of smoke.
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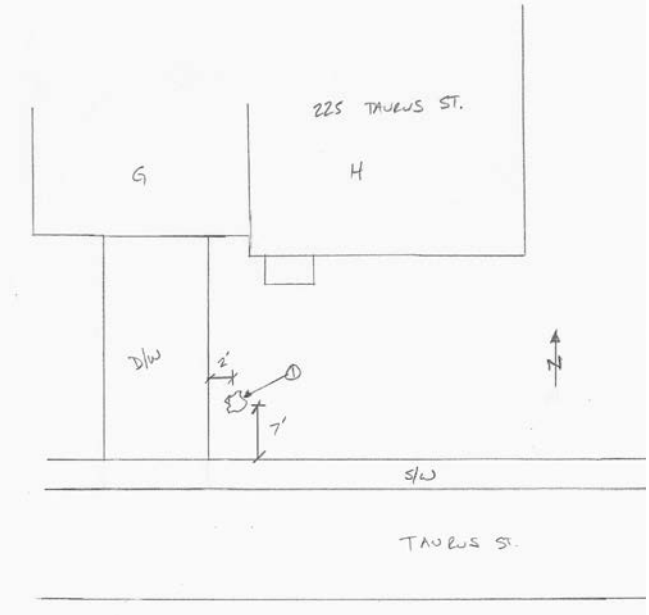
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Toliver Rd & Creamery Creek Ln	
Project Name :		Location / Address:	
100.26	2-3	TL	TL_23
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke between MH rim and asphalt

Comments

- No picture available. Smoke was coming up from exterior of manhole TL_23 rim.
-
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Toliver Dr.	
Project Name :		Location / Address:	
100.26	2-4	TL_E	TL_E_6
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from mainline cleanout lid
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Mainline cleanout on Toliver Dr., +/-65' south of manhole TL_E_6.
-
-
-
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Hauser Ct.	
Project Name :		Location / Address:	
100.26	2-5	TL_E	TL_E_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from mainline cleanout lid
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Mainline cleanout on Hauser Ct., +/-185' north of manhole TL_E_3.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Toliver Dr. & Revilot Ct.	
Project Name :		Location / Address:	
100.26	2-6	TL	TL_SB1_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke between MH rim and asphalt
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke was coming up from exterior of manhole TL_SB1_3 rim.
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-
-
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Heintz St. – Lot #7 Twin Fir Mobile Home Park	
Project Name :		Location / Address:	
100.26	2-7	TL_D	TL_D_6
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from open cleanout/connection
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Mobile home has been removed from Lot #7. Sewer connection wasn't capped and covered with plywood.
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-
-
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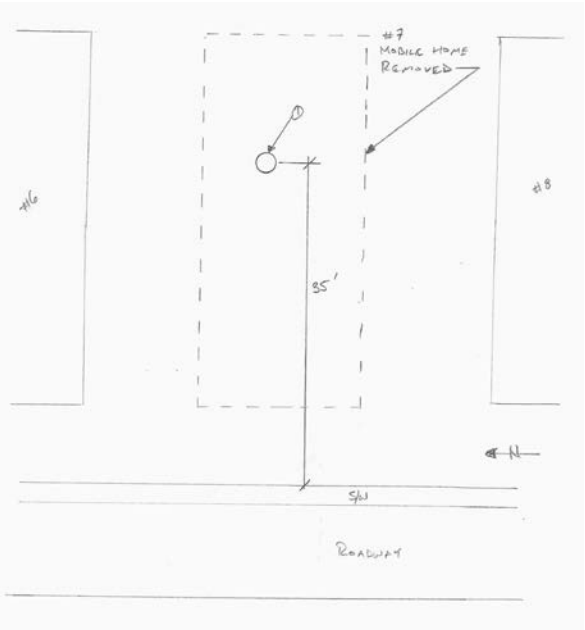
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		721 Heintz St. (Twin Fir Mobile Home Park)	
Project Name :		Location / Address:	
100.26	2-8	TL	TL_21
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from open cleanout/connection

Comments

- Open sewer connection/cleanout behind garage.
-
-
-
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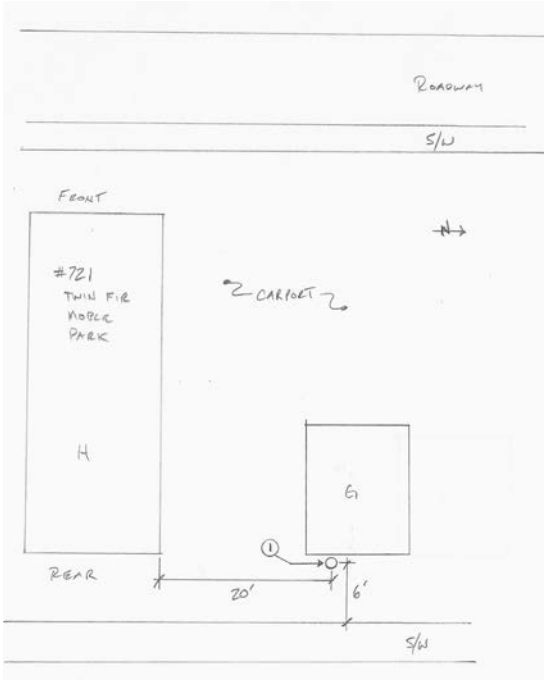
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		744 Heintz St. (Twin Fir Mobile Home Park)	
Project Name :		Location / Address:	
100.26	2-9	TL	TL_21
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from broken cleanout

Comments

- Broken sewer cleanout cap behind garage.
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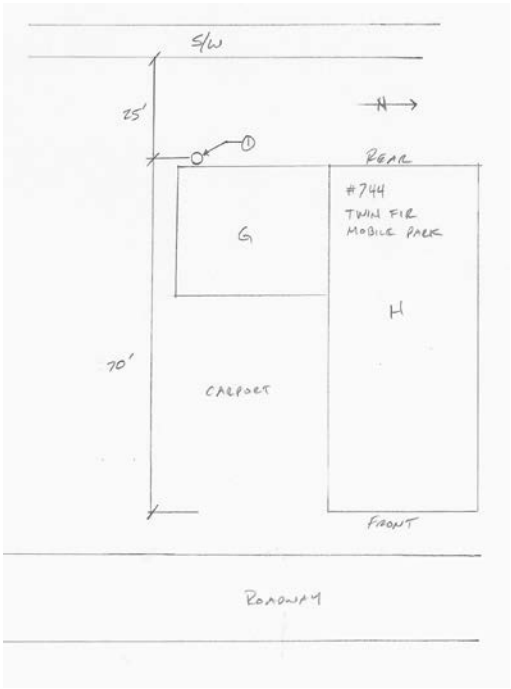
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		102 Kennel Ave.	
Project Name :		Location / Address:	
100.26	2-10	TL_D	TL_D_13
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from broken cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Broken sewer cleanout cap in front yard.
-
-
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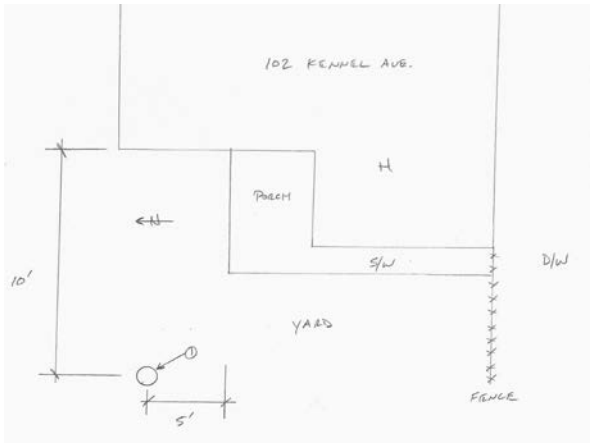
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		102 W. Ross St.	
Project Name :		Location / Address:	
100.26	2-11	TL_D	TL_D_13 and TL_D_6
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from broken cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout without cap. Covered with cinder block.
-
-
-
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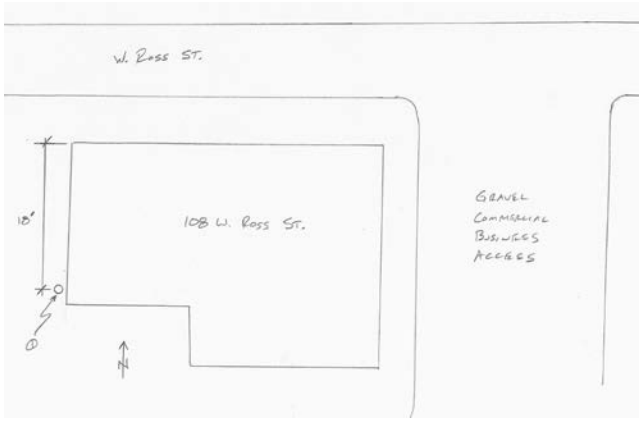
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		E. Ross St.	
Project Name :		Location / Address:	
100.26	2-12	TL_D	TL_D_12
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from mainline cleanout lid
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from cleanout located 80' east of manhole TL_D_12.
-
-
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-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		127 E. Main St.	
Project Name :		Location / Address:	
100.26	2-13	TL_D	TL_D_15
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	**Leaking Service Lateral**	No.	Description
LML	=	Leaking Main Line	1	Smoke from gravel area behind building
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoking through the gravel. No sign of a cleanout in the area but possibly buried.
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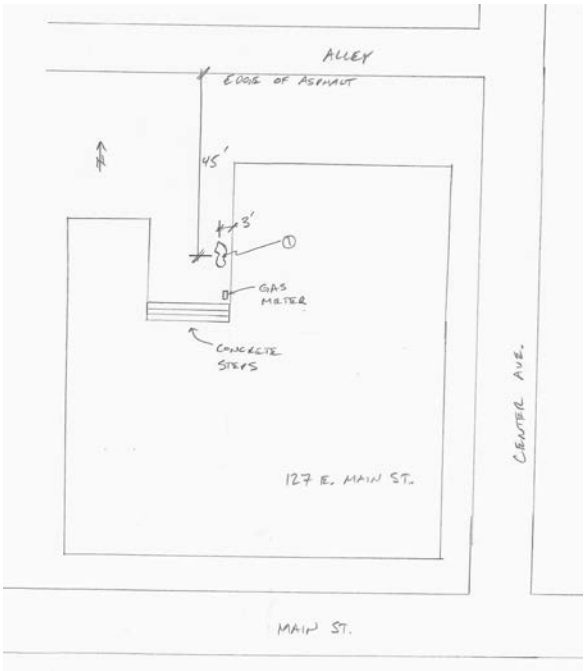
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		211 Center Ave.	
Project Name :		Location / Address:	
100.26	2-14	TL_D	TL_D_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke between MH rim and asphalt
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming up from exterior of manhole TL_D_3.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		205 Center Ave.	
Project Name :		Location / Address:	
100.26	2-15	TL_D	TL_D_2 and TL_D_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL	=	**Leaking Service Lateral**
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from under concrete walkway
2	Smoke from under concrete walkway

Comments

- A 10' section of concrete walkway on the north side of the residence had smoke coming up on both sides of the walk.
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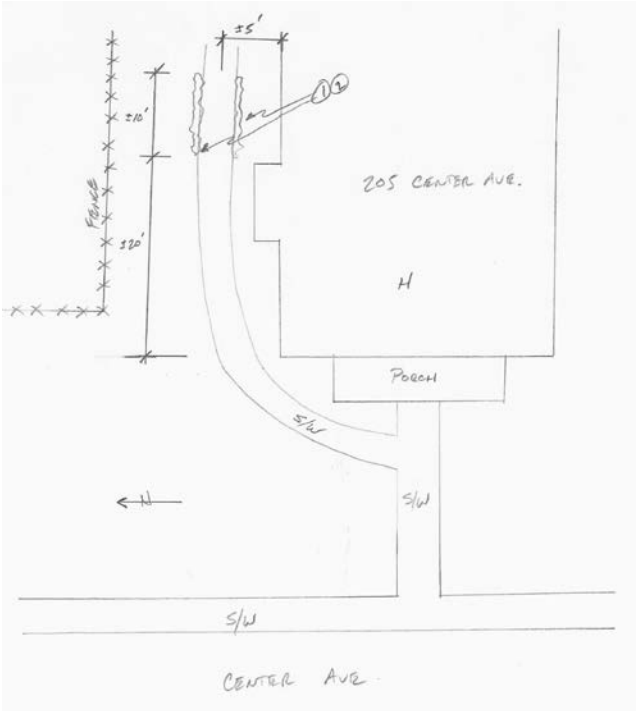
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		E. Heintz St. & Grange Ave.	
Project Name :		Location / Address:	
100.26	2-16	TL	TL_2
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke between MH rim and asphalt
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming up from exterior of manhole TL _2.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Grange Ave.	
Project Name :		Location / Address:	
100.26	2-17	TL	TL_2 and TL_5
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	**=**	**Catch Basin**
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Near 150 Grange Ave. – west side of road
2	Near 139 Grange Ave. – east side of road
3	Near 122 Grange Ave. – west side of road
4	Near 127 Grange Ave. – east side of road

Comments

- Smoke was coming from the city storm system catch basins on Grange Ave.
- See attached aerial for catch basin locations and pictures.
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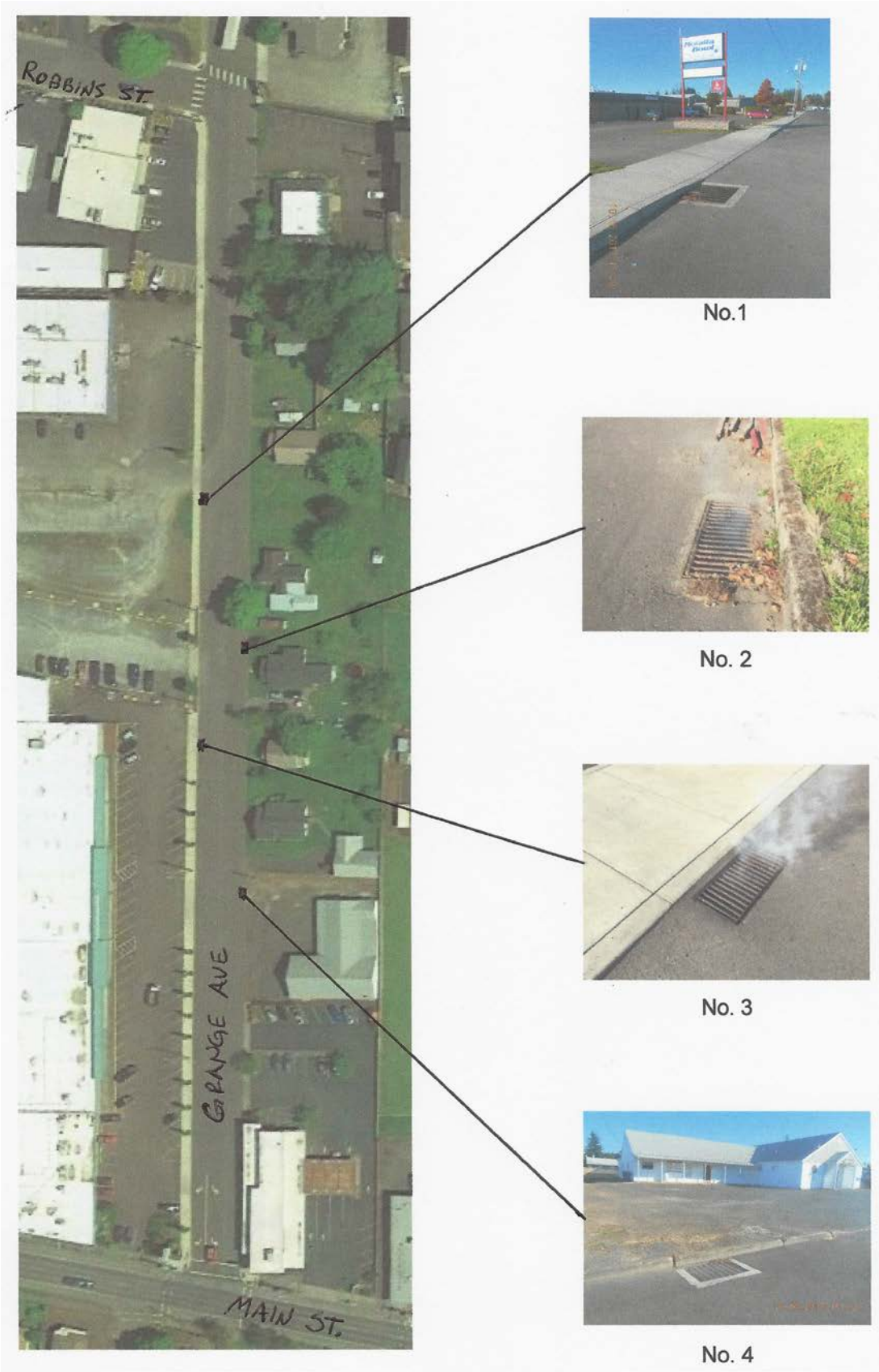
SKETCH

See Attached

Molalla Smoke Testing
Report No. 2-17
Grange Ave.



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		131 Grange Ave.	
Project Name :		Location / Address:	
100.26	2-18	TL	TL_5 – TL_18
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from house gutter
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	**=**	**Roof Drain**		

Comments

- Smoke coming from gutter/downspout on northwest corner of house.
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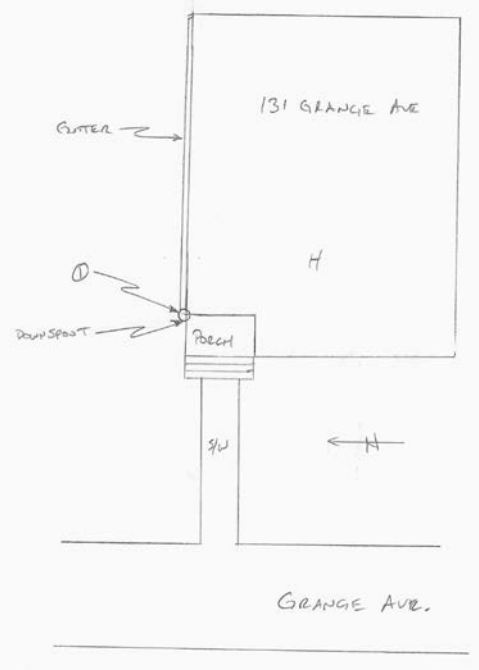
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		122 Grange Ave.	
Project Name :		Location / Address:	
100.26	2-19	TL	TL_5 and TL_18
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from parking lot catch basin
CB	**=**	**Catch Basin**		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Small amount of smoke coming from the parking lot catch basin.
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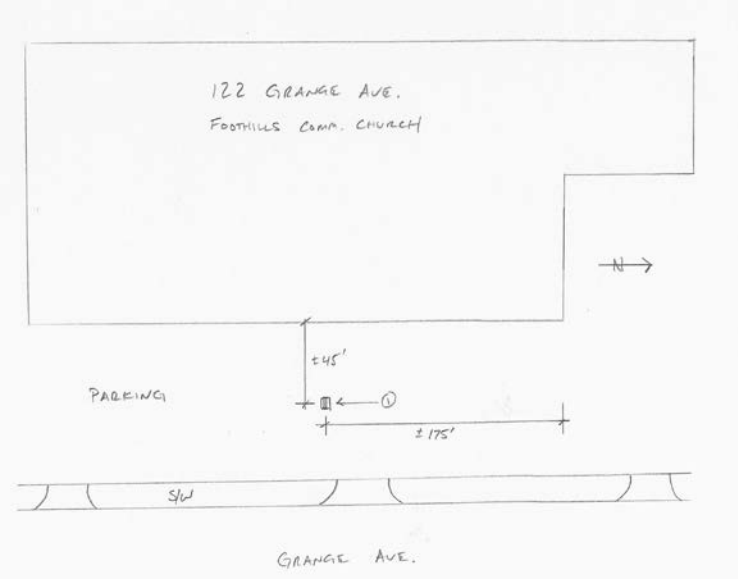
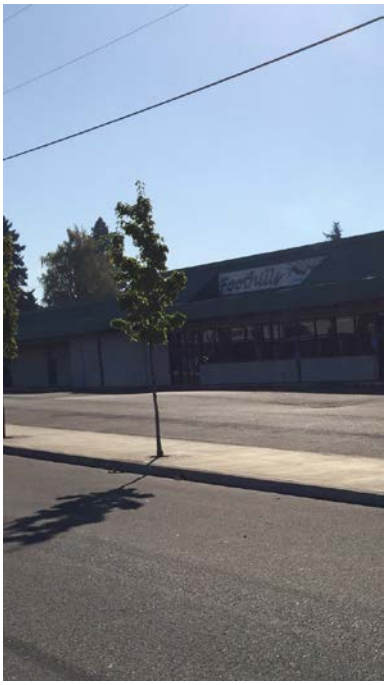
SKETCH





SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		120 Fenton Ave.	
Project Name :		Location / Address:	
100.26	2-20	TL_B	TL_B_21 and TL_B_22
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from cleanout
CB	=	Catch Basin	2	Smoke from cleanout
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from cleanout area. It appears the area is currently under repair/construction.
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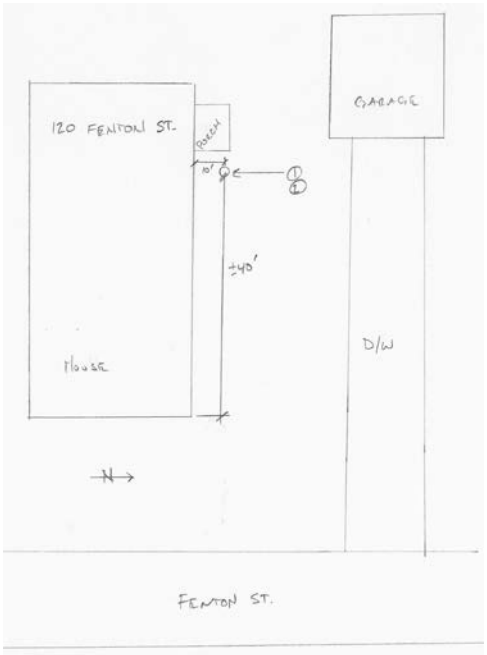
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Kimberly Ct.	
Project Name :		Location / Address:	
100.26	2-21	TL_B	TL_B_23
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke between MH rim and asphalt
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming up from the exterior of manhole TL_B_23.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		302 N. Cole Ave.	
Project Name :		Location / Address:	
100.26	2-22	TL_B	TL_B_1 and TL_B_16
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from broken cleanout cap
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

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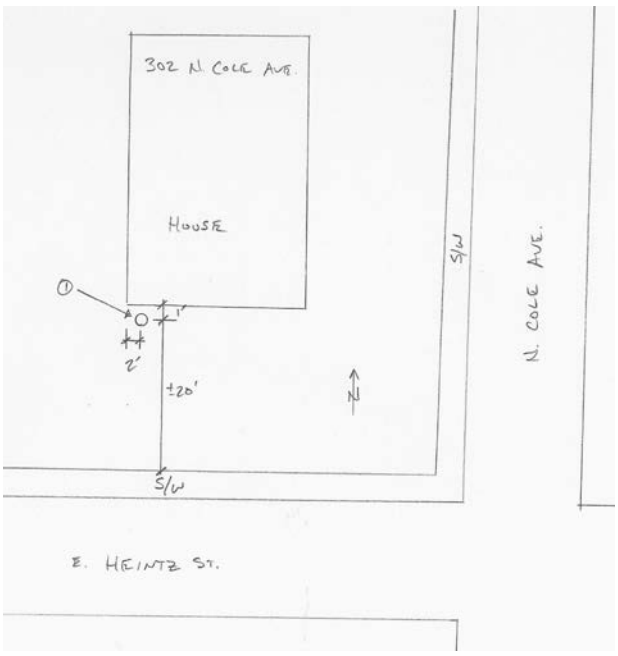
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		207 Finneys Ave.	
Project Name :		Location / Address:	
100.26	2-23	TL_B	TL_B_1 and TL_B_16
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from broken cleanout cap

Comments

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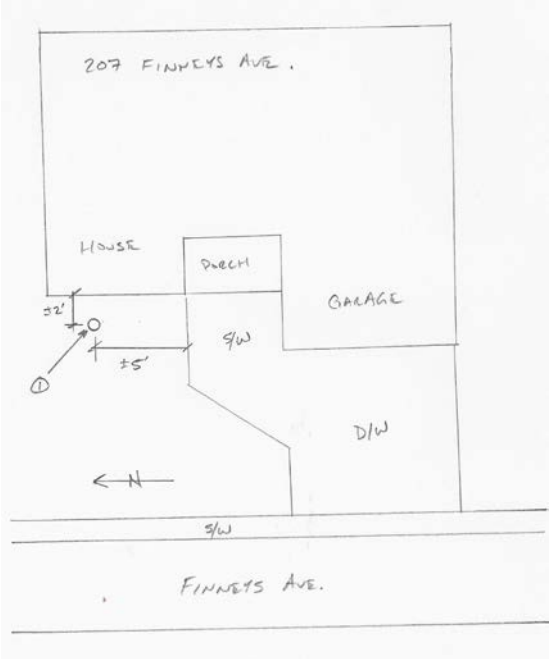
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Heintz St. & N. Cole Ave.	
Project Name :		Location / Address:	
100.26	2-24	TL_B	TL_B_1
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke between MH rim and asphalt
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from exterior of manhole TL_B_1.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Park Pl.	
Project Name :		Location / Address:	
100.26	2-25	TL_B	TL_B_8
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from mainline cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from mainline cleanout in Park Pl. cul-de-sac.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		N. Cole Ave.	
Project Name :		Location / Address:	
100.26	2-26	TL_B	TL_B_31
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from mainline cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from mainline cleanout 15' south of manhole TL_B_31.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		704 Patrol St.	
Project Name :		Location / Address:	
100.26	2-27	TL_B	TL_B_2 and TL_B_5
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from cleanout with no cap
2	Smoke from cleanout with no cap

Comments

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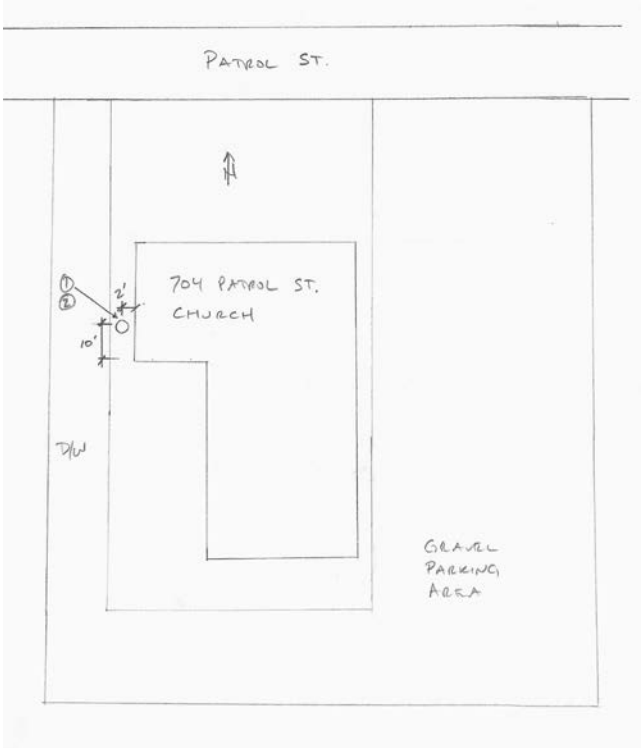
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		151 N. Cole Ave.	
Project Name :		Location / Address:	
100.26	2-28	TL_B	TL_B_2 and TL_B_28
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from cleanout located adjacent to the northeast corner of the garage, behind fence.
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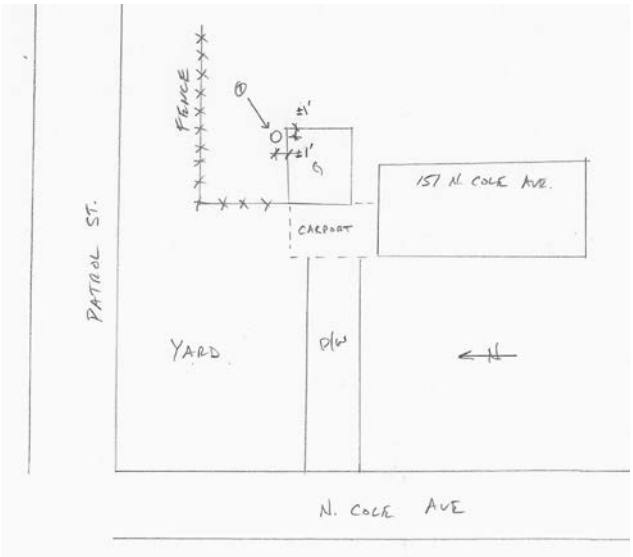
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Patrol St.	
Project Name :		Location / Address:	
100.26	2-29	TL_B	TL_B_27
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from side of manhole

Comments

- Smoke from manhole rim and concrete above grade.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		602 Toliver Dr.	
Project Name :		Location / Address:	
100.26	2-30	TL	TL_21 and TL_SB1_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			**PHOTOGRAPHS**	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from broken cleanout cap
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

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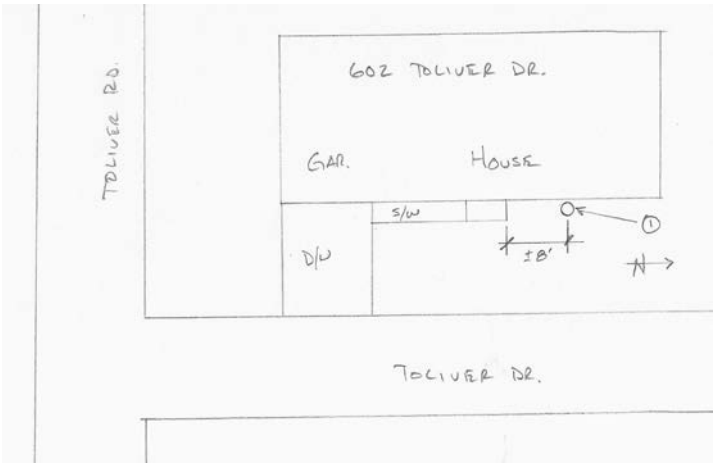
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Toliver Rd. & Toliver Dr.	
Project Name :		Location / Address:	
100.26	2-31	TL	TL_21 and TL_SB1_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line		
CB	**=**	**Catch Basin**		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke was seen from the catch basin on the corner of Toliver Rd. & Toliver Dr. when the smoke testing machine was setup on MH TL_24 on day one (10/16/17). The catch basin did not produce any smoke when the testing machine was setup on MH TL_21 on day two (10/17/17), however, there was visible smoke from the culvert west of the Toliver Rd./Toliver Dr. intersection (see report 1-25).
- A TV inspection should be conducted in this area to further investigate the cross connection between the sewer and storm systems.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		709 N. Molalla Ave.	
Project Name :		Location / Address:	
100.26	2-32	TL_C	TL_C_22 and TL_C_39
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from broken cleanout cap
2	Smoke from broken cleanout cap

Comments

- Broken cleanout cap on north side of garage, adjacent to concrete sidewalk.
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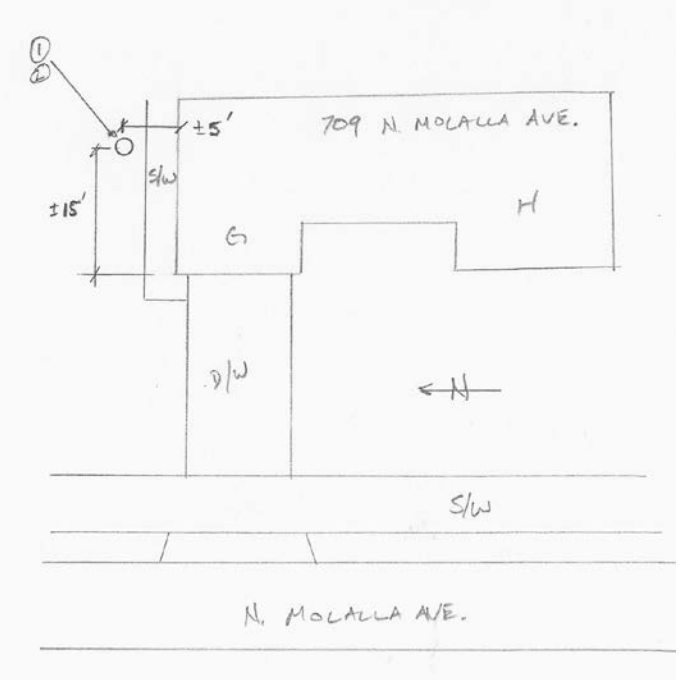
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		705 N. Molalla Ave.	
Project Name :		Location / Address:	
100.26	2-33	TL_C	TL_C_22 and TL_C_39
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from broken cleanout cap
2	Smoke from broken cleanout cap
3	Smoke from landscape pond

Comments

- Broken cleanout cap on south side of house, between house and driveway.
- Smoke from landscape pond overflow pipe. Pond is southeast of house.
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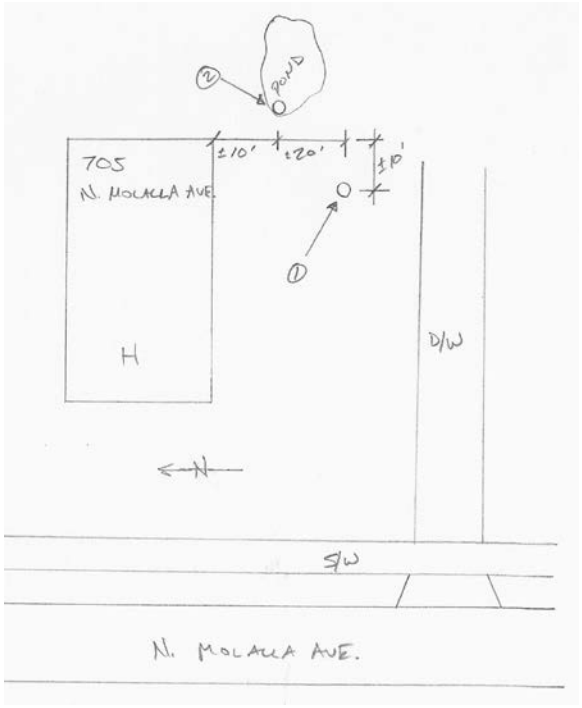
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Frances St.	
Project Name :		Location / Address:	
100.26	2-34	TL_C	TL_C_16
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke between MH rim and asphalt
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming up from exterior of manhole TL_C_16.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Frances St.	
Project Name :		Location / Address:	
100.26	2-35	TL_C	TL_C_34
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke between MH rim and asphalt
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming up from exterior of manhole TL_C_34.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		St. James Church	
Project Name :		Location / Address:	
100.26	2-36	TL_C	TL_C_34 and TL_C_29
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from gutter/downspout
2	Smoke from gutter/downspout

Comments

- Smoke coming from gutter on the south side of the main church building.
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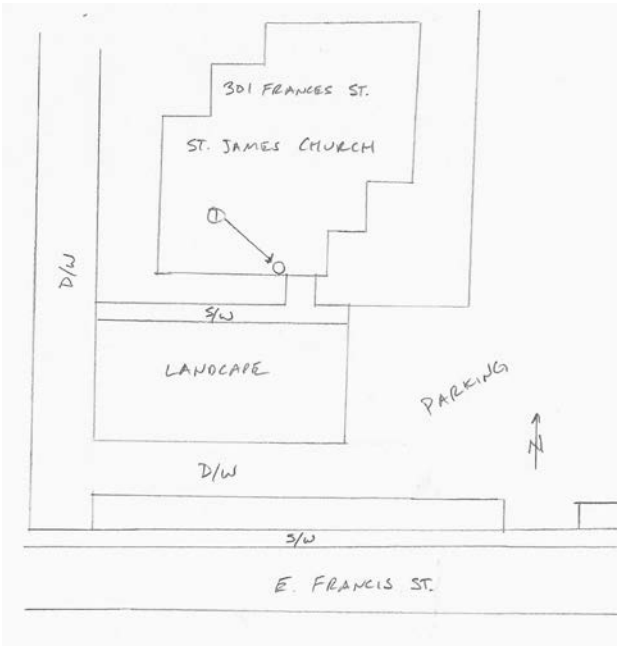
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Molalla High School	
Project Name :		Location / Address:	
100.26	2-37	TL_C	TL_C_34 and TL_C_29
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from parking lot cleanout

Comments

- Smoke coming from cleanout in the southwest parking lot of Molalla High School.
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-
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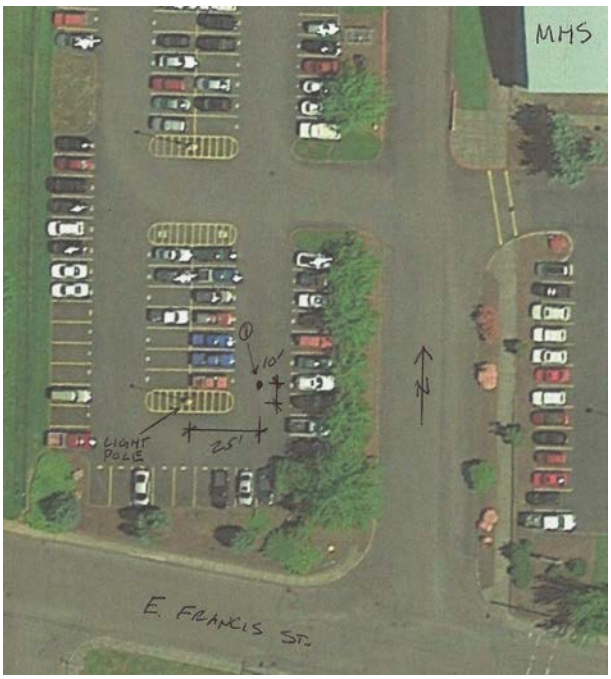
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		165 Shirley St.	
Project Name :		Location / Address:	
100.26	2-38	TL_C	TL_C_18 and TL_C_19
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from driveway cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from cleanout in the driveway serving flag lots at 165 Shirley St.
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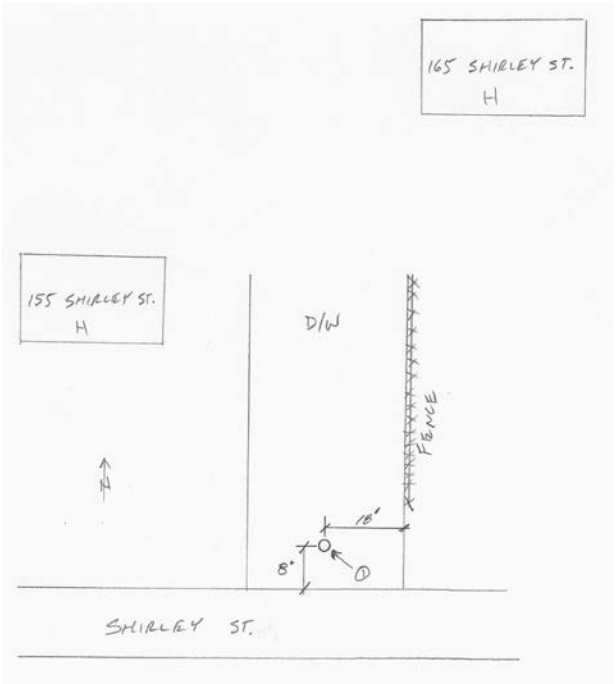
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		169 Shirley St.	
Project Name :		Location / Address:	
100.26	2-39	TL_C	TL_C_18 and TL_C_19
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL	=	**Leaking Service Lateral**
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from west edge of driveway
2	Smoke from west edge of driveway

Comments

- .Smoke coming up from a 13' section of the driveway edge.
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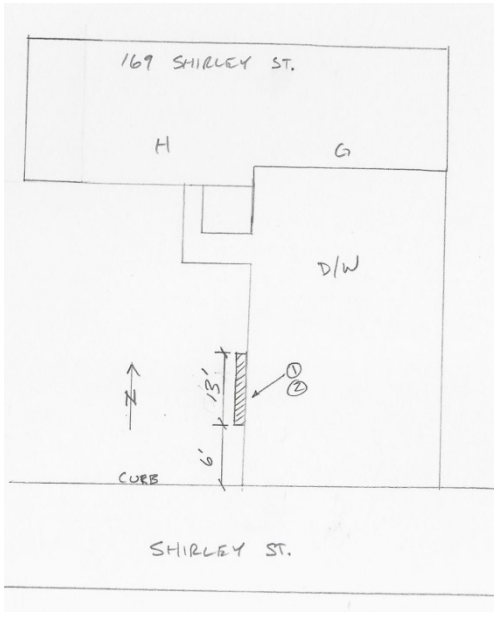
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		704 Shirley St.	
Project Name :		Location / Address:	
100.26	2-40	TL_C	TL_C_5 and TL_C_6
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from broken cleanout cap
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- .Smoke from broken cleanout cap, located next to concrete walkway, under planter.
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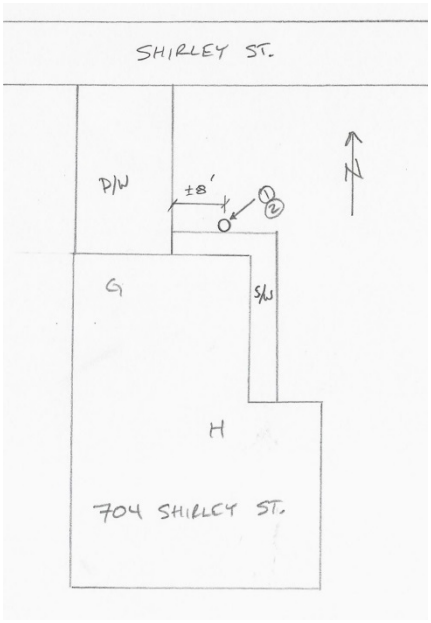
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Molalla Buckaroo Grounds	
Project Name :		Location / Address:	
100.26	2-41	TL_C	TL_C_3 and TL_C_27
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from broken cleanout cap
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from broken cleanout cap inside a water meter box. Cleanout is located on the north east side of the gravel parking area.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Eckerd Ave.	
Project Name :		Location / Address:	
100.26	2-42	TL_A	TL_A_18 and TL_A_21
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from catch basin/curb
CB	**=**	**Catch Basin**	2	Smoke from catch basin/curb
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from catch basin and crack in the concrete curb behind the catch basin on the east side of Eckerd Ave, approximately 75' south of manhole TL_A_21.
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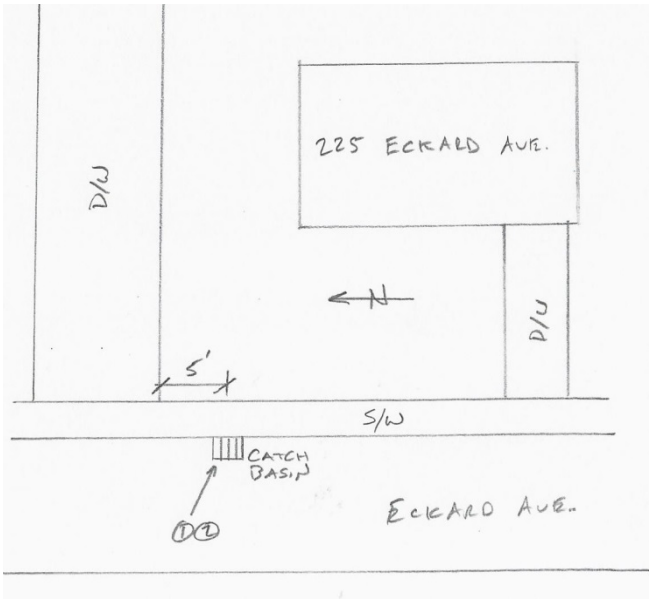
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		302 Lola Ave.	
Project Name :		Location / Address:	
100.26	2-43	TL_A	TL_A_22 and TL_A_19
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from cleanout area

Comments

- Smoke from cleanout area. Could not confirm if the cap was broken or missing.
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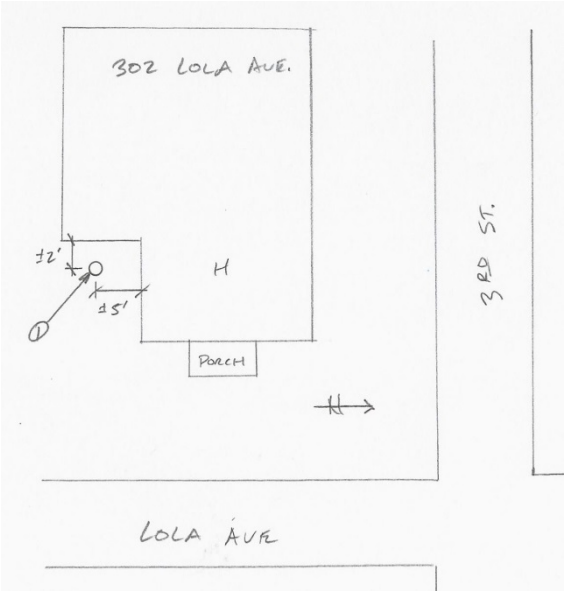
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		307 Lola Ave.	
Project Name :		Location / Address:	
100.26	2-44	TL_A	TL_A_22 and TL_A_19
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from broken cleanout cap

Comments

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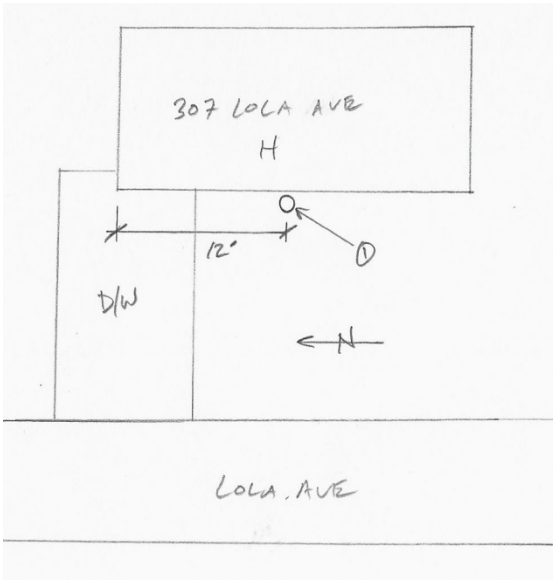
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		3rd & Lola Ave.	
Project Name :		Location / Address:	
100.26	2-45	TL_A	TL_A_19
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from catch basin
CB	**=**	**Catch Basin**		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from CB at the south east corner of Lola Ave. and 3rd St. intersection, with smoke machine setup on manhole TL_A_19.
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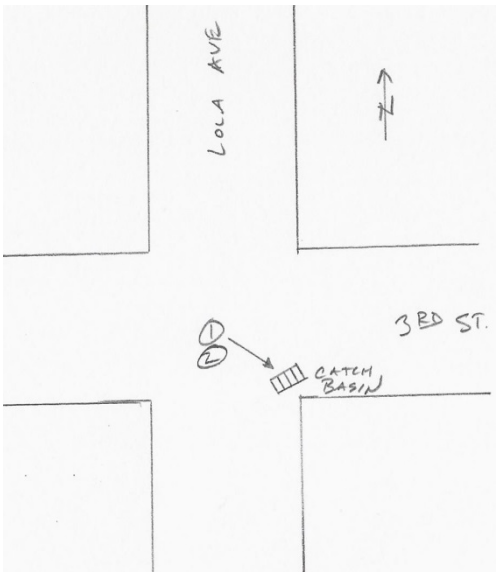
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		310 Eckerd Ave.	
Project Name :		Location / Address:	
100.26	2-46	TL_A	TL_A_17 and TL_A_18
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from cleanout area
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from cleanout area. Could not confirm if the cap was broken or missing.
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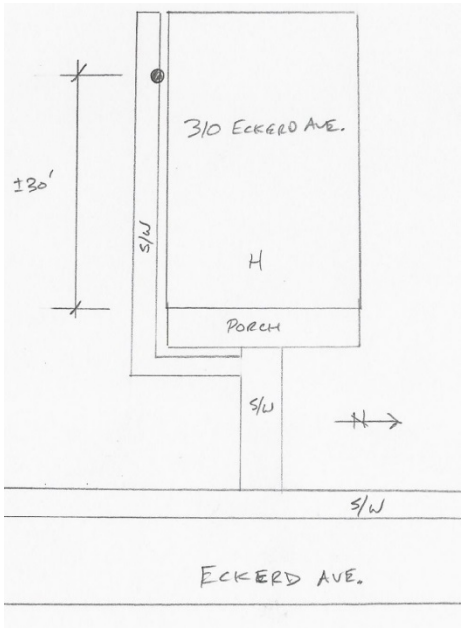
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Eckerd Ave. – MHS Football Field	
Project Name :		Location / Address:	
100.26	2-47	TL_A	TL_A_17 and TL_A_18
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

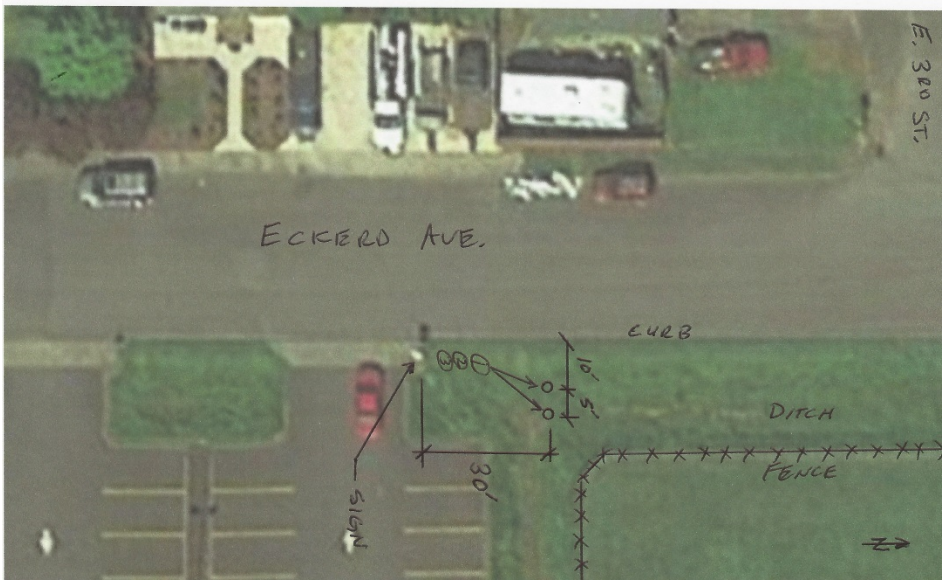
PHOTOGRAPHS

No.	Description
1	Smoke from bottom/west side of ditch
2	Smoke from bottom/west side of ditch
3	Smoke from bottom/west side of ditch

Comments

- Smoke from ditch running north/south on east side of Eckerd Ave. Smoke was near the northwest corner of the football field parking lot.
- See attached for pictures.
-
-
-

SKETCH



Molalla Smoke Testing
Report No. 2-47
MHS Football Field

No. 1

No. 2

No. 3

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		224 S. Cole Ave.	
Project Name :		Location / Address:	
100.26	2-48	TL_A	TL_A_2 and TL_A_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from driveway cleanout

Comments

- Smoke from cleanout in flag lot driveway.
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-
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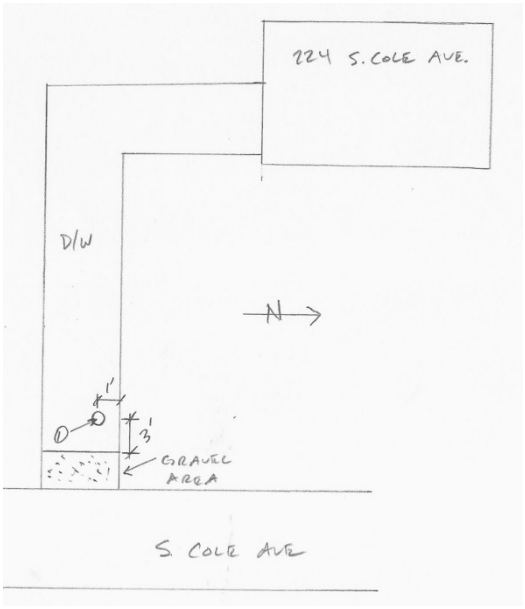
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		219 S. Cole Ave.	
Project Name :		Location / Address:	
100.26	2-49	TL_A	TL_A_2 and TL_A_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			**PHOTOGRAPHS**	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from cleanout area
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from cleanout area. Could not confirm broken or missing cleanout cap.
-
-
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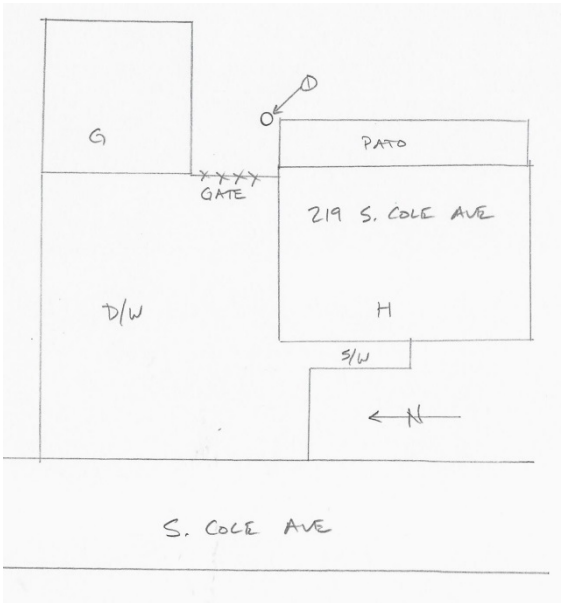
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		228 Stower Rd.	
Project Name :		Location / Address:	
100.26	2-50	TL_A	TL_A_7 and TL_A_8
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from cleanout/sewer connection
CB	=	Catch Basin	2	Smoke from cleanout/sewer connection
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- House has been removed. Smoke from uncovered sewer connection in foundation.
-
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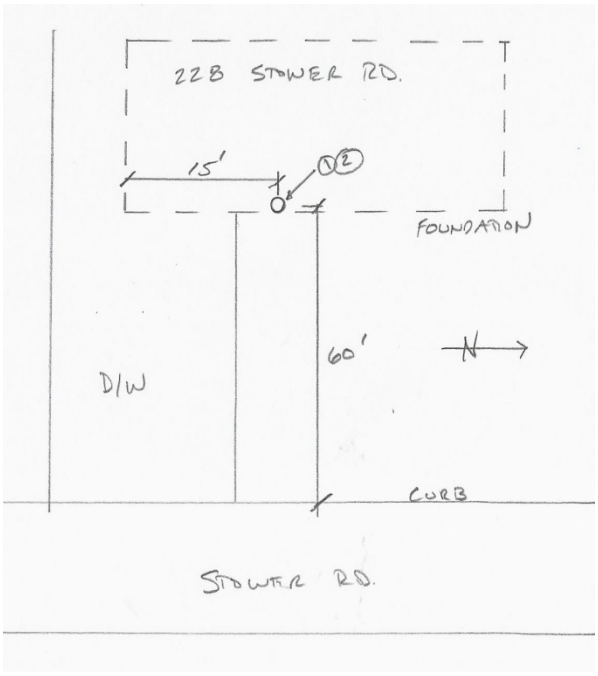
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		402A S. Cole Rd.	
Project Name :		Location / Address:	
100.26	2-51	TL_A	TL_A_6 and TL_A_8
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

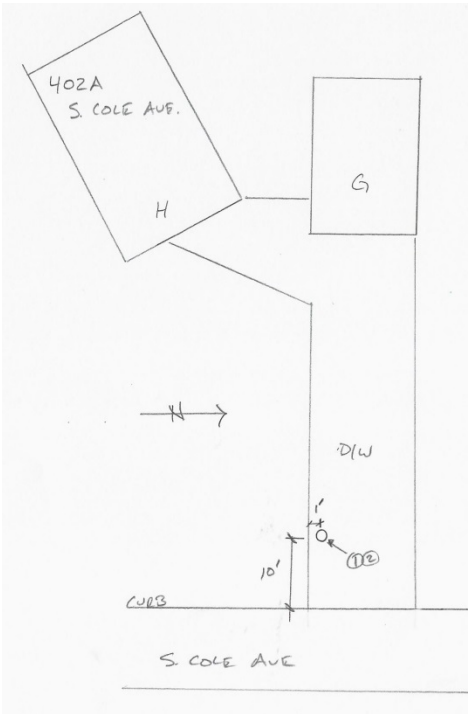
PHOTOGRAPHS

No.	Description
1	Smoke from driveway cleanout
2	Smoke from driveway cleanout

Comments

- Smoke from driveway cleanout cover on south side of driveway.
- Smoke is also coming up from edge of asphalt, adjacent to the cleanout cover.
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

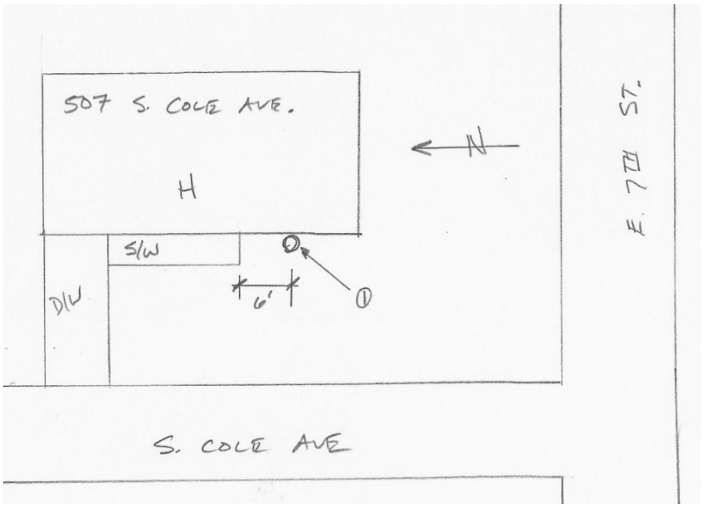
Molalla Smoke Testing		507 S. Cole Rd.	
Project Name :		Location / Address:	
100.26	2-52	TL_A	TL_A_4 and TL_A_8
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from open cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from open cleanout, south of front porch, adjacent to front of house.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		503 Stower Rd.	
Project Name :		Location / Address:	
100.26	2-53	TL_A	TL_A_3 and TL_A_4
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Tuesday, October 17, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from mainline cleanout cover

Comments

- Smoke from mainline cleanout cover on Stower Rd., in front of 503 Stower Rd.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		621 Main St.	
Project Name :		Location / Address:	
100.26	2-54	TL_A	TL_A_30 and TL_A_31
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

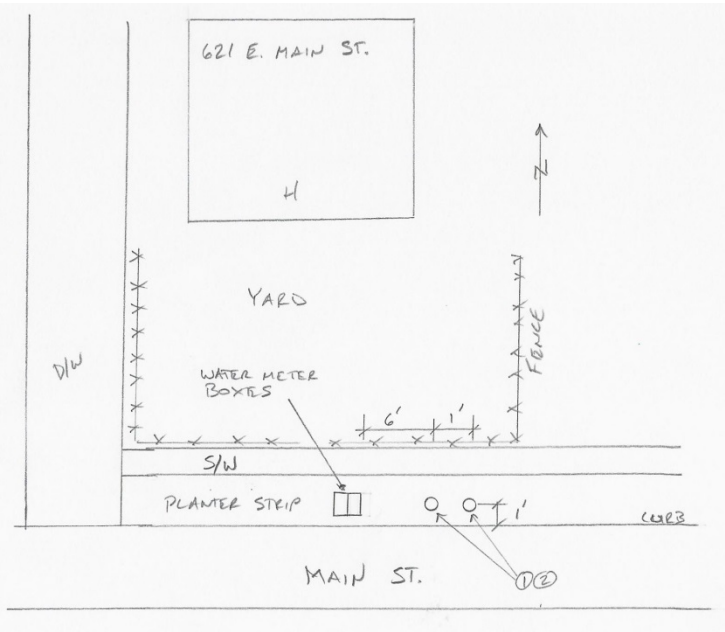
PHOTOGRAPHS

No.	Description
1	Smoke from two broken cleanout covers
2	Smoke from two broken cleanout covers

Comments

- Smoke from two, adjacent cleanout covers, in beauty strip grass in front of 621 Main St.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

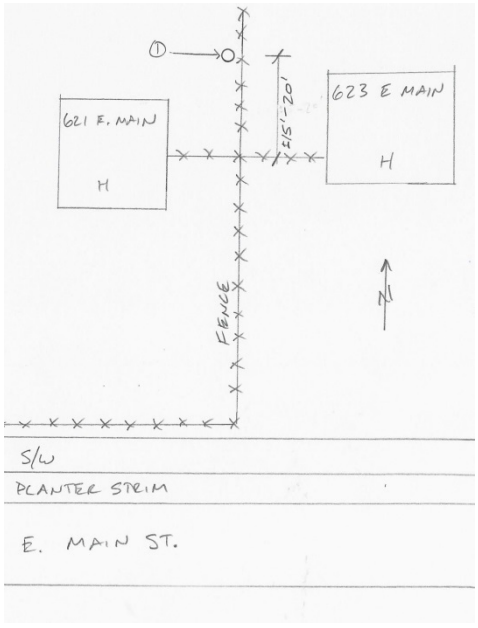
Molalla Smoke Testing		621 and 623 Main St.	
Project Name :		Location / Address:	
100.26	2-55	TL_A	TL_A_30 and TL_A_31
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from cleanout area
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from fence line, between backyards of 621 and 623 Main St.
- Could not confirm broken or uncovered cleanout.
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		812 E. Main St.	
Project Name :		Location / Address:	
100.26	2-56	TL_A	TL_A_26 and TL_A_27
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE

LSL	=	**Leaking Service Lateral**
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	**Open Cleanout**
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1/2	Smoke from cleanout area
3	Smoke from buried service lateral
4	Smoke from open pipe stub
5/6	Smoke from buried service lateral

Comments

- See aerial for picture locations.
- No. 2 – Cleanout covered with concrete block and open stub out pipe.
- No. 3 – Smoke from gravel area covering broken service lateral.
- No. 5/6 – Smoke from fence line. Possible broken service lateral under fence line.

SKETCH

Molalla Smoke Testing
Report No. 2-56
812 E. Main St.

No. 1

No. 2

No. 3

No. 4

No. 5

No. 6

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Berkley Ave.	
Project Name :		Location / Address:	
100.26	2-57	BC_A3	BC_A3_12 and BC_A3_14
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from CB – 2nd St. & Berkley Ave.
2	Smoke from CB – Berkley Ave.
3	Smoke from CB – Berkley Ave.
4	Smoke from CB – 3rd St. & Berkley Ave.
5	Smoke from CB – 4th & Berkley Ave.

Comments

- See attached aerial for locations and pictures.
- CB shown in Picture No. 2 is on the east side of Berkley Ave., between 2nd and 3rd Streets.
- CB shown in Picture No. 3 is on the west side of Berkley Ave., between 2nd and 3rd Streets.
-
-

SKETCH

See Attached

Molalla Smoke Testing
Report No. 2-57
Berkley Ave.

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		323 E. 3rd St.	
Project Name :		Location / Address:	
100.26	2-58	BC_A3	BC_A3_13 and BC_A3_14
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

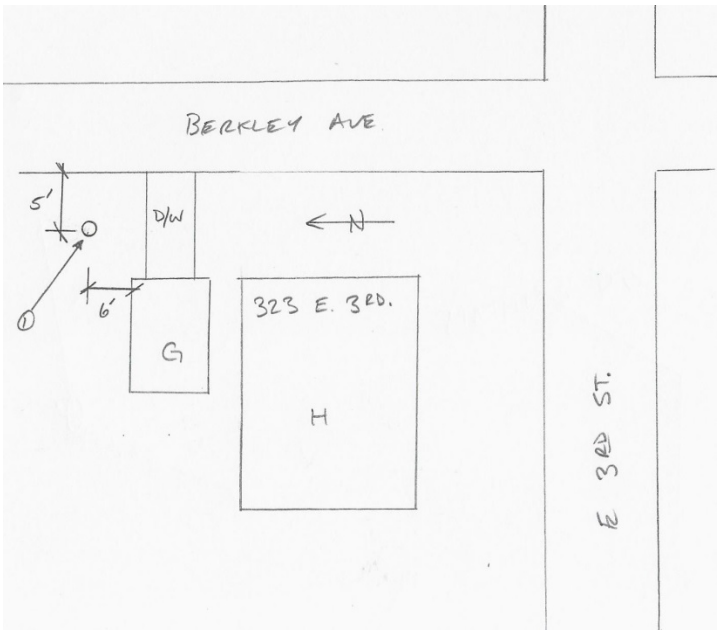
PHOTOGRAPHS

No.	Description
1	Smoke from broken cleanout cap

Comments

- Broken cleanout cap, located in gravel area under trailer.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Swiegle Ave.	
Project Name :		Location / Address:	
100.26	2-59	BC_A3	BC_A3_13 and BC_A3_14
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from CB – 2nd & Swiegle Ave.
2	Smoke from CB – 3rd & Swiegle Ave.
3	Smoke from CB – 4th & Swiegle Ave.

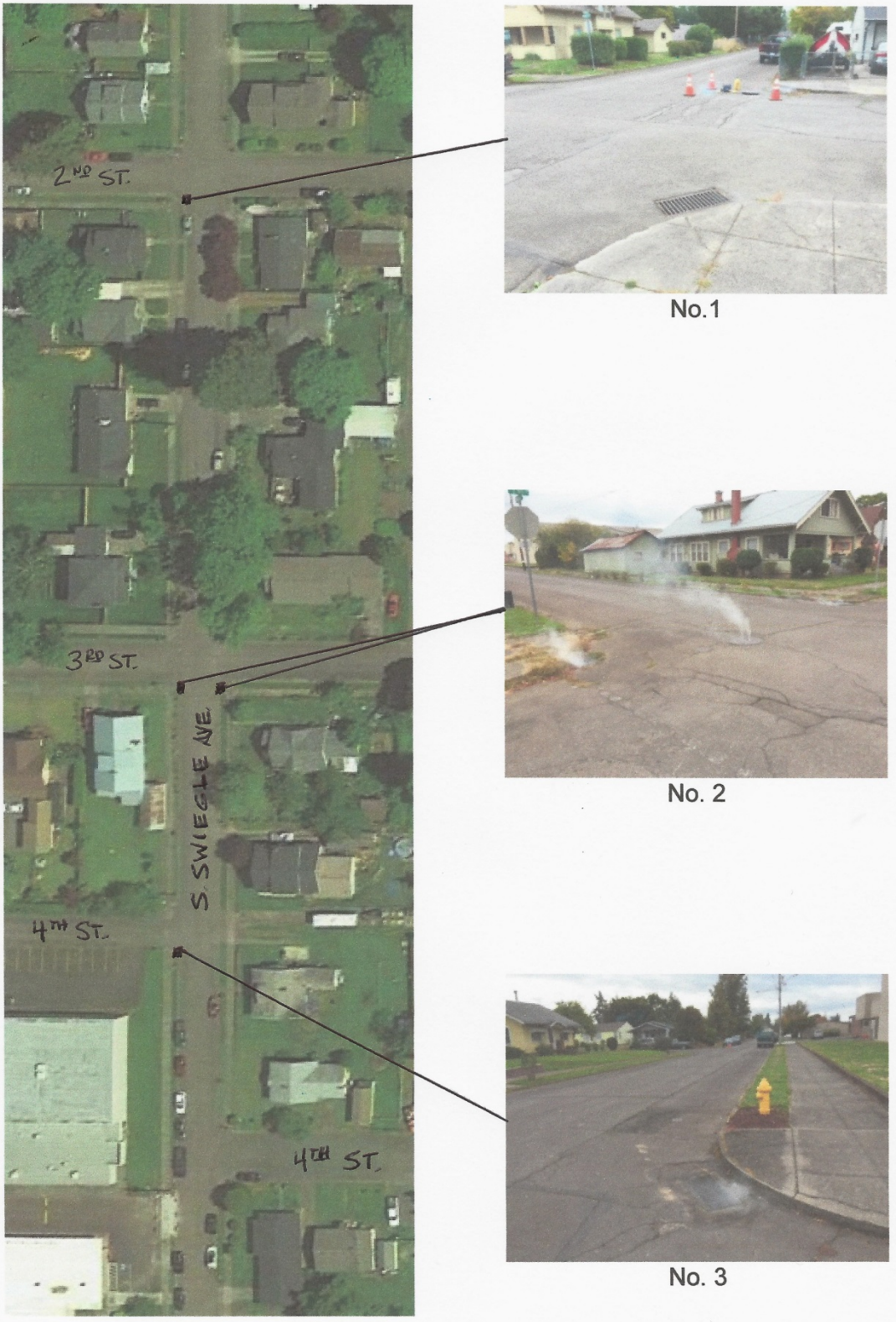
Comments

- See attached aerial for pictures and locations.
- Storm system manholes on Swiegle Ave., adjacent to catch basins, were also smoking.
-
-
-

SKETCH

See Attached

Molalla Smoke Testing
Report No. 2-59
Swiegle Ave.



No.1

No. 2

No. 3

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		223 Swiegle Ave.	
Project Name :		Location / Address:	
100.26	2-60	BC_A3	BC_A3_9 and BC_A3_10
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from cleanout area

Comments

- Smoke from cleanout area on north side of house. Could not confirm broken or missing cap.
-
-
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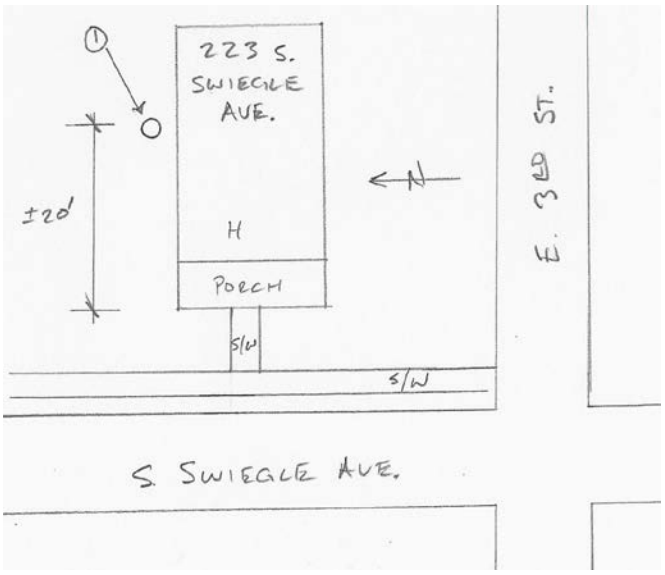
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Engle Ave.	
Project Name :		Location / Address:	
100.26	2-61	BC_A3	BC_A3_15 and BC_A3_16
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE			**PHOTOGRAPHS**	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Smoke from catch basins
CB	**=**	**Catch Basin**		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from catch basins on east and west side of Engle Ave., between 2nd and 3rd Streets.
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-
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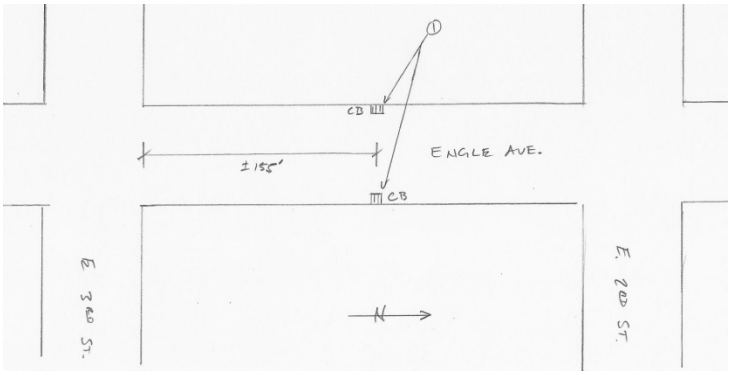
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Fox Park	
Project Name :		Location / Address:	
100.26	2-62	BC_A3	BC_A3_3
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Smoke from splash pad drain
2	Smoke from broken clean out cap
3	Smoke from lawn area
4	Smoke from lawn area

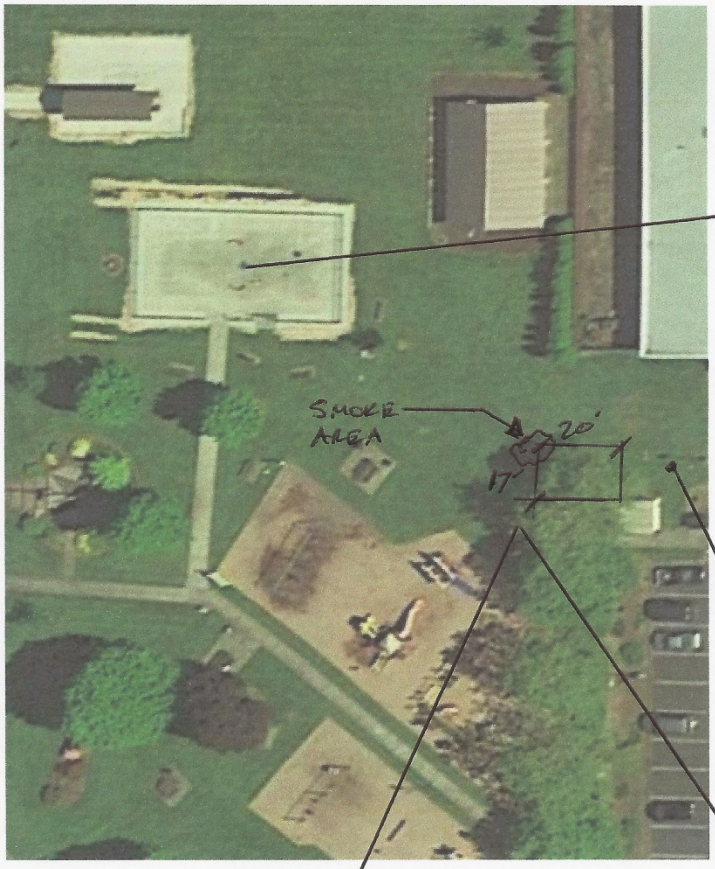
Comments

- See attached aerial for locations.
- Picture No. 1 – Smoke coming up from the new splash pad play area drain.
- Picture No. 3 & 4 – Approximate10 sq. ft. area in the lawn was smoking. No cleanout found. Assumed to be broken sewer lateral or main. 20' north and 17' west of northwest bathroom corner.
-
-

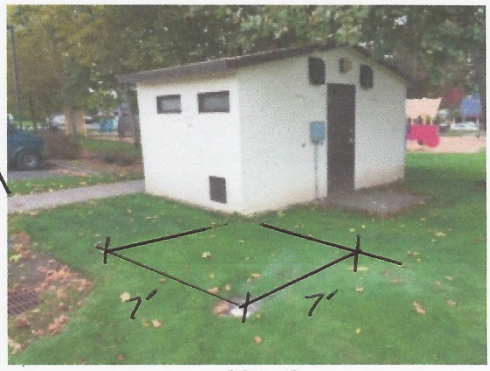
SKETCH

See Attached

Molalla Smoke Testing
Report No. 2-62
Fox Park



No. 1



No. 2

No. 3

No. 4

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Metzler Ave.	
Project Name :		Location / Address:	
100.26	2-63	BC_A3	BC_A3_2
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Wednesday, October 18, 2017	
Tested By:		Date:	

TESTING CODE			**PHOTOGRAPHS**	
			No.	Description
LSL	=	Leaking Service Lateral	1	Smoke from mainline cleanout cover
LML	=	Leaking Main Line		
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke from mainline cleanout cover located at 4th St. and Metzler Ave.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Mary Drive	
Project Name :		Location / Address:	
100.26	3-1	BC_C1	Manhole No. BC_C1_19
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/16/17
Tested By:			Date:

TESTING CODE

LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	**=**	**Leaking Manhole**
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Leaking Manhole

Comments

- Smoke coming from crack in pavement east of the manhole lid.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Mary Drive	
Project Name :		Location / Address:	
100.26	3-2	BC_C1	Manhole No. BC_C1_10
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/16/17
Tested By:			Date:

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from crack in pavement east of the manhole lid.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Mary Drive	
Project Name :		Location / Address:	
100.26	3-3	BC_C1	Manhole No. BC_C1_13
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/16/17
Tested By:			Date:

TESTING CODE

LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	**=**	**Leaking Manhole**
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Leaking Manhole

Comments

- Smoke coming from crack in pavement south of the manhole lid.
-
-
-
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		1000 Harvey Ln	
Project Name :		Location / Address:	
100.26	3-4	BC_C	BC_C_10 to BC_C_22
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/16/17
Tested By:			Date:

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout has broken pipe and missing lid.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

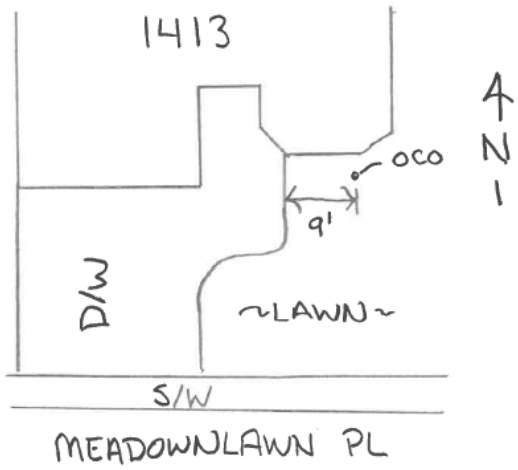
Molalla Smoke Testing		1413 Meadowlawn PL	
Project Name :		Location / Address:	
100.26	3-5	BC_C	BC_C_26 to BC_C_59
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout has broken lid.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

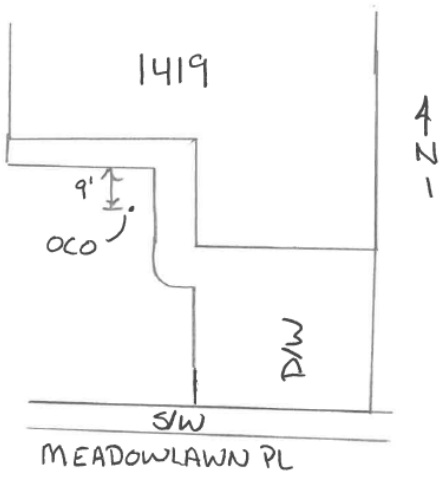
Molalla Smoke Testing		1419 Meadowlawn PL	
Project Name :		Location / Address:	
100.26	3-6	BC_C	BC_C_26 to BC_C_59
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout does not have lid.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

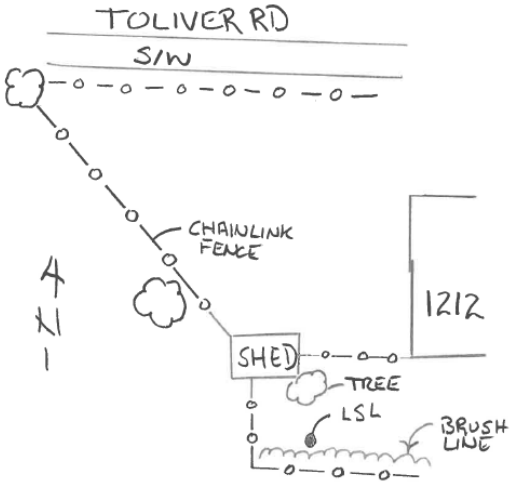
Molalla Smoke Testing		1212 Toliver Road	
Project Name :		Location / Address:	
100.26	3-7	TL	TL_36 to TL_37
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	**Leaking Service Lateral**	No.	Description
LML	=	Leaking Main Line	1	Leaking Service Lateral?
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Could not confirm (Private property).
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Toliver Road	
Project Name :		Location / Address:	
100.26	3-8	TL	TL_36 and TL_37
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin	2	Leaking Manhole
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Photo 1 (TL_37): Design may allow for inflow.
- Photo 2 (TL_36): Design may allow for inflow.
- Note: Manhole Inflow Protector may help with possible inflow issues.
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		737 Trinity Ct	
Project Name :		Location / Address:	
100.26	3-9	TL	TL_SB6_2 to TL_SB6_3
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/16/17
Tested By:			Date:

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Above grade cleanout does not have lid.
-
-
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-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

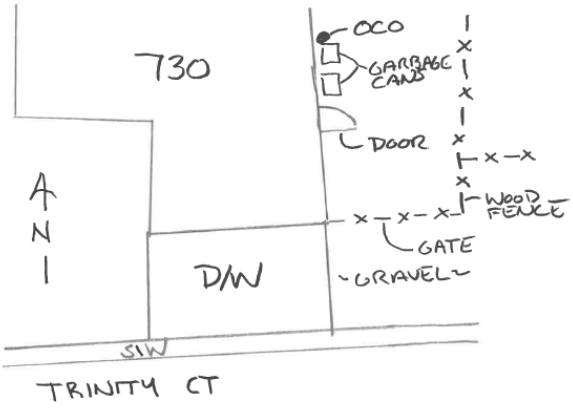
Molalla Smoke Testing		730 Trinity Ct	
Project Name :		Location / Address:	
100.26	3-10	TL	TL_SB6_2 to TL_SB6_4
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout?
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Behind gate. Could not confirm (Private property).
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		707 Toliver Road	
Project Name :		Location / Address:	
100.26	3-11	TL	TL_ 27 to TL_28
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	**=**	**Open Cleanout**
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Open Cleanout

Comments

- Broken cleanout lid.
-
-
-
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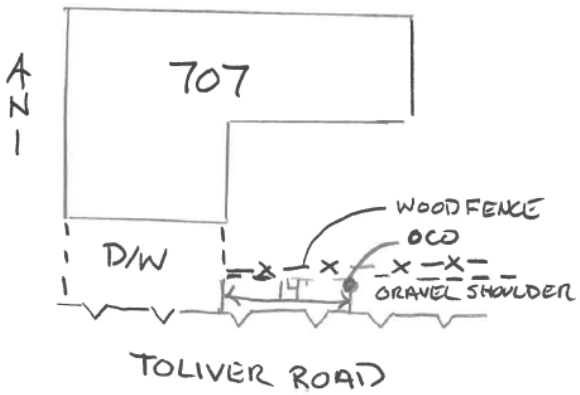
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

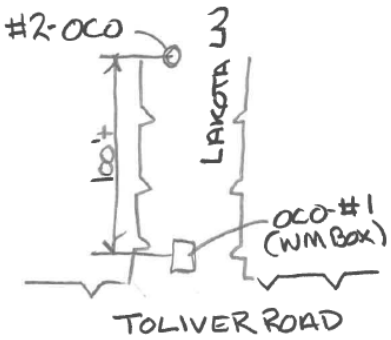
Molalla Smoke Testing		Lakota Ln (Near Toliver Road)	
Project Name :		Location / Address:	
100.26	3-12	TL	TL_ 24 to TL_25
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin	2	Open Cleanout
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Photo 1: Water meter lid smoking below grade.
- Photo 2: Smoke around cleanout lid and cracks in pavement.
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		405 Ridings Avenue	
Project Name :		Location / Address:	
100.26	3-13	TL_F	TL_F_2 to TL_F_29
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Above grade cleanout lid has holes drilled in top.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		406 Ridings Avenue	
Project Name :		Location / Address:	
100.26	3-14	TL_F	TL_F_2 to TL_F_20
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout has grated lid.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Ridings Avenue	
Project Name :		Location / Address:	
100.26	3-15	TL_F	TL_F_20
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from cracks in pavement south of the manhole.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

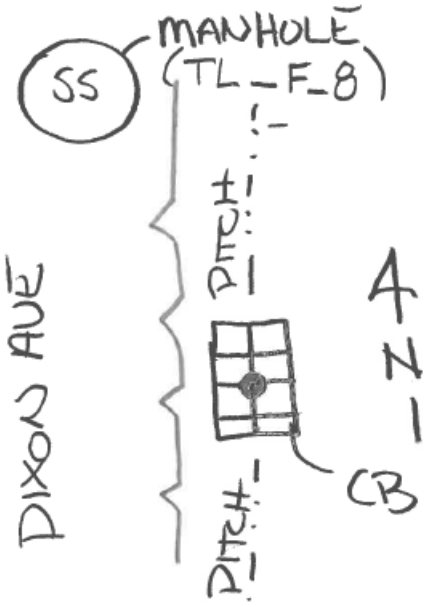
Molalla Smoke Testing		Dixon Avenue	
Project Name :		Location / Address:	
100.26	3-16	TL_F	TL_F_7 to TL_F_8
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Catch Basin
CB	**=**	**Catch Basin**		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from catch basin.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		W Heintz Street	
Project Name :		Location / Address:	
100.26	3-17	TL_F	East of MH TL_F_11
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/17/17
Tested By:			Date:

TESTING CODE	**PHOTOGRAPHS**	
LSL = Leaking Service Lateral	No.	Description
LML = Leaking Main Line	1	Open Cleanout
CB = Catch Basin		
LMH = Leaking Manhole		
OCO = Open Cleanout		
PHV = Plugged House Vent		
RD = Roof Drain		

Comments

- Cleanout lid recessed below pavement grade. Smoke coming from sides of lid and center.
-
-
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-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Leroy Avenue	
Project Name :		Location / Address:	
100.26	3-18	TL_F	TL_F_18
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Manhole smoking from southwest side next to ditch.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Lynn Ln.	
Project Name :		Location / Address:	
100.26	3-19	TL_F	West of MH TL_F_18
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout pipe broken next to ditch.
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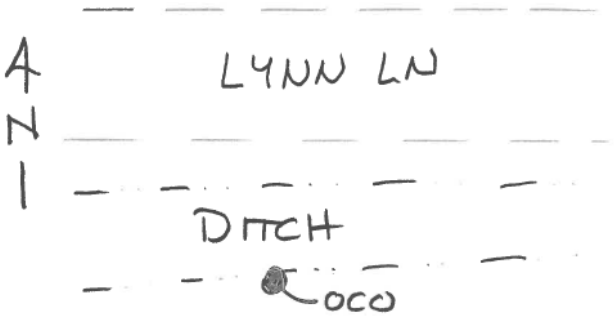
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		509 & 507B Leroy Avenue (Map shows same lot)	
Project Name :		Location / Address:	
100.26	3-20	TL_F	TL_F_9 to TL_F_18
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	None
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	**=**	**Plugged House Vent**		
RD	=	Roof Drain		

Comments

- OCO (509 Leroy Ave): Cleanout had cast iron lid but was smoking from sides in yard.
- PHV (507B Leroy Ave): Garage off of house 507B had smoke coming from underneath.
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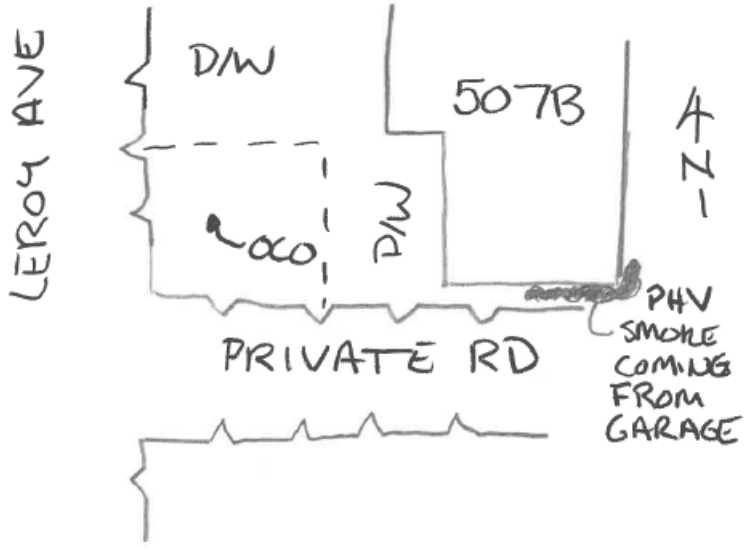
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		317 Leroy Avenue	
Project Name :		Location / Address:	
100.26	3-21	BC_A4	BC_A4_1 to BC_A4_2
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout with cast iron lid smoking from sides of lid in yard.
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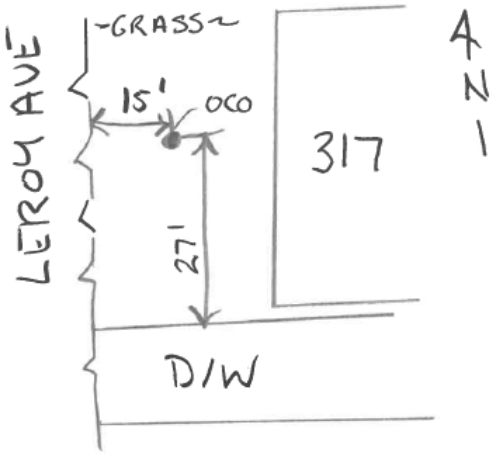
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Les Schwab	
Project Name :		Location / Address:	
100.26	3-22	TL_SB10	TL_SB10_1 to TL_SB10_2
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Broken cleanout pipe.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Safeway	
Project Name :		Location / Address:	
100.26	3-23	BC_SB1	BC_SB1_4
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from crack in pavement south of the manhole lid.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		453 Industrial Way	
Project Name :		Location / Address:	
100.26	3-24	BC_SB2	BC_SB2_6 to BC_SB2_8
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from ground at base of cleanout riser pipe.
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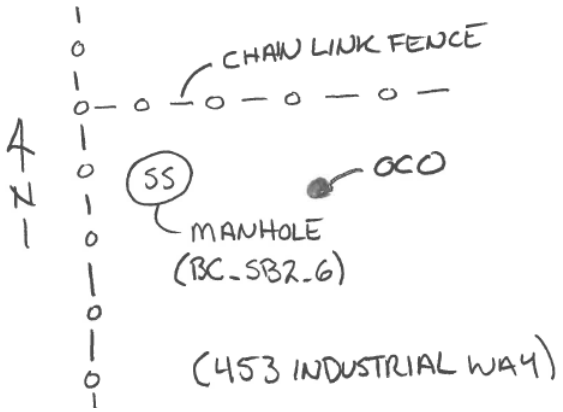
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		1406 W Main Street	
Project Name :		Location / Address:	
100.26	3-25	BC_B	BC_B_10 to BC_B_15
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/17/17
Tested By:			Date:

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout pipe broken at surface.
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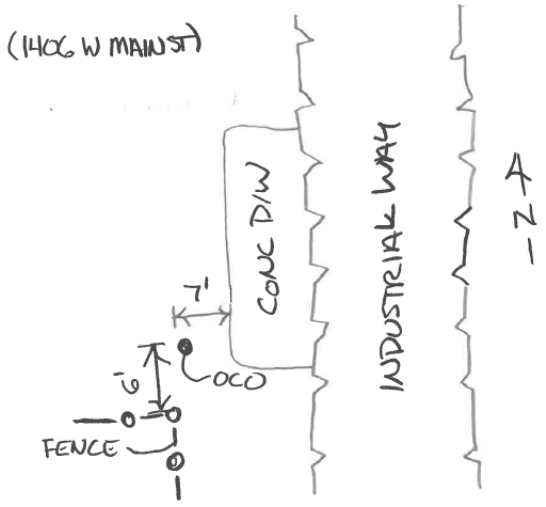
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Woodburn-Estacada Highway 211	
Project Name :		Location / Address:	
100.26	3-26	BC_A	BC_A_35
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from manhole cone and grade ring in ditch.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		500 W Main St (O'Reilly Auto Parts)	
Project Name :		Location / Address:	
100.26	3-27	BC_A2	BC_A_41 to BC_A2_2
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Broken cleanout cap.
-
-
-
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		524 W Main St (Car Wash)	
Project Name :		Location / Address:	
100.26	3-28	BC_A2	BC_A2_1 to BC_A2_2
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Leaking Vault

Comments

- Smoke coming from vault in parking lot west of car wash.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		821 E 8th Street	
Project Name :		Location / Address:	
100.26	3-29	TL_A1	TL_A1_1 to TL_A1_6
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout has grated lid.
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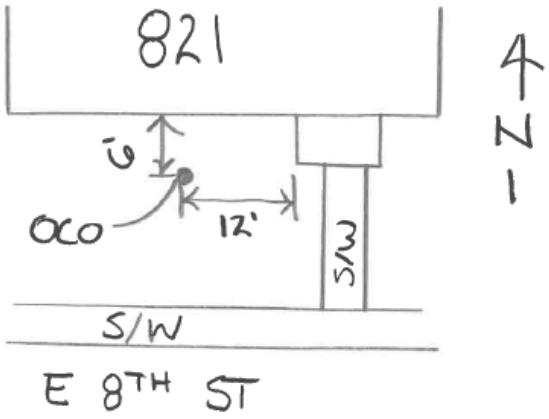
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		802 Mathias Ct.	
Project Name :		Location / Address:	
100.26	3-30	TL_A1	TL_A1_4 to TL_A1_6
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/17/17
Tested By:			Date:

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout does not have cap.
-
-
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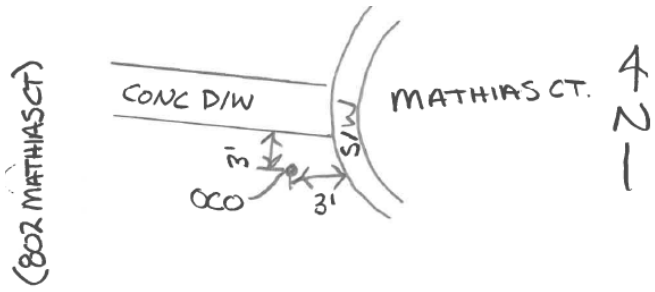
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		E 7th Street	
Project Name :		Location / Address:	
100.26	3-31	TL_A2	East of TL_A2_5
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/17/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from cracks in asphalt around cleanout lid.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		May Street	
Project Name :		Location / Address:	
100.26	3-32	BC_A1	BC_A1_4 and BC_A1_5
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			**PHOTOGRAPHS**	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole (BC_A1_4)
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Manhole BC_A1_4: Smoke coming from crack in pavement west of the manhole lid.
- Manhole BC_A1_5: Smoke coming from crack in pavement near manhole lid.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		308 May Street	
Project Name :		Location / Address:	
100.26	3-33	BC_A1	BC_A1_4 to BC_A1_5
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout?
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Could not identify source of smoke.
-
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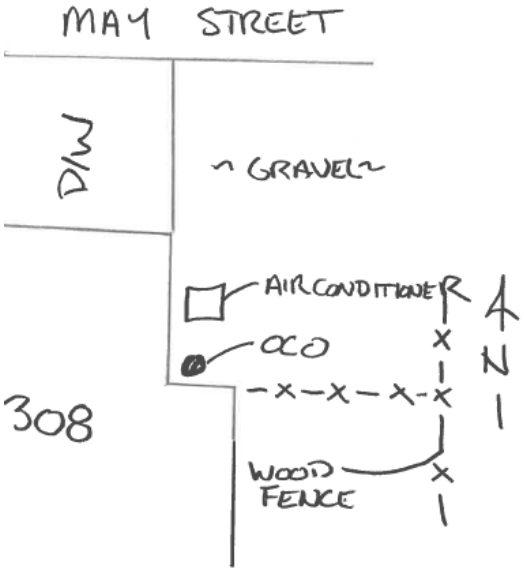
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		South of S Taylor Ct.	
Project Name :		Location / Address:	
100.26	3-34	BC_A1	BC_A1_9
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from grass around manhole in wetland area.
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-
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-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		South of S Taylor Ct.	
Project Name :		Location / Address:	
100.26	3-35	BC_A1	BC_A1_10
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking Manhole
CB	=	Catch Basin		
LMH	**=**	**Leaking Manhole**		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from grass around manhole in wetland area.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		612 S Molalla Avenue	
Project Name :		Location / Address:	
100.26	3-36	BC_A	BC_A_15 to BC_A_16
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Cleanout does not have cap.
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-
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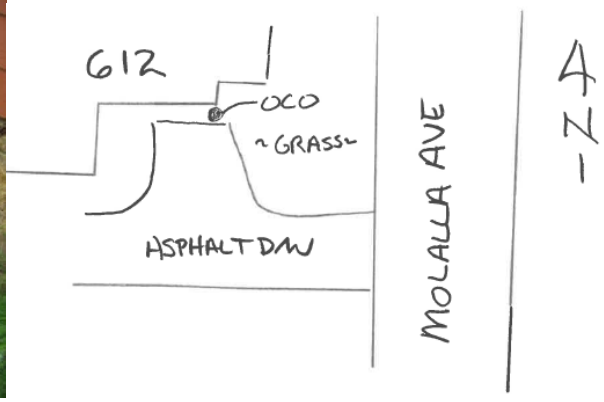
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		508 Metzler Avenue	
Project Name :		Location / Address:	
100.26	3-37	BC_A	BC_A_14 to BC_A_24
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/18/17
Tested By:			Date:

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	**=**	**Open Cleanout**
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Open Cleanout

Comments

- Cleanout smoking around cast iron lid. Plastic cleanout cap behind cast iron lid also smoking.
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-
-
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		604 S Molalla Avenue	
Project Name :		Location / Address:	
100.26	3-38	BC_A	East of BC_A_24
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Open Cleanout

Comments

- OCO (Apartment No. 9): Smoke coming from cleanout pipe at ground level in brush.
- PHV (Apartment No. 3): Smoke coming from bathroom sink.
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		135 Hart Avenue	
Project Name :		Location / Address:	
100.26	3-39	BC_A	BC_A_12 to BC_A_13
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	**Leaking Service Lateral**	No.	Description
LML	=	Leaking Main Line	1	Leaking Service Lateral
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from under bricks, rock, and old retaining wall.
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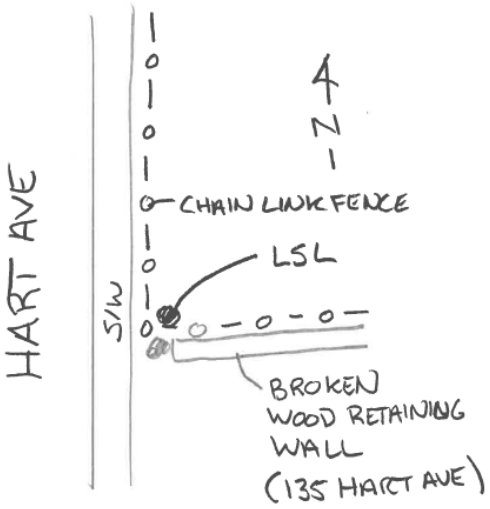
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		202 W 3rd Street	
Project Name :		Location / Address:	
100.26	3-40	BC_A	BC_A_11 to BC_A_27
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Roof Drain
2	Open Cleanout?

Comments

- Smoke coming from gutter drain. Roof drain might connect into open cleanout.
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SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		205 W 4th Street	
Project Name :		Location / Address:	
100.26	3-41	BC_A	East of BC_A_10
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open Cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	**=**	**Open Cleanout**		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from broken cleanout cap.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		209 W 4th Street	
Project Name :		Location / Address:	
100.26	3-42	BC_A	East of BC_A_10
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/18/17	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	**Leaking Service Lateral**	No.	Description
LML	=	Leaking Main Line	1	Leaking Service Lateral
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Smoke coming from grass.
-
-
-
-

SKETCH

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		640 Anne Lane	
Project Name :		Location / Address:	
100.26	4-1	BC_C1	BC_C1_32
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Leaking around manhole rim.
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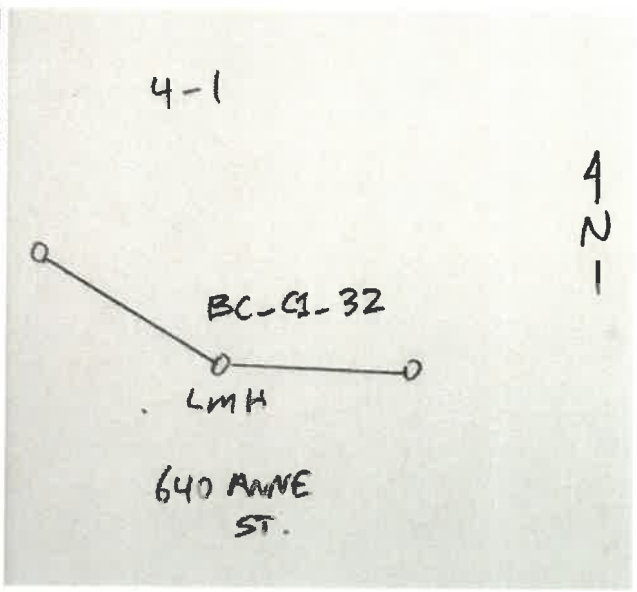
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		698 Columbia	
Project Name :		Location / Address:	
100.26	4-2	BC_C1	BC_C1_17
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE

LSL = Leaking Service Lateral
LML = Leaking Main Line
CB = Catch Basin
LMH = Leaking Manhole
OCO = Open Cleanout
PHV = Plugged House Vent
RD = Roof Drain

PHOTOGRAPHS

No.	Description
1	Leaking manhole

Comments

- Leaking around manhole rim.
-
-
-
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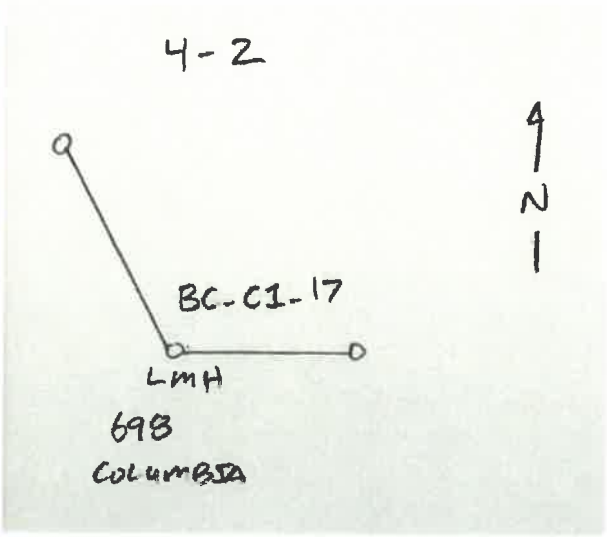
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		668 Columbia	
Project Name :		Location / Address:	
100.26	4-3	BC_C1	BC_C1_18
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Leaking around manhole rim.
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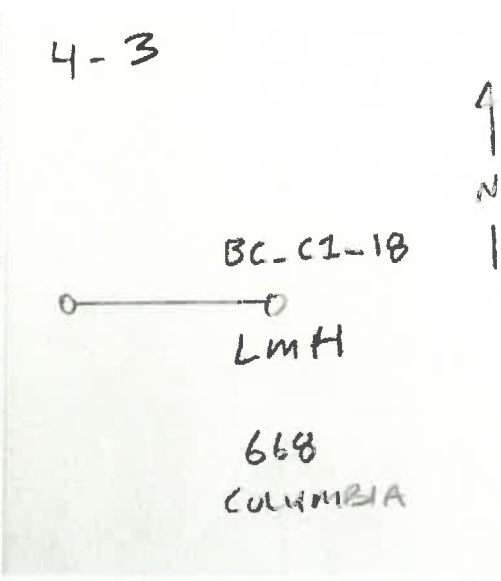
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		1012 Julie Ln	
Project Name :		Location / Address:	
100.26	4-4	BC_C	BC_C_12
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Leaking around manhole rim.
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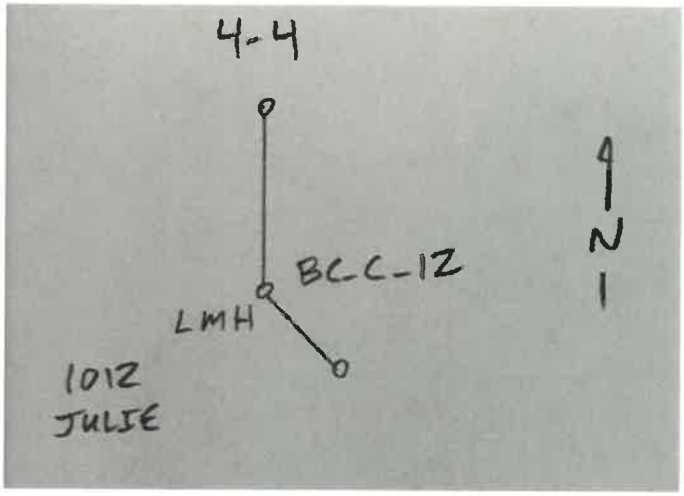
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		1000 Julie Ln	
Project Name :		Location / Address:	
100.26	4-5	BC_C	BC_C_13
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Leaking around manhole rim and surrounding cracks in asphalt.
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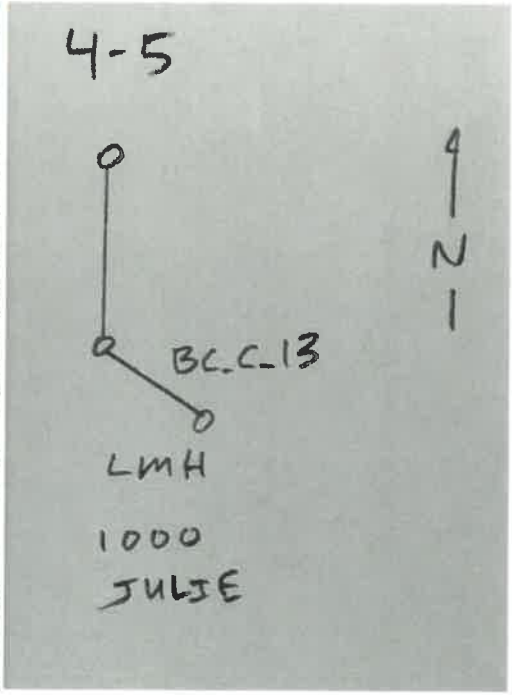
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		1015 Mountain View	
Project Name :		Location / Address:	
100.26	4-6	BC_C	BC_C_49 to BC_C_50
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Open cleanout

Comments

- Open cleanout located immediately to the right of the front door. Right next to hose reel.
- Also refer to aerial on following page.
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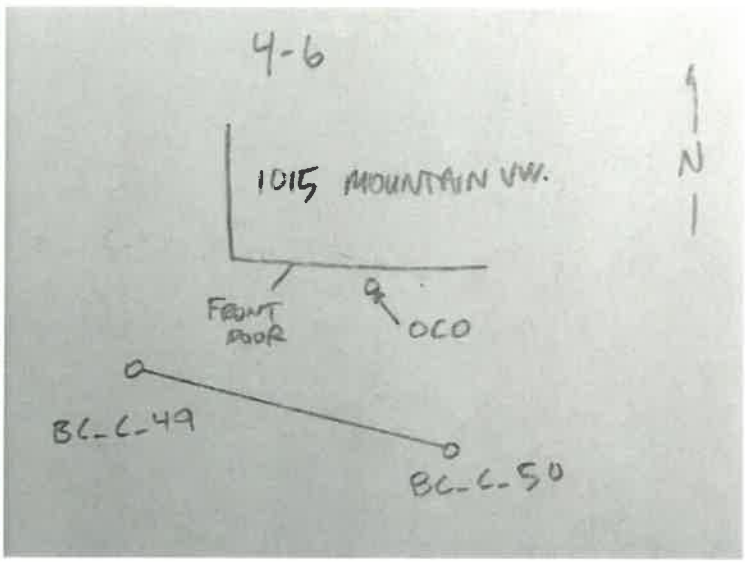
SKETCH



AERIAL


Big Meadow Park
1015 Mountain View Lane
Mountain View Ln
Open Cleanout

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		1045 Cascade Lane	
Project Name :		Location / Address:	
100.26	4-7	BC_C	BC_C_39 to BC_C_46
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Open cleanout
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Open cleanout located about 10 ft to the left of the front door. Right in front of the front window.
- Also refer to aerial on following page.
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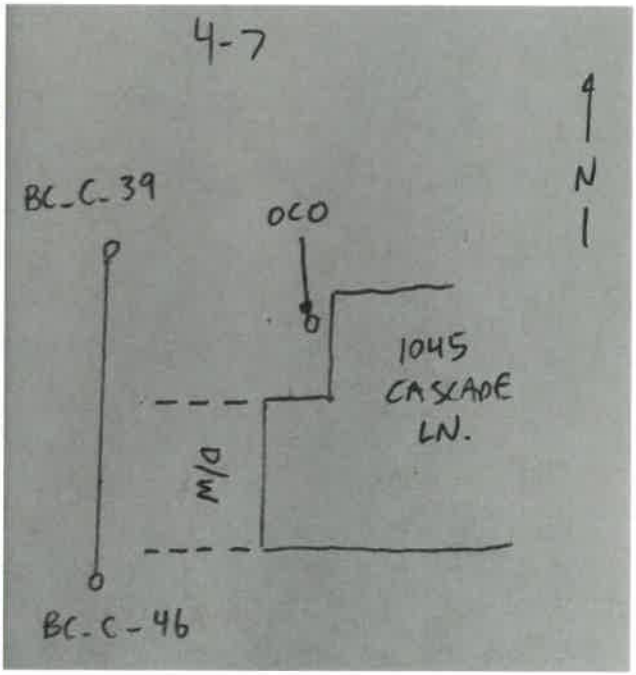
SKETCH



AERIAL

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		906 Toliver Rd	
Project Name :		Location / Address:	
100.26	4-8	TL	TL_31 and TL_32
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Open cleanout. House was undergoing some landscaping and upgrades. Open cleanout may only be temporary.
- Also refer to aerial on following page.
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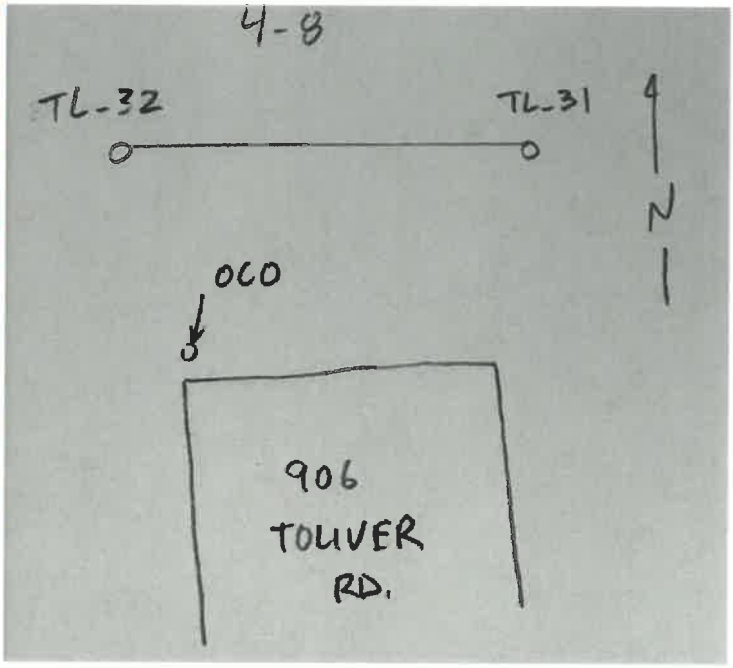
SKETCH



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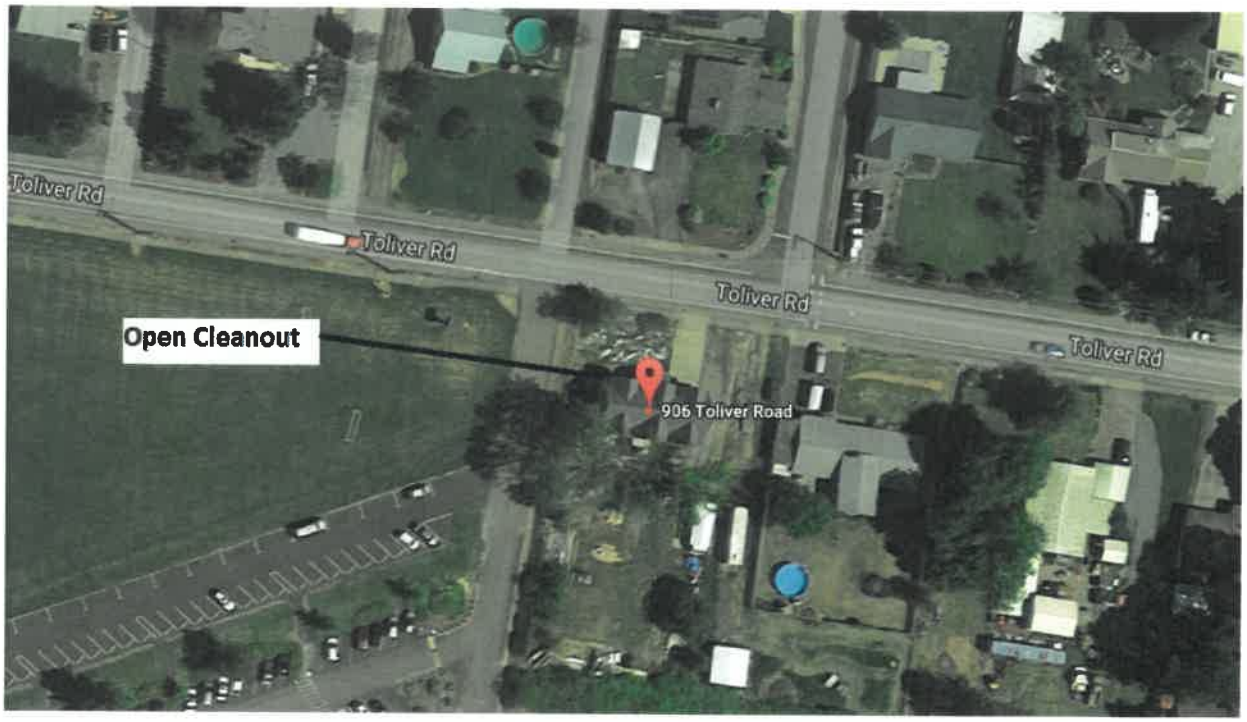
Toliver Rd
Toliver Rd
Toliver Rd
Toliver Rd
Toliver Rd
Open Cleanout
906 Toliver Road

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		Molalla River Middle School	
Project Name :		Location / Address:	
100.26	4-9	TL	TL_10
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking manhole
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Manhole was located at perimeter of soccer field. Manhole was leaking significantly around adjacent soil.
- Also refer to aerial on following page.
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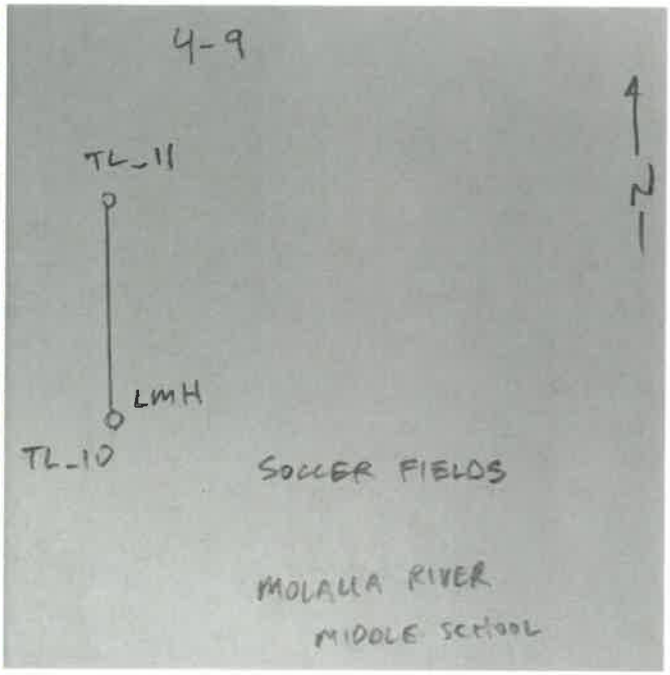
SKETCH



AERIAL No. 1

AERIAL No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		580 N. Hezzie	
Project Name :		Location / Address:	
100.26	4-10	TL	TL_11 to TL_12
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Open cleanout adjacent to electrical box, in between driveways.
- Also refer to aerial on following page.
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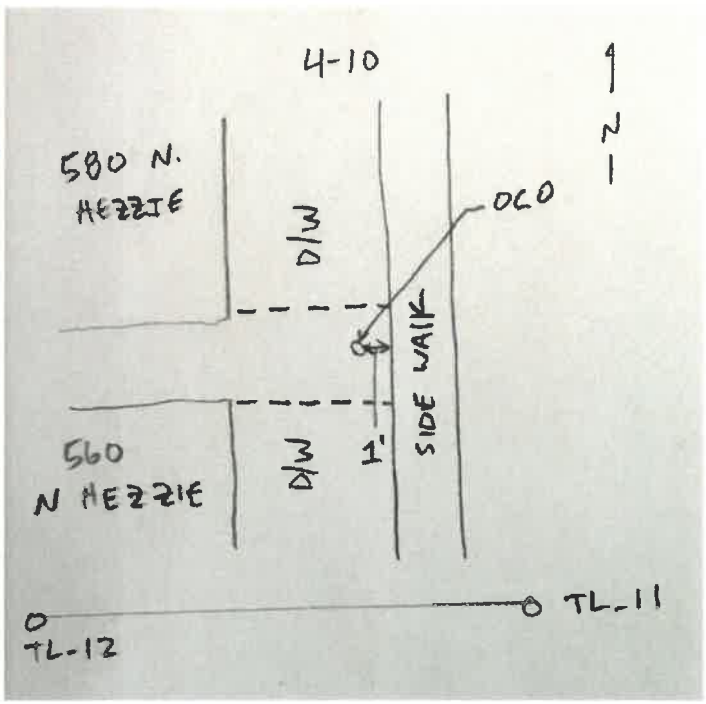
SKETCH



AERIAL


Toliver Rd
Toliver Rd
N Hezzie Ln
580 North Hezzie Lane
Open Cleanout

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		806 Toliver Rd	
Project Name :		Location / Address:	
100.26	4-11	TL	TL 30 to TL 42
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Open cleanout located to the right of the front porch.
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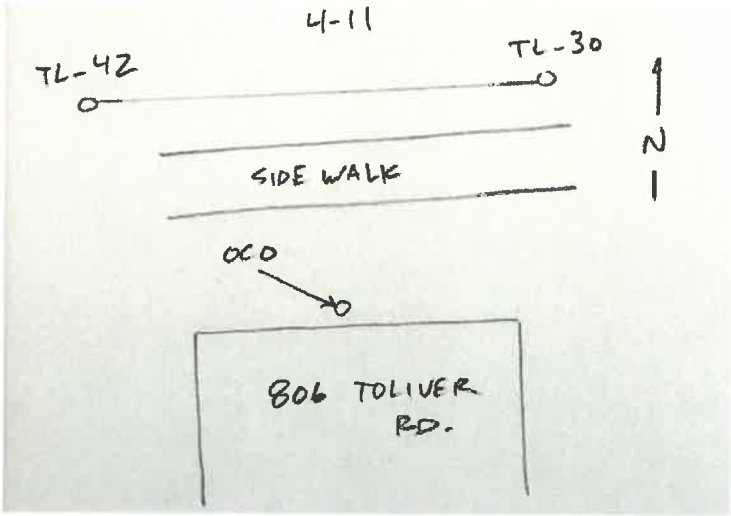
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		802 Toliver Road	
Project Name :		Location / Address:	
100.26	4-12	TL	TL_8 to TL_30
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Roof drain connected
2	Location of deficiency.

Comments

- Roof drain connected on northwest corner of house.
- Also refer to aerial on following page.
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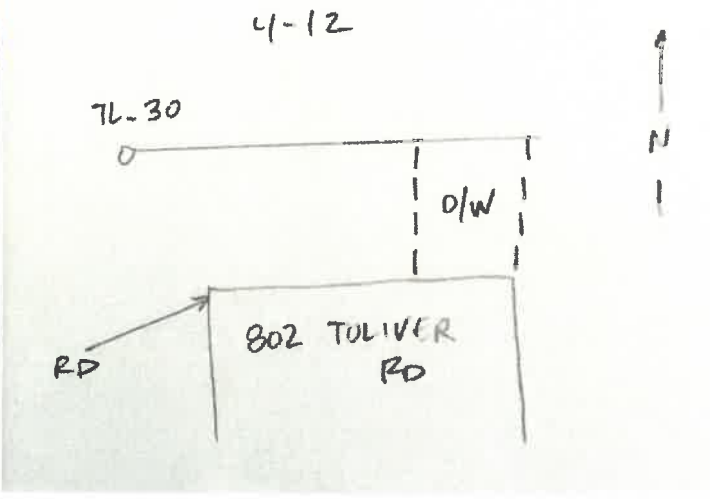
SKETCH



AERIAL

PHOTOGRAPH No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		756 Toliver Road	
Project Name :		Location / Address:	
100.26	4-13	TL	TL_29
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Manhole was leaking around rim and surrounding cracks around manhole.
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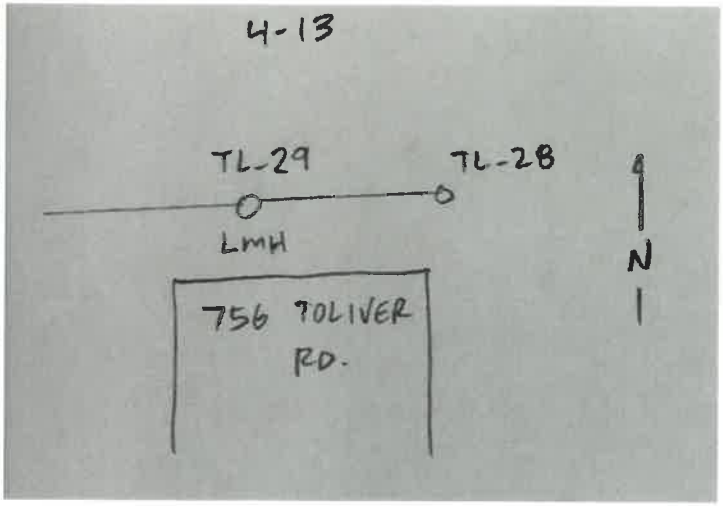
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		754 Toliver	
Project Name :		Location / Address:	
100.26	4-14	TL	TL_27 and TL_28
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking service lateral
CB = Catch Basin		2	Location of deficiency.
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Service lateral was leaking significantly immediately south of chain link fence. With brush, it was difficult to see, but there was a large amount of smoke, and the area was recessed.
- Also refer to aerial on following page.
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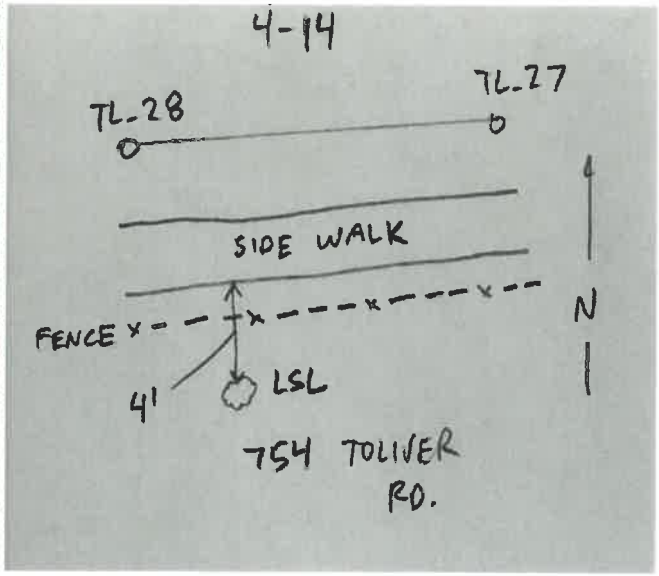
SKETCH



AERIAL

PHOTOGRAPH No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		516 Ridings	
Project Name :		Location / Address:	
100.26	4-15	TL	TL_27 and TL_28
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/16/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Open cleanout
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Open cleanout west of side walk. Exposed pipe was cracked.
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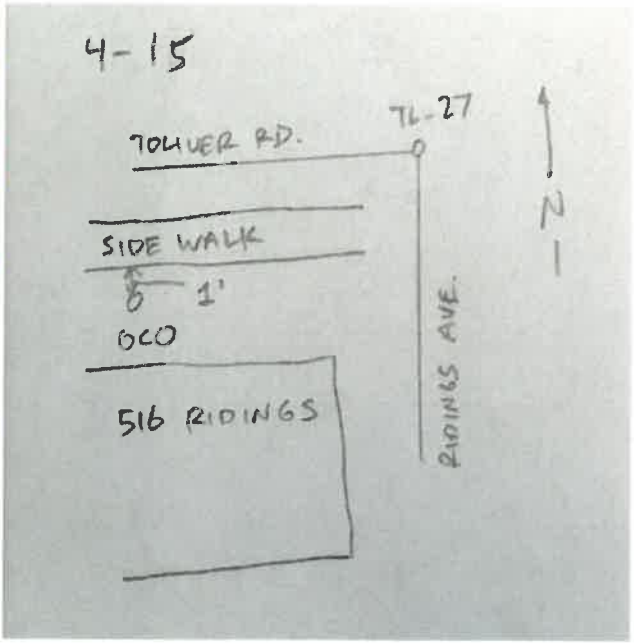
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		745 Zepher Way	
Project Name :		Location / Address:	
100.26	4-16	TL	TL_SB4_2 and TL_SB4_3
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Two open cleanouts
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Two open cleanouts located approximately two and five feet from north side of drive way.
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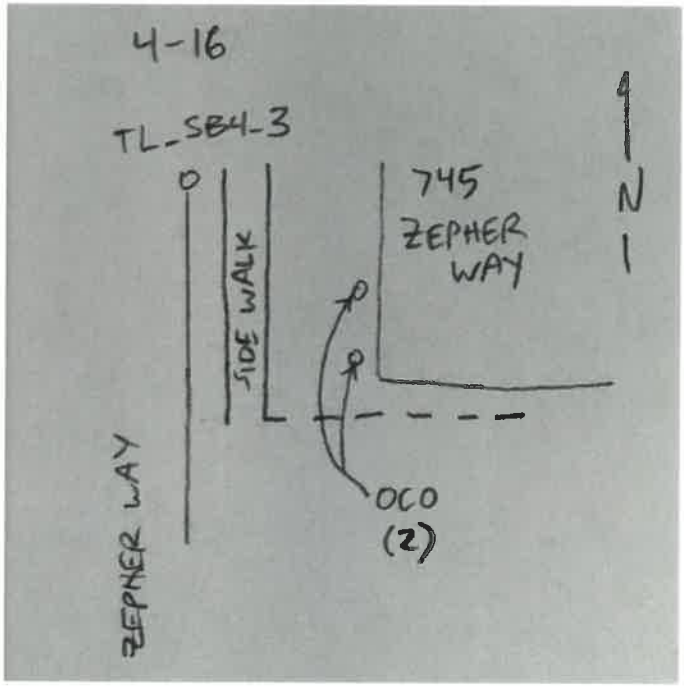
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		152 Dixon	
Project Name :		Location / Address:	
100.26	4-17	TL_F	TL_F_5 and TL_F_7
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE		
LSL	=	Leaking Service Lateral
LML	=	Leaking Main Line
CB	=	Catch Basin
LMH	=	Leaking Manhole
OCO	=	Open Cleanout
PHV	=	Plugged House Vent
RD	=	Roof Drain

PHOTOGRAPHS

No.	Description
1	Catch basin
2	Location of deficiency.

Comments

- Catch basin is tied into the sewer system. Catch basin is located in roadway ditch.
- Also refer to aerial on following page.
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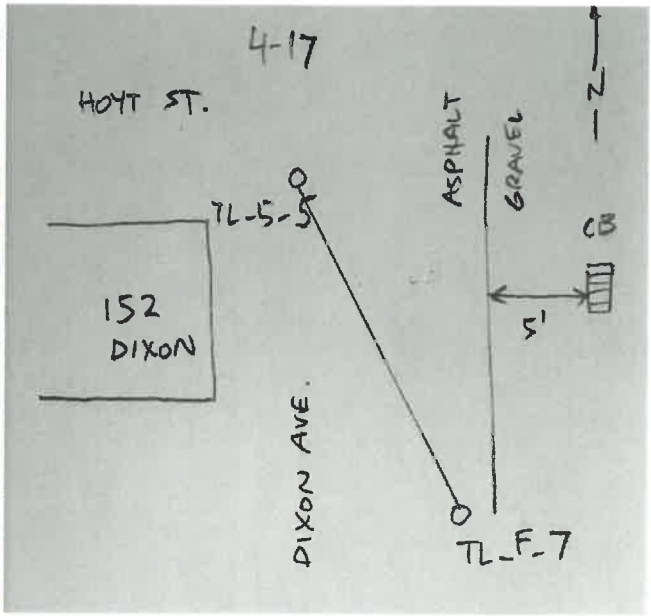
SKETCH



AERIAL

PHOTOGRAPH No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		201 Dixon	
Project Name :		Location / Address:	
100.26	4-18	TL_F	TL_F_28
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Manhole located to the west of the parking lot was leaking into surrounding soil.
- Also refer to the aerial on the following page.
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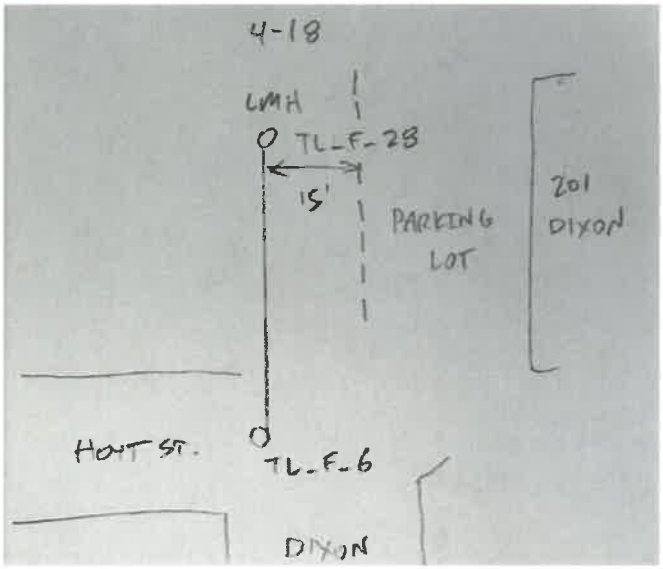
SKETCH



AERIAL

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		501 Kae Ct.	
Project Name :		Location / Address:	
100.26	4-19	TL_F	TL_F_12
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking manhole
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- We set up the smoke machine on this manhole and smoke exited from cracks in adjacent asphalt.
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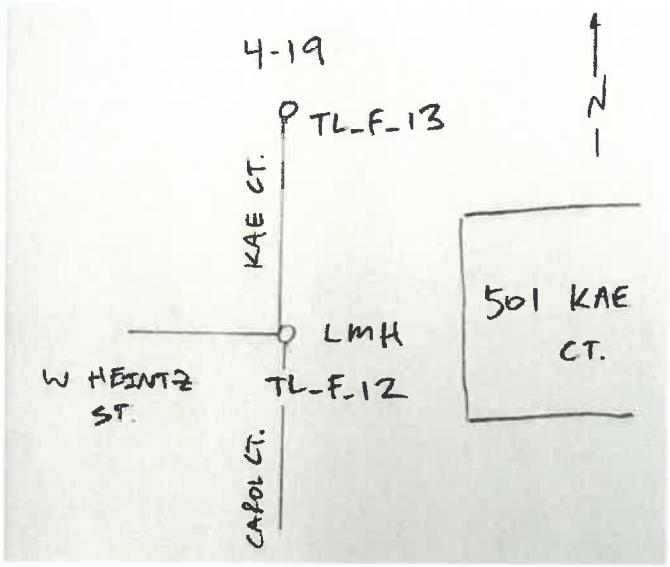
SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		31291 South Highway 213	
Project Name :		Location / Address:	
100.26	4-20	BC_SB1	BC_C_91
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Floor drains connected
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- All of the floor drains in Les Schwab are connected to the gravity sewer mains. Smoke exited throughout floor drains.
- Picture is showing location where all of the floor drains are connected, to the south of the building.
- Also refer to aerial on following page.
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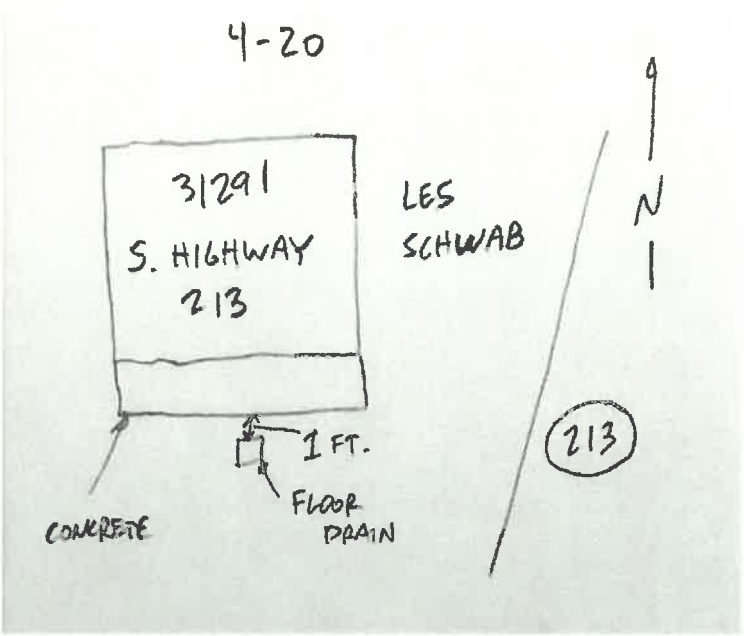
SKETCH



AERIAL

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		1535 Highway 211	
Project Name :		Location / Address:	
100.26	4-21	BC_SB1	BC_SB1_11 to SB_SB1_6
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Open cleanout
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- There was an open cleanout to the north of the Safeway building. The pipe is a few inches below ground level, and probably receives quite a bit of inflow.
- Also refer to aerial on following page.
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-
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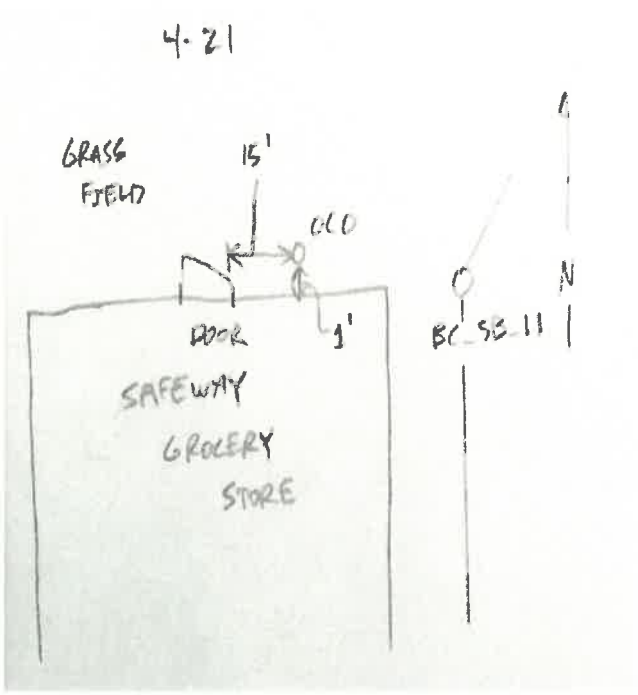
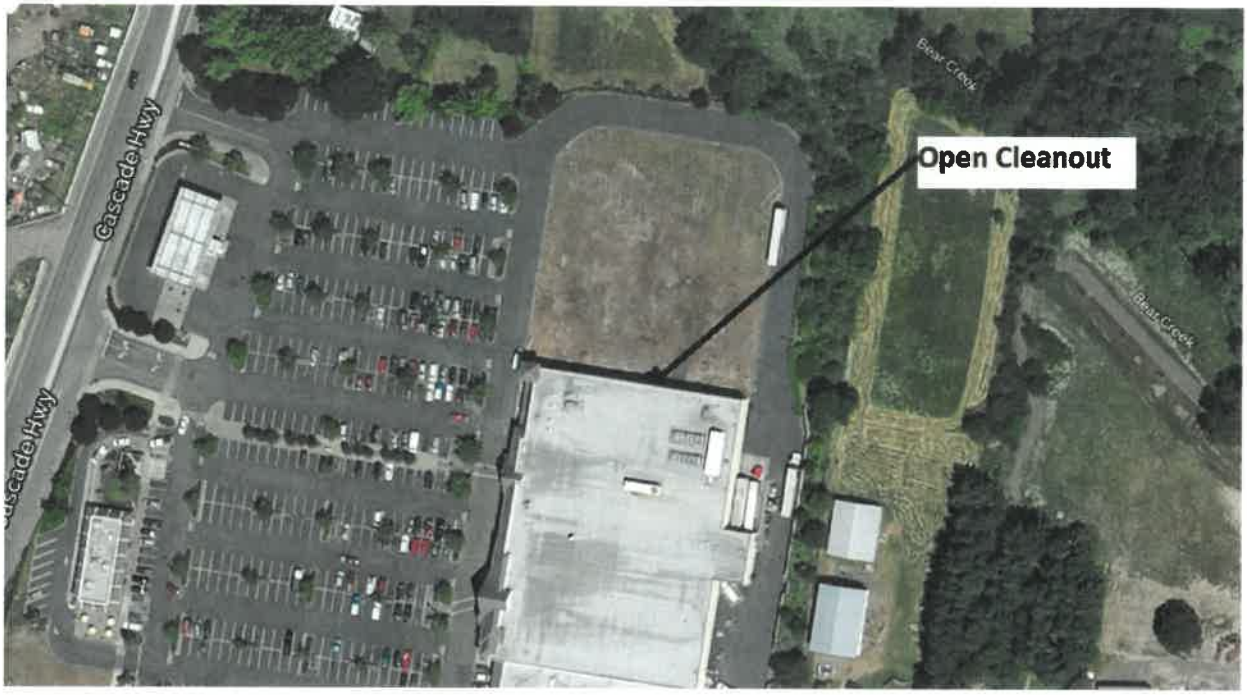
SKETCH



AERIAL


Open Cleanout
Cascade Hwy
Cascade Hwy
Bear Creek
Bear Creek

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

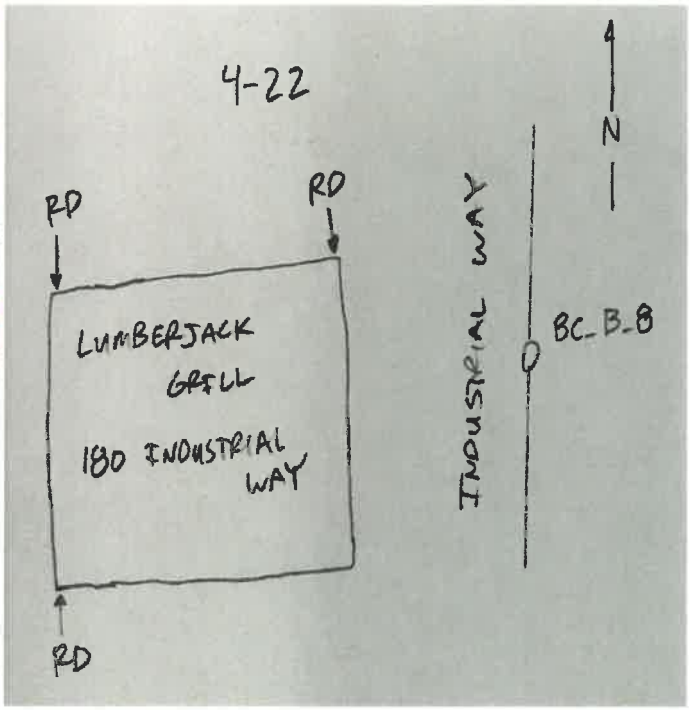
Molalla Smoke Testing		180 Industrial Way	
Project Name :		Location / Address:	
100.26	4-22	BC_B	BC_B_8 and BC_B_9
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Roof drains connected (multiple)
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

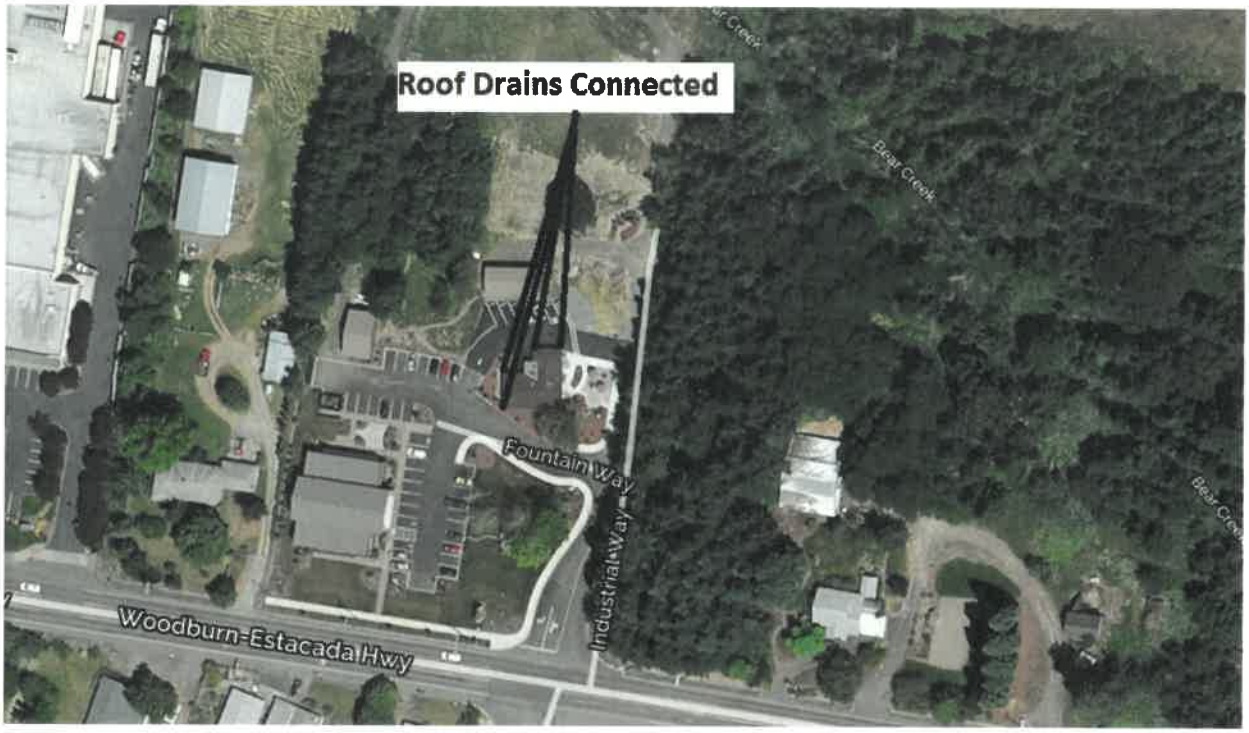
Comments

- The roof drains on the Lumberjack Restaurant are all connected to the sewer system. The roof drains to the north and south of the building are all connected. Photo shows drains connected to the north.
- Also refer to aerial on following page.
-
-
-

SKETCH



AERIAL


Roof Drains Connected
Bear Creek
Fountain Way
Industrial Way
Woodburn-Estacada Hwy

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

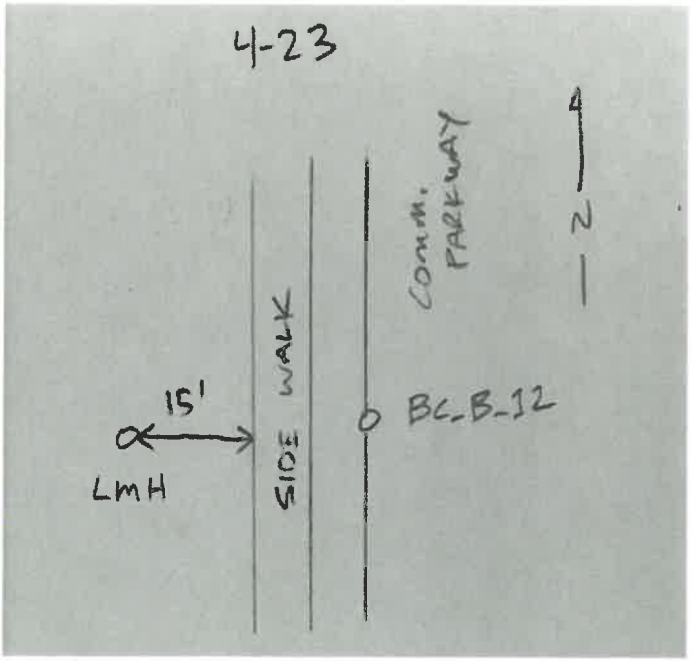
Molalla Smoke Testing		Commercial Parkway	
Project Name :		Location / Address:	
100.26	4-23	BC_B	BC_B_11 and BC_B_12
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin		2	Location of deficiency.
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

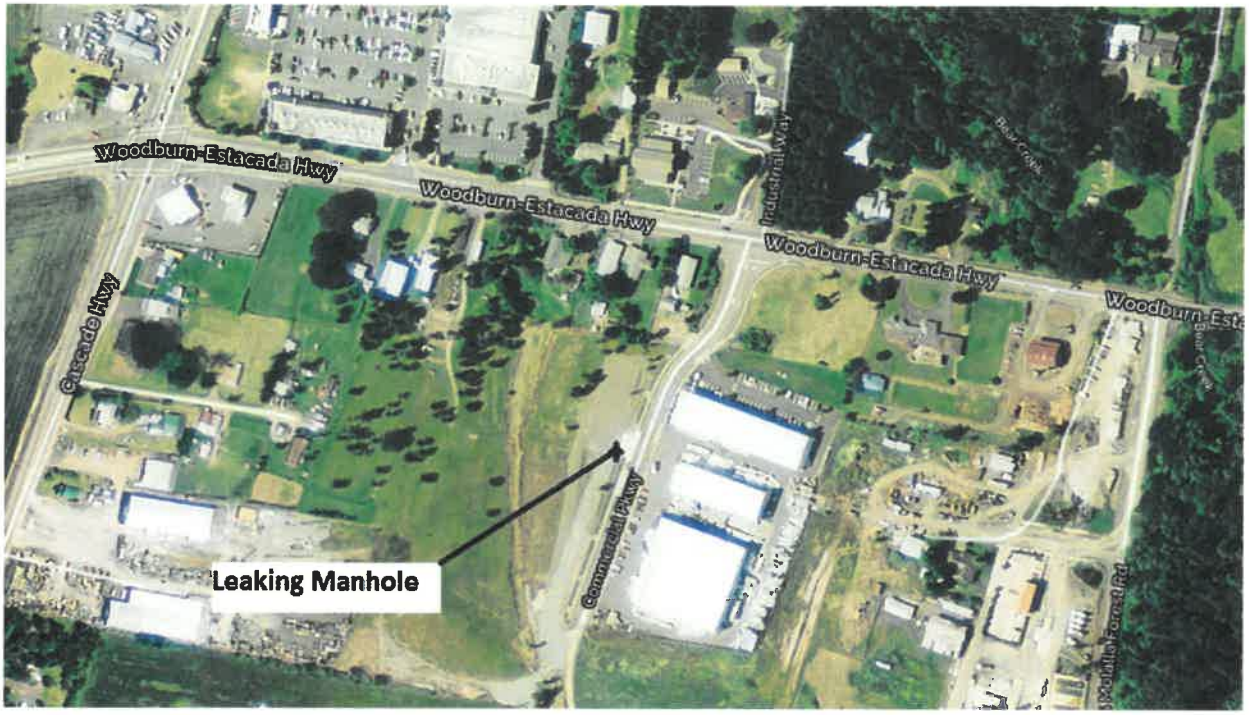
Comments

- Manhole was unmarked and located approximately 15ft to the west of the sidewalk, due west of BC_B_12. Smoke exited from around manhole.
- Also refer to aerial on following page.
-
-
-

SKETCH



AERIAL



PHOTOGRAPH No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

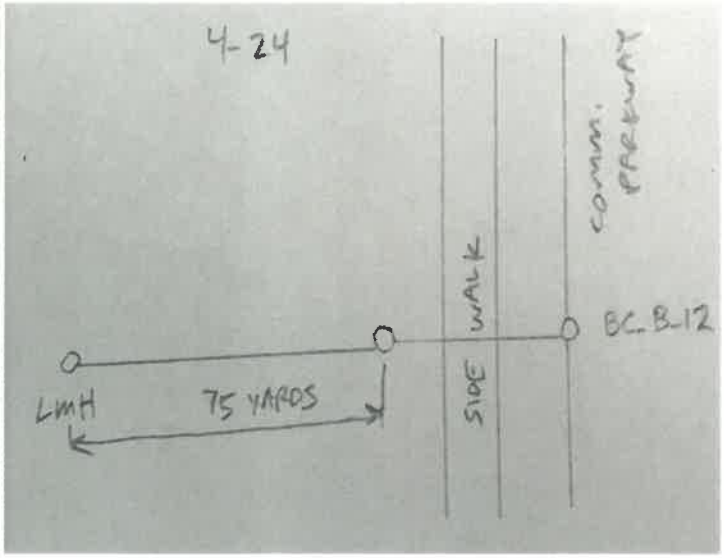
Molalla Smoke Testing		Commercial Parkway	
Project Name :		Location / Address:	
100.26	4-24	BC_B	BC_B_11 and BC_B_12
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking manhole
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

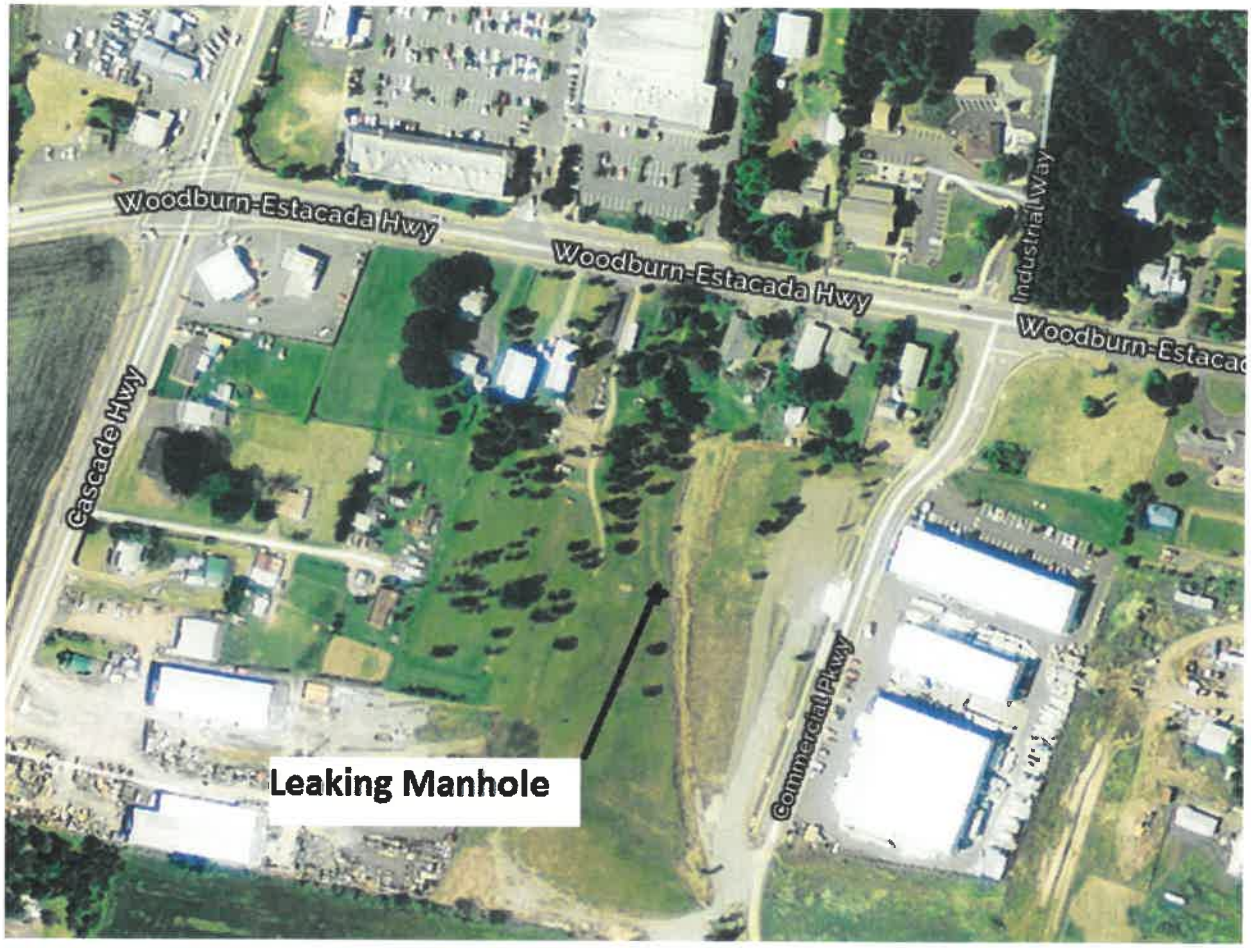
Comments

- Manhole was unmarked and located approximately 75 yards to the west of the sidewalk, due west of BC_B_12. Smoke exited from around manhole. Manhole is located in field.
- Also refer to aerial on following page.
-
-
-

SKETCH



AERIAL


Woodburn-Estacada Hwy
Woodburn-Estacada Hwy
Industrial Way
Woodburn-Estacad
Cascade Hwy
Commercial Pkwy
Leaking Manhole

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

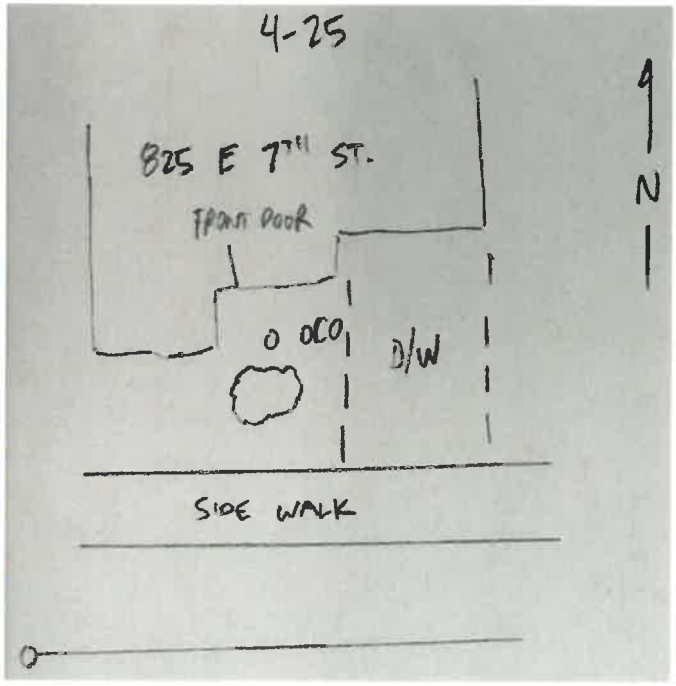
Molalla Smoke Testing		825 East 7th St.	
Project Name :		Location / Address:	
100.26	4-25	TL_A2	TL_A2_2 and TL_A2_5
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/17/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Open cleanout
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Open cleanout located immediately to the right of the front door.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

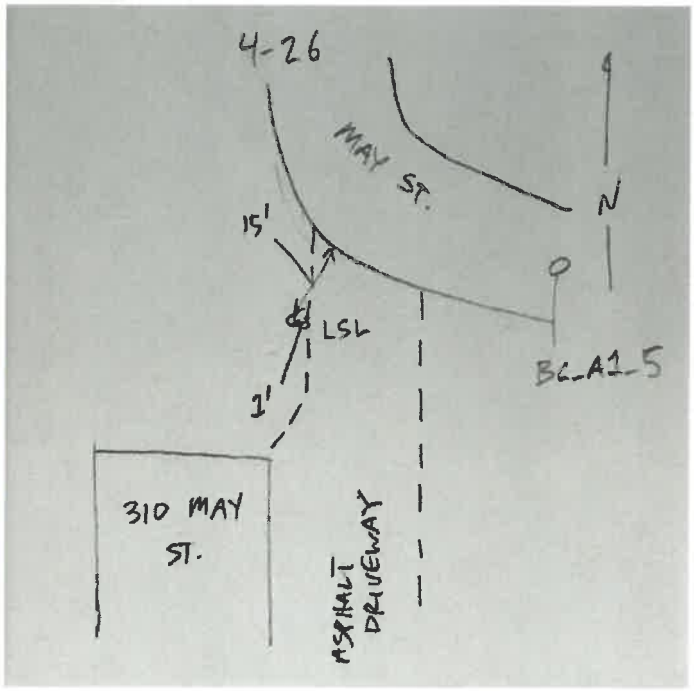
Molalla Smoke Testing		310 May Street	
Project Name :		Location / Address:	
100.26	4-26	BC_A1	BC_A1_5 and BC_A1_14
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking service lateral
CB = Catch Basin		2	Location of deficiency.
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Service lateral was leaking to the west of the drive way, approximately 15 ft from May Street.
- Also refer to aerial on following page.
-
-
-

SKETCH



AERIAL

PHOTOGRAPH No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

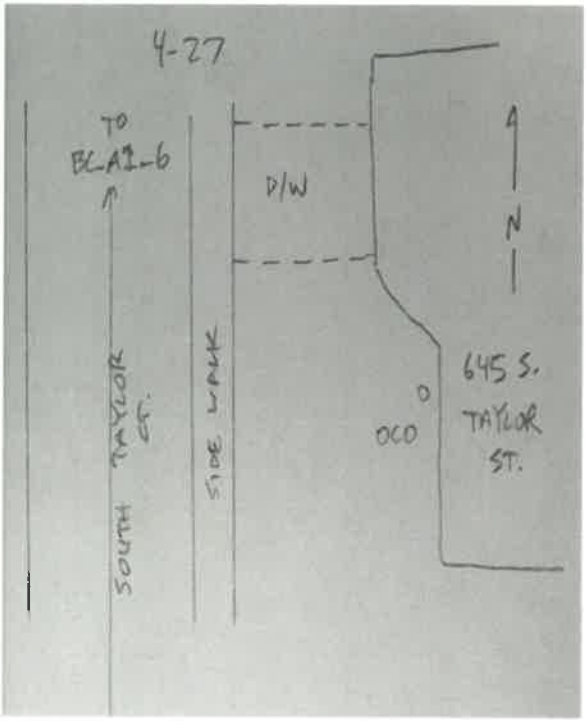
Molalla Smoke Testing		645 South Taylor Street	
Project Name :		Location / Address:	
100.26	4-27	BC_A1	BC_A1_6 and BC_A1_16
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Open cleanout
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Open cleanout located immediately to the right of the walk way, in the flower patches. It was leaking around the cleanout, suggesting something deficient underground.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

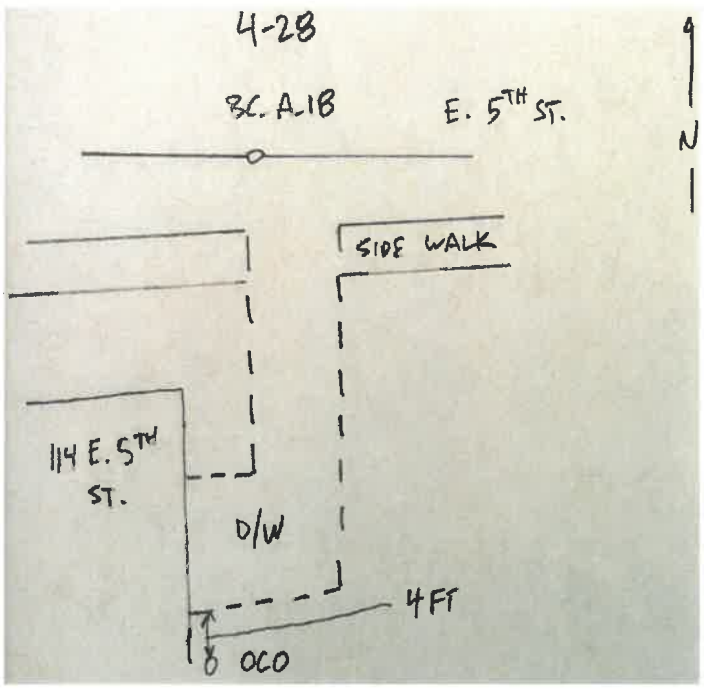
Molalla Smoke Testing		114 East 5th	
Project Name :		Location / Address:	
100.26	4-28	BC_A	BC_A_17 and BC_A_18
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

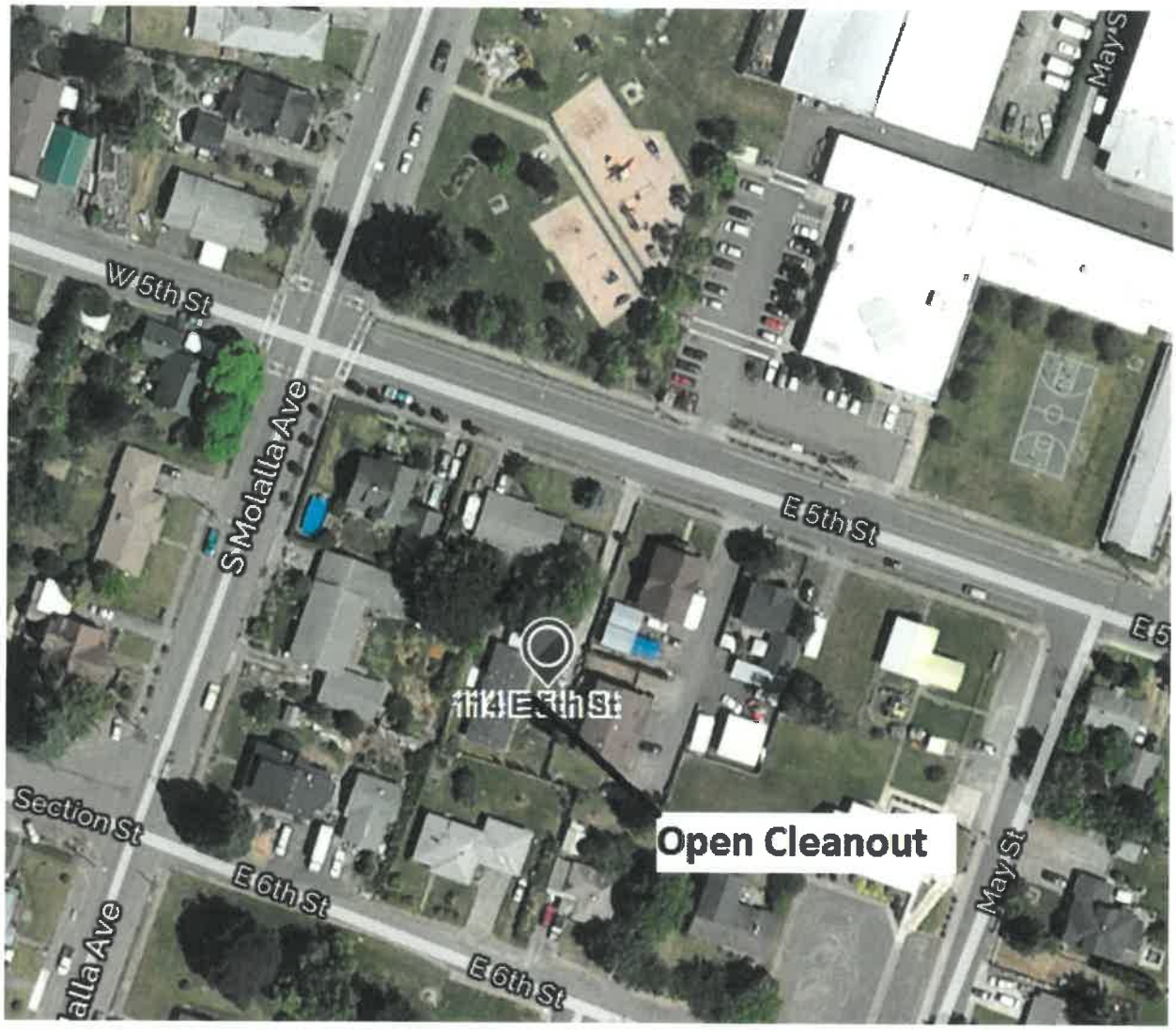
Comments

- Open cleanout located south of the concrete drive way, and just north of the electric meter.
- Also refer to aerial on following page.
-
-
-

SKETCH



AERIAL


W 5th St
S Molalla Ave
E 5th St
E 6th St
Section St
May St
Open Cleanout

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

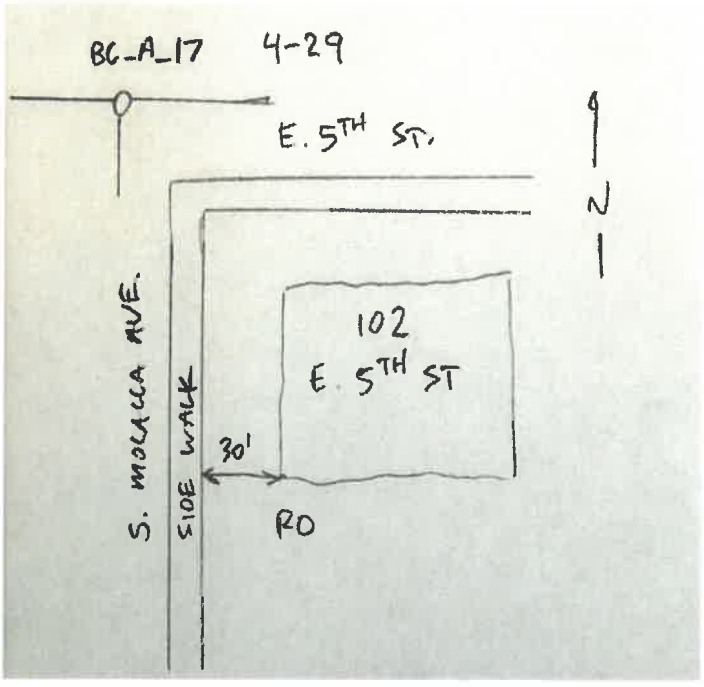
Molalla Smoke Testing		102 East 5th	
Project Name :		Location / Address:	
100.26	4-29	BC_A	BC_A_17 and BC_A_16
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Roof drain connected
CB = Catch Basin		2	Location of deficiency.
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- The roof drain was connected to the sewer system. The drain on the southwest corner of the house was smoking.
- Also refer to aerial on following page.
-
-
-

SKETCH



AERIAL

PHOTOGRAPH No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

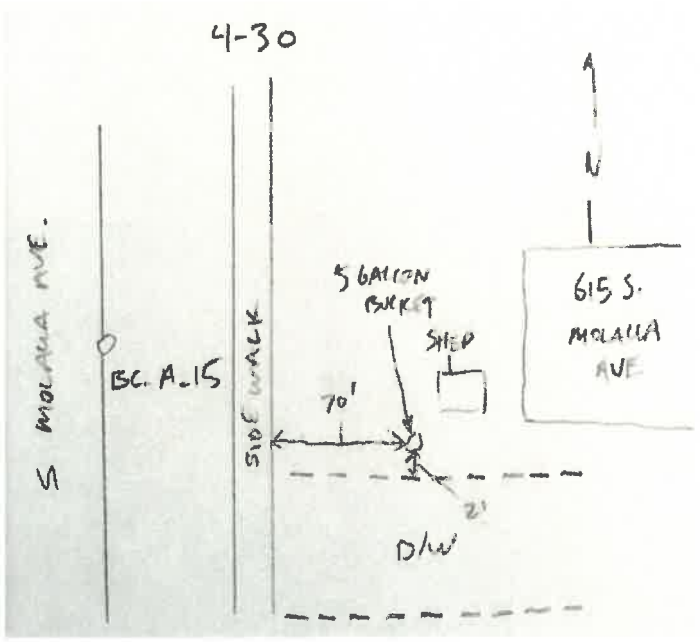
Molalla Smoke Testing		615 South Molalla	
Project Name :		Location / Address:	
100.26	4-30	BC_A	BC_A_15 and BC_A1_1
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Open cleanout
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Open cleanout is located to the north of the drive way. Suspected cleanout has 5 gallon bucket and concrete footing located above it. Smoke exited rapidly.
- Also refer to aerial on following page.
-
-
-

SKETCH




Leaking Cleanout
615 S Molalla Ave
S Taylor ct
S Taylor ct
Metzler St
W 7th St
May St

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

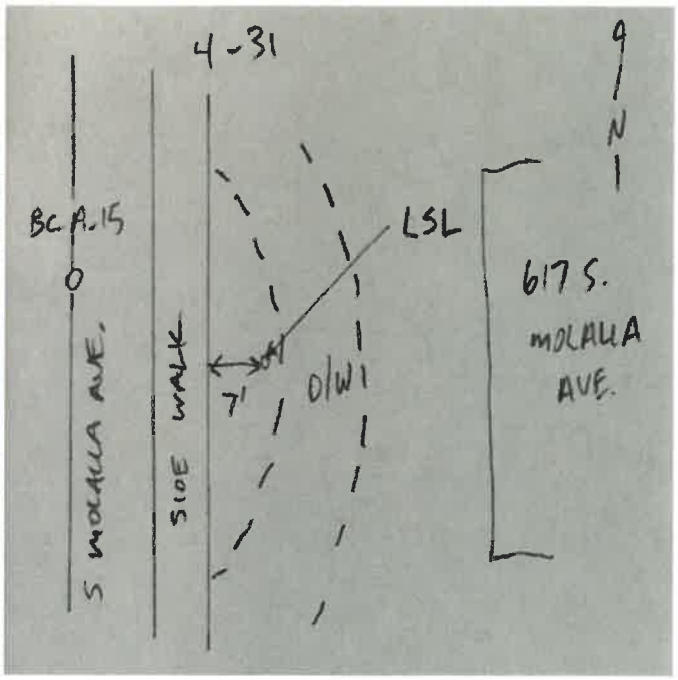
Molalla Smoke Testing		617 South Molalla	
Project Name :		Location / Address:	
100.26	4-31	BC_A	BC_A_15 and BC_A1_1
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Leaking service lateral
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Leaking service lateral or open cleanout located on western edge of gravel drive way. Smoke exited significantly.
- Also refer to aerial on following page.
-
-
-

SKETCH




Mobile St
517 S Mobile Ave
S Taylor St
May St
W 7th St
Leaking Service Lateral

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

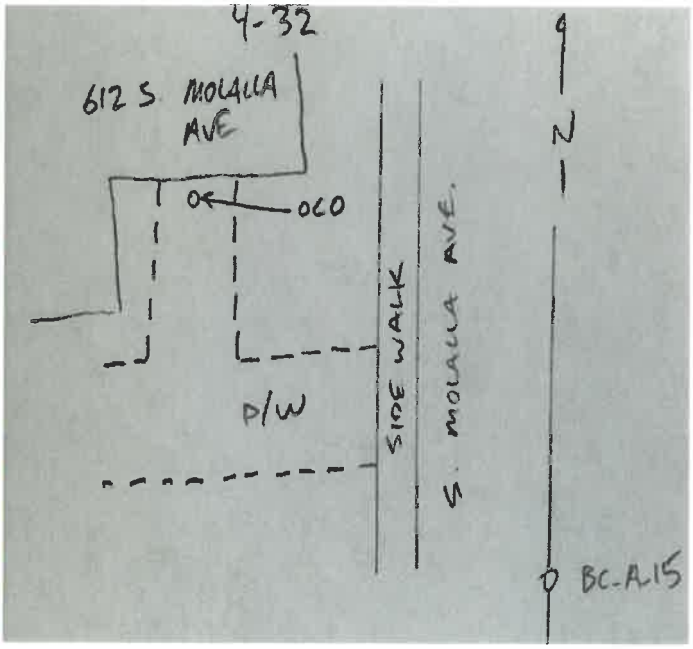
Molalla Smoke Testing		612 South Molalla	
Project Name :		Location / Address:	
100.26	4-32	BC_A	BC_A_15 and BC_A_16
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Open cleanout
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Open cleanout located north of the driveway, immediately adjacent to the house.
-
-
-
-

SKETCH



SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

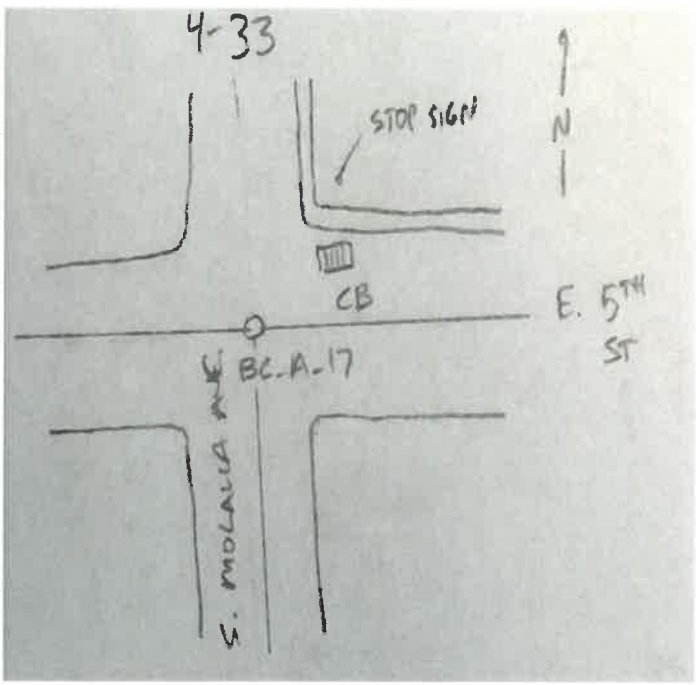
Molalla Smoke Testing		425 South Molalla	
Project Name :		Location / Address:	
100.26	4-33	BC_A	BC_A_17 and BC_A_18
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Catch basin
CB	=	Catch Basin	2	Location of deficiency.
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Catch basin was only lightly smoking, but it is connected to the sewer system. It's the catch basin located in the northeast of the intersection of East 5th and South Molalla.
- It's hard to tell from the picture that it's smoking. It was light.
- Also refer to aerial on following page.
-
-

SKETCH



AERIAL

PHOTOGRAPH No. 2

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

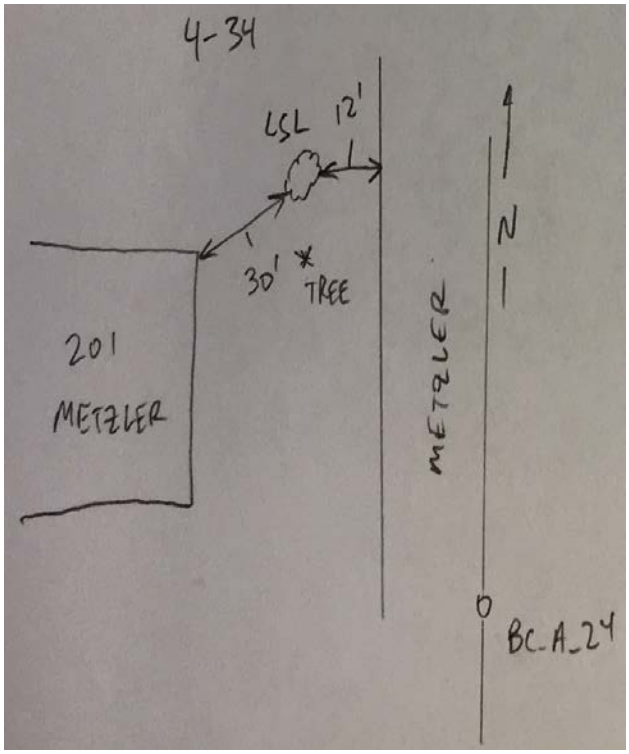
Molalla Smoke Testing		201 Metzler	
Project Name :		Location / Address:	
100.26	4-34	BC_A	BC_A_16 and BC_A_26
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Leaking service lateral
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

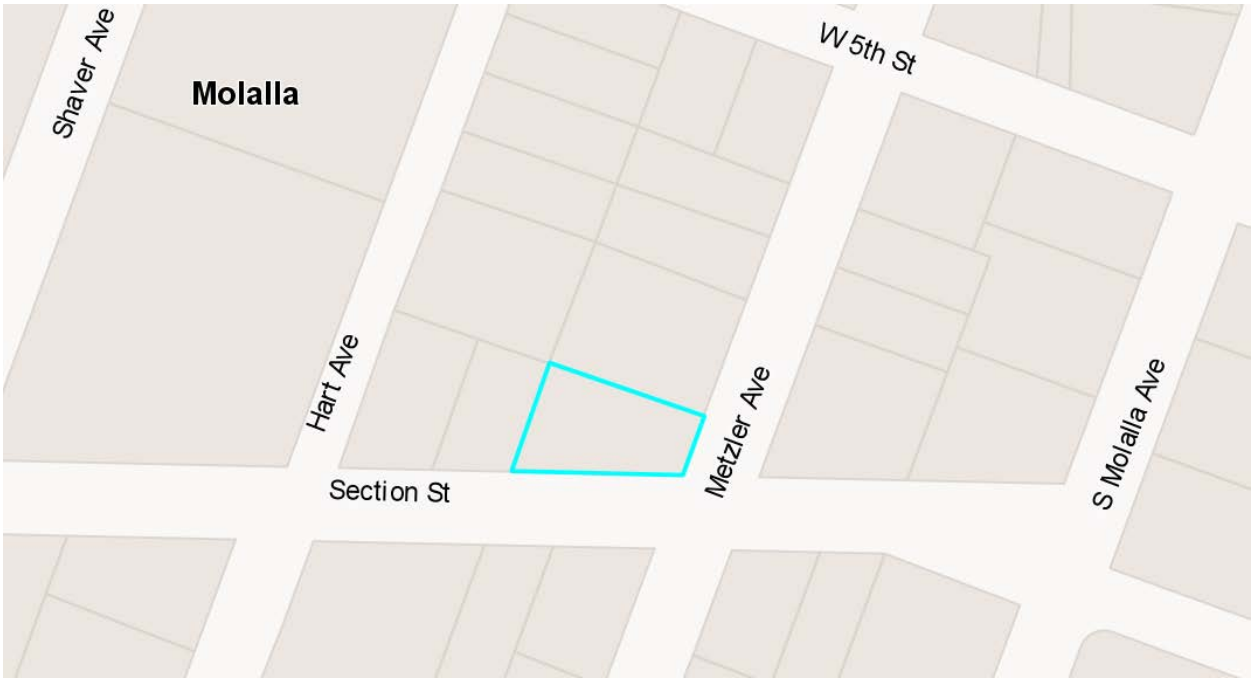
Comments

- Leaking service lateral located to the north of a small tree.
- Also refer to aerial on following page.
-
-
-

SKETCH



LOCATION



AERIAL

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

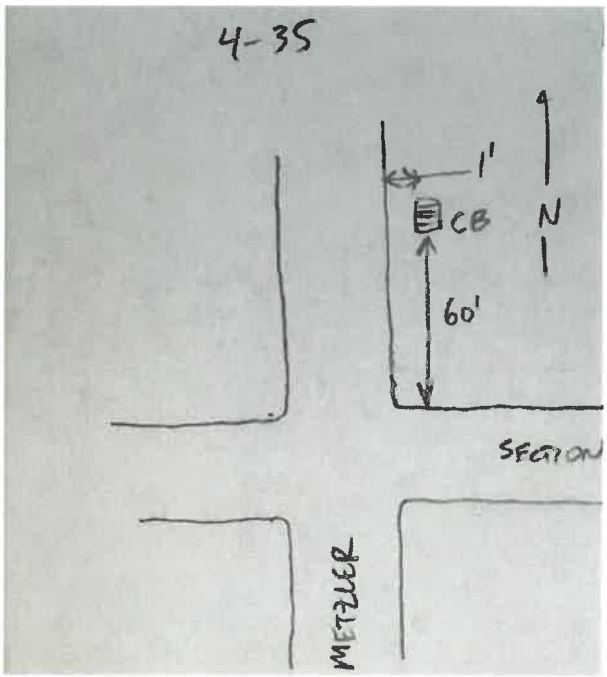
Molalla Smoke Testing		370 Metzler	
Project Name :		Location / Address:	
100.26	4-35	BC_A	BC_A_24 and BC_A_26
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE			PHOTOGRAPHS	
LSL	=	Leaking Service Lateral	No.	Description
LML	=	Leaking Main Line	1	Catch basin
CB	=	Catch Basin		
LMH	=	Leaking Manhole		
OCO	=	Open Cleanout		
PHV	=	Plugged House Vent		
RD	=	Roof Drain		

Comments

- Catch basin is located underneath the black car. Smoke was rapidly existing from catch basin.
- Also refer to aerial on following page.
-
-
-

SKETCH



AERIAL


Hart St
Metzler St
S Molalla Ave
Section St
E 6th St
Catch Basin
Hart St
Metzler St
S Molalla Ave
E 6th St
S Taylor Ct

SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing		370 Metzler	
Project Name :		Location / Address:	
100.26	4-36	BC_A	BC_A_16 and BC_A_26
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE		PHOTOGRAPHS	
LSL = Leaking Service Lateral		No.	Description
LML = Leaking Main Line		1	Open cleanout
CB = Catch Basin			
LMH = Leaking Manhole			
OCO = Open Cleanout			
PHV = Plugged House Vent			
RD = Roof Drain			

Comments

- Open cleanout located to the south of the fence. Pipe extends approximately six feet into the air. Property is an abandoned house.
- Also refer to aerial on following page.
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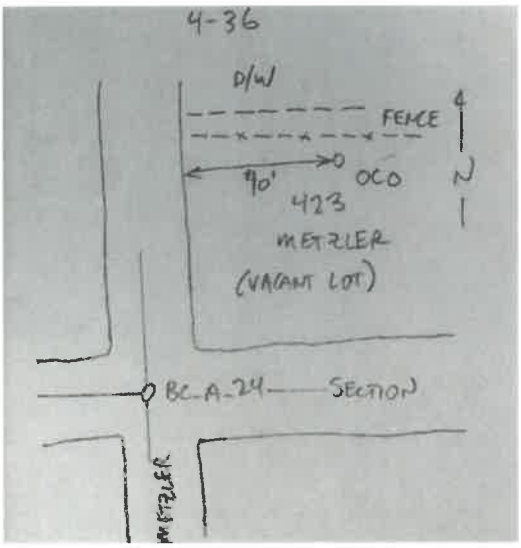
-
-

SKETCH



AERIAL


Open Cleanout
Hart St
Metzler St
S Molalla Ave
Section St
E 6th St
Hart St
Metzler St
S Molalla Ave

APPENDIX B: SAMPLE NOTIFICATION LETTER

CITY OF _____

Address

_____

1-541- _____

Date_____

Owner_____

Address_____

City, State_____

Subject Property_____

Dear Property Owner:

The City of _____ experiences high in-flows during the winter months. This can, in large part, be attributed to "holes" in the sewage collection and piping system. In an effort to locate these holes and reduce the high seasonal inflows, the City of _____ recently completed a City-wide smoke testing project. The project included pumping smoke into manholes and observing where the smoke escapes from the system. If smoke is observed leaving the sewer system through a "hole," surface and/or groundwater is capable of entering the system through the same "hole." The potential for one of these infiltration "holes" was discovered on your property and requires some immediate attention to correct the problem.

Some of the problems discovered are directly related to the infiltration waters that overload the sewer system during the winter months. Other problems are related to plumbing deficiencies outside the home that should be corrected.

A side benefit of the smoke testing project was that, in some cases, smoke was observed entering homes. While this could be a result of a dry or unused "trap" in a home's plumbing, it could pose a serious health risk. If a trap is not present or not functioning properly, harmful sewer gases may find their way into a home. This type of plumbing deficiency should be corrected immediately.

The following sheet includes a checklist of potential problems discovered during the smoke testing project. If a problem is marked with an X, it requires the action described immediately after the marked description.

If for some reason you are unable to correct the problem in the time suggested, please contact _____. We are interested in correcting these problems and will help in any way we can to do that.

1._____DOES NOT HAVE A SEWER CONNECTION PERMIT ON RECORD.
Please provide City Hall with date and contractor's name or obtain permit.

2._____RVs HOOKED INTO SEWER SYSTEM.
Notification is hereby given to remove.

3._____PIPING OR LATERAL PIPE PROBLEMS ON SITE.
Have plumbing inspection by qualified person. Report result to City Hall within two (2) weeks of this notice.

4._____RAIN GUTTERS CONNECTED TO SEWER SYSTEM.
Immediate removal of roof drains from sewer system required. City personnel will be on site within two (2) weeks of the date of this notice to inspect the outfall of the roof drain system to confirm disconnection.

5._____AREA DRAIN OR OTHER SURFACE DRAINAGE SYSTEM TIED INTO SEWER SYSTEM.
Immediate removal of area drains from sewer system required. City personnel will be on site within two (2) weeks of the date of this notice to inspect the area drain to confirm disconnection.

6._____UNCAPPED OR OPEN SEWER LATERAL CLEANOUT.
Immediate cap of lateral cleanout required with water-tight cap. City personnel will be on site within two (2) weeks of the date of this notice to inspect the cleanout to confirm capping.

7._____SMOKE INSIDE HOUSE OR BUILDING.
Have inspection and repairs performed by qualified plumber. Sewer gas passing into the home can pose a serious health risk.

8._____OTHER PROBLEM.
_____
_____

Please note that any of these problems are of a serious nature. Any items marked with an X require your immediate attention and cooperation. Please call _____ at (541)_____ if you have any questions. By reducing these high seasonal inflows to the sewer system, we can help reduce unnecessary sewer treatment costs and associated rate increases.

Thank you for your help in this matter.

Sincerely,

_____
Public Works Director