



**Public Works Department**

117 N Molalla Avenue

PO Box 248

Molalla, Oregon 97038

Phone: (503) 829-6855

Fax: (503) 829-3676

February 12, 2019

Mike Pinney, PE, Sr. Environmental Engineer  
Oregon DEQ – Northwest Region  
700 NE Multnomah St, Suite 600  
Portland, OR 97232

**RE: 2018 ANNUAL INFLOW & INFILTRATION REPORT**

This report provides an annual summary of some of the more important I/I reduction actions the City of Molalla has taken for the 2018 calendar year, in accordance with City's Inflow and Infiltration Assessment and Reduction Plan and NPDES Permit No. 101514.

In 2018 the City cleaned 9733LF, grouted 101 Manholes, repaired 105 smoke test issues, reduced I/I at the WWTP measurably by over 6% as experienced during a 2.8" rain event, completed it's Master Plan, performed comprehensive Flow Poking, added telemetry to three of its lift stations (which alert the City of abnormal I/I flows), and performed spot repairs throughout the system as identified by detailed analysis of the CCTV information from 2016/17.

The City continued significant investment in its Wastewater Treatment Plant operations, including new filter media, pumps, actuators, DAF coagulation chamber repairs, variable speed drives, and the addition of 1.0 FTE staff.

Please feel free to contact me (503) 759-0220 if you have any questions.

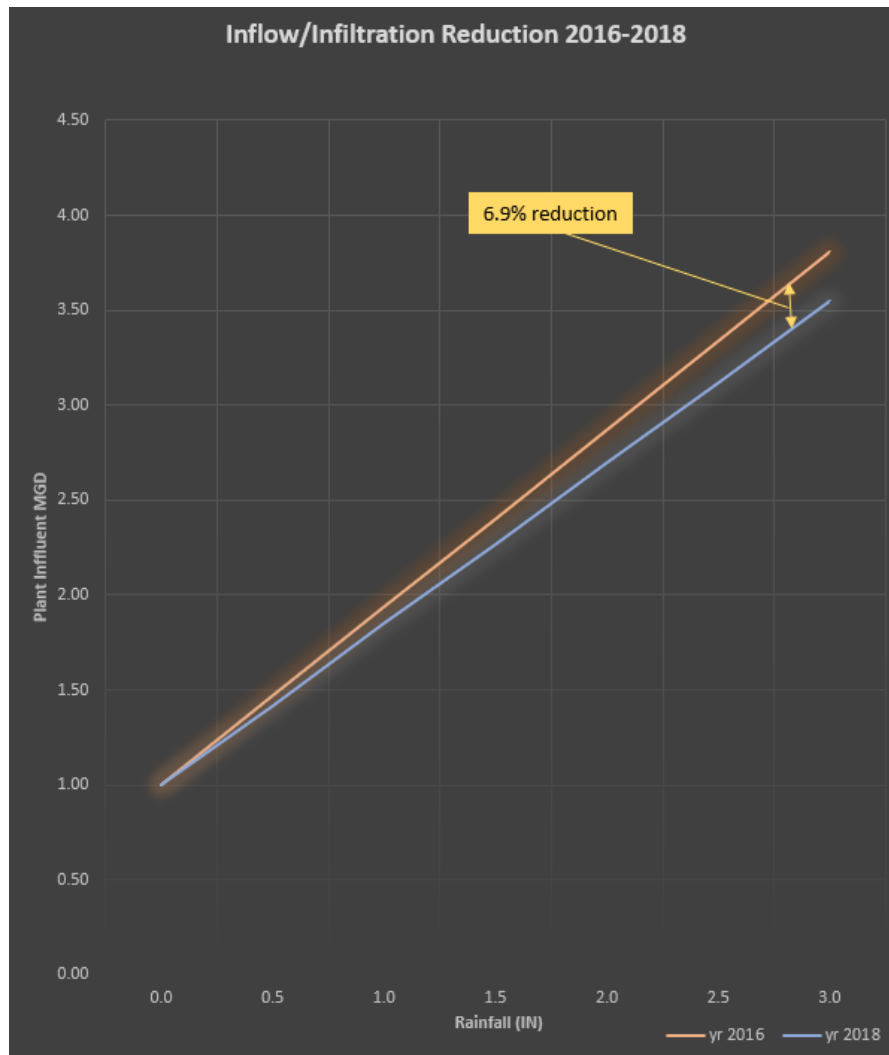
Regards,

Andy Peters  
Operations Supervisor

Cc: Gerald Fisher, Public Works Director  
Dan Huff, City Manager

Project/Task	Description & Information
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Measuring Success	I/I reduction efforts made by the City of Molalla in 2018 resulted in a 6.9% reduction in I/I at the WWTP Headworks plume as measured during a 2.8" rainfall event (when compared to an equivalent rain event from 2016 flow data). The explanation of those efforts constitutes the remainder of this report.
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Manhole Inspections and Grouting	Public Works followed through on the grout-sealing of 101 Manholes with AV202 grout in 2018. Before and After maps are attached as Appendix B showing this progress.
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System Assessment	In addition to the Smoke Testing that was reported in 2017 the City completed a comprehensive Flow Poking assessment of the system, which is attached as Appendix C. This is an important baseline which will be used to measure the success of capital projects over the next 5 years.
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Sewer Line  
Cleaning

Sewer CMOM Cleaning in 2018 was conducted as follows:

WO# 3234 completed on 10/4/18 –

- Peterkin's downtown (low flows cause backups)
- 1318 Meadowlark Pl (fighting roots under sidewalk)

**Total: 395LF**

WO# 3356 completed on 10/4/18 (SW quadrant) South of Molalla Ave, West of the Union Pacific RR Tracks, and South of the 15-inch concrete line that runs from Molalla Ave directly to the WWTP: Hydro-jetted and maintained the following lines.

- Fountain Valley Center (off Industrial Way)
- Commercial
- W Heintz
- Carol Ct
- Kae Ct
- Arbor Ter by-pass
- Lynn Ln
- Bronco&Probe
- Dixon Ridings
- West Lane
- S Cole & 211 @beginning of line
- Peterkins Commercial Coral Prince

**Total: 2500LF**

WO# 3357 completed on 10/3/18

- E. 3rd
- Eckart, the Moose Lodge
- Hood St
- Hood Ct
- S. Cole
- E 8th
- Mathias Ct

**Total: 2045LF**

WO# 3709 completed on 11/6/18

- Industrial Way
- Storey Dr
- Andrian
- Kalugin
- The Bypass line at Lynn Ln
- Toliver & Leroy
- Trinity
- Wedgewood
- Kae Ct
- W. Heintz
- Carol Ct
- West Lane
- Ridings

- Prince
  - Dixon
- Total: 4437LF**

**Total Sewer Cleaning 2018: 9377 LF**

CCTV  
Inspections and  
Repairs

In 2018 City GIS staff performed a comprehensive review of all CCTV that was reported in the 2017 Annual I/I Report. The results were divided into (a) issues that will be addressed by the projects identified in the 2018 Master Plan, and (b) isolated repairs that were to be addressed by City Crews. The following repairs were released to Public Works in 2018 as (b) repairs:

TL\_A2\_2 – TL\_A2\_5 – E 7th ST

- Heavy infiltration at pipe joints 50' from TL\_A2\_5
- STATUS: [RELEASED ON WO# 4332, Jan 2019](#)

TL\_A1\_4 – EOL CO – E 8th ST

- Heavy infiltration at pipe joint 5.6' from TL\_A1\_4
- STATUS: [RELEASED ON WO# 4334, March 2019](#)

TL\_A1\_6 – EOL CO – E 8th ST

- Infiltration from bottom 49.6' from TL\_A1\_6
- STATUS: [RELEASED ON WO# 4335, May 2019](#)

BC\_A3\_10 – BC\_A3\_17 – Sweigle Ave

- Bad joint at 53' from BC\_A3\_10
- STATUS: [RELEASED ON WO# 4337, July 2019](#)

TL\_B\_20 – TL\_B\_21 – Fenton Ave

- I&I from joint runners at 32' and 173' from TL\_B\_20
- Heavy I&I from lateral leakage @ 218' from TL\_B\_20
- STATUS: [ON MASTER-PLAN CIP](#)

BC\_A3\_2 – EOL CO: – Metzler Ave NOTE: Wrong MH #s on report but this is the correct report

- Replace EOL Cleanout – minor I&I
- STATUS: [ON MASTER-PLAN CIP](#)

TL\_B\_5 - TL\_B\_2 – Patrol ST

- Heavy infiltration at 256' and 277' from TL\_B\_2
- STATUS: [ON MASTER-PLAN CIP](#)

I&I Budget	<p>In Fiscal Year 2018-2019, the City budgeted a total of \$135,000 for infiltration and inflow repairs. The City is on track to expend all of the funds on repairs before the end of the fiscal year.</p>
I&I Repairs	<p>On the 2017 Annual I/I report the City submitted a comprehensive smoke testing inspection of the Town. In 2018 City Crews repaired 105 of these issues. Each of the original smoke test reports are attached in Appendix C, indicating the Work Order on which the issue was resolved.</p> <p><i>WO# 908 addressed reports 1-3; 1-6; 1-7; 1-8; 1-9; 1-10; 1-12; 1-13; 1-15; 1-17 and was completed on 3/21/18.</i></p> <p><i>WO# 956 addressed reports 1-24; 1-27; 1-31; 1-32; 1-34; 1-35; 1-36; 1-37; 1-38; 1-41 and was completed on 3/8/18.</i></p> <p><i>WO# 1038 addressed reports 1-43; 1-44; 1-45; 1-46; 1-47; 1-49; 1-50; 1-51; 1-53; and was completed on 3/12/18.</i></p> <p><i>WO# 1066 addressed reports 2-4; 2-5; 2-7; 2-8; 2-9; 2-10; 2-11; 2-12; 2-20; 2-22; 2-23 and was completed on 4/3/18.</i></p> <p><i>WO# 1384 addressed reports 2-25; 2-26; 2-27; 2-28; 2-30; 2-32; 2-33; 2-37; 2-38; 2-40 and was completed on 4/12/18.</i></p> <p><i>WO# 1529 addressed reports 2-41; 2-43; 2-44; 2-46; 2-48; 2-49; 2-50; 2-51; 2-52; 2-53 and was completed on 8/14/18</i></p> <p><i>WO# 3150 addressed reports 2-54; 2-55; 2-56; 2-58; 2-60; 2-62; 2-63; 3-4; 3-5; 3-6 and was completed on 8/21/18</i></p> <p><i>WO# 3224 addressed reports 3-9; 3-10; 3-11; 3-12; 3-13; 3-14;3-17; 3-19; 3-20; 3-21; 3-22 and was completed on 9/10/18</i></p> <p><i>WO# 3445 addressed reports 3-24; 3-25; 3-27; 3-29; 3-30; 3-31; 3-33; 3-36; 3-37; 3-38 and was completed on 9/13/18</i></p> <p><i>WO# 3515 addressed reports 3-41; 4-6; 4-7; 4-8; 4-10; 4-11; 4-15; 4-16; 4-21; 4-25 and was completed on 10/9/18</i></p> <p><i>WO# 3858 addressed reports 4-27; 4-28; 4-30 ;4-32 ;4-36 and was completed on 10/22/18</i></p>

## APPENDIX

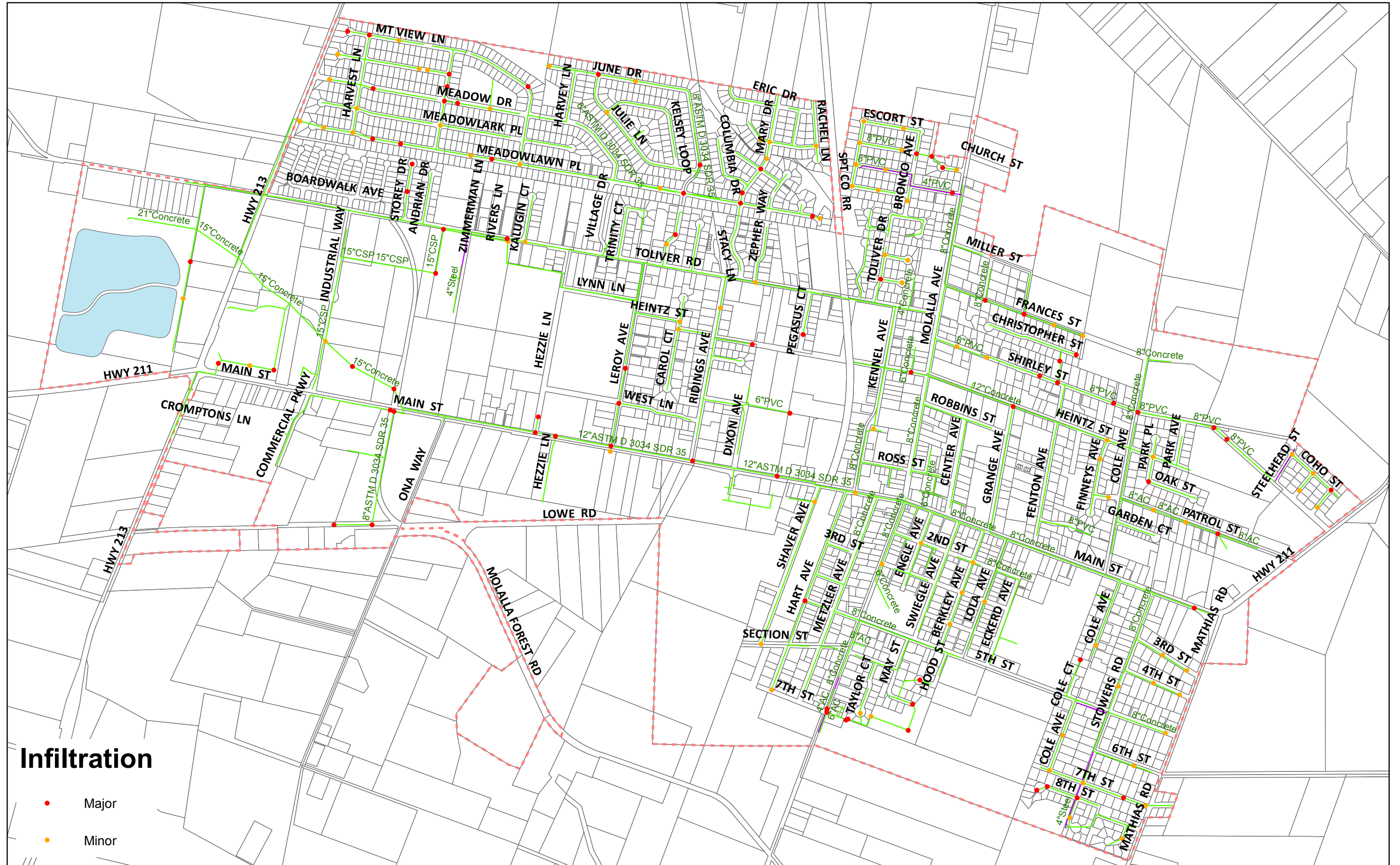
<i>APPENDIX</i>	<i>TITLE</i>
A	MANHOLE INFILTRATION – BEFORE 2018 GROUTING
	MANHOLE INFILTRATION – AFTER 2018 GROUTING
B	2018 SMOKE TESTING REPORTS – UPDATED TO SHOW PROGRESS
C	2018 FLOW POKING REPORT

**APPENDIX A**  
**MANHOLE INFILTRATION –**  
**BEFORE 2018 GROUTING**  
**AFTER 2018 GROUTING**





# MANHOLE INFILTRATION - BEFORE 2018 GROUTING



## Infiltration

- Major
- Minor



**APPENDIX B**  
**SMOKE TESTING REPORTS –**  
**UPDATED TO SHOW PROGRESS**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

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

**Comments**

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

**SKETCH**



Repaired on WO#908

# 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 LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<u>No.</u>	<u>Description</u>
	1	OCO
	_____	_____
	_____	_____
	_____	_____
	_____	_____

**Comments**

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

**SKETCH**



Repaired on WO#908

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

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

**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**



Repaired on WO#908

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

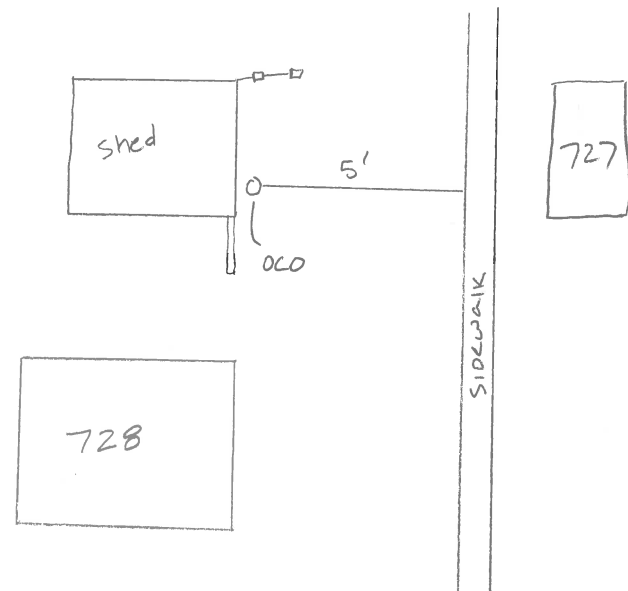
Molalla I/I Study		205 W. Heintz St Unit #728	
Project Name :	1-9	Location / Address:	TL 21 - TL 22
Project No.	Report No.	TL	MH No. / Main:
Chilton Peck		Basin:	10.16.17
Tested By:			Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="width: 85%; text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO								
No.	Description												
1	OCO												

**Comments**

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

**SKETCH**



Repaired on WO#908

# 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 LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>OCO - overall</td> </tr> <tr> <td style="text-align: center;">2</td> <td>OCO - open c/o behind the shed</td> </tr> <tr> <td style="text-align: center;">3</td> <td>OCO - broken cap on c/o next to shed</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO - overall	2	OCO - open c/o behind the shed	3	OCO - broken cap on c/o next to shed				
No.	Description												
1	OCO - overall												
2	OCO - open c/o behind the shed												
3	OCO - broken cap on c/o next to shed												

**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.

Repaired on WO#908



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

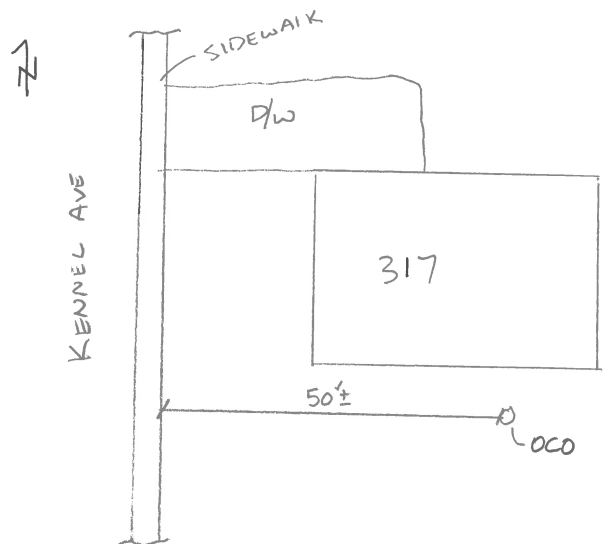
Molalla I/I Study		317 Kennel Ave	
Project Name :	1-12	Location / Address:	TL D 8 - TL D 14
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.16.17
Tested By:			Date:

TESTING CODE	PHOTOGRAPHS	
LSL = Leaking Service Lateral	<u>No.</u>	<u>Description</u>
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
- 
- 
- 
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**SKETCH**



Repaired on WO#908

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

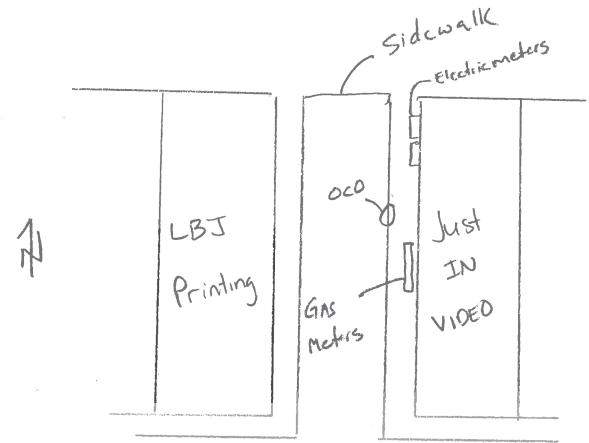
Molalla I/I Study		270 N. Molalla Ave	
Project Name :		Location / Address:	
100.26	1-13	TL D	TL D 8 - TL D 14
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.16.17
Tested By:			Date:

TESTING CODE	PHOTOGRAPHS												
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No.	Description												
1	OCO												

**Comments**

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



Repaired on WO#908

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

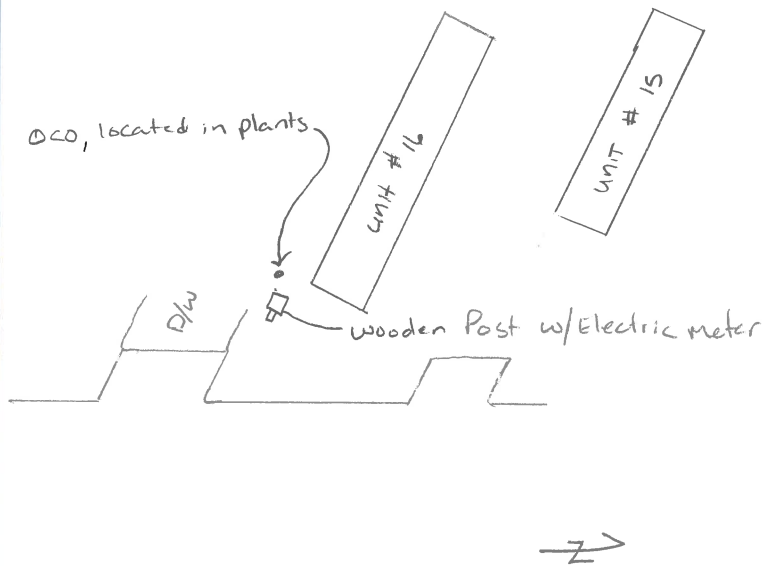
Molalla I/I Study		138 Shirley St, Unit #16	
Project Name :		Location / Address:	
100.26	1-15	TL C	TL 16 - TL 17
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.16.17
Tested By:			Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="width: 85%; text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO								
No.	Description												
1	OCO												

**Comments**

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

**SKETCH**



Repaired on WO#908

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

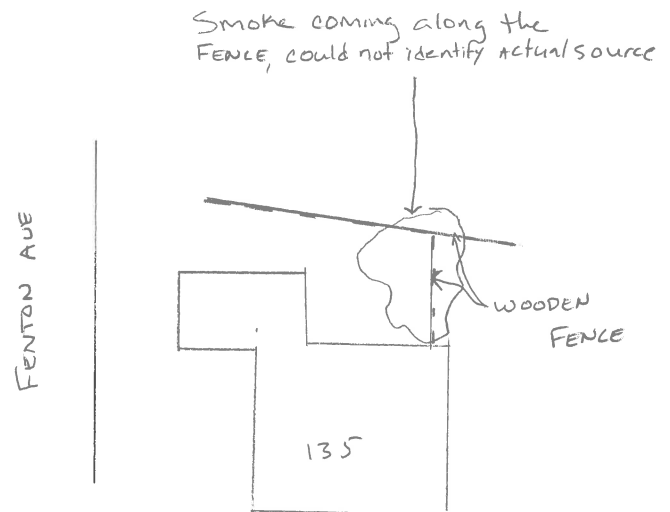
Molalla I/I Study		135 Fenton Avenue	
Project Name :	Location / Address:		
100.26	1-17	TL B	TL B 20 - TL B 21
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.16.17
Tested By:	Date:		

TESTING CODE	PHOTOGRAPHS	
LSL = Leaking Service Lateral	<u>No.</u>	<u>Description</u>
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.
- 
- 
- 
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### SKETCH



Repaired on WO#908

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

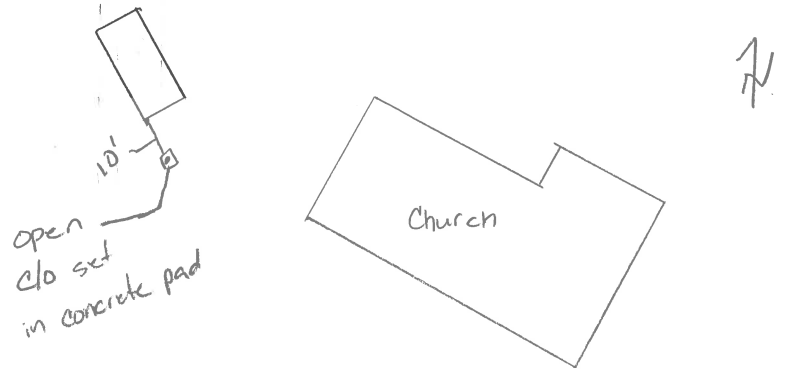
Project Name : <b>Molalla I/I Study</b>		Location / Address: <b>920 Shirley St</b>	
Project No. <b>100.26</b>	Report No. <b>1-24</b>	Basin: <b>TL B</b>	MH No. / Main: <b>TL B 27 - TL B 7</b>
Tested By: <b>Chilton Peck</b>		Date: <b>10.16.17</b>	

TESTING CODE	PHOTOGRAPHS												
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No.	Description												
1	OCO												

**Comments**

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



Hury 211

Repaired on WO#956

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

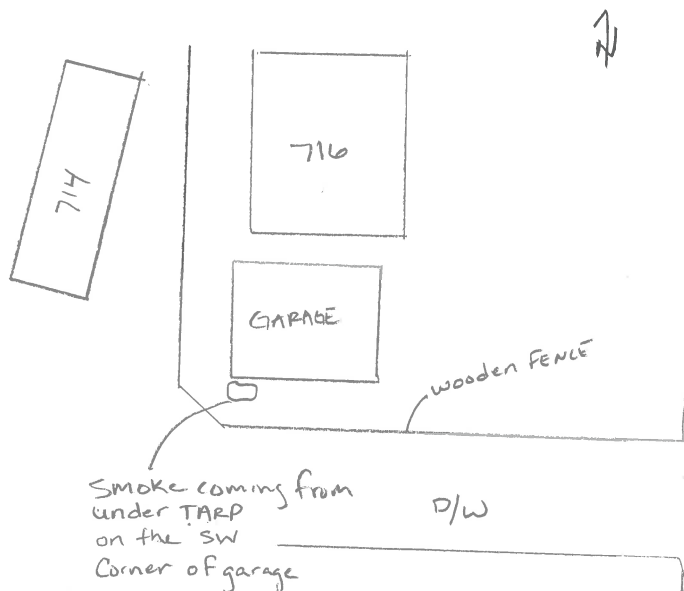
Project Name : <b>Molalla I/I Study</b>		Location / Address: <b>716 N. Molalla Ave</b>	
Project No. <b>100.26</b>	Report No. <b>1-27</b>	Basin: <b>TL C</b>	MH No. / Main: <b>TL C 22 - TL C 23</b>
Tested By: <b>Chilton Peck</b>		Date: <b>10.17.17</b>	

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO								
No.	Description												
1	OCO												

**Comments**

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

**SKETCH**



N. MOLALLA AVE

Repaired on WO#956

# 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														
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No.	Description														
1	OCO														

**Comments**

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

**SKETCH**



Repaired on WO#956

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study	207 Lola Ave	
Project Name : 100.26	Location / Address: TL A	TL A 19 - TL A 22
Project No. Chilton Peck	Report No. 1-32	Basin: MH No. / Main: 10.17.17
Tested By:		Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>OCO</td> </tr> <tr> <td style="text-align: center;">2</td> <td>LSL – smoke coming from ground</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Smoke coming from ground</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO	2	LSL – smoke coming from ground	3	Smoke coming from ground						
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

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### SKETCH



1.

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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Project Name : Molalla I/I Study		Location / Address: 104 S. Cole Ave	
100.26	1-34	TL_A	TL_A 3 - TL_A 29
Project No. Chilton Peck	Report No.	Basin:	MH No. / Main: 10.17.17
Tested By:			Date:

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

**Comments**

- Smoke leaking around the cleanout cap

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**SKETCH**



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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

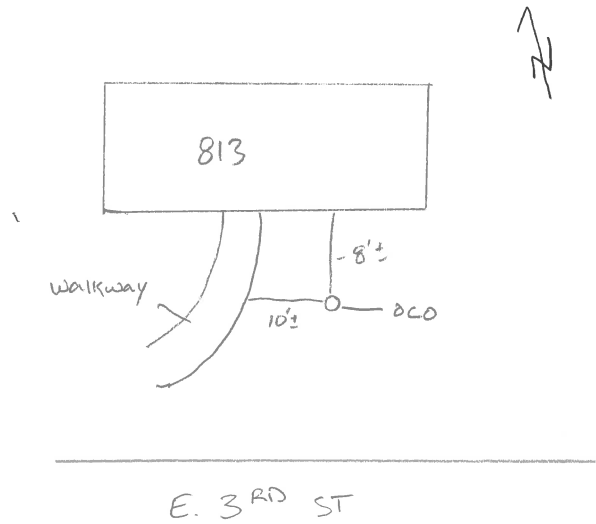
Project Name : <b>Molalla I/I Study</b>	Location / Address: <b>813 E. 3<sup>rd</sup> St.</b>	
Project No. <b>100.26</b>	Report No. <b>1-36</b>	Basin: <b>TL A</b>
Tested By: <b>Chilton Peck</b>	MH No. / Main: <b>10.17.17</b>	Date: <b>10.17.17</b>

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

**Comments**

- Smoke coming out of cleanout
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**SKETCH**



Repaired on WO#956

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

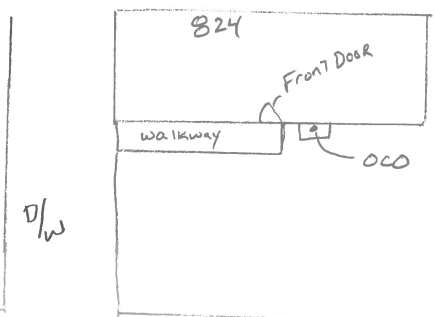
Molalla I/I Study		824 E. 5th St.	
Project Name :		Location / Address:	
100.26	1-37	TL_A	TL_A 11 - TL_A 23
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.17.17
Tested By:		Date:	

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

**Comments**

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

**SKETCH**



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E. 5th ST

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study	827 E. 5th St.	
Project Name : 100.26	Location / Address: TL_A	TL_A 11 - TL_A 23
Project No. Chilton Peck	Report No. 1-38	Basin: MH No. / Main: 10.17.17
Tested By:		Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; text-align: center;">No.</th> <th style="width: 90%; text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">LSL</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </tbody> </table>	No.	Description	1	OCO	2	LSL	3	OCO						
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
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**SKETCH**



1.

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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

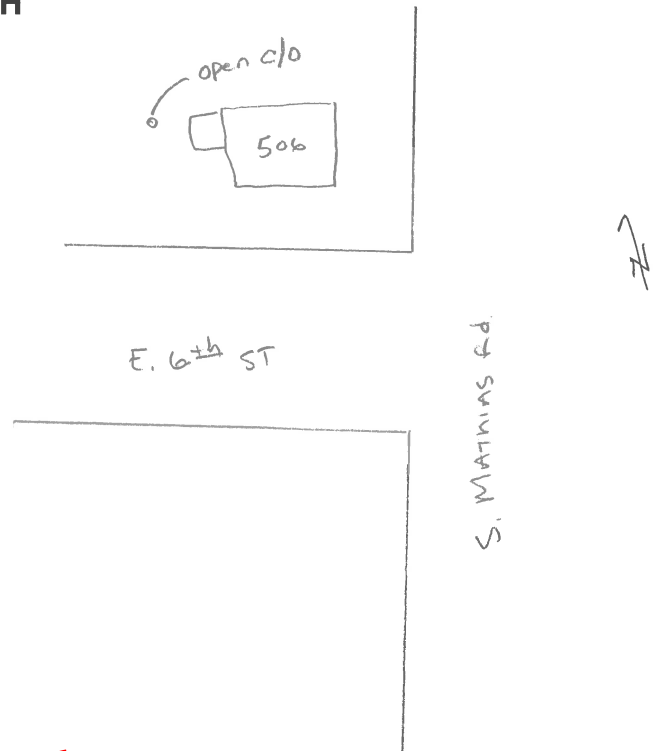
Project Name : <u>Molalla I/I Study</u>		Location / Address: <u>506 S. Mathias Rd.</u>	
Project No. <u>100.26</u>	Report No. <u>1-41</u>	Basin: <u>TL_A</u>	MH No. / Main: <u>TL_A 10 - C/O</u>
Tested By: <u>Chilton Peck</u>		Date: <u>10.17.17</u>	

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; text-align: center;">No.</th> <th style="width: 40%; text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO								
No.	Description												
1	OCO												

**Comments**

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



Repaired on WO#956

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

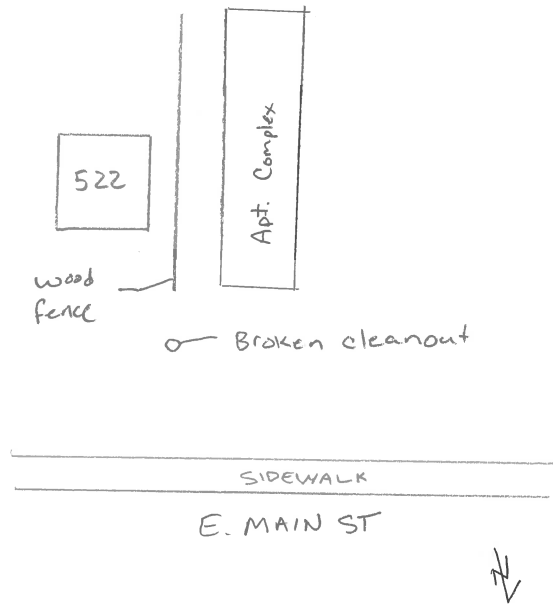
Molalla I/I Study		522 E. Main St	
Project Name :		Location / Address:	
100.26	1-43	TL_A	TL_A 31 - TL_A 32
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.18.17
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 10%;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO										
No.	Description														
1	OCO														

**Comments**

- Smoke coming out of broken cleanout
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**SKETCH**



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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study	514 & 518 E. Main St	
Project Name : 100.26	1-44	Location / Address: TL A
Project No. Chilton Peck	Report No.	Basin: TL A 31 - TL A 32
Tested By:		MH No. / Main: 10.18.17
		Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>OCO for Unit #514</td> </tr> <tr> <td style="text-align: center;">2</td> <td>OCO for Unit #518</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO for Unit #514	2	OCO for Unit #518								
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**



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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

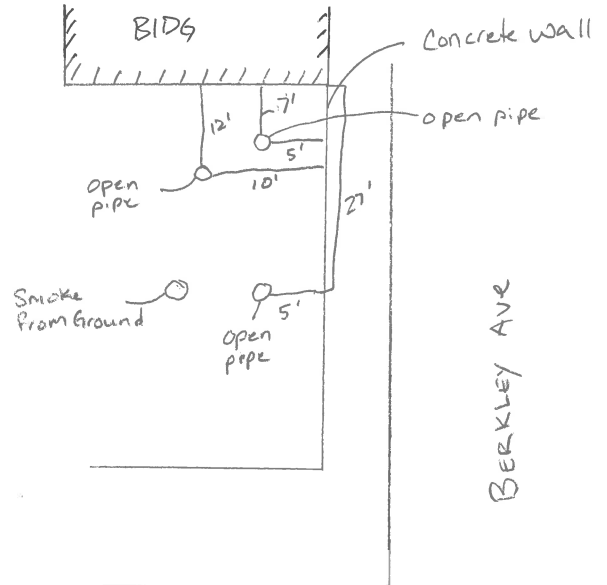
Molalla I/I Study		124 Berkley Ave	
Project Name :		Location / Address:	
100.26	1-45	BC A3	BC A3 12 - BC A3 18
Project No.	Report No.	Basin:	MH No. / Main:
Chilton Peck			10.18.17
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u>
LML = Leaking Main Line	<u>Description</u>
CB = Catch Basin	1    OCO
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.

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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Project Name : <b>Molalla I/I Study</b>		Location / Address: <b>415 Berkley Ave</b>	
Project No. <b>100.26</b>	Report No. <b>1-46</b>	Basin: <b>BC A3</b>	MH No. / Main: <b>BC A3 14 - C/O</b>
Tested By: <b>Chilton Peck</b>		Date: <b>10.18.17</b>	

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="width: 85%; text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	OCO								
No.	Description												
1	OCO												

**Comments**

- Smoking coming out of cleanout

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**SKETCH**



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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study	411 Berkley Ave	
Project Name : 100.26	1-47	Location / Address: BC A3
Project No. Chilton Peck	Report No.	Basin: BC A3 14 - C/O
Tested By:		MH No. / Main: 10.18.17
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;">No.</th> <th style="text-align: center; border-bottom: 1px solid black;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </tbody> </table>	No.	Description	1	OCO								
No.	Description												
1	OCO												

**Comments**

- Smoking coming out of cleanout with no cap
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**SKETCH**



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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study	312 E. 2nd St.	
Project Name : 100.26	Location / Address: BC A3	BC A3 10 - BC A3 12
Project No. Chilton Peck	Report No. 1-49	Basin: MH No. / Main: 10.18.17
Tested By:		Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 10%;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>OCO</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	OCO										
<u>No.</u>	<u>Description</u>														
1	OCO														

**Comments**

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



Cleanout location

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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study	111 Swiegle Ave	
Project Name : 100.26	Location / Address: BC_A3	BC_A3 18 - BC_A3 12
Project No. Chilton Peck	Report No. 1-50	Basin: MH No. / Main: 10.18.17
Tested By:		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 15%;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>OCO &amp; LSL</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	OCO & LSL								
<u>No.</u>	<u>Description</u>												
1	OCO & LSL												

**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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**SKETCH**



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

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# 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 LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <tr> <th style="text-align: center; border-bottom: 1px solid black;">No.</th> <th style="text-align: center; border-bottom: 1px solid black;">Description</th> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> </tr> <tr><td style="border-top: 1px solid black;"> </td><td style="border-top: 1px solid black;"> </td></tr> <tr><td style="border-top: 1px solid black;"> </td><td style="border-top: 1px solid black;"> </td></tr> <tr><td style="border-top: 1px solid black;"> </td><td style="border-top: 1px solid black;"> </td></tr> <tr><td style="border-top: 1px solid black;"> </td><td style="border-top: 1px solid black;"> </td></tr> <tr><td style="border-top: 1px solid black;"> </td><td style="border-top: 1px solid black;"> </td></tr> </table>	No.	Description	1	OCO											
No.	Description															
1	OCO															

**Comments**

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



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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla I/I Study	314 S. Molalla Ave	
Project Name : 100.26	Location / Address: BC A3	BC A3 3 - BC A3 16
Project No. Chilton Peck	Report No. 1-53	Basin: MH No. / Main: 10.18.17
Tested By:		Date:

TESTING CODE	PHOTOGRAPHS																					
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; width: 10%;"><u>No.</u></th> <th style="text-align: center; width: 10%;"></th> <th style="text-align: center; width: 80%;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">OCO</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	<u>No.</u>		<u>Description</u>	1	OCO																
<u>No.</u>		<u>Description</u>																				
1	OCO																					

**Comments**

- Smoke coming out of open cleanout, no cap

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**SKETCH**



Repaired on WO#1038

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Smoke from mainline cleanout lid</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from mainline cleanout lid								
<u>No.</u>	<u>Description</u>												
1	Smoke from mainline cleanout lid												

**Comments**

- Mainline cleanout on Toliver Dr., +/-65' south of manhole TL\_E\_6.
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**SKETCH**



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# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from mainline cleanout lid</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from mainline cleanout lid								
<u>No.</u>	<u>Description</u>												
1	Smoke from mainline cleanout lid												

**Comments**

- Mainline cleanout on Hauser Ct., +/-185' north of manhole TL\_E\_3.
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**SKETCH**



Repaired on WO#1066



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from open cleanout/connection</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from open cleanout/connection								
No.	Description												
1	Smoke from open cleanout/connection												

**Comments**

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

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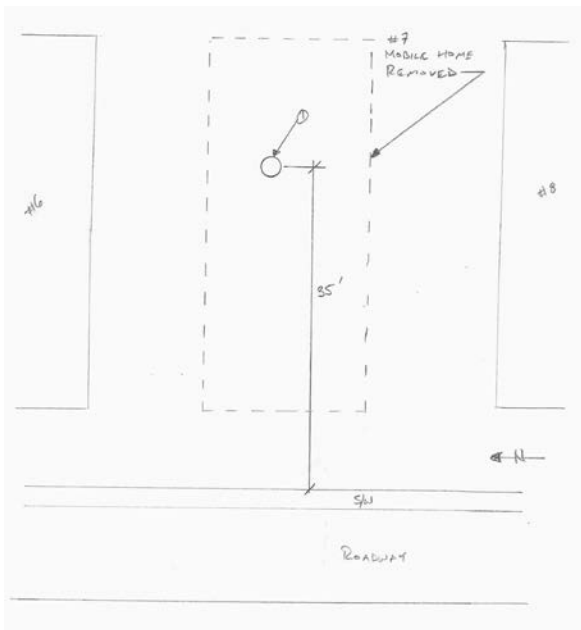


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**SKETCH**



Repaired on WO#1066

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from open cleanout/connection</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from open cleanout/connection								
No.	Description												
1	Smoke from open cleanout/connection												

**Comments**

- Open sewer connection/cleanout behind garage.

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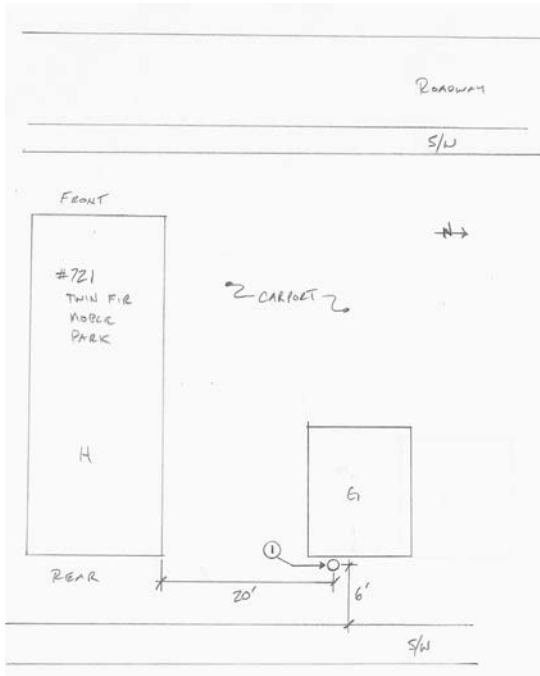


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**SKETCH**



Repaired on WO#1066

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

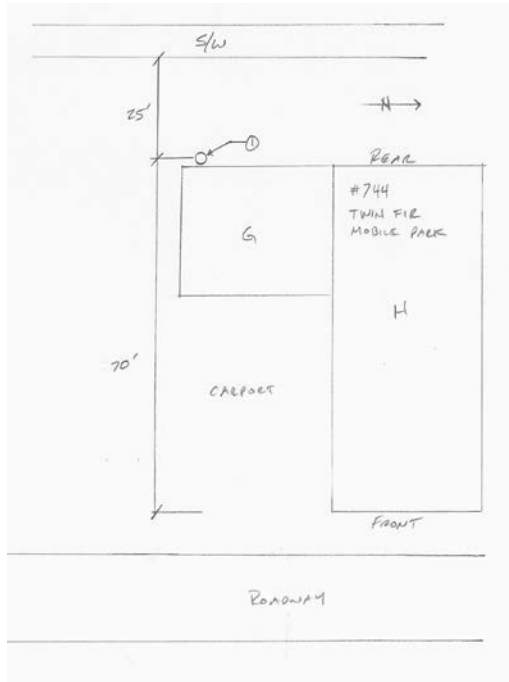
Molalla Smoke Testing		744 Heintz St. (Twin Fir Mobile Home Park)	
Project Name :		Location / Address:	
100.26	2-9	TL	TL_21
Project No.	Report No.	Basin:	MH No. / Main:
Ryan Quigley		Monday, October 16, 2017	
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout								
No.	Description												
1	Smoke from broken cleanout												

**Comments**

- Broken sewer cleanout cap behind garage.
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**SKETCH**



Repaired on WO#1066

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

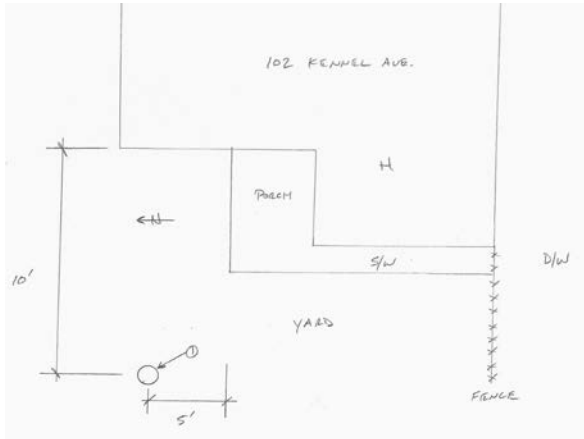
Molalla Smoke Testing	102 Kennel Ave.
Project Name : 100.26	Location / Address: TL_D
Project No. : 2-10	Basin: TL_D_13
Report No. : Ryan Quigley	MH No. / Main: Monday, October 16, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout								
No.	Description												
1	Smoke from broken cleanout												

**Comments**

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



Repaired on WO#1066

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

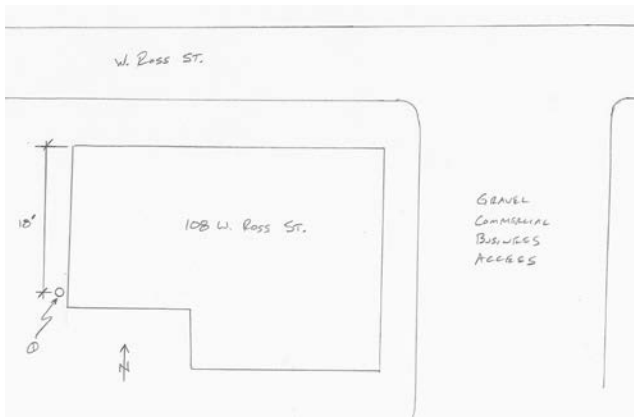
Molalla Smoke Testing	102 W. Ross St.
Project Name : 100.26	Location / Address: TL_D
Project No.                      2-11	Basin:                                      TL_D_13 and TL_D_6
Report No.                      Ryan Quigley	MH No. / Main: Monday, October 16, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout								
No.	Description												
1	Smoke from broken cleanout												

**Comments**

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



Repaired on WO#1066

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: left;">Smoke from mainline cleanout lid</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: left;">_____</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: left;">_____</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: left;">_____</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: left;">_____</td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from mainline cleanout lid	_____	_____	_____	_____	_____	_____	_____	_____
<u>No.</u>	<u>Description</u>												
1	Smoke from mainline cleanout lid												
_____	_____												
_____	_____												
_____	_____												
_____	_____												

**Comments**

- Smoke from cleanout located 80' east of manhole TL\_D\_12.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**SKETCH**



Repaired on WO#1066

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Smoke from cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from cleanout	2	Smoke from cleanout								
No.	Description														
1	Smoke from cleanout														
2	Smoke from cleanout														

**Comments**

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

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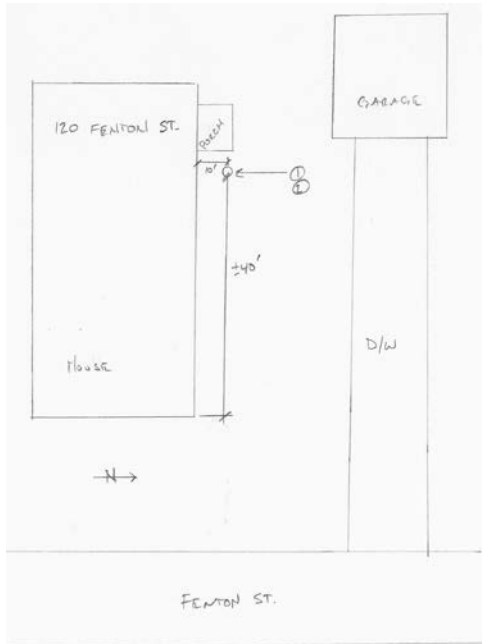


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**SKETCH**



Repaired on WO#1066

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

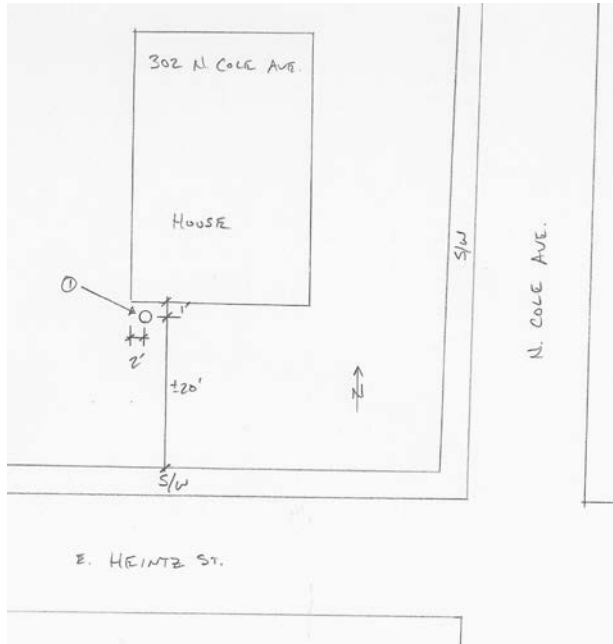
Molalla Smoke Testing	302 N. Cole Ave.
Project Name : 100.26	Location / Address: TL_B
Project No.                      2-22	Basin:                              TL_B_1 and TL_B_16
Report No.                      Ryan Quigley	MH No. / Main: Monday, October 16, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap										
No.	Description														
1	Smoke from broken cleanout cap														

**Comments**

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**SKETCH**



Repaired on WO#1066



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

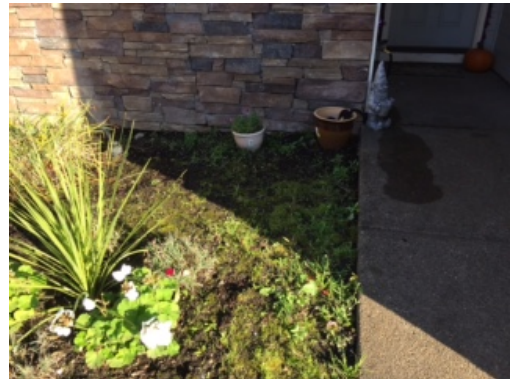
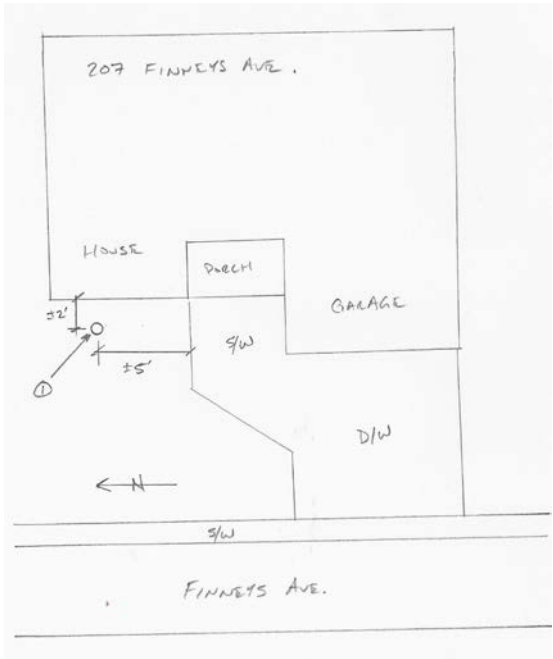
Molalla Smoke Testing	207 Finneys Ave.
Project Name : 100.26	Location / Address: TL_B
Project No. : Ryan Quigley	Basin: TL_B_1 and TL_B_16
Tested By:	MH No. / Main: Monday, October 16, 2017
	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap								
No.	Description												
1	Smoke from broken cleanout cap												

**Comments**

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**SKETCH**



Repaired on WO#1066

# 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	<u>No.</u> <u>Description</u>
LML = Leaking Main Line	1      Smoke from mainline cleanout
CB = Catch Basin	_____
LMH = Leaking Manhole	_____
<b>OCO = Open Cleanout</b>	_____
PHV = Plugged House Vent	_____
RD = Roof Drain	_____

### Comments

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



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

Molalla Smoke Testing  
Project Name :  
100.26  
Project No.  
Ryan Quigley  
Tested By:

N. Cole Ave.  
Location / Address:  
TL\_B  
Basin:

TL\_B\_31  
MH No. / Main:  
Monday, October 16, 2017  
Date:

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
LML = Leaking Main Line	1      Smoke from mainline cleanout
CB = Catch Basin	_____
LMH = Leaking Manhole	_____
<b>OCO = Open Cleanout</b>	_____
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



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

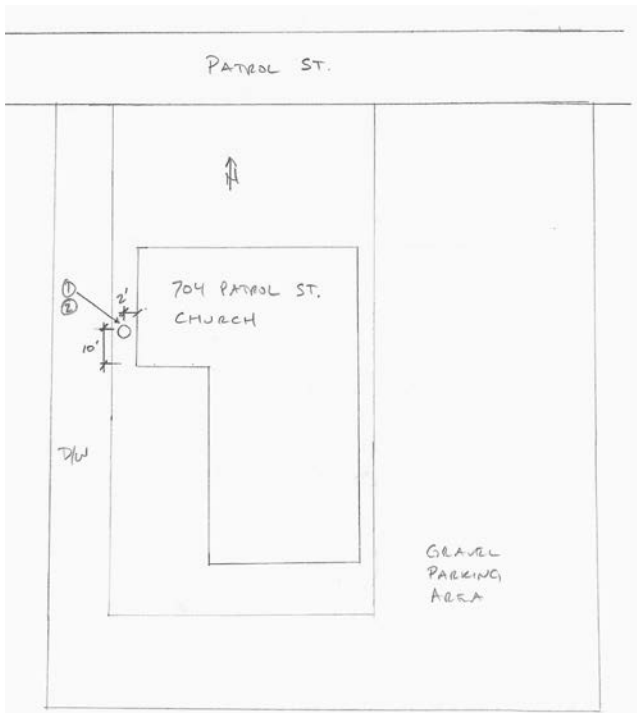
Molalla Smoke Testing	704 Patrol St.
Project Name : 100.26	Location / Address: TL_B
Project No.                      2-27	Basin:                                      TL_B_2 and TL_B_5
Report No.                      Ryan Quigley	MH No. / Main: Monday, October 16, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout with no cap</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Smoke from cleanout with no cap</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from cleanout with no cap	2	Smoke from cleanout with no cap								
No.	Description														
1	Smoke from cleanout with no cap														
2	Smoke from cleanout with no cap														

**Comments**

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**SKETCH**



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

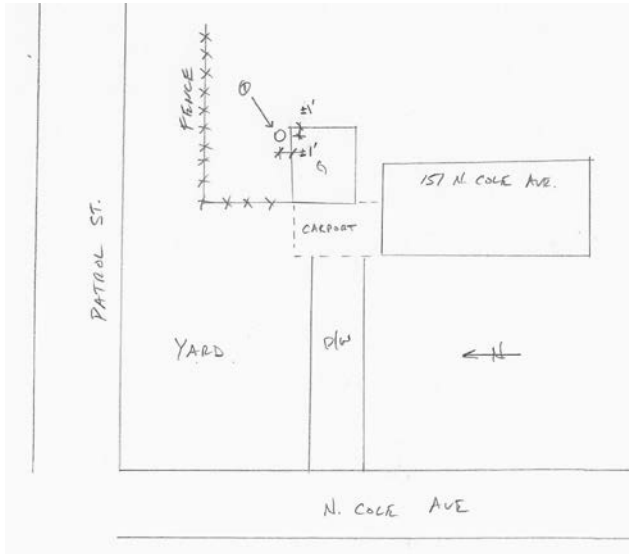
Molalla Smoke Testing	151 N. Cole Ave.
Project Name : 100.26	Location / Address: TL_B
Project No. : Ryan Quigley	Basin: Monday, October 16, 2017
Report No. : 2-28	MH No. / Main: TL_B_2 and TL_B_28
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from cleanout										
No.	Description														
1	Smoke from cleanout														

**Comments**

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



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

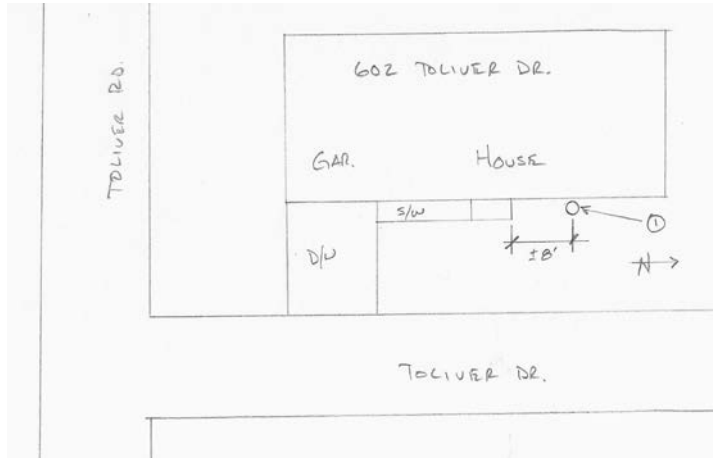
Molalla Smoke Testing	602 Toliver Dr.
Project Name : 100.26	Location / Address: TL
Project No.      2-30	Basin:      TL_21 and TL_SB1_3
Report No.      Ryan Quigley	MH No. / Main: Tuesday, October 17, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap								
No.	Description												
1	Smoke from broken cleanout cap												

**Comments**

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**SKETCH**



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

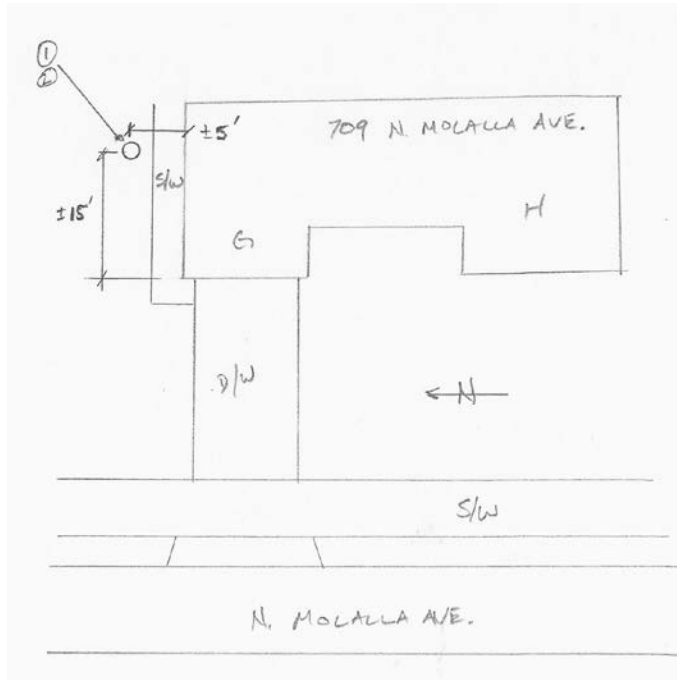
Molalla Smoke Testing	709 N. Molalla Ave.
Project Name : 100.26	Location / Address: TL_C
Project No.                      2-32	Basin:                                      TL_C_22 and TL_C_39
Report No.                      Ryan Quigley	MH No. / Main: Tuesday, October 17, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Smoke from broken cleanout cap</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap	2	Smoke from broken cleanout cap								
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**



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

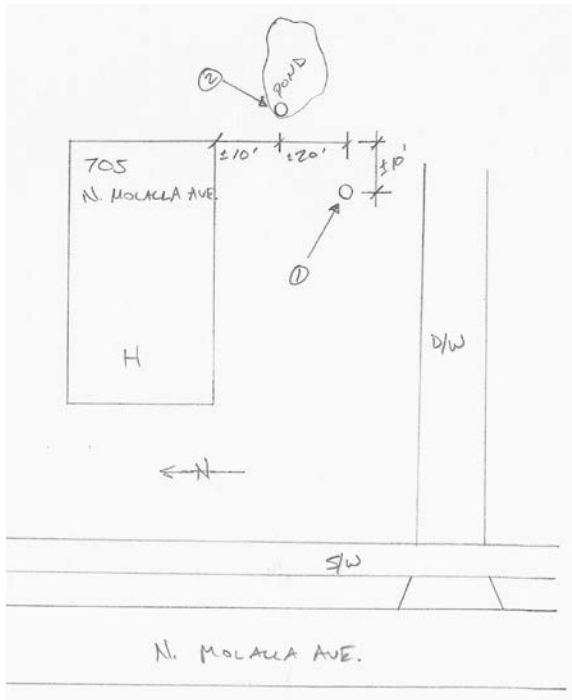
Molalla Smoke Testing	705 N. Molalla Ave.
Project Name : 100.26	Location / Address: TL_C
Project No.                      2-33	Basin:                                      TL_C_22 and TL_C_39
Report No.                      Ryan Quigley	MH No. / Main: Tuesday, October 17, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Smoke from broken cleanout cap</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Smoke from landscape pond</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap	2	Smoke from broken cleanout cap	3	Smoke from landscape pond				
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



Repaired on WO#1384



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from parking lot cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from parking lot cleanout								
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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**SKETCH**



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

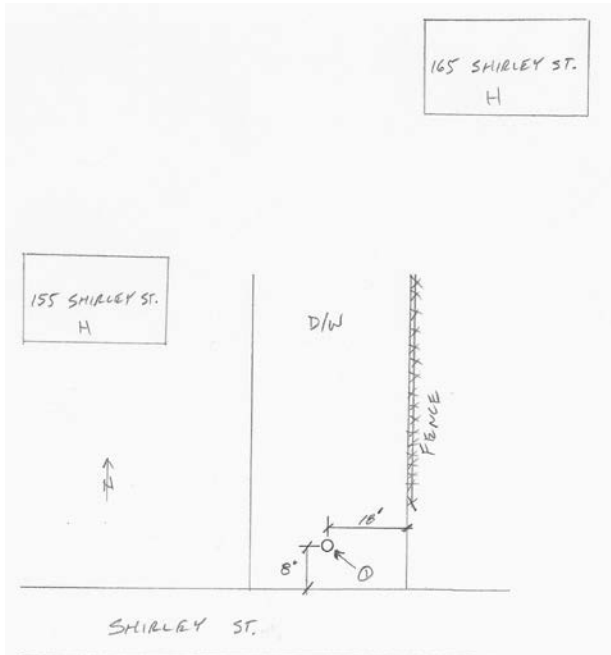
Molalla Smoke Testing	165 Shirley St.	
Project Name :	Location / Address:	
100.26	2-38	TL_C
Project No.	Report No.	Basin:
Ryan Quigley	TL_C_18 and TL_C_19	MH No. / Main:
Tested By:	Tuesday, October 17, 2017	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from driveway cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from driveway cleanout								
No.	Description												
1	Smoke from driveway cleanout												

### Comments

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



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

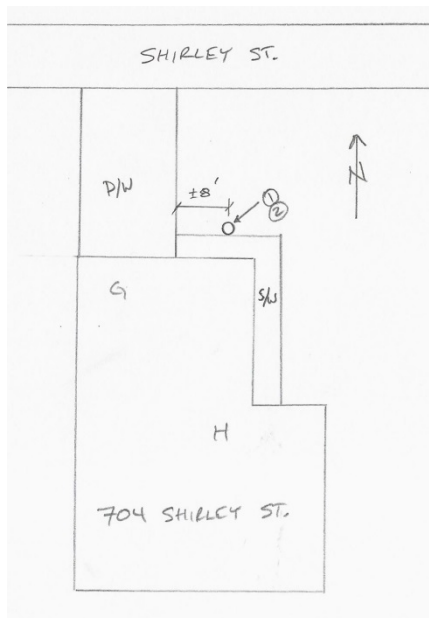
Molalla Smoke Testing	704 Shirley St.	
Project Name :	Location / Address:	
100.26	2-40	TL_C 5 and TL_C_6
Project No.	Report No.	MH No. / Main:
Ryan Quigley	Basin: TL_C	Tuesday, October 17, 2017
Tested By:		Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap										
No.	Description														
1	Smoke from broken cleanout cap														

**Comments**

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



Repaired on WO#1384

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap								
No.	Description												
1	Smoke from broken cleanout cap												

**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**



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

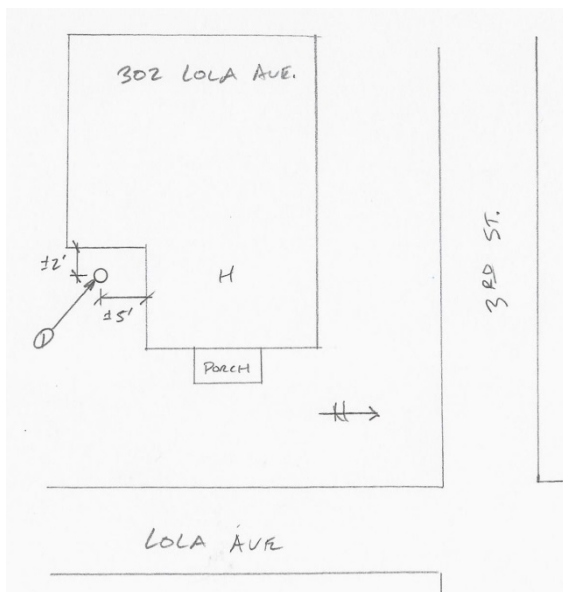
Molalla Smoke Testing	302 Lola Ave.	
Project Name :	Location / Address:	
100.26	2-43	TL_A
Project No.	Report No.	Basin:
Ryan Quigley		TL_A_22 and TL_A_19
Tested By:		MH No. / Main:
		Tuesday, October 17, 2017
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout area</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from cleanout area								
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**



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

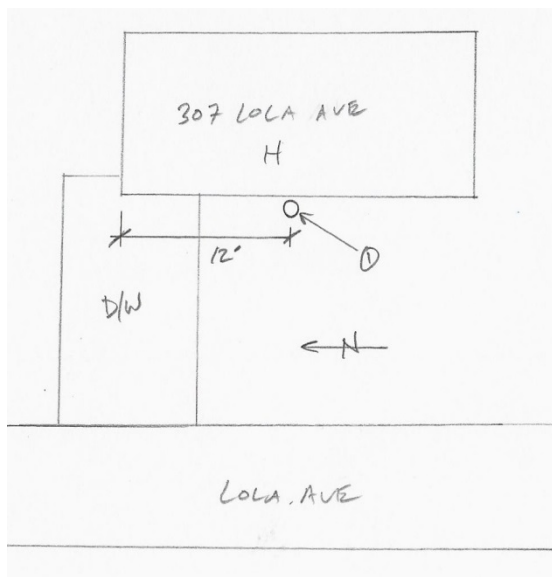
Molalla Smoke Testing	307 Lola Ave.	
Project Name :	Location / Address:	
100.26	2-44	TL_A
Project No.	Report No.	Basin:
Ryan Quigley		TL_A_22 and TL_A_19
Tested By:		MH No. / Main:
		Tuesday, October 17, 2017
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;">No.</th> <th style="text-align: center; border-bottom: 1px solid black;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; border-bottom: 1px solid black;">1</td> <td style="border-bottom: 1px solid black;">Smoke from broken cleanout cap</td> </tr> <tr> <td style="border-bottom: 1px solid black;"> </td> <td style="border-bottom: 1px solid black;"> </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> </td> <td style="border-bottom: 1px solid black;"> </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> </td> <td style="border-bottom: 1px solid black;"> </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> </td> <td style="border-bottom: 1px solid black;"> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from broken cleanout cap								
No.	Description												
1	Smoke from broken cleanout cap												

**Comments**

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**SKETCH**



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

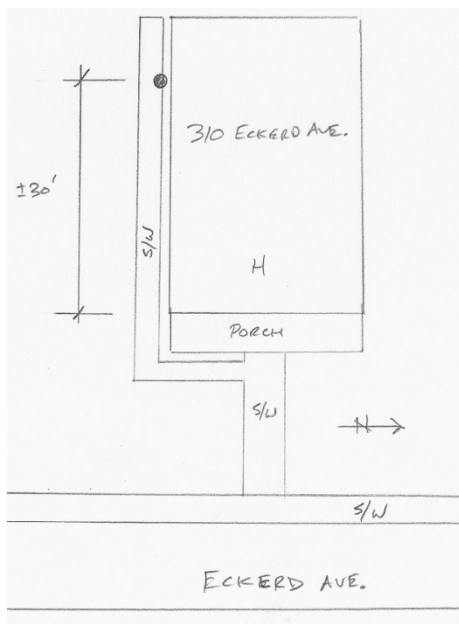
Molalla Smoke Testing	310 Eckerd Ave.	
Project Name :	Location / Address:	
100.26	2-46	TL_A
Project No.	Report No.	Basin:
Ryan Quigley		TL_A_17 and TL_A_18
Tested By:		MH No. / Main:
		Tuesday, October 17, 2017
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout area</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from cleanout area								
<u>No.</u>	<u>Description</u>												
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**



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

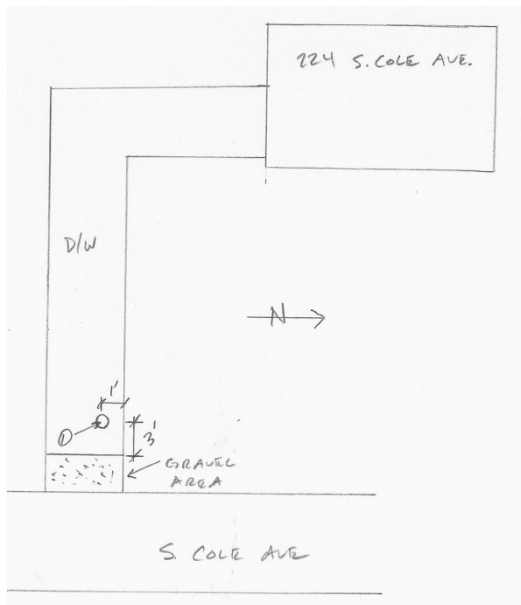
Molalla Smoke Testing	224 S. Cole Ave.
Project Name :	Location / Address:
100.26	2-48
Project No.	Report No.
Ryan Quigley	TL_A
Tested By:	Basin:
	TL_A 2 and TL_A 3
	MH No. / Main:
	Tuesday, October 17, 2017
	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from driveway cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from driveway cleanout								
No.	Description												
1	Smoke from driveway cleanout												

**Comments**

- Smoke from cleanout in flag lot driveway.
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**SKETCH**



Repaired on WO#1529



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

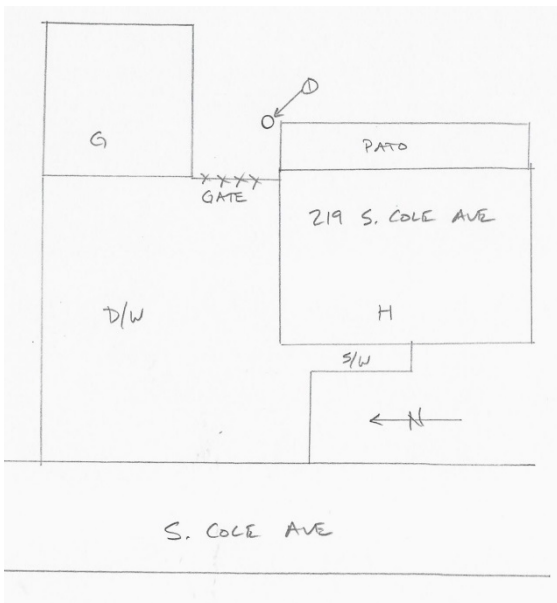
Molalla Smoke Testing	219 S. Cole Ave.
Project Name : 100.26	Location / Address: TL_A
Project No. Ryan Quigley	Basin: TL_A 2 and TL_A 3
Report No. 2-49	MH No. / Main: Tuesday, October 17, 2017
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout area</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Smoke from cleanout area										
No.	Description														
1	Smoke from cleanout area														

**Comments**

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



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

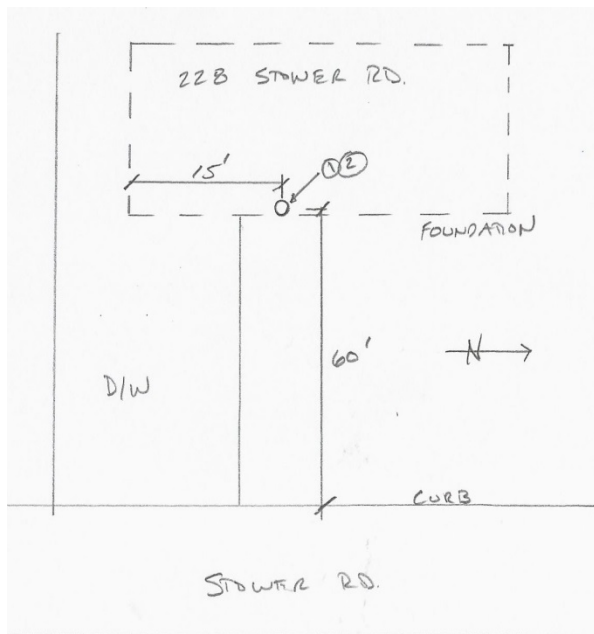
Molalla Smoke Testing	228 Stower Rd.	
Project Name :	Location / Address:	
100.26	2-50	TL_A TL_A_7 and TL_A_8
Project No.	Report No.	Basin:
Ryan Quigley		MH No. / Main:
Tested By:		Tuesday, October 17, 2017
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout/sewer connection</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Smoke from cleanout/sewer connection</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from cleanout/sewer connection	2	Smoke from cleanout/sewer connection						
No.	Description												
1	Smoke from cleanout/sewer connection												
2	Smoke from cleanout/sewer connection												

**Comments**

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



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

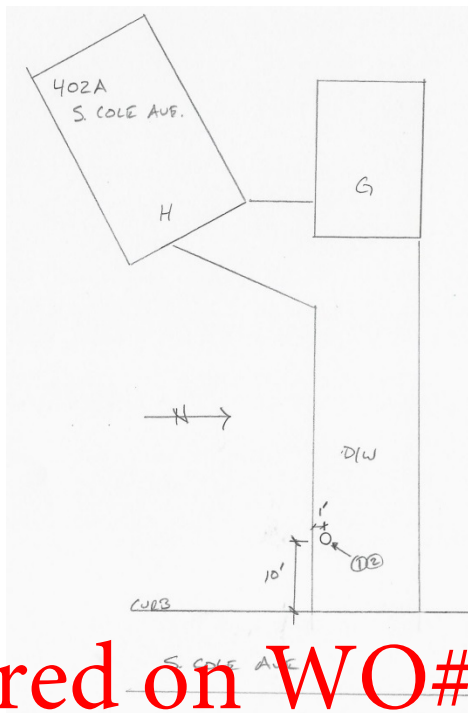
Molalla Smoke Testing	402A S. Cole Rd.	
Project Name : 100.26	2-51	Location / Address: TL_A
Project No. Ryan Quigley	Report No.	Basin: TL_A_6 and TL_A_8
Tested By:		MH No. / Main: Tuesday, October 17, 2017
		Date:

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

**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.
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**SKETCH**



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

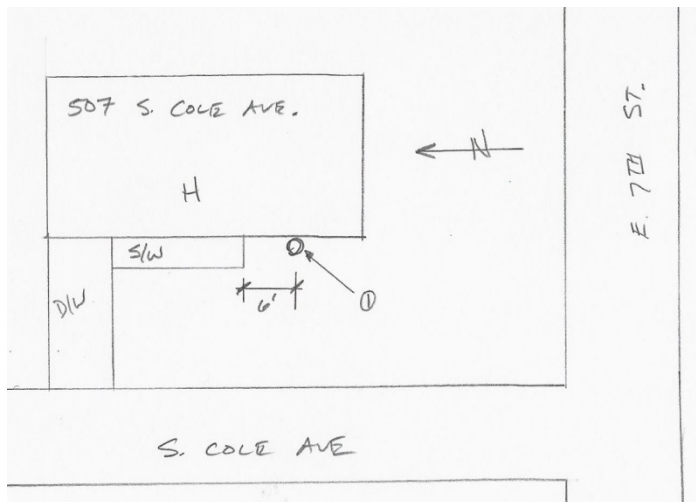
Molalla Smoke Testing	507 S. Cole Rd.	
Project Name :	Location / Address:	
100.26	2-52	TL_A TL_A_4 and TL_A_8
Project No.	Report No.	Basin:
Ryan Quigley		MH No. / Main:
Tested By:		Tuesday, October 17, 2017
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 15%;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from open cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from open cleanout								
<u>No.</u>	<u>Description</u>												
1	Smoke from open cleanout												

**Comments**

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



Repaired on WO#1529

# 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:
Ryan Quigley	Tuesday, October 17, 2017	MH No. / Main:
Tested By:	Date:	

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; width: 15%;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from mainline cleanout cover</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from mainline cleanout cover								
<u>No.</u>	<u>Description</u>												
1	Smoke from mainline cleanout cover												

**Comments**

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



Repaired on WO#1529

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

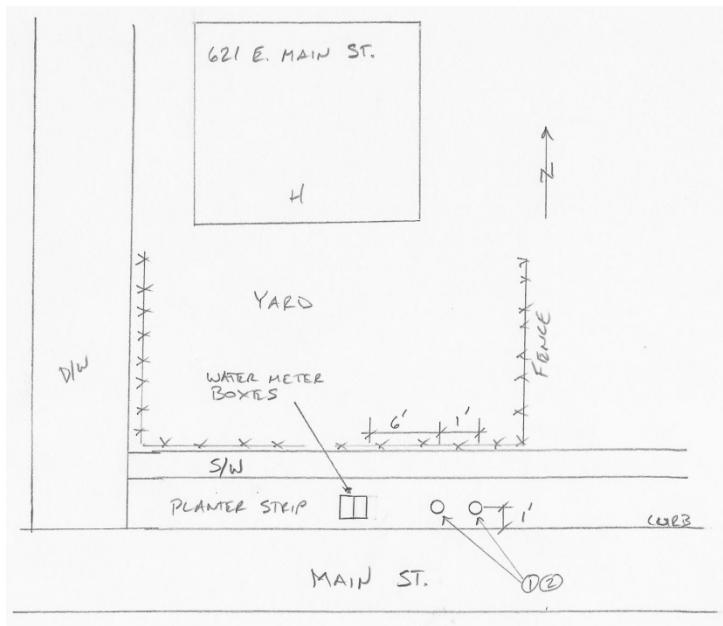
Molalla Smoke Testing	621 Main St.	
Project Name :	Location / Address:	
100.26	2-54	TL_A
Project No.	Report No.	Basin:
Ryan Quigley		TL_A_30 and TL_A_31
Tested By:		MH No. / Main:
		Wednesday, October 18, 2017
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from two broken cleanout covers</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Smoke from two broken cleanout covers</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from two broken cleanout covers	2	Smoke from two broken cleanout covers						
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.
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### SKETCH



Repaired on WO#3150

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

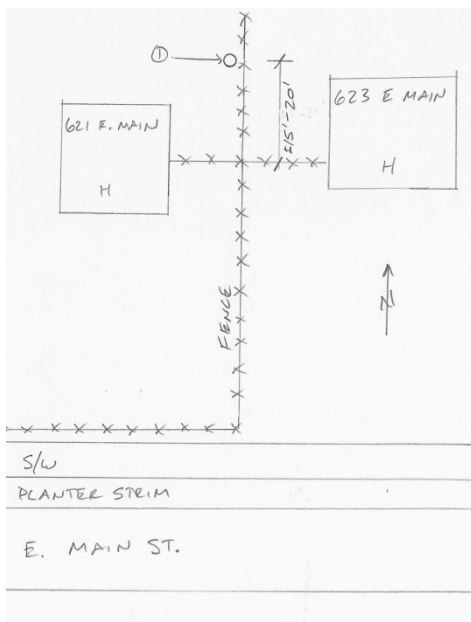
Molalla Smoke Testing	621 and 623 Main St.	
Project Name : 100.26	2-55	Location / Address: TL_A
Project No. Ryan Quigley	Report No.	Basin: TL_A_30 and TL_A_31
Tested By:		MH No. / Main: Wednesday, October 18, 2017
		Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout area</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Smoke from cleanout area										
No.	Description														
1	Smoke from cleanout area														

### Comments

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



Repaired on WO#3150

# 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
Project No.	Report No.	Basin:
Ryan Quigley		TL_A 26 and TL_A 27
Tested By:		MH No. / Main:
		Wednesday, October 18, 2017
		Date:

TESTING CODE	PHOTOGRAPHS														
<p><b>LSL = Leaking Service Lateral</b></p> <p>LML = Leaking Main Line</p> <p>CB = Catch Basin</p> <p>LMH = Leaking Manhole</p> <p><b>OCO = Open Cleanout</b></p> <p>PHV = Plugged House Vent</p> <p>RD = Roof Drain</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1/2</td> <td>Smoke from cleanout area</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Smoke from buried service lateral</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Smoke from open pipe stub</td> </tr> <tr> <td style="text-align: center;">5/6</td> <td>Smoke from buried service lateral</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	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				
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

**Repaired on WO#3150**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

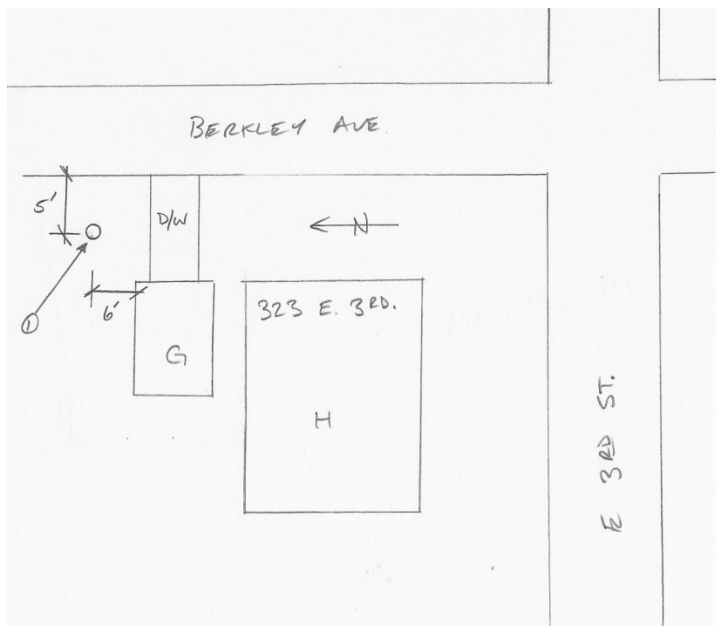
Molalla Smoke Testing	323 E. 3 <sup>rd</sup> St.	
Project Name :	Location / Address:	
100.26	2-58	BC_A3
Project No.	Report No.	Basin:
Ryan Quigley		BC_A3_13 and BC_A3_14
Tested By:		MH No. / Main:
		Wednesday, October 18, 2017
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from broken cleanout cap</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from broken cleanout cap								
<u>No.</u>	<u>Description</u>												
1	Smoke from broken cleanout cap												

### Comments

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



Repaired on WO#3150

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

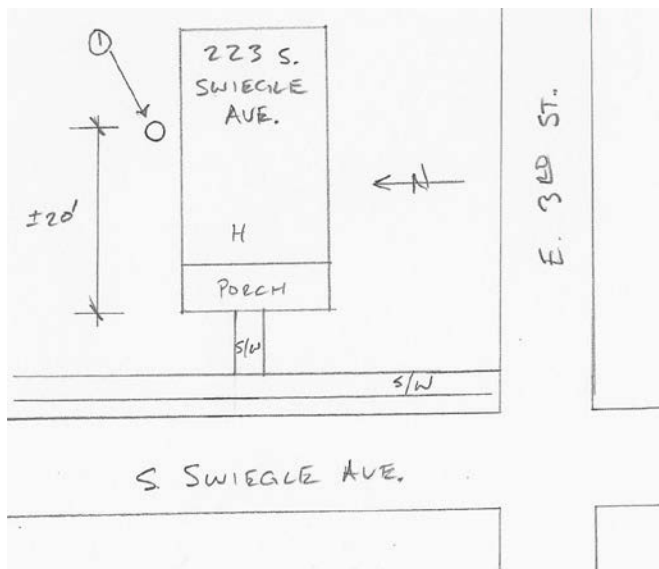
Molalla Smoke Testing	223 Swiegle Ave.	
Project Name :	Location / Address:	
100.26	2-60	BC_A3
Project No.	Report No.	Basin:
Ryan Quigley		BC_A3_9 and BC_A3_10
Tested By:		MH No. / Main:
		Wednesday, October 18, 2017
		Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; width: 15%;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from cleanout area</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Smoke from cleanout area										
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



Repaired on WO#3150

# 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	PHOTOGRAPHS
<b>LSL = Leaking Service Lateral</b>	<u>No.</u> <u>Description</u>
LML = Leaking Main Line	1                      Smoke from splash pad drain
CB = Catch Basin	2                      Smoke from broken clean out cap
LMH = Leaking Manhole	3                      Smoke from lawn area
<b>OCO = Open Cleanout</b>	4                      Smoke from lawn area
PHV = Plugged House Vent	
RD = Roof Drain	

## Comments

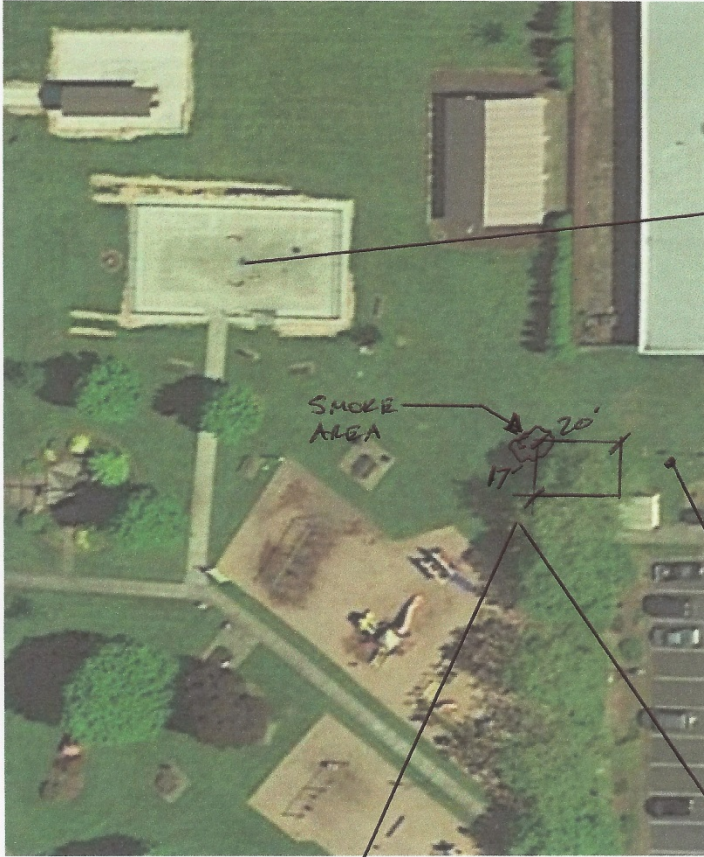
- See attached aerial for locations.
- Picture No. 1 – Smoke coming up from the new splash pad play area drain.
- Picture No. 3 & 4 – Approximate 10 sq. ft. area in the lawn was smoking. No cleanout found. Assumed to be broken sewer lateral or main. 20' north and 17' west of northwest bathroom corner.
- 
- 

## SKETCH

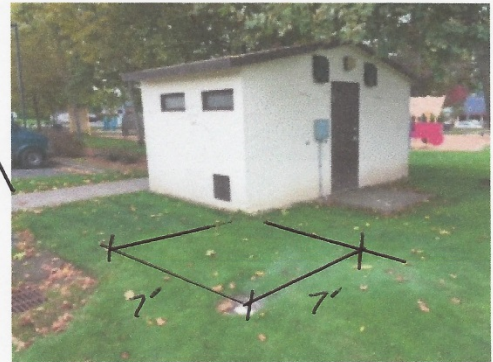
See Attached

Repaired on WO#3150

Molalla Smoke Testing  
Report No. 2-62  
Fox Park



No. 1



No. 2



No. 3



No. 4

Repaired on WO#3150

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 15%;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Smoke from mainline cleanout cover</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Smoke from mainline cleanout cover								
<u>No.</u>	<u>Description</u>												
1	Smoke from mainline cleanout cover												

**Comments**

- Smoke from mainline cleanout cover located at 4<sup>th</sup> St. and Metzler Ave.
- 
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**SKETCH**



Repaired on WO#3150

# 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
Project No.	Report No.	Basin:
Andy Hall		BC_C_10 to BC_C_22
Tested By:		MH No. / Main:
		10/16/17
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;">No.</th> <th style="text-align: center; border-bottom: 1px solid black;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

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



Repaired on WO#3150

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

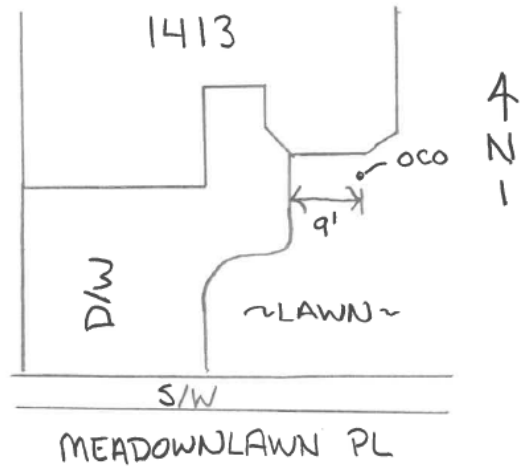
Molalla Smoke Testing	1413 Meadowlawn PL
Project Name : 100.26	Location / Address: BC_C
3-5	BC_C_26 to BC_C_59
Project No.	Basin:
Report No.	MH No. / Main:
Andy Hall	10/16/17
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Cleanout has broken lid.
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**SKETCH**



Repaired on WO#3150



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

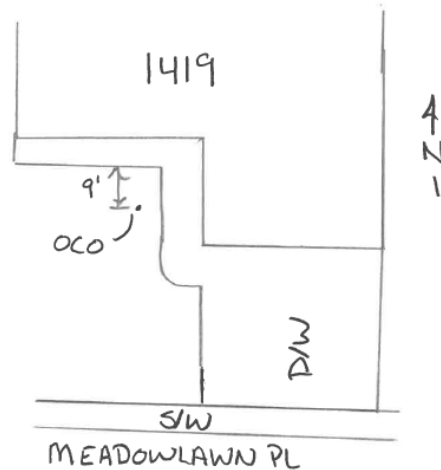
Molalla Smoke Testing		1419 Meadowlawn PL	
Project Name :		Location / Address:	
100.26	3-6	BC_C	BC_C_26 to BC_C_59
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall		10/16/17	
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Cleanout does not have lid.
- 
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**SKETCH**



Repaired on WO#3150

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

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

**SKETCH**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

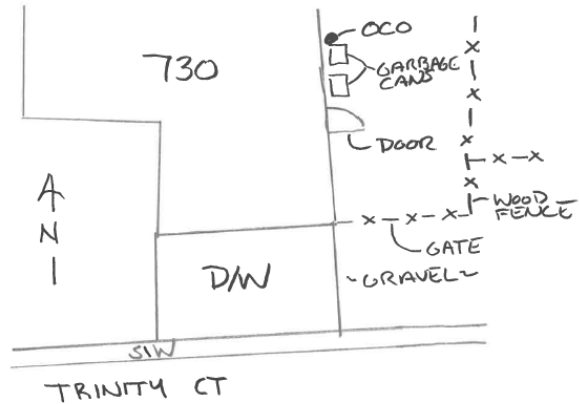
Molalla Smoke Testing	730 Trinity Ct	
Project Name :	Location / Address:	
100.26	3-10	TL
Project No.	Report No.	TL_SB6_2 to TL_SB6_4
Andy Hall	Basin:	MH No. / Main:
Tested By:	Date:	10/16/17

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout?</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Open Cleanout?								
No.	Description												
1	Open Cleanout?												

### Comments

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



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

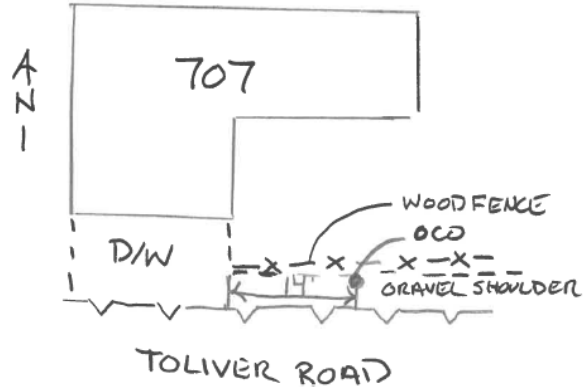
Molalla Smoke Testing	707 Toliver Road
Project Name : 100.26	Location / Address: TL
Project No.                      3-11	Basin:                                      TL_ 27 to TL_28
Andy Hall	MH No. / Main: 10/16/17
Tested By:	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Broken cleanout lid.
- 
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**SKETCH**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

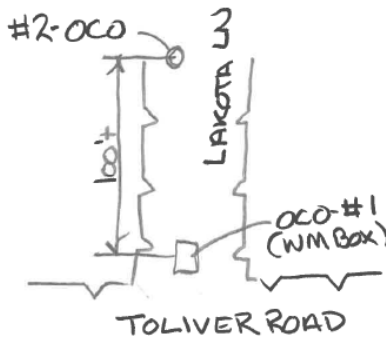
Molalla Smoke Testing		Lakota Ln (Near Toliver Road)	
Project Name :		Location / Address:	
100.26	3-12	TL	TL_24 to TL_25
Project No.	Report No.	Basin:	MH No. / Main:
Andy Hall			10/16/17
Tested By:			Date:

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
LML = Leaking Main Line	1                      Open Cleanout
CB = Catch Basin	2                      Open Cleanout
LMH = Leaking Manhole	_____
<b>OCO = Open Cleanout</b>	_____
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.
- 
- 
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**SKETCH**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

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

**SKETCH**



Repaired on WO#3224

# 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
Project No.	Report No.	Basin:
Andy Hall	TL_F_2 to TL_F_20	MH No. / Main:
Tested By:	10/17/17	Date:

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 10%;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Open Cleanout										
<u>No.</u>	<u>Description</u>														
1	Open Cleanout														

**Comments**

- Cleanout has grated lid.
- 
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**SKETCH**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Open Cleanout								
<u>No.</u>	<u>Description</u>												
1	Open Cleanout												

**Comments**

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



Repaired on WO#3224



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

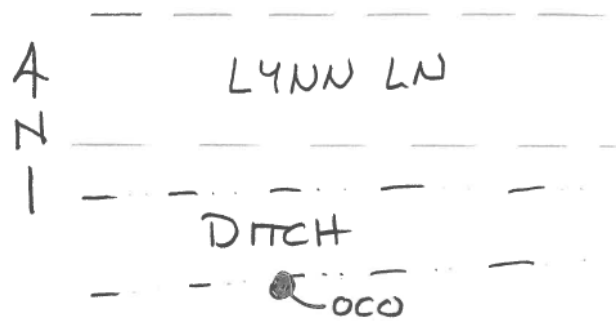
Molalla Smoke Testing	Lynn Ln.	
Project Name :	Location / Address:	
100.26	3-19	West of MH TL_F_18
Project No.	Report No.	Basin:
Andy Hall	TL_F	MH No. / Main:
Tested By:	Date:	10/17/17

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Cleanout pipe broken next to ditch.
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**SKETCH**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

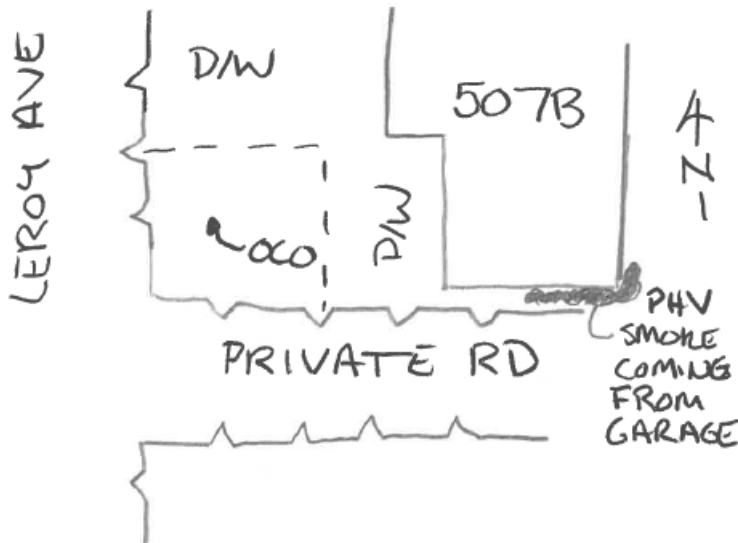
Molalla Smoke Testing	509 & 507B Leroy Avenue (Map shows same lot)
Project Name : 100.26	Location / Address: TL_F
Project No. : Andy Hall	Basin: TL_F_9 to TL_F_18
Tested By:	MH No. / Main: 10/17/17
	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> <b>PHV = Plugged House Vent</b> RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">None</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	None								
No.	Description												
1	None												

**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**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

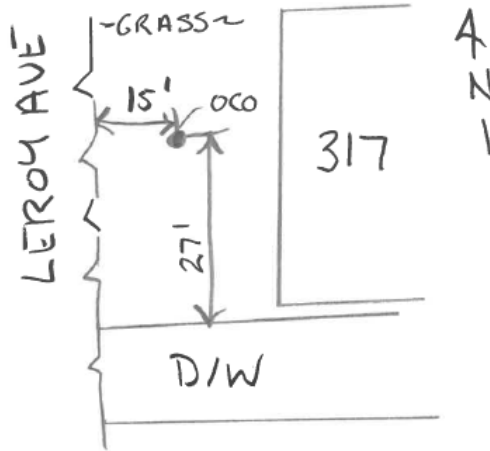
Molalla Smoke Testing	317 Leroy Avenue	
Project Name : 100.26	3-21	Location / Address: BC_A4
Project No. Andy Hall	Report No.	Basin: BC_A4_1 to BC_A4_2
Tested By:		MH No. / Main: 10/17/17
		Date:

TESTING CODE	PHOTOGRAPHS	
LSL = Leaking Service Lateral	<u>No.</u>	<u>Description</u>
LML = Leaking Main Line	1	Open Cleanout
CB = Catch Basin		
LMH = Leaking Manhole		
<b>OCO = Open Cleanout</b>		
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**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Broken cleanout pipe.
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**SKETCH**



Repaired on WO#3224

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

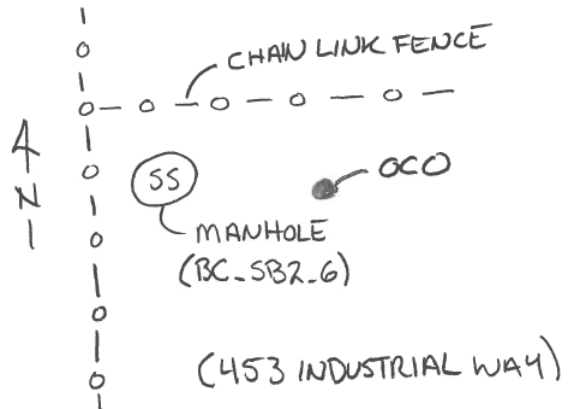
Molalla Smoke Testing	453 Industrial Way	
Project Name :	Location / Address:	
100.26	3-24	BC_SB2
Project No.	Report No.	Basin:
Andy Hall		BC_SB2_6 to BC_SB2_8
Tested By:		MH No. / Main:
		10/17/17
		Date:

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

**Comments**

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



Repaired on WO#3445

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

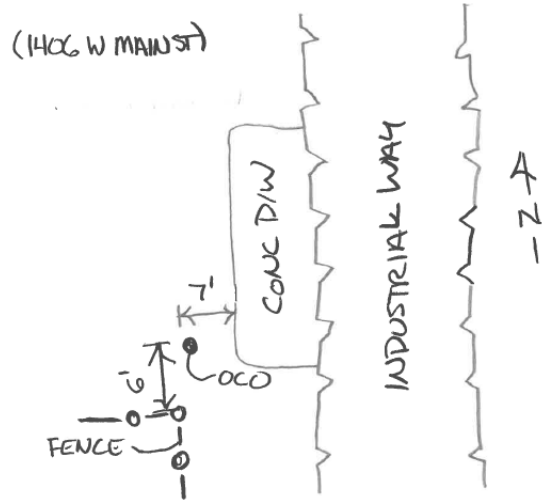
Molalla Smoke Testing	1406 W Main Street	
Project Name :	Location / Address:	
100.26	3-25	BC_B
Project No.	Report No.	Basin:
Andy Hall		BC_B_10 to BC_B_15
Tested By:		MH No. / Main:
		10/17/17
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Cleanout pipe broken at surface.
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**SKETCH**



Repaired on WO#3445

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Broken cleanout cap.
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**SKETCH**



Repaired on WO#3445

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

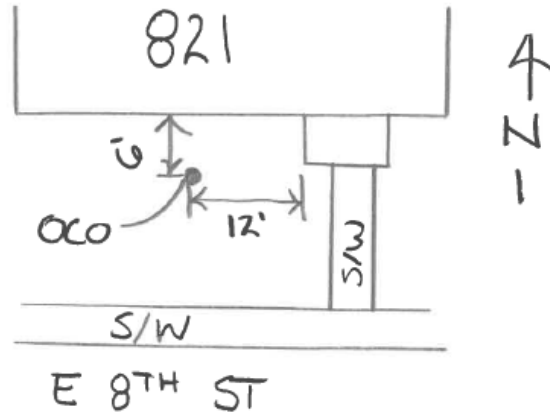
Molalla Smoke Testing	821 E 8 <sup>th</sup> Street
Project Name : 100.26	Location / Address: TL_A1
Project No. Andy Hall	Basin: TL_A1_1 to TL_A1_6
Tested By:	MH No. / Main: 10/17/17
	Date:

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

**Comments**

- Cleanout has grated lid.
- 
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**SKETCH**



Repaired on WO#3445



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

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

**Comments**

- Cleanout does not have cap.

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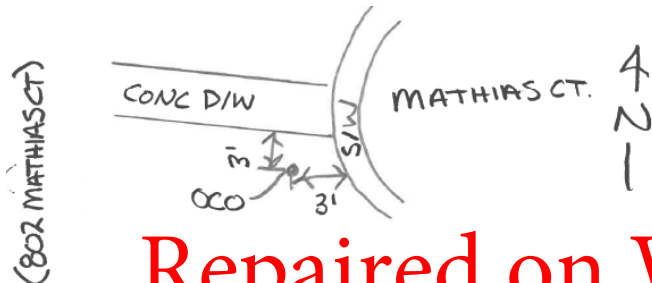


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**SKETCH**



**Repaired on WO#3445**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

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

**Comments**

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



**Repaired on WO#3445**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

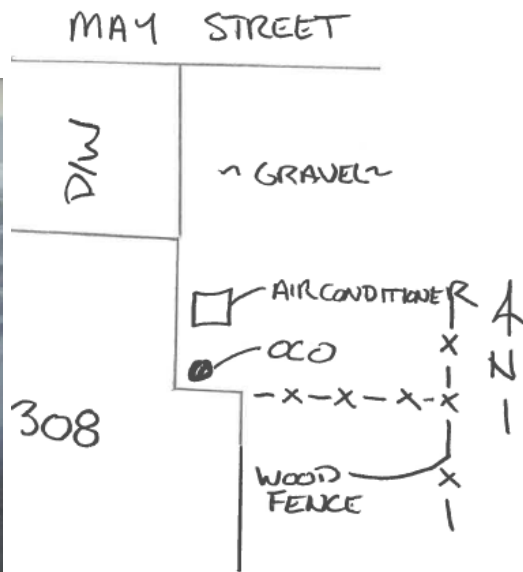
Molalla Smoke Testing	308 May Street	
Project Name : 100.26	3-33	Location / Address: BC_A1
Project No. Andy Hall	Report No.	Basin: BC_A1_4 to BC_A1_5
Tested By:		MH No. / Main: 10/18/17
		Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout?</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Open Cleanout?								
No.	Description												
1	Open Cleanout?												

**Comments**

- Could not identify source of smoke.
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**SKETCH**



Repaired on WO#3445

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

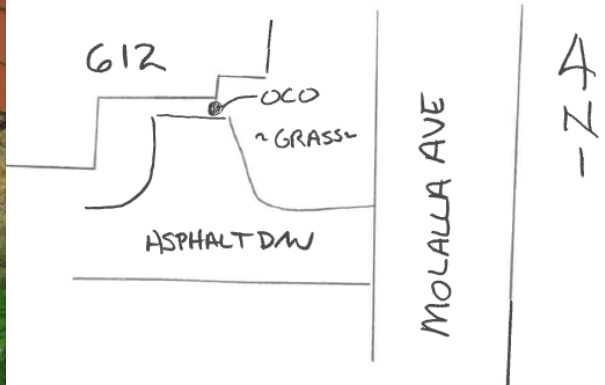
Molalla Smoke Testing	612 S Molalla Avenue
Project Name : 100.26	Location / Address: BC_A
Project No. Andy Hall	Basin: BC_A_15 to BC_A_16
Tested By:	Date: 10/18/17
3-36	MH No. / Main: 10/18/17
Report No.	Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
No.	Description												
1	Open Cleanout												

**Comments**

- Cleanout does not have cap.
- 
- 
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- 

**SKETCH**



**Repaired on WO#3445**

# 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	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
LML = Leaking Main Line	1      Open Cleanout
CB = Catch Basin	_____
LMH = Leaking Manhole	_____
<b>OCO = Open Cleanout</b>	_____
PHV = Plugged House Vent	_____
RD = Roof Drain	_____

**Comments**

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



Repaired on WO#3445

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> <b>PHV = Plugged House Vent</b> RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open Cleanout								
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.
- 
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**SKETCH**



Repaired on WO#3445

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

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

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole <b>OCO = Open Cleanout</b> PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 15%;"><u>No.</u></th> <th style="text-align: center;"><u>Description</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open Cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	<u>No.</u>	<u>Description</u>	1	Open Cleanout								
<u>No.</u>	<u>Description</u>												
1	Open Cleanout												

**Comments**

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



Repaired on WO#3515

# 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:

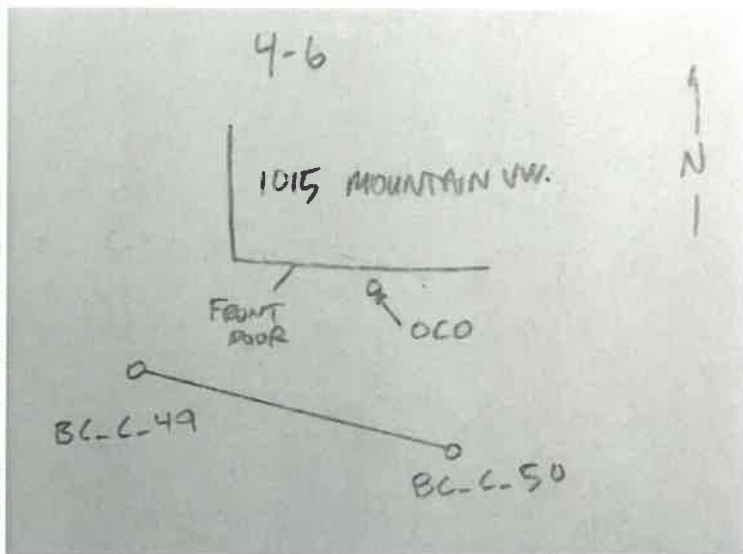
Date:

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
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. Right next to hose reel.
- Also refer to aerial on following page.

**SKETCH**



Repaired on WO#3515



**AERIAL**



**Repaired on WO#3515**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

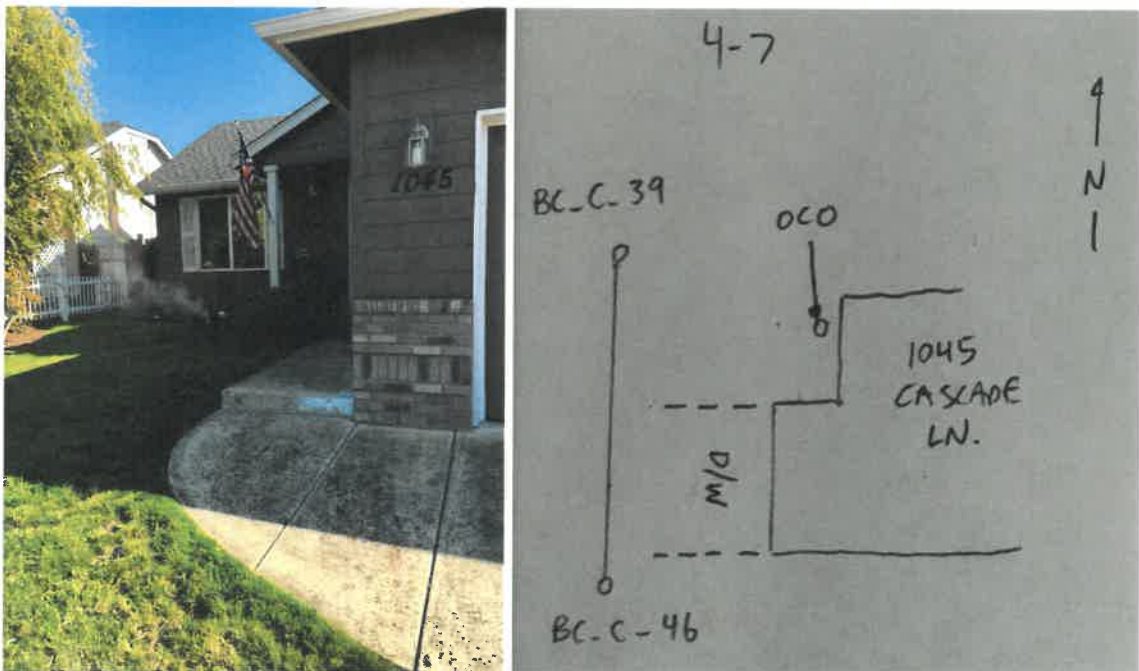
Molalla Smoke Testing		1045 Cascade Lane	
Project Name :		Location / Address:	
100.26	4-7	BC C	BC C 39 to BC C 46
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore			10/16/2017
Tested By:			Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; width: 10%;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open cleanout								
No.	Description												
1	Open cleanout												

**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.
- 
- 
- 

**SKETCH**



Repaired on WO#3515

**AERIAL**



**Repaired on WO#3515**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

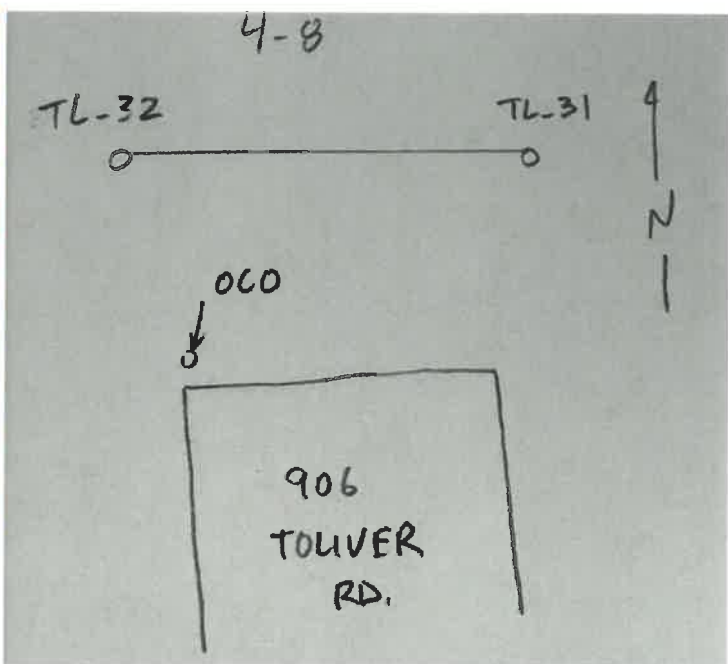
Molalla Smoke Testing		906 Toliver Rd	
Project Name :		Location / Address:	
100.26	4-8	TL	TL 31 and TL 32
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore			10/16/2017
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
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.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**SKETCH**



**Repaired on WO#3515**

**AERIAL**



**Repaired on WO#3515**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

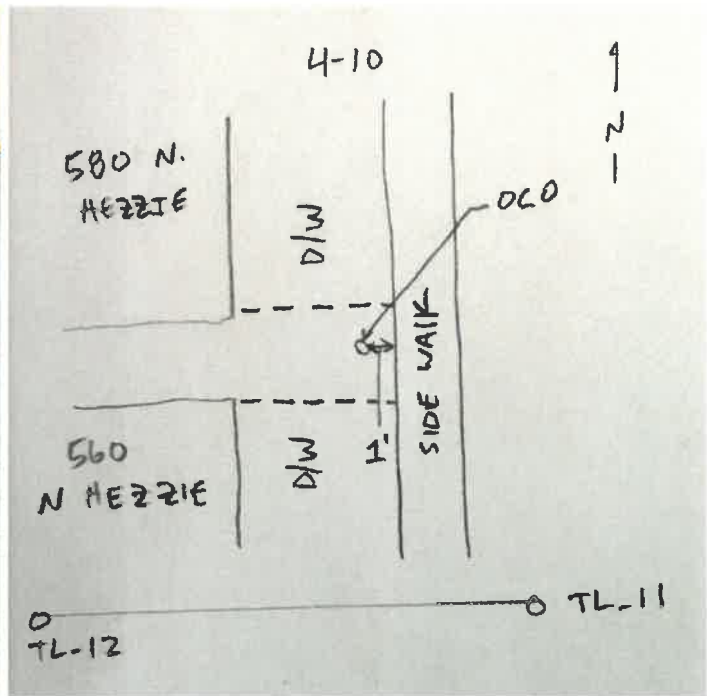
Molalla Smoke Testing		580 N. Hezzie	
Project Name :		Location / Address:	
100.26	4-10	TL	TL 11 to TL 12
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore			10/16/2017
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
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**



Repaired on WO#3515

**AERIAL**



**Repaired on WO#3515**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

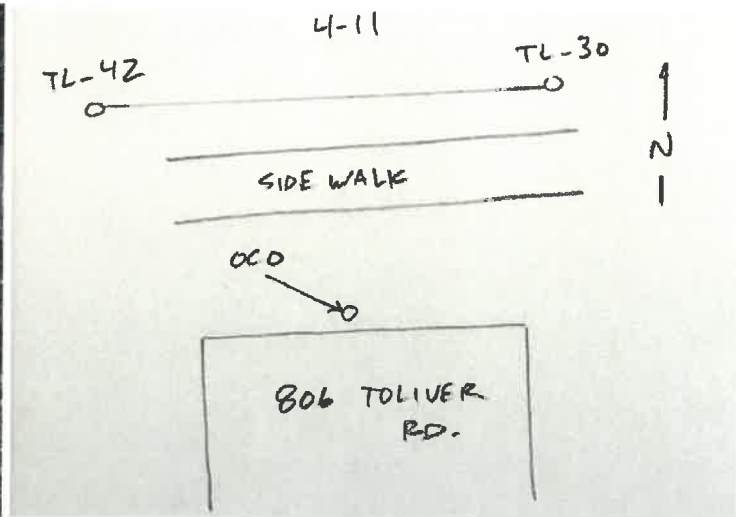
Molalla Smoke Testing		806 Toliver Rd	
Project Name :	4-11	Location / Address:	TL 30 to TL 42
100.26	Report No.	TL	MH No. / Main:
Project No.	Tyler J. Molatore	Basin:	10/16/2017
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open cleanout</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Open cleanout										
No.	Description														
1	Open cleanout														

**Comments**

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

**SKETCH**



Repaired on WO#3515



# 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:

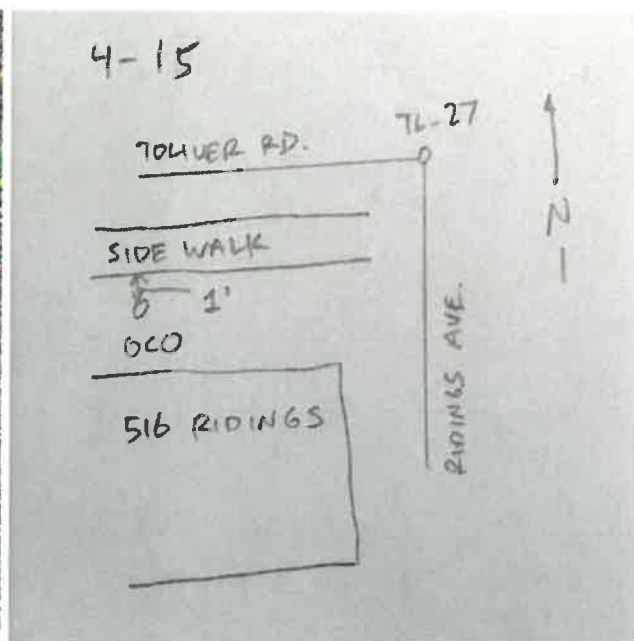
Date:

TESTING CODE	PHOTOGRAPHS												
<p>LSL = Leaking Service Lateral                      LML = Leaking Main Line                      CB = Catch Basin                      LMH = Leaking Manhole                      OCO = Open Cleanout                      PHV = Plugged House Vent                      RD = Roof Drain</p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open cleanout</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open cleanout								
No.	Description												
1	Open cleanout												

**Comments**

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

**SKETCH**



Repaired on WO#3515

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

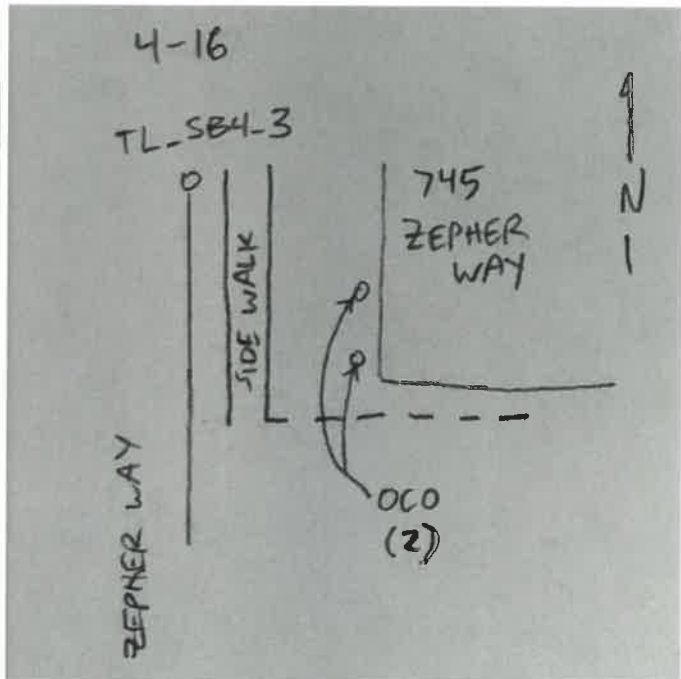
Molalla Smoke Testing		745 Zepher Way	
Project Name :	4-16	Location / Address:	TL SB4 2 and TL SB4 3
100.26	Report No.	TL	Basin:
Project No.	Tyler J. Molatore	MH No. / Main:	10/17/2017
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Two open cleanouts</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	No.	Description	1	Two open cleanouts										
No.	Description														
1	Two open cleanouts														

**Comments**

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



Repaired on WO#3515

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

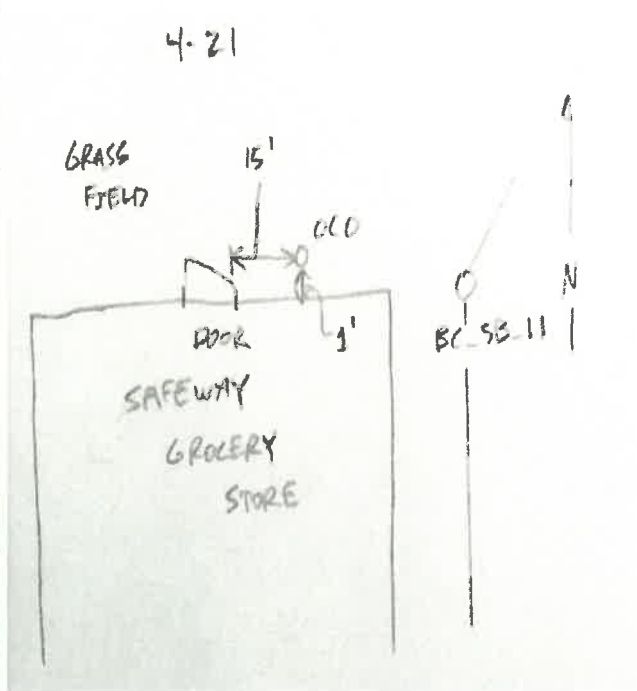
Molalla Smoke Testing		1535 Highway 211	
Project Name :		Location / Address:	
100.26	4-21	BC SB1	BC SB1 11 to SB SB1 6
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore			10/17/2017
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
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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**SKETCH**



Repaired on WO#3515

**AERIAL**



**Repaired on WO#3515**

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

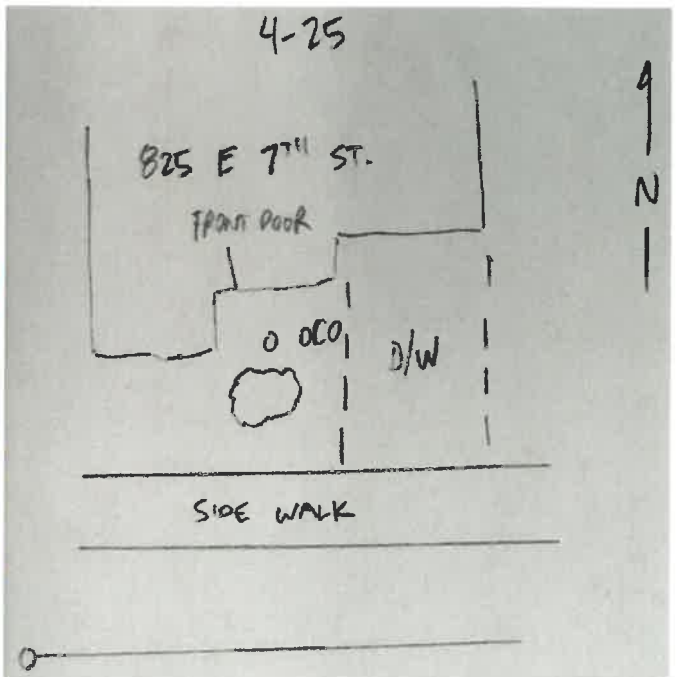
Molalla Smoke Testing		825 East 7 <sup>th</sup> St.	
Project Name :		Location / Address:	
100.26	4-25	TL A2	TL A2 2 and TL A2 5
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore			10/17/2017
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS														
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open cleanout										
No.	Description														
1	Open cleanout														

**Comments**

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

**SKETCH**



Repaired on WO#3515

# 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 LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open cleanout										
No.	Description														
1	Open cleanout														

**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.

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**SKETCH**



Repaired on WO#3858

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

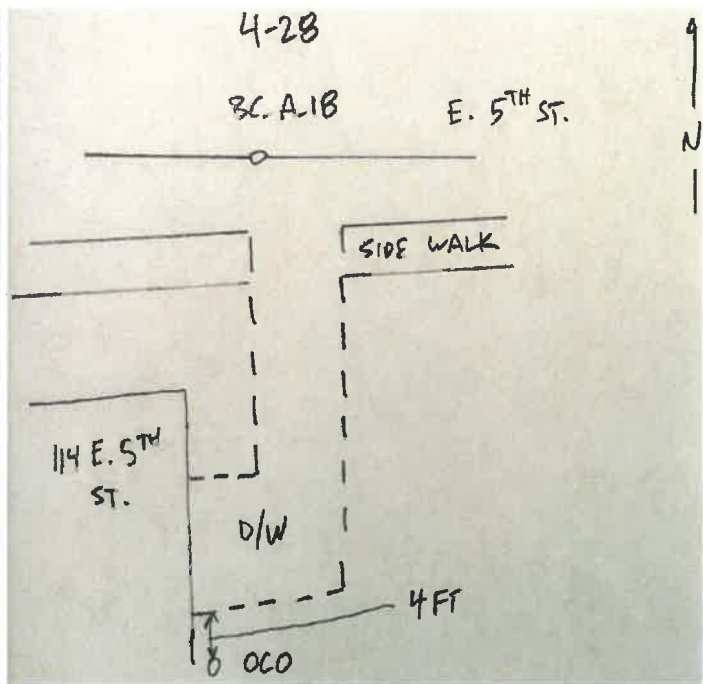
Molalla Smoke Testing		114 East 5th	
Project Name :		Location / Address:	
100.26	4-28	BC A	BC A 17 and BC A 18
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore			10/18/2017
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
LML = Leaking Main Line	1      Open cleanout
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LMH = Leaking Manhole	_____
OCO = Open Cleanout	_____
PHV = Plugged House Vent	_____
RD = Roof Drain	_____

**Comments**

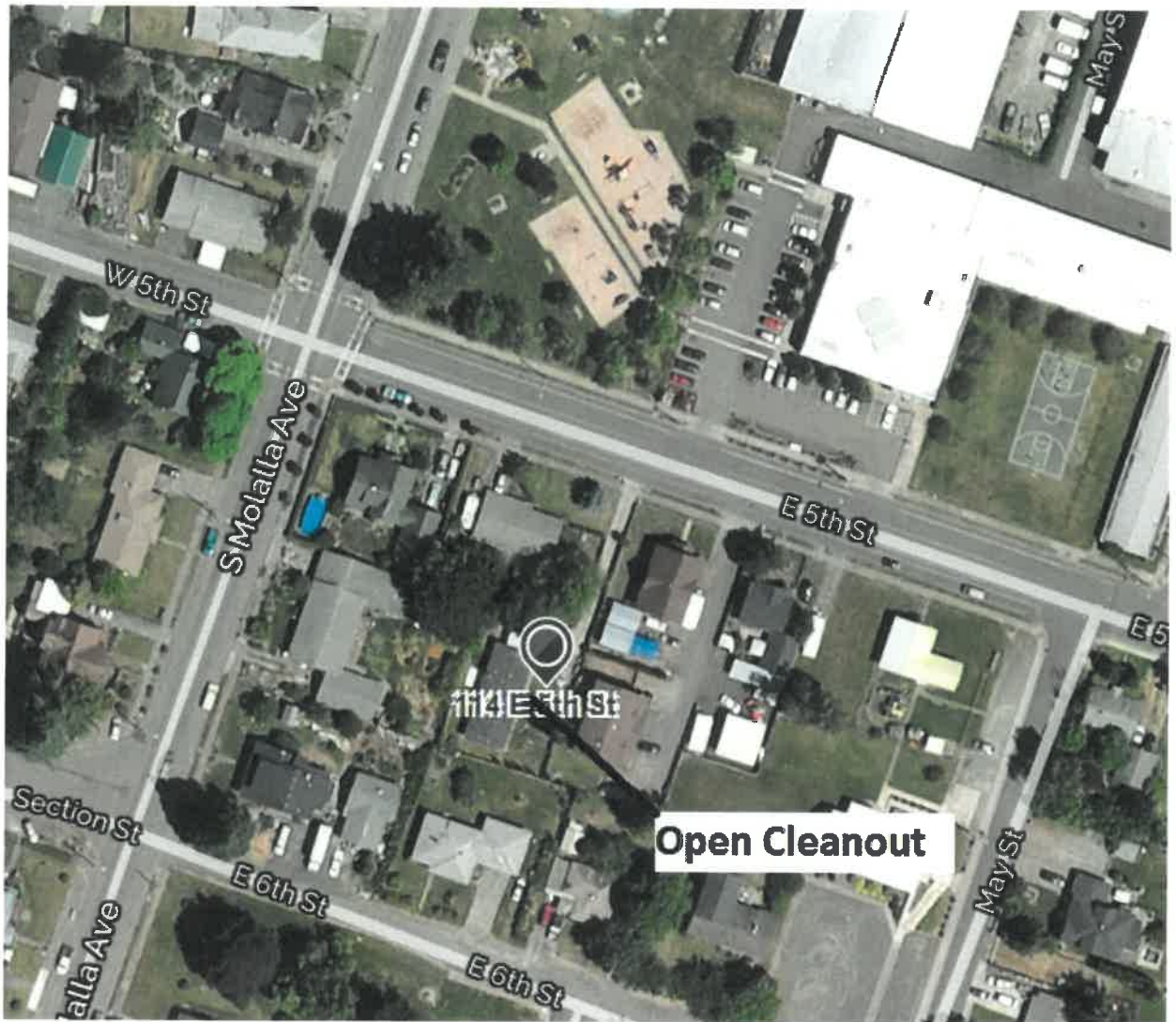
- Open cleanout located south of the concrete drive way, and just north of the electric meter.
- Also refer to aerial on following page.
- 
- 
- 

**SKETCH**



Repaired on WO#3858

AERIAL



Repaired on WO#3858



# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

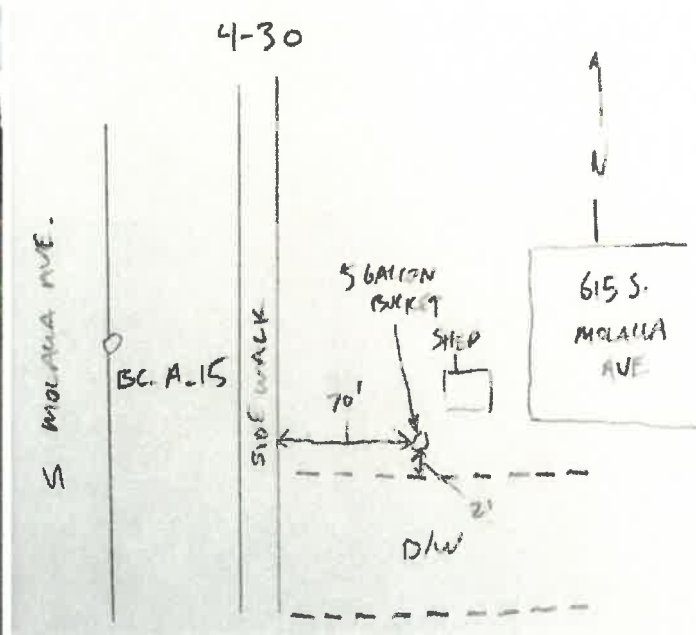
Molalla Smoke Testing		615 South Molalla	
Project Name :		Location / Address:	
100.26	4-30	BC A	BC_A 15 and BC_A1_1
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore		10/18/2017	
Tested By:		Date:	

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
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**



Repaired on WO#3858



Repaired on WO#3858

# 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:

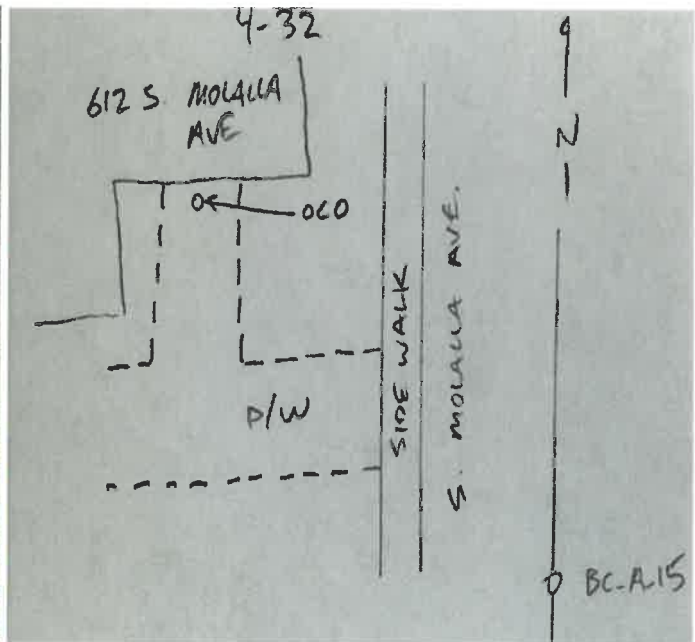
Date:

TESTING CODE	PHOTOGRAPHS
LSL = Leaking Service Lateral	<u>No.</u> <u>Description</u>
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**



Repaired on WO#3858

# SMOKE TEST REPORT

The Dyer Partnership, Engineers & Planners, Inc.

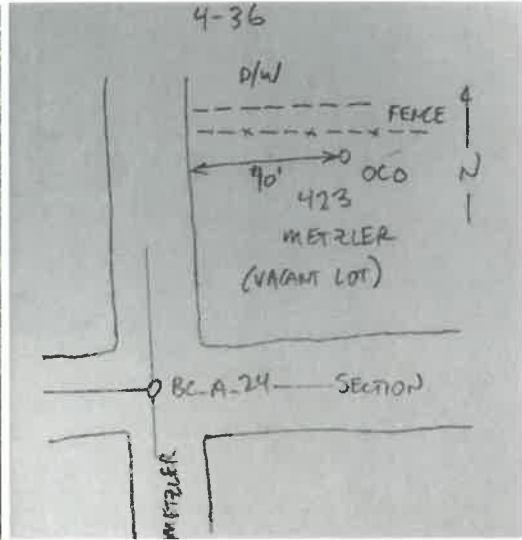
Molalla Smoke Testing		370 Metzler	
Project Name :		Location / Address:	
100.26	4-36	BC_A	BC_A 16 and BC_A 26
Project No.	Report No.	Basin:	MH No. / Main:
Tyler J. Molatore			10/18/2017
Tested By:			Date:

TESTING CODE	PHOTOGRAPHS												
LSL = Leaking Service Lateral LML = Leaking Main Line CB = Catch Basin LMH = Leaking Manhole OCO = Open Cleanout PHV = Plugged House Vent RD = Roof Drain	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%; text-align: center;">No.</th> <th style="text-align: center;">Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Open cleanout</td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> <tr> <td style="text-align: center;"> </td> <td> </td> </tr> </tbody> </table>	No.	Description	1	Open cleanout								
No.	Description												
1	Open cleanout												

**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.
- 
- 
- 

**SKETCH**



Repaired on WO#3858

**AERIAL**



**Repaired on WO#3858**

# APPENDIX C

## 2018 FLOW POKING REPORT

**City of Molalla  
Clackamas County, Oregon**

**I/I FLOW MAPPING**

OCTOBER 2018



**The Dyer Partnership  
Engineers & Planners, Inc.**

1330 Teakwood Avenue  
Coos Bay, Oregon 97420  
(541) 269-0732  
Fax (541) 269-2044  
[www.dyerpart.com](http://www.dyerpart.com)

759 West Central Avenue  
Sutherlin, Oregon 97479  
(541) 459-4619

1165 South Park Street  
Lebanon, Oregon 97355  
(541) 451-0089

Project No. 100.26

**City of Molalla**  
**Clackamas County, Oregon**

**I/I Flow Mapping**

October 2018

*Project No. 100.26*



EXPIRES: 12/31/2018



**The Dyer Partnership**  
**Engineers & Planners, Inc.**

1165 S. Park St.  
Lebanon, Oregon 97355  
(541) 405-4520  
[www.dyerpart.com](http://www.dyerpart.com)



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## **APPENDICES**

Appendix A	Key Map
Appendix B	I/I Flow Mapping (Figures A, B, C, and D)

SECTION 1:  
**EXECUTIVE SUMMARY**

---

# SECTION 1: EXECUTIVE SUMMARY

## **1.1 Executive Summary**

The following report summarizes a wastewater collection system study performed for the City of Molalla (City). Continuous strain upon the City's wastewater treatment system has prompted this study to alleviate specific problems within the collection system. Findings identified can assist the City in locating and isolating deficiencies that when repaired will result in a reduction of infiltration and inflow (I/I) problems occurring within the collection system.

The following report is the culmination of a detailed investigation of I/I in the City of Molalla's wastewater collection system. The project included the following investigative efforts that are summarized within this report:

- Preliminary investigation,
- Flow field survey (flow measurements in manholes),
- Flow mapping,
- Analysis and report.

There was a wide range of deficiencies found in the City of Molalla. These problems burden the City's wastewater treatment plant by increasing hydraulic loading. If gone unchecked, the wastewater collection system will continue to degrade, I/I will increase and thereby occupying valuable WWTP capacity, increasing treatment cost and cause increasing wear on wastewater process equipment.

SECTION 2:  
**INTRODUCTION**

---

## **SECTION 2: INTRODUCTION**

### **2.1 General**

Infiltration and inflow (I/I) is an ongoing problem affecting many Oregon communities, including the City of Molalla. 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. Wastewater collection systems continue to degrade over time, if gone unchecked I/I will increase. In addition, I/I can cause flows to exceed the capacity of the pipes, compromising the collection system and overloading a wastewater treatment plant.

### **2.2 Scope of Study**

This report is intended to assist the City of Molalla's ongoing maintenance of the collection system for the reduction of I/I.

#### **Field Survey**

Field surveys were performed to identify I/I by taking instantaneous flow measurements at selected manholes within the collection system. Each manhole at the flow measuring locations was inspected for defects leading to ground water infiltration and surface inflow.

#### **Flow Mapping**

The results from the flow mapping were utilized to determine potential areas with significant sources of I/I.

#### **Conclusions and Recommendations**

Conclusions and recommendations were developed that identify portions of the City of Molalla's sewer collection system that need improvement work or further investigation. Television inspection of these areas is anticipated to provide confirmation and exact locations of these additional sources of I/I.

SECTION 3:  
**EXISTING CONDITIONS**

---

## SECTION 3: EXISTING CONDITIONS

### 3.1 Field Investigation

Field investigations were performed on January 29, 2018 to determine the quantity and sources of extraneous water that enters Molalla's sewer collection system. Potential sources of infiltration include: manhole joint failure, manhole channel defects, cracks in pipes, pipe joint failures, leaking pipe penetrations, and root intrusions. Potential sources of inflow include storm drains, roof drains, and contributions from manhole lids or open clean-outs.

Flow measurements consisted of instantaneous water depth recording using "Flow Poke" equipment at incoming pipe segments within manholes as well as general observations. Flow measurements were conducted by two crews of two persons each, including one person from City staff. Crews moved from manhole to manhole in as short a time as possible between 10:30 P.M. and 5:00 A.M., when domestic and commercial sewage contributions were minimal.

Flow measurements were taken at selected manholes by using portable Flow Poke equipment. These meters allowed the flow mapping team to take instantaneous measurements without physically entering the manhole. The flow meter measures water depth across a V-notch weir and can be used for pipes up to 12-inches in diameter. Accuracy is plus or minus five percent for flows up to 640 gallons per minute (gpm). This accuracy is considerably higher than having to physically measure the water depth, as was done prior to the invention of the portable flow 'flow poke equipment.' When flows were encountered that were less than 5 gpm, no further investigation was performed in the upstream collection system.

By determining the relative increases in measured flow between manhole sections, problem areas can be identified and prioritized. The flow poking indicated a number of deficiencies that need to be addressed. The findings are summarized as follows:

#### Flow Poking Findings

- Excess flow of 24 gpm along Fenton Avenue from TL\_B\_19 to TL\_B\_22, and including TL\_B\_21 to TL\_B\_24 along Kimberly Court.
- Excess flow of 32 gpm along Patrol St. from TL\_B\_2 to TL\_B\_27.
- Manhole TL\_B\_2 has leakage.
- Excess flow of 80 gpm from TL\_5 to TLA\_48 along Grange Avenue, from TL\_A\_48 to TL\_A\_30 along E Main Street, and along Lola Avenue from TL\_A\_33 to TL\_A\_22.
- Manhole TL\_A\_30 has leakage.
- Excess flow of 14 gpm from TL\_A\_22 on East 2<sup>nd</sup> to TL\_A\_18 on Eckerd Avenue.
- Excess flow of 18 gpm from TL\_A\_18 to TL\_A\_16 along Eckerd Avenue.
- Excess flow of 14 gpm along S. Swiegle from BC\_A3\_17 to BC\_A3\_7.
- Excess flow of 10 gpm along Berkley Avenue from BC\_A3\_12 to clean-out located south of BC\_A3\_14 near East 5<sup>th</sup> St.
- Excess flow of 18 gpm from BC\_A3\_18 on East Main Street, to BC\_A3\_12 on Berkley Avenue.
- Excess flow of 38 gpm from TL\_A\_28 to TL\_A\_26 along East Main Street.
- Excess flow of 23 gpm beginning at the S. Molalla Pump Station, continuing to manhole BC\_A1\_2, and terminating at the clean-out located east of manhole BC\_A1\_3. Additional smoke testing and TVing is recommended. A portion of this sewer line extends into an abandoned subdivision that presents a higher risk of infiltration and inflow.

- Excess flow of 16 gpm beginning at manhole BC\_A3\_21 and continuing south on Metzler to BC\_A3\_2, terminating at clean-out at the intersection of Metzler and West 4<sup>th</sup> Street.
- Excess flow of 14 gpm beginning at BC\_A3\_20 along S. Molalla Avenue, and continuing to BC\_A3\_3, and terminating at a clean-out located in the City Park. Includes service laterals extending east on 2<sup>nd</sup> Street.
- Excess flow of 12 gpm beginning at TL\_A2\_6, continuing south on S. Cole Avenue until TL\_A2\_4, and then continuing east on East 7<sup>th</sup> Street until TL\_A2\_3.
- Excess flow of 11 gpm starting at TL\_A2\_3 and terminating at the clean-out east of manhole TL\_A2\_5.
- Manhole TL\_A2\_6 has leakage.
- Excess flow of 10 gpm beginning at TL\_B\_2 along North Cole Avenue, and terminating at the clean-out south of TL\_B\_31, including TL\_B\_29 along Garden Court until TL\_B\_4.
- Excess flow of 15 gpm beginning at TL\_B\_8 along Oak Street, and continuing to clean-out east of TL\_B\_12.
- Excess flow of 10 gpm beginning at TL\_B\_8 on East Heintz Street to TL\_B\_9, continuing to TL\_B\_10 on East Park Avenue.
- Manhole TL\_C\_6 has leakage.
- Manhole TL\_C\_4 has leakage.
- Excess flow of 10 gpm beginning at BC\_B\_1 along South Molalla Forest Road to BC\_B\_18. Includes 8" sewer line extending west to BC\_B\_10.
- Excess flow of 10 gpm beginning at BC\_C\_71 along Meadowlawn Place to BC\_C\_59.
- Manhole TL\_50 has leakage.
- Manhole TL\_28 has leakage.
- Manhole TL\_F\_22 has leakage.
- Manhole BC\_A\_47 has leakage.
- Manhole BC\_A\_39 has leakage.
- Excess flow of 10 gpm beginning at TL\_A1\_5, continuing to TL\_A1\_1 on East 8<sup>th</sup> Street, continuing east on East 8<sup>th</sup> Street until TL\_A1\_6, and then terminating at the clean-out at the end of Mathias Court. Additional inspections and TVing is required in subbasin TL\_A1 to determine deficiencies.
- Manhole BC\_A\_45 has leakage.
- Excess flow of 10 gpm beginning at TL\_C2\_11 along Explorer Avenue, continuing to TL\_C2\_6 along Escort Street, continuing to TL\_C2\_5 along Bronco Avenue, and continuing along Glory Ln to TL\_C2\_1. Includes TL\_C2\_15 along Probe Street terminating at TL\_C2\_16. Additional inspections and TVing is required in subbasin TL\_C2 to identify and isolate deficiencies.

Based on visual inspections of numerous manholes, excess flow was present on the Bear Creek main, from manhole TL\_40 to BC\_A\_45. Excess flow was also identified on the Toliver main, from manhole TL\_46 continuing to TL\_39 to TL\_20 along Toliver Road, from TL\_20 to TL\_19 along Kennel Avenue, and from TL\_19 to TL\_2 along East Heintz Street. These lines require TV viewing to identify deficiencies.

### **3.2 Flow Mapping**

Flow mapping results, using the City's existing collection system map, are provided in the Appendices. Appendix A is a Key Map indexing the locations of the flow maps provided in Appendix B. Appendix B includes Figures A, B, C, and D. Line segments have been color coded to illustrate the approximate I/I flow that was measured and recorded.



SECTION 4:

**CONCLUSIONS AND RECOMMENDATIONS**

## SECTION 4: CONCLUSIONS AND RECOMMENDATIONS

### **4.1 Summary**

Infiltration and inflow is a major problem with the City's collection system. Several areas with high infiltration and inflow were identified during field investigations. High infiltration rates will likely require subsequent investigations performed by the City (i.e. television inspection), and smoke testing of select areas to refine the scope of work related to each I/I repair project. Field investigations also revealed several manholes that were leaking. Manhole repairs can be performed without further investigation.

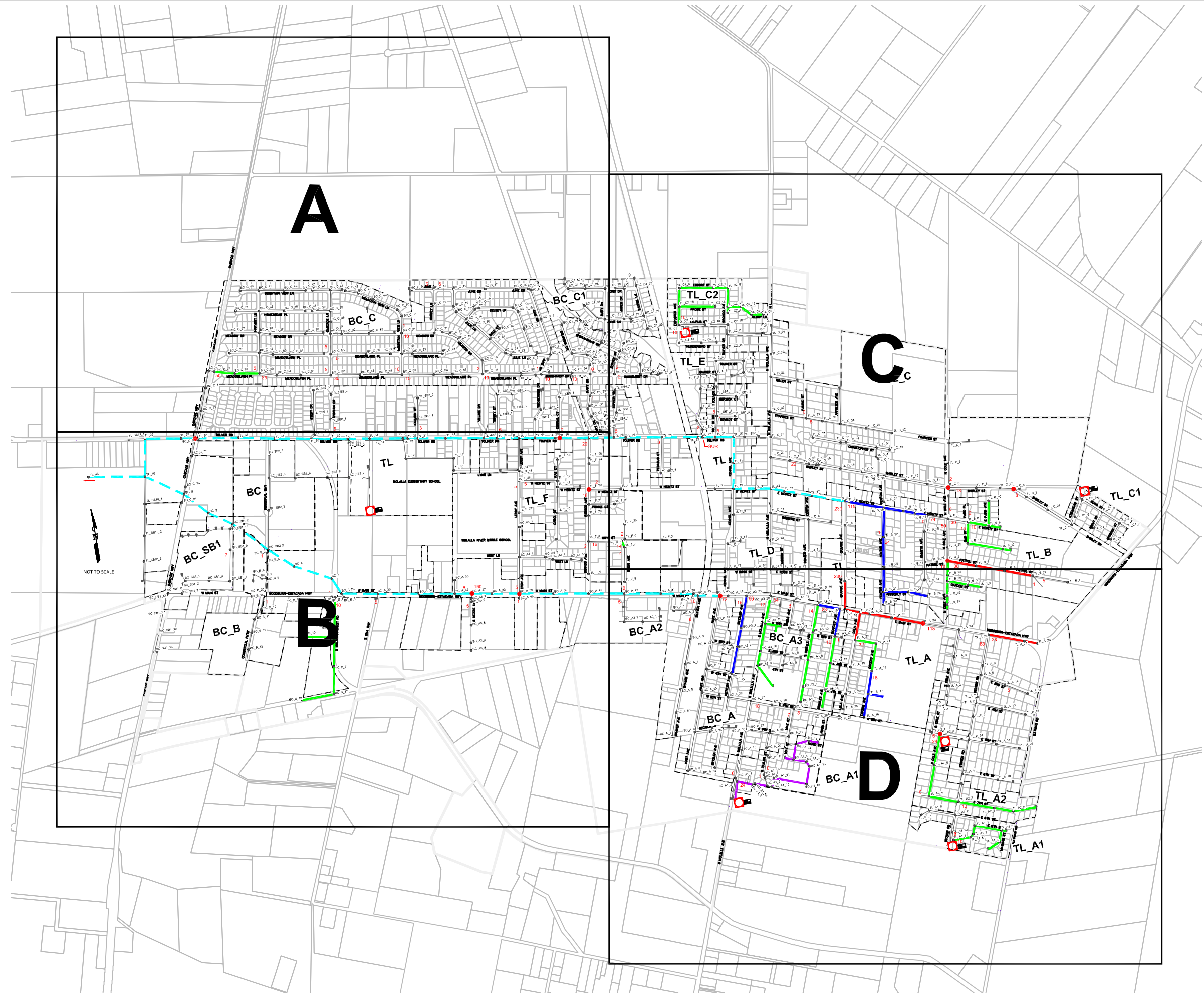
Cost estimates will be provided in the City's Wastewater Facility and Collection System Master Plan for high priority areas. Conservatively, cost estimates will be based on full main line and manhole replacement. However, prior to design, each area should be further investigated to determine the best approach to addressing each collection system deficiency and mitigating infiltration and inflow.

# **APPENDICES**

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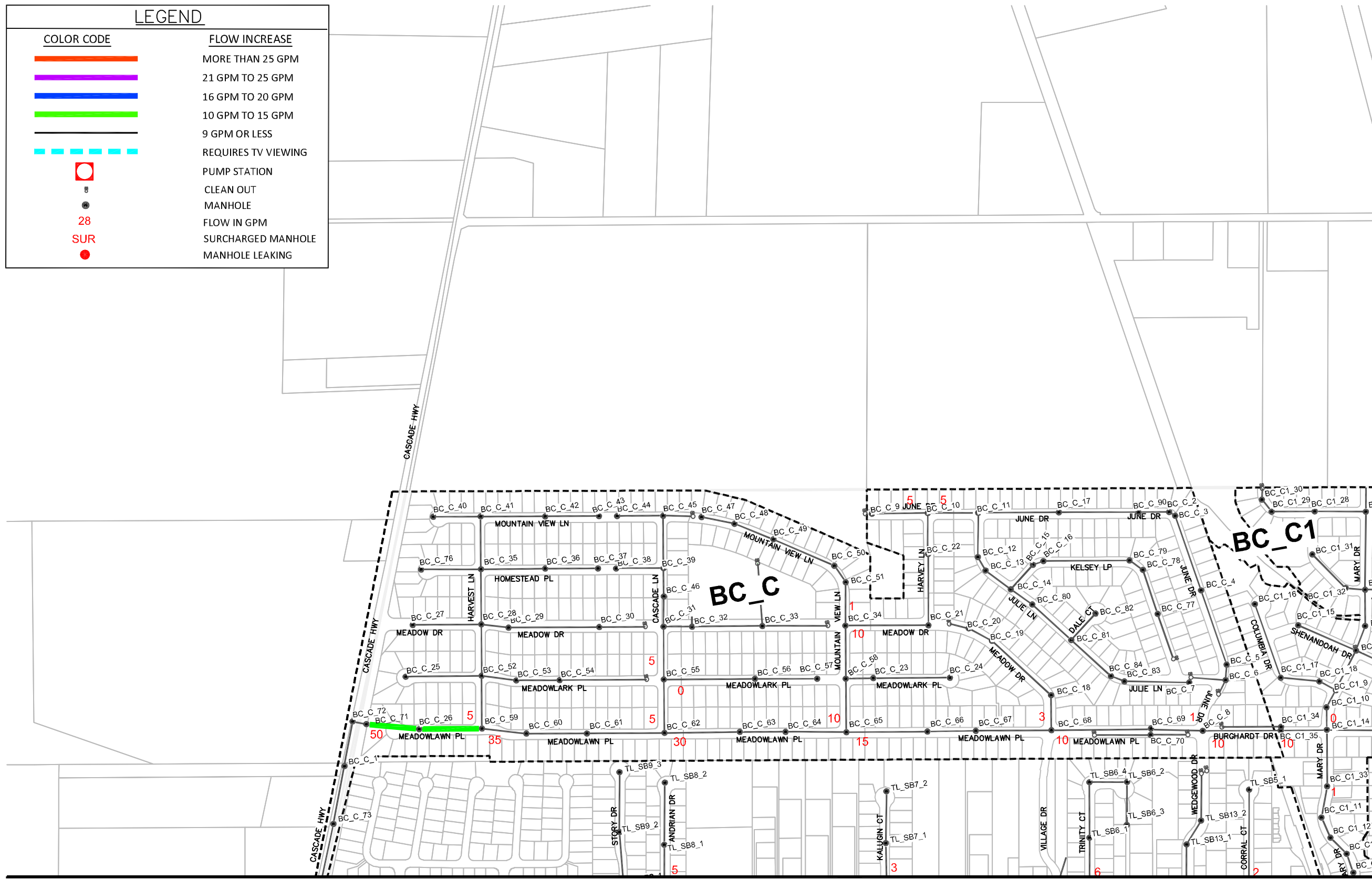
**APPENDIX A: KEY MAP**

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## **APPENDIX B: I/I Flow Mapping (Figures A, B, C, and D)**

LEGEND	
COLOR CODE	FLOW INCREASE
	MORE THAN 25 GPM
	21 GPM TO 25 GPM
	16 GPM TO 20 GPM
	10 GPM TO 15 GPM
	9 GPM OR LESS
	REQUIRES TV VIEWING
	PUMP STATION
	CLEAN OUT
	MANHOLE
	FLOW IN GPM
	SURCHARGED MANHOLE
	MANHOLE LEAKING

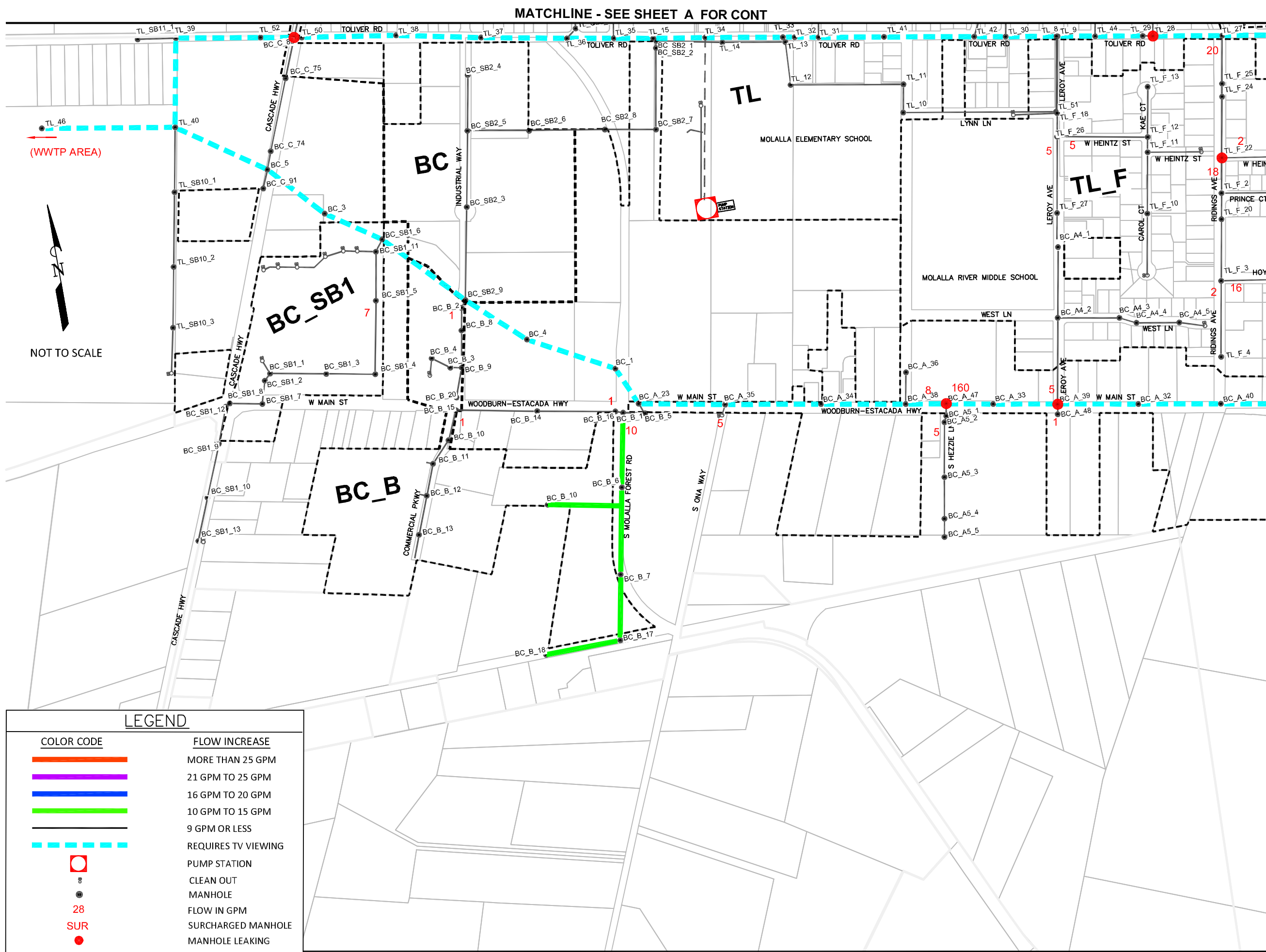


MATCHLINE - SEE SHEET B FOR CONT

MATCHLINE - SEE SHEET C FOR CONT

<p>THE DYER PARTNERSHIP ENGINEERS &amp; PLANNERS</p> <p>DATE: JAN., 2018</p> <p>PROJECT NO.: 100.26</p>	<p>CITY OF MOLALLA CLACKAMAS COUNTY, OREGON</p> <p>I&amp;I FLOW MAPPING</p>	<p>FIGURE NO. A</p>
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\\dyer2\H\dyer-part\Aprojects\100.00 Engineering, Misc\100.26 PDG - Molalla WW Fac & Coll Syst MP\dwg\&t MAPS\100.26 1-1 Flow Map 2.19 2013.dwg, 3/8/2018 3:40:34 PM PLOT DATE March 9, 2018



(WWTP AREA)



NOT TO SCALE

MATCHLINE - SEE SHEET A FOR CONT

MATCHLINE - SEE SHEET C FOR CONT

MATCHLINE - SEE SHEET D FOR CONT

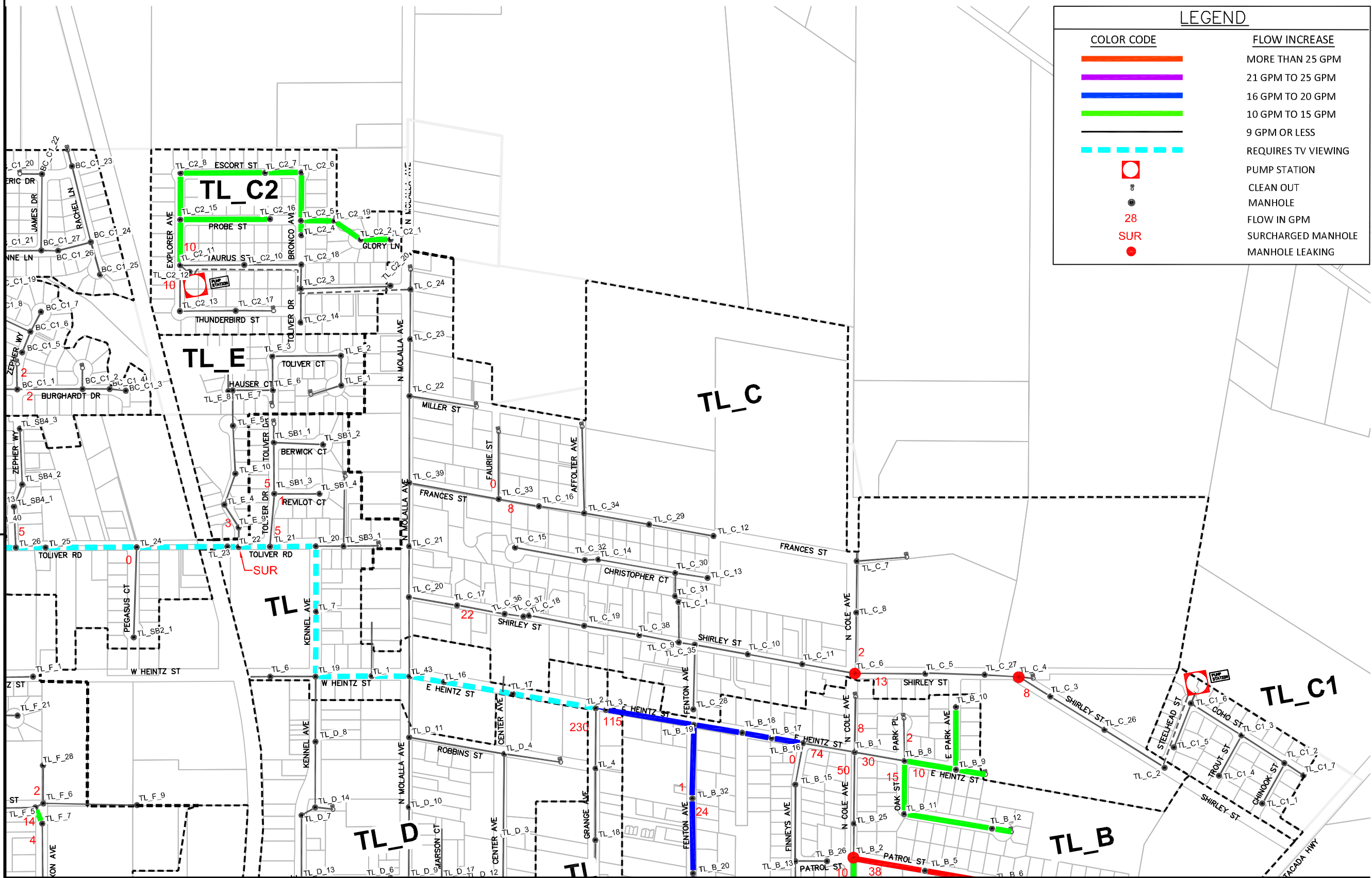
LEGEND	
	MORE THAN 25 GPM
	21 GPM TO 25 GPM
	16 GPM TO 20 GPM
	10 GPM TO 15 GPM
	9 GPM OR LESS
	REQUIRES TV VIEWING
	PUMP STATION
	CLEAN OUT
	MANHOLE
	FLOW IN GPM
	SURCHARGED MANHOLE
	MANHOLE LEAKING

FIGURE NO.	B
CITY OF MOLALLA CLACKAMAS COUNTY, OREGON	
I&I FLOW MAPPING	
THE DYER PARTNERSHIP ENGINEERS & PLANNERS	PROJECT NO.: 100.26
DATE: JAN., 2018	



MATCHLINE - SEE SHEET A FOR CONT

MATCHLINE - SEE SHEET B FOR CONT



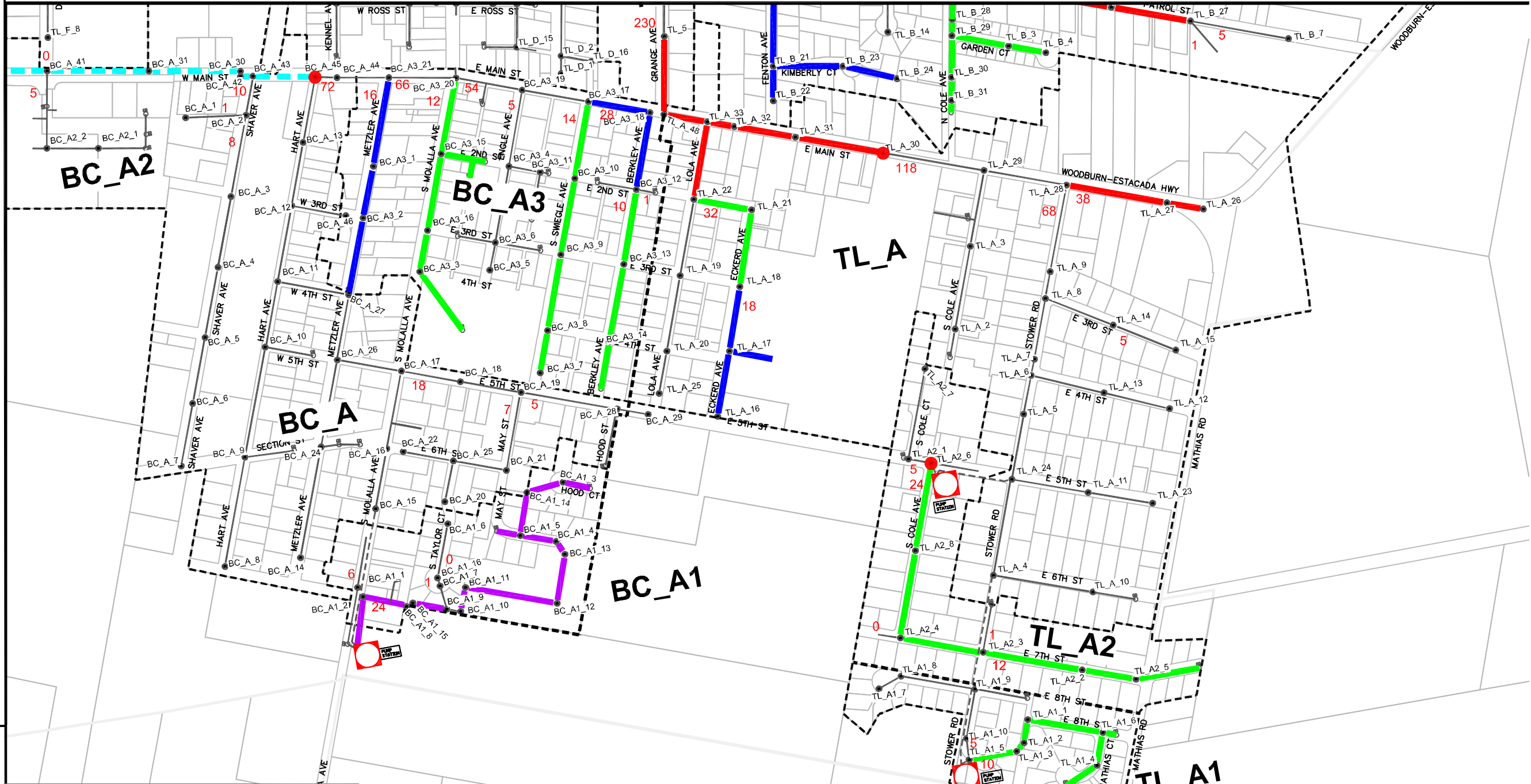
MATCHLINE - SEE SHEET D FOR CONT

LEGEND	
COLOR CODE	FLOW INCREASE
<span style="color: red;">—</span>	MORE THAN 25 GPM
<span style="color: purple;">—</span>	21 GPM TO 25 GPM
<span style="color: blue;">—</span>	16 GPM TO 20 GPM
<span style="color: green;">—</span>	10 GPM TO 15 GPM
<span style="color: black;">—</span>	9 GPM OR LESS
<span style="color: cyan;">- - -</span>	REQUIRES TV VIEWING
<span style="color: red;">□</span>	PUMP STATION
<span style="color: black;">●</span>	CLEAN OUT
<span style="color: black;">○</span>	MANHOLE
<span style="color: red;">28</span>	FLOW IN GPM
<span style="color: red;">SUR</span>	SURCHARGED MANHOLE
<span style="color: red;">●</span>	MANHOLE LEAKING

CITY OF MOLALLA CLACKAMAS COUNTY, OREGON I&I FLOW MAPPING	FIGURE NO. <b>C</b>
THE DYER PARTNERSHIP ENGINEERS & PLANNERS	PROJECT NO.: 100.26
DATE: JAN., 2018	

MATCHLINE - SEE SHEET B FOR CONT

MATCHLINE - SEE SHEET C FOR CONT



LEGEND

COLOR CODE	FLOW INCREASE
	MORE THAN 25 GPM
	21 GPM TO 25 GPM
	16 GPM TO 20 GPM
	10 GPM TO 15 GPM
	9 GPM OR LESS
	REQUIRES TV VIEWING
	PUMP STATION
	CLEAN OUT
	MANHOLE
	FLOW IN GPM
	SURCHARGED MANHOLE
	MANHOLE LEAKING