



GAIL FARBER, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

*"To Enrich Lives Through Effective and Caring Service"*

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P.O. BOX 1460  
ALHAMBRA, CALIFORNIA 91802-1460

March 6, 2013

IN REPLY PLEASE  
REFER TO FILE: **SM-1**

Mr. David Liu, Director of Public Works  
City of Diamond Bar  
21810 Copley Drive  
Diamond Bar, California 91765

Dear Mr. Liu:

### **CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT NO. Y0TV0910C**

This letter is to inform you that as part of our Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television inspection of 114,095 feet or 13.8 percent of the City of Diamond Bar's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP Version 6.0.1) rating methodology. Included in the report are the following:

- Condition Assessment Report
- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Report Priority List and Quick Maintenance Rating Map (Enclosure 2)
- High Water Levels List and Map (Enclosure 2)
- Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. David Liu  
March 6, 2013  
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance schedule for continued monitoring. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of our ongoing Accumulative Capital Outlay Program.

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz, Sewer Maintenance Division, at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or [rswartz@dpw.lacounty.gov](mailto:rswartz@dpw.lacounty.gov).

Very truly yours,

GAIL FARBER  
Director of Public Works



RAJESH PATEL  
Assistant Deputy Director  
Sewer Maintenance Division

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Enc.

bc: Programs Development (Manning)  
RP, MM, RS, FV, File (Y0TV0910C), SPINDLE

**CONDITION ASSESSMENT REPORT  
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

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PROJECT NAME:	Y0TV0910C	PROJECT MGR:	Hanna Kebede
PROJECT DATE:	01/27/2011	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(s):	4	MAP PAGE(S):	2347, 2348 & 2349
Report By:	Hanna Kebede	Report Date:	01/09/2013

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**INTRODUCTION**

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 114,095 feet or 13.8 percent of the City of Diamond Bar's sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP Version 6.0.1) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

**PROJECT AREA AND DESCRIPTION**

Project Y0TV0910C included sewer lines located in the Unincorporated County of Los Angeles area and in the Cities of Bell Gardens, Industry, Diamond Bar, La Canada Flintridge, and Walnut. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

**DEFECT GRADE DESCRIPTION**

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects, while a grade of 5 indicates that a pipe segment may require immediate attention. A detailed breakdown of the five possible defect grades is as follows:

<b>Grade</b>	<b>Defect Grade Description</b>
<b>1:</b>	<b>MINOR</b>
<b>2:</b>	<b>MINOR TO MODERATE</b>
<b>3:</b>	<b>MODERATE</b>
<b>4:</b>	<b>SIGNIFICANT</b>
<b>5:</b>	<b>MOST SIGNIFICANT</b>

## **MAINTENANCE REPORT**

Our inspection revealed that approximately 76.7 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 23.3 percent of the inspected pipe segments within the City of Diamond Bar area had a PACP maintenance grade of 3, 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

In addition, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

### **QUICK MAINTENANCE RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. SEGMENTS</b>
1: Minor	65,525	57.4	311
2: Minor to Moderate	21,968	19.3	97
3: Moderate	16,221	14.2	67
4: Significant	9,363	8.2	34
5: Most Significant	1,018	0.9	4
TOTAL	114,095	100.0	513

### ***Lateral Notices***

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines; it is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. A letter will be sent to the lateral owner notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

### ***High Water Levels***

Our inspection revealed that approximately 98.2 percent of the system televised has adequate capacity. However, the remaining 1.8 percent of the inspected segments included deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which have indicated camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50% of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50% or greater due to heavy flows in adjoining pipes, a

temporary stoppage due to debris in the sewer lines, or a sag in the line. Therefore, additional review of all pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50% capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

### ***Infiltration***

Our inspection revealed that approximately 1.5 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration has been found are listed on the Infiltration table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project.

A map showing the sewer lines with high water levels and infiltration is provided in Enclosure 2.

### **STRUCTURAL REPORT**

Our inspection revealed that approximately 97.3 percent of the inspected pipe segments within the City of Diamond Bar were free of severe structural defects. However, the remaining 2.7 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 13 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 13 segments are included in Enclosure 4.

### **QUICK STRUCTURAL RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. SEGMENTS</b>
1: Minor	98,185	86.1	444
2: Minor to Moderate	8,579	7.5	38
3: Moderate	4,259	3.7	18
4: Significant	1,414	1.2	6
5: Most Significant	1,658	1.5	7
TOTAL	114,095	100.0	513

### **CONDITION ASSESSMENT PROJECTS**

The Sewer Condition Assessment Program has performed the following closed-circuit television (CCTV) inspections within the City of Diamond Bar.

<b>FISCAL YEAR</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)</b>	<b>PERCENTAGE OF SYSTEM</b>	<b>STATUS</b>
2009-2010	Y0TV0910C	114,095	13.8	COMPLETED
2010-2011	Y0TV1011A	102,123	12.4	IN PROGRESS
2013-2014	Y0TV1314C	608,991	73.8	FUTURE
TOTAL		825,208	100.0	

ENCLOSURE 1:

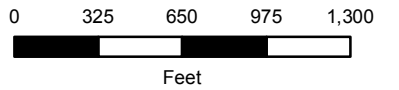
Project Overview Map

# OVERVIEW

## CCTV PROJECT

# Y0TV0910C

### Supervisorial District 4 City of Diamond Bar



### Legend

#### SMD Sanitary Sewers

— SMD Sanitary Sewers

#### SMD Manholes

○ Other

#### Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

■ SMD Pump Stations

■ SMD Treatment Plants

#### Maintained by Others:

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

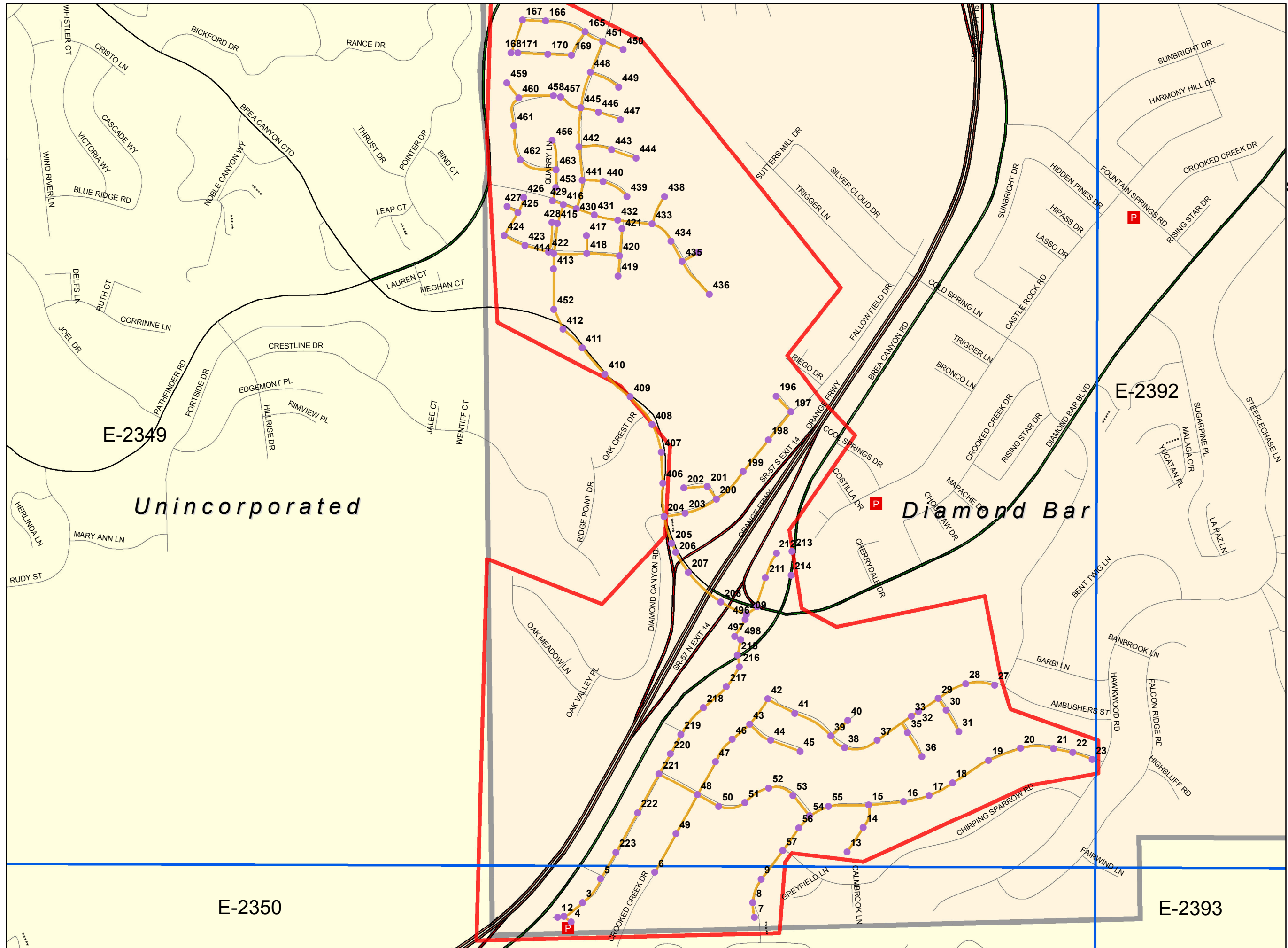
● Non SMD Maintained MH

□ SMD Operations Maps

□ Y0TV0910C

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August 2012



E-2349

Unincorporated

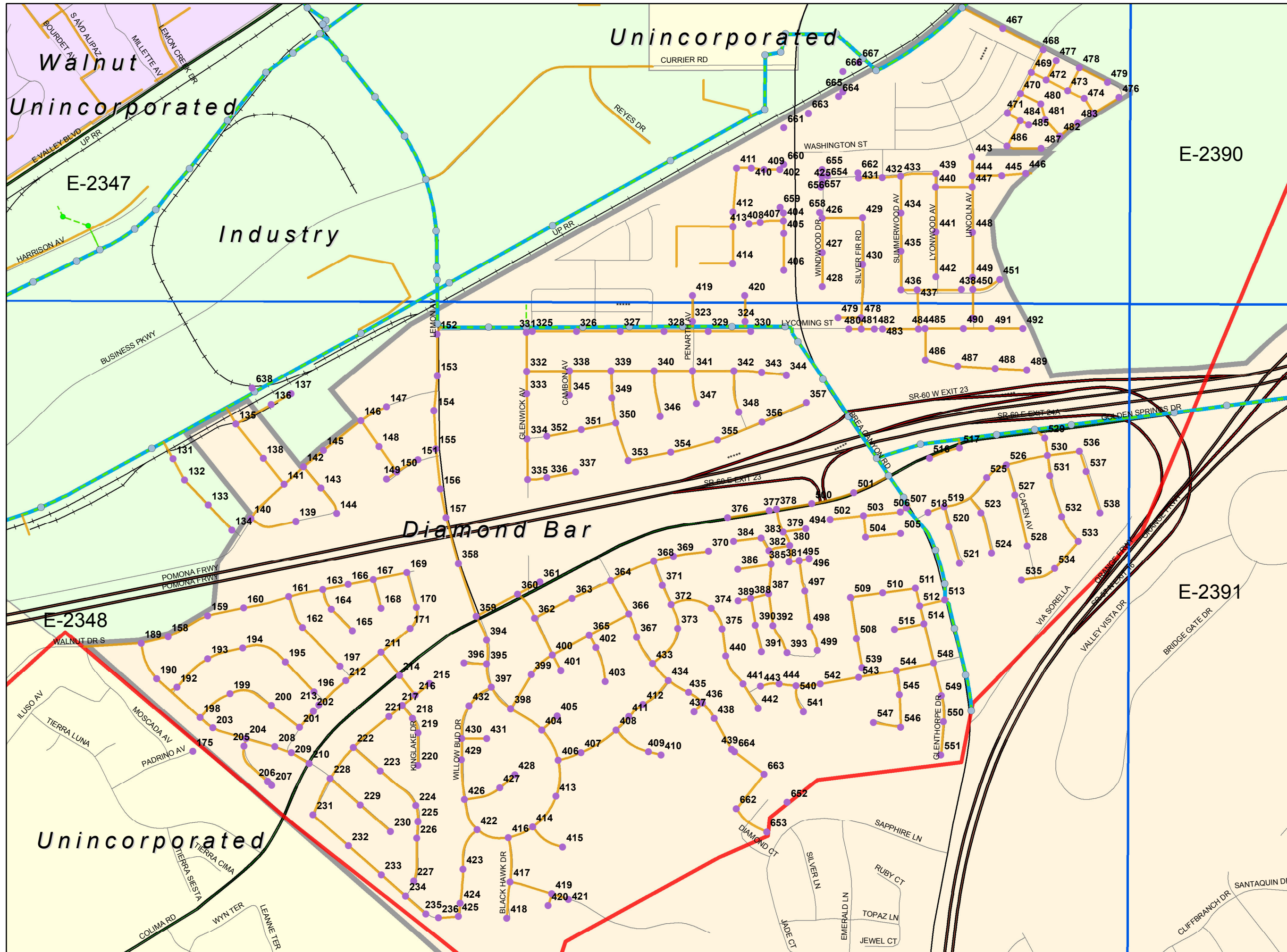
Diamond Bar

E-2392

E-2350

E-2393



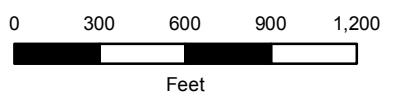


# OVERVIEW

## CCTV PROJECT

# Y0TV0910C

**Supervisory District 4  
City of Diamond Bar**



### Legend

#### SMD Sanitary Sewers

— SMD Sanitary Sewers

#### SMD Manholes

● Other

#### Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

Ⓟ SMD Pump Stations

Ⓜ SMD Treatment Plants

#### Maintained by Others:

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

▭ Y0TV0910C

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August 2012

## ENCLOSURE 2:

- Quick Maintenance Rating Report  
Priority List
- Quick Maintenance Rating Map
- High Water Levels
- Infiltration
- High Water Levels and Infiltration Map
- Sample Lateral Notice Letter

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV0910C)**  
**as of 01/27/2011**

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken	Completed Date
1	5141	2348-0397	2348-0432	WILLOW BUD DR	Deposits Attached Encrustation	Hydrojet	12/15/2011
2	5137	2348-0399	2348-0398	HOLLOW PINE DR	Deposits Attached Encrustation	Hydrojet	12/15/2011
3	5131	2348-0404	2348-0398	LEMON AV	Deposits Attached Encrustation	Hydrojet	12/15/2011
4	5100	2347-0450	2348-0493	LINCOLN AV	Deposits Attached Encrustation	Hydrojet	12/23/2011
5	4B32	2348-0373	2348-0372	BLENARM DR	Roots (medium): 56'-120'; roots (lateral): 53'	Hydrojet	06/30/2010
6	4635	2349-0496	2349-0497	EASEMENT	Camera underwater : 5'-30'	Hydrojet	12/08/2011
7	4432	2348-0189	2348-0024	WALNUT DR	Deposits (attached encrustation): 2'- 45'; sag (70 %): 282'-293'	Hydrojet	12/19/2011
8	4334	2348-0195	2348-0194	DAMIETTA DR	Root ball(lateral): 58', 112' & 160'	Lateral notice will be sent to property owner.	n/a
9	4331	2350-0006	2349-0049	CROOKED CREEK DR	Root ball (lateral): 59', 254', 267' & 316'	Lateral notice will be sent to property owner.	n/a
10	4236	2348-0527	2348-0526	CAPEN AV	Roots (medium) at joints; root ball (lateral): 43' & 121'	Hydrojet	12/12/2011
11	4232	2347-0441	2347-0440	LYONWOOD AV	Camera underwater: 49'; roots (medium): 61' & 82'; root ball (lateral): 71'	Hydrojet	12/23/2011
12	4231	2348-0209	2348-0208	CALBOURNE DR	Deposits (attached): 0'-4'; root ball(lateral):5' & 101'	Hydrojet	12/19/2011
13	4211	2349-0413	2349-0452	EASEMENT	Roots (medium): 353'	Hydrojet	12/08/2011
14	4135	2348-0357	2348-0356	MOONLAKE ST	Root ball (lateral):7', 18', 25', 69', 98' & 131'	Lateral notice will be sent to property owner.	n/a
15	4135	2349-0211	2349-0210	EASEMENT	Roots: 21' & 147'	Hydrojet	12/08/2011
16	4134	2348-0212	2348-0211	CALPET DR	Root ball (lateral): 6', 44', 108' & 237'	Lateral notice will be sent to property owner.	n/a
17	4132	2348-0327	2348-0326	LYCOMING AV	Roots: 108'	Hydrojet	12/21/2011
18	4131	2348-0224	2348-0223	HONEYHILL DR	Infiltration (runner) :185'	No action needed.	n/a
19	4131	2348-0484	2347-0437	EASEMENT	Roots: 194'	Hydrojet	12/15/2011
20	4131	2348-0528	2348-0527	CAPEN AV	Roots: 120'	Hydrojet	12/12/2011
21	4131	2348-0171	2348-0170	CALPET DR	Root ball (lateral): 87' & 116'	Lateral notice will be sent to property owner.	n/a
22	4131	2349-0047	2349-0048	CROOKED CREEK DR	Roots: 173'; roots ball (lateral) : 182'	Hydrojet	12/08/2011
23	412M	2348-0206	2348-0205	AHTENA DR	Deposits (attached encrustation)/infiltration (runner) : 227'	Hydrojet	12/19/2011
24	412G	2348-0208	2348-0204	CALBOURNE DR	Deposits (attached encrustation)/ root ball (lateral) : 51'	Hydrojet	12/19/2011
25	412A	2348-0158	2348-0189	WALNUT DR	Deposit (attached encrustation)/infiltration (runner) : 327'	Hydrojet	12/22/2011
26	4124	2347-0467	2347-TRNK	ALLEY	Deposits (attached encrustation): 325'-342'	Hydrojet	12/23/2011
27	4123	2348-0230	2348-0229	CALBOURNE DR	Infiltration (runner): 322'	No action needed.	n/a
28	4123	2348-0194	2348-0193	DAMIETTA DR	Root ball (lateral): 279'	Lateral notice will be sent to property owner.	n/a
29	4122	2347-0433	2347-0432	RAINWOOD DR	Sag (65 %)/ camera underwater: 54' - 81'	Hydrojet	12/23/2011
30	4121	2347-0426	2347-0426A	WINDWOOD DR	Alignment down (45 %): 22'	No action needed.	n/a
31	4121	2348-0419	2348-0417	LARKSTONE DR	Alignment down (30 %): 300'	No action needed.	n/a
32	4121	2348-0663	2348-0664	EASEMENT	Alignment down (30 %): 107'	No action needed.	n/a
33	4118	2348-0326	2348-0325	LYCOMING AV	Root ball (lateral): 281'	Lateral notice will be sent to property owner.	n/a
34	4113	2347-0428	2347-0427	WINDWOOD DR	Root ball (lateral): 188'	Lateral notice will be sent to property owner.	n/a
35	4113	2349-0039	2349-0041	AMBUSHERS ST	Root ball (lateral): 231'	Lateral notice will be sent to property owner.	n/a
36	4100	2349-0422	2349-0414	TIMBERLINE LN	Alignment down (25 %): 8'	No action needed.	n/a
37	4100	2347-0443	2347-0444	LINCOLN AV	Root ball (lateral): 28' (capped)	No action needed.	n/a
38	4100	2348-0417	2348-0419	LARKSTONE DR	Alignment up (30%): 25'	No action needed.	n/a

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV0910C)**  
as of 01/27/2011

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken	Completed Date
39	3H2U	2348-0223	2348-0222	HONEYHILL DR	Deposit (attached encrustation) : 211'-353'	Hydrojet	12/19/2011
40	3800	2349-0048	2349-0221	GOLD RUN DR	Sag (35% - 40%)	Hydrojet	12/08/2011
41	3824	2349-0414	2349-0413	EASEMENT	Water level (40%-45%)/sag	Hydrojet	12/08/2011
42	3800	2348-0394	2348-0359	LEMON AV	Water level (45%)/sag: 167'-198'	Hydrojet	12/21/2011
43	3700	2349-0446	2349-0445	CREST LN	Water level (35%)/sag	Hydrojet	12/21/2011
44	3600	2348-0236	2348-0235	FAIRLANCE DR	Water level (45%)/sag: 15'- 26'	Hydrojet	12/22/2011
45	352Q	2348-0229	2348-0228	CALBOURNE DR	Deposits (attached encrustation)	Hydrojet	12/23/2011
46	3526	2348-0355	2348-0354	MOONLAKE ST	Roots (medium) at lateral: 5', 33', 133', 161' & 266'	Lateral notice will be sent to property owner.	n/a
47	3511	2347-0407	2347-0404	EASEMENT	Water level (35%)/sag	Hydrojet	12/21/2011
48	3421	2349-0168	2349-0167	RIM LN	Water level (35%)/sag	Hydrojet	12/21/2011
49	3411	2349-0418	2349-0414	TIMBERLINE LN	Water level (35%)/sag: 268' -274'	Hydrojet	12/21/2011
50	3411	2348-0328	2348-0327	LYCOMING AV	Roots (medium): 5'-24'	Hydrojet	12/21/2011
51	3400	2347-0404	2347-0405	EASEMENT	Water level (35%)/sag: 0'-16'	Hydrojet	12/21/2011
52	332G	2348-0225	2348-0226	HONEYHILL DR	Deposits (attached encrustation)	Hydrojet	12/21/2011
53	3321	2347-0412	2347-0411	EASEMENT	Water level (35%)/sag: 152'-164'	Hydrojet	12/21/2011
54	3316	2349-0049	2349-0048	CROOKED CREEK DR	Roots (medium) at lateral : 99', 163' & 234'	Lateral notice will be sent to property owner.	n/a
55	322C	2348-0535	2348-0534	DAVAN ST	Roots (medium): 98', 113' & 128'	Hydrojet	12/12/2011
56	3227	2348-0398	2348-0397	LEMON AV	Deposits (attached encrustation)	Hydrojet	12/15/2011
57	3221	2348-0541	2348-0540	GONA CT	Obstacle (pipe material); roots (medium): 56'	Hydrojet	12/08/2011
58	3221	2348-0498	2348-0497	CROFTER DR	Deposits (attached encrustation): 207'	Hydrojet	12/06/2011
59	3221	2348-0192	2348-0191	DAMIETTA DR	Water level (50%)/sag: 51'- 61'	Hydrojet	12/19/2011
60	321A	2348-0532	2348-0531	ADEL AV	Roots (medium) lateral: 96'; roots (medium): 137'	Hydrojet	12/12/2011
61	321A	2348-0024	2348-0023	WALNUT DR	Water Level (35%)/sag: 29' -38'	No action needed.	n/a
62	3217	2348-0339	2348-0338	NORTHAMPTON ST	Roots (medium) at lateral: 181' & 251'	Lateral notice will be sent to property owner.	n/a
63	3212	2348-0478	2347-0430	SILVER FIR DR	Roots (medium) at lateral: 182'	Lateral notice will be sent to property owner.	n/a
64	3211	2348-0520	2348-0519	BAIN AV	Roots (medium): 20' & 30'	Hydrojet	12/12/2011
65	312N	2348-0228	2348-0222	GERNSIDE DR	Deposits (attached encrustation)	Hydrojet	12/23/2011
66	312M	2348-0198	2348-0191	CALBOURNE DR	Deposits (attached encrustation)/infiltration dripper: 225'	Hydrojet	12/19/2011
67	312J	2348-0356	2348-0355	MOONLAKE ST	Roots (medium) at lateral: 63'	Lateral notice will be sent to property owner.	n/a
68	312F	2348-0204	2348-0203	CALBOURNE DR	Roots (medium) at lateral: 217'	Lateral notice will be sent to property owner.	n/a
69	312A	2348-0231	2348-0228	GERNSIDE DR	Deposits (attached encrustation): 240'-305'	Hydrojet	12/23/2011
70	312A	2348-0205	2348-0204	AHTENA DR	Deposits (attached encrustation)/infiltration dripper: 63'	Hydrojet	12/19/2011
71	312A	2348-0203	2348-0198	CALBOURNE DR	Deposits (attached encrustation)	Hydrojet	12/19/2011
72	3122	2348-0216	2348-0215	GERNSIDE DR	Deposits (attached encrustation)	Hydrojet	12/19/2011
73	3122	2349-0418	2349-0417	RAVENWOOD CT	Deposits (attached encrustation)	Hydrojet	12/09/2011
74	3122	2348-0363	2348-0364	CLIMBER DR	Deposits (attached encrustation)	Hydrojet	12/22/2011
75	3122	2348-0422	2348-0426	WILLOW BUD DR	Deposits (attached encrustation)	Hydrojet	12/15/2011
76	3121	2347-0410	2347-0409	EASEMENT	Water level (35%)/sag: 87' -93'	No action needed.	n/a
77	3121	2349-0032	2349-0029	AMBUSHERS ST	Deposits (attached encrustation): 208'	Hydrojet	12/09/2011

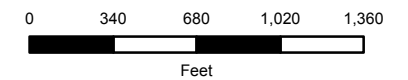
**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV0910C)**  
**as of 01/27/2011**

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken	Completed Date
78	3121	2348-0533	2348-0532	ADEL AV	Roots (medium) lateral : 89'	Lateral notice will be sent to property owner.	n/a
79	3121	2348-0441	2348-0440	RANGETON DR	Roots (medium) lateral : 107'	Lateral notice will be sent to property owner.	n/a
80	3121	2348-0439	2348-0438	RAPIDVIEW DR	Roots (medium): 268'	Hydrojet	12/15/2011
81	3121	2349-0021	2349-0020	RUNNING BRANCH RD	Roots (medium): 283'	Hydrojet	12/08/2011
82	3121	2349-0013	2349-0014	COTTER RIM LN	Roots (medium): 280'	Hydrojet	12/08/2011
83	3121	2349-0042	2349-0043	CROOKED CREEK DR	Roots (medium) at lateral: 160'	Lateral notice will be sent to property owner.	n/a
84	311A	2348-0342	2348-0341	NORTHAMPTON ST	Roots (medium) at lateral: 177'	Lateral notice will be sent to property owner.	n/a
85	3115	2348-0340	2348-0339	NORTHAMPTON ST	Roots (medium) at lateral: 296'	Lateral notice will be sent to property owner.	n/a
86	3113	2347-0429	2347-0426	SILVER FIR RD	Roots (medium) at lateral: 105'	Lateral notice will be sent to property owner.	n/a
87	3113	2348-0201	2348-0200	ACFOLD DR	Roots (medium) at lateral: 156'	Lateral notice will be sent to property owner.	n/a
88	3112	2348-0521	2348-0520	BAIN AV	Roots (medium) at lateral: 262'	Lateral notice will be sent to property owner.	n/a
89	3112	2348-0430	2348-0432	WILLOW BUD DR	Deposits (attached encrustation): 232'	Hydrojet	12/15/2011
90	3112	2348-0161	2348-0160	FLINTGATE DR	Roots (medium) at lateral: 229'	Lateral notice will be sent to property owner.	n/a
91	3112	2349-0057	2349-0056	RUNNING BRANCH RD	Roots (medium) at lateral: 208'	Lateral notice will be sent to property owner.	n/a
92	3111	2347-0438	2347-0437	SUNWOOD DR	Roots (medium): 290'	Hydrojet	12/23/2011
93	3111	2348-0168	2348-0167	ARKLEY DR	Roots (medium): 5'	Hydrojet	12/23/2011
94	3111	2348-0202	2348-0201	CALPET DR	Roots (medium): 49'	Hydrojet	12/22/2011
95	3111	2348-0376	2348-0377	GOLDEN SPRINGS DR	Deposits (attached grease) at lateral : 204	Lateral notice will be sent to property owner.	n/a
96	3100	2349-0463	2349-0453	QUARRY LN	Deposits (attached encrustation): 161'	Hydrojet	12/09/2011
97	3100	2349-0028	2349-0029	AMBUSHERS ST	Deposits (attached encrustation): 250'	Hydrojet	12/09/2011
98	3100	2347-0469	2347-0468	WASHINGTON ST	Obstacle: 19'	Hydrojet	12/23/2011
99	3100	2348-0398	2348-0399	HOLLOW PINE DR	Deposits (attached encrustation): 0'	Hydrojet	12/15/2011
100	3100	2348-0508	2348-0509	GLENCLAIRE DR	Deposits (attached encrustation): 248'	Hydrojet	12/12/2011
101	3100	2349-0498	2349-0215	EASEMENT	Roots (medium): 11'	Hydrojet	12/08/2011
102	3100	2349-0218	2349-0219	CASTLE ROCK RD	Roots (medium): 50'	Hydrojet	12/08/2011
103	3100	2349-0223	2350-0005	CASTLE ROCK RD	Roots (medium) joint : 187'	Hydrojet	12/08/2011
104	3100	2349-0208	2349-0209	DIAMOND BAR BV	Obstacle: 310'	Hydrojet	12/08/2011
105	3100	2348-0225	2348-0224	HONEYHILL DR	Deposits (encrustation)/ infiltration dripper: 4'	Hydrojet	12/23/2011

## CCTV PROJECT Y0TV0910C

Supervisory District 4  
City of Diamond Bar

### QUICK MAINTENANCE RATING (QMR)



#### Legend

##### SMD Sanitary Sewers

- QMR**
- 1: MINOR
  - 2: MINOR TO MODERATE
  - 3: MODERATE
  - 4: SIGNIFICANT
  - 5: MOST SIGNIFICANT

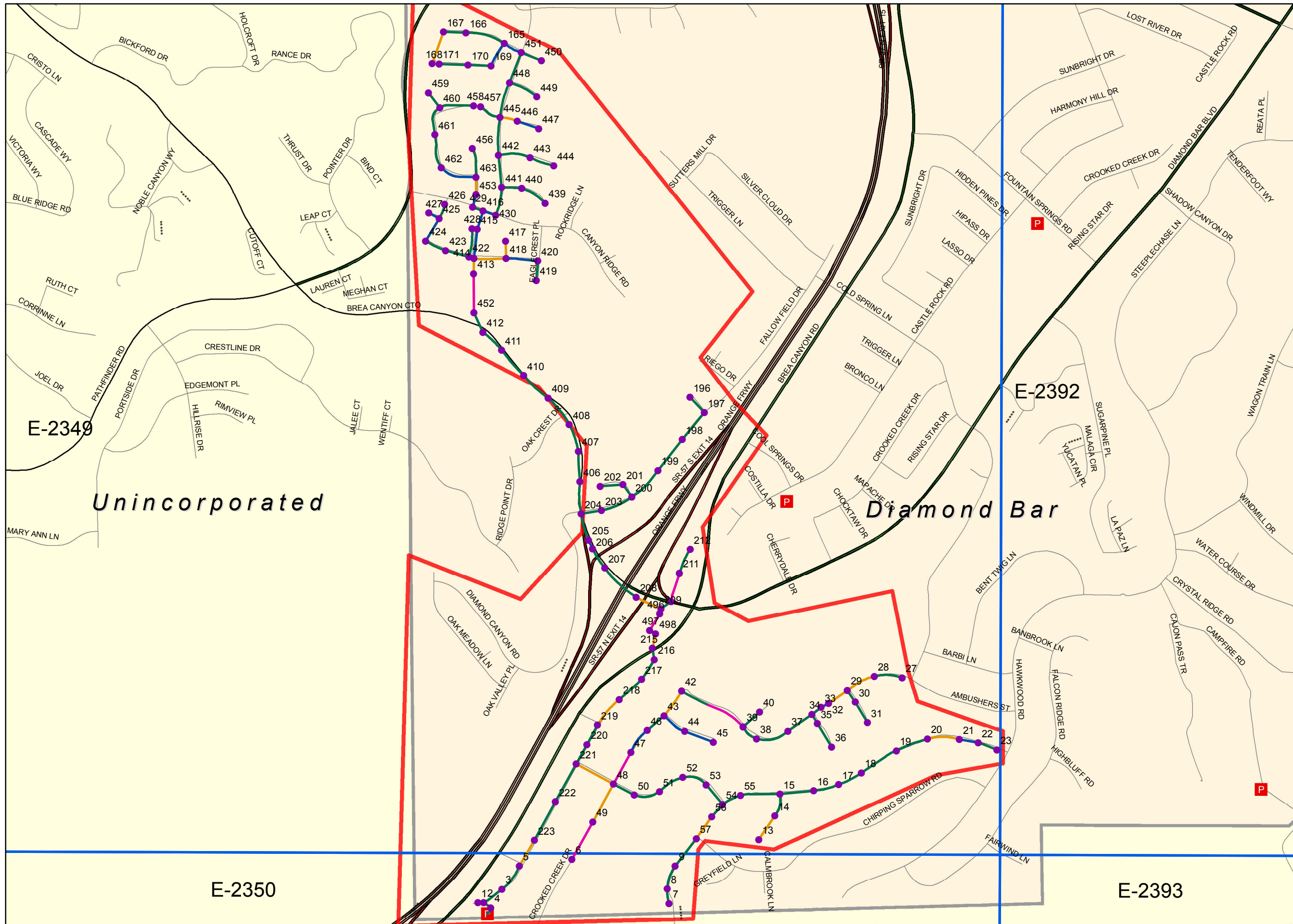
##### SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

##### Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0910C

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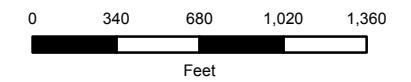
E-2350

E-2393

**CCTV PROJECT**  
**Y0TV0910C**

**Supervisory District 4**  
**City of Diamond Bar**

**QUICK**  
**MAINTENANCE**  
**RATING**  
**(QMR)**



**Legend**

**SMD Sanitary Sewers**

- QMR**
- 1: MINOR
  - 2: MINOR TO MODERATE
  - 3: MODERATE
  - 4: SIGNIFICANT
  - 5: MOST SIGNIFICANT

**SMD Manholes**

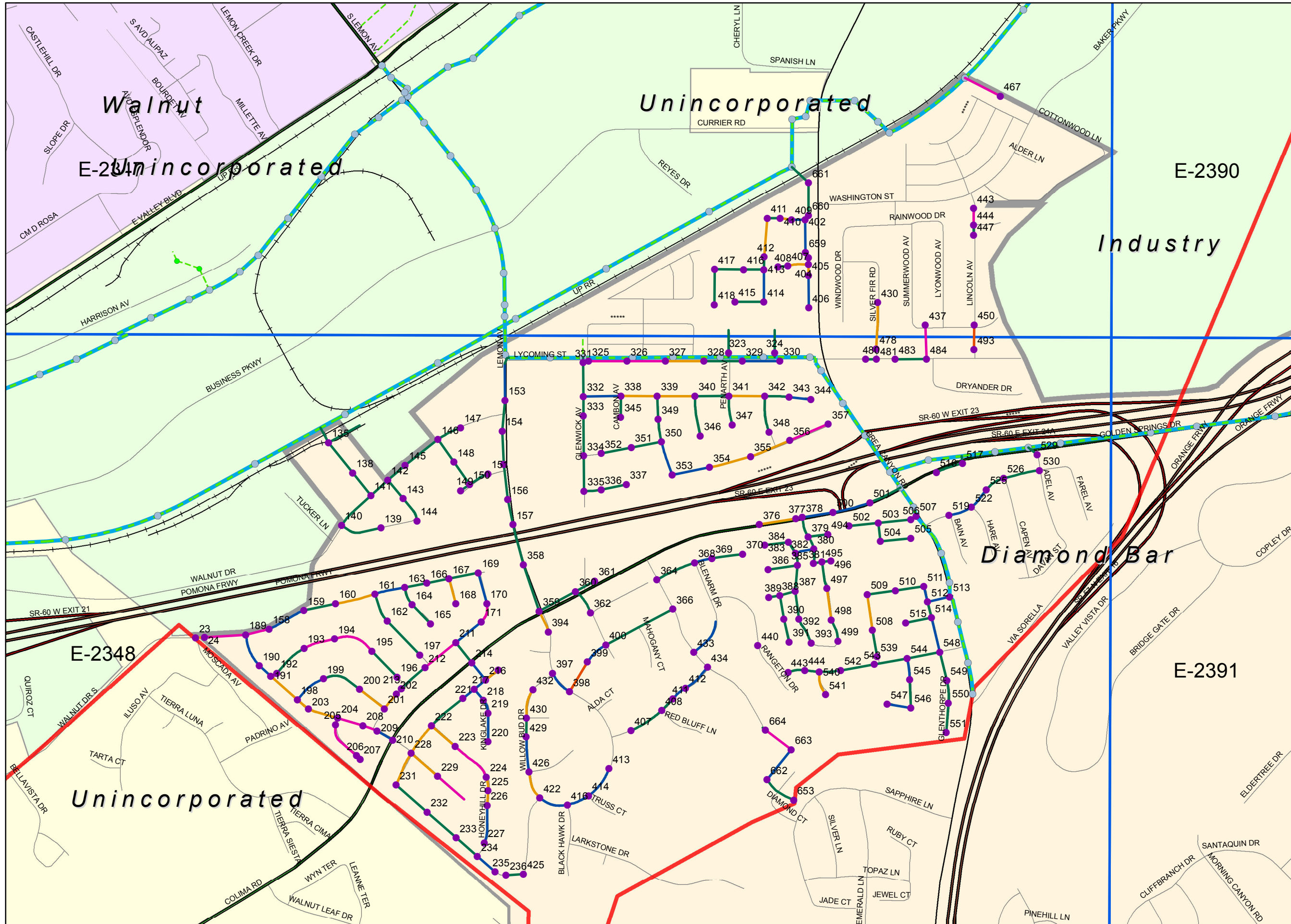
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

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**JANUARY 2013**



**ENCLOSURE 2**  
**HIGH WATER LEVELS**  
**CITY OF DIAMOND BAR (Y0TV0910C)**  
as of 01/27/2011

<b>Item No.</b>	<b>QMR</b>	<b>START MH</b>	<b>END MH</b>	<b>STREET</b>	<b>OBSERVATION</b>	<b>SAG (ft)</b>
1	4635	2349-0496	2349-0497	EASEMENT	Camera underwater: 5'-30'	25
2	4432	2348-0189	2348-0024	WALNUT DR	Water Level (70%)/sag: 282'-293'	11
3	4232	2347-0441	2347-0440	LYONWOOD AV	Camera underwater: 49'	
4	4122	2347-0433	2347-0432	RAINWOOD DR	Water Level (65%)/sag: 54' - 81'	27
5	3B00	2349-0048	2349-0221	GOLD RUN DR	Water Level (35% - 40%)	
6	3824	2349-0414	2349-0413	EASEMENT	Water Level (40% - 45%)	
7	3800	2348-0394	2348-0359	LEMON AV	Water Level (45%)/sag: 167' - 198'	31
8	3700	2349-0446	2349-0445	CREST LN	Water Level (35%)	
9	3600	2348-0236	2348-0235	FAIRLANCE DR	Water Level (45%)/sag: 15'- 26'	11
10	3221	2348-0192	2348-0191	DAMIETTA DR	Water Level (50%)/sag: 51'- 61'	10



**ENCLOSURE 2**  
**INFILTRATION**  
**CITY OF DIAMOND BAR (Y0TV0910C)**  
as of 01/27/2011

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE METHOD
1	4131	2348-0224	2348-0223	HONEYHILL DR	Infiltration (runner): 185'	Infiltration is minimal. No action needed.
2	412M	2348-0206	2348-0205	AHTENA DR	Infiltration (dripper): 327'	Infiltration is minimal. No action needed.
3	412A	2348-0158	2348-0189	WALNUT DR	Infiltration (gusher): 227'	Lining: MH to MH (CIPP Liner)
4	4123	2348-0230	2348-0229	CALBOURNE DR	Infiltration (runner) : 322'	Infiltration is minimal. No action needed.
5	312M	2348-0198	2348-0191	CALBOURNE DR	Infiltration (dripper): 225'	Infiltration is minimal. No action needed.
6	312A	2348-0205	2348-0204	AHTENA DR	Infiltration (dripper): 63'	Infiltration is minimal. No action needed.
7	3100	2348-0225	2348-0224	HONEYHILL DR	Infiltration ((dripper): 4'	Infiltration is minimal. No action needed.

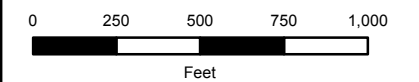
# ENCLOSURE 2

## CCTV PROJECT

# Y0TV0910C

Supervisorial District 4  
City of Diamond Bar

## HIGH WATER LEVEL AND INFILTRATION



### Legend

- HIGH WATER LEVELS
- INFILTRATION

### SMD Manholes

⊗ Other

### Manhole Type

- Standard
- ▲ DROP
- Shallow
- ◇ Trap
- ⊗ Siphon

P SMD Pump Stations

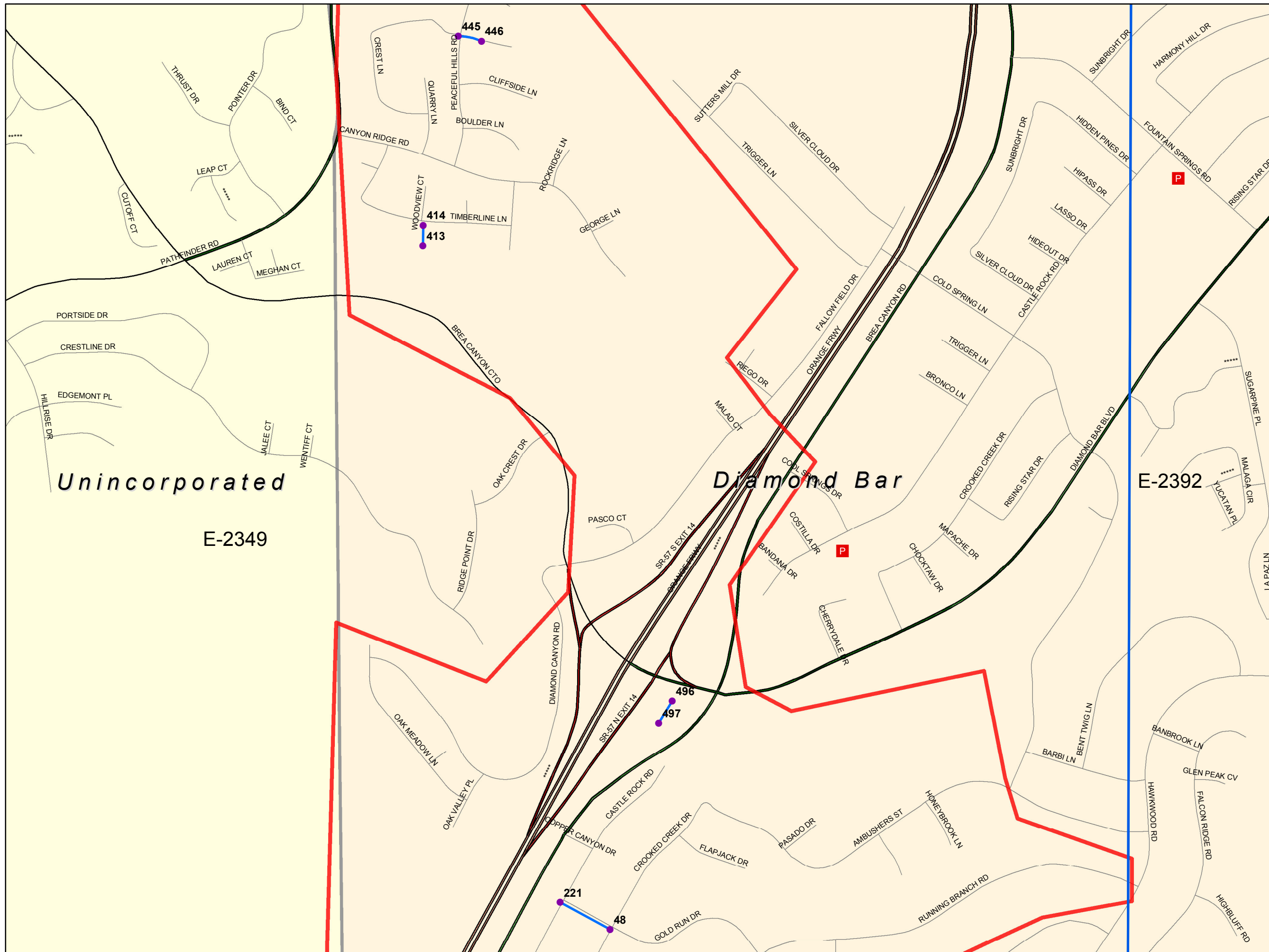
WTP SMD Treatment Plants

### Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0910C

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January 2013



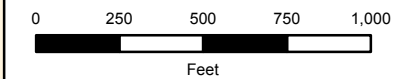
# ENCLOSURE 2

## CCTV PROJECT

# Y0TV0910C

Supervisory District 4  
City of Diamond Bar

## HIGH WATER LEVEL AND INFILTRATION



### Legend

- HIGH WATER LEVELS
- INFILTRATION

### SMD Manholes

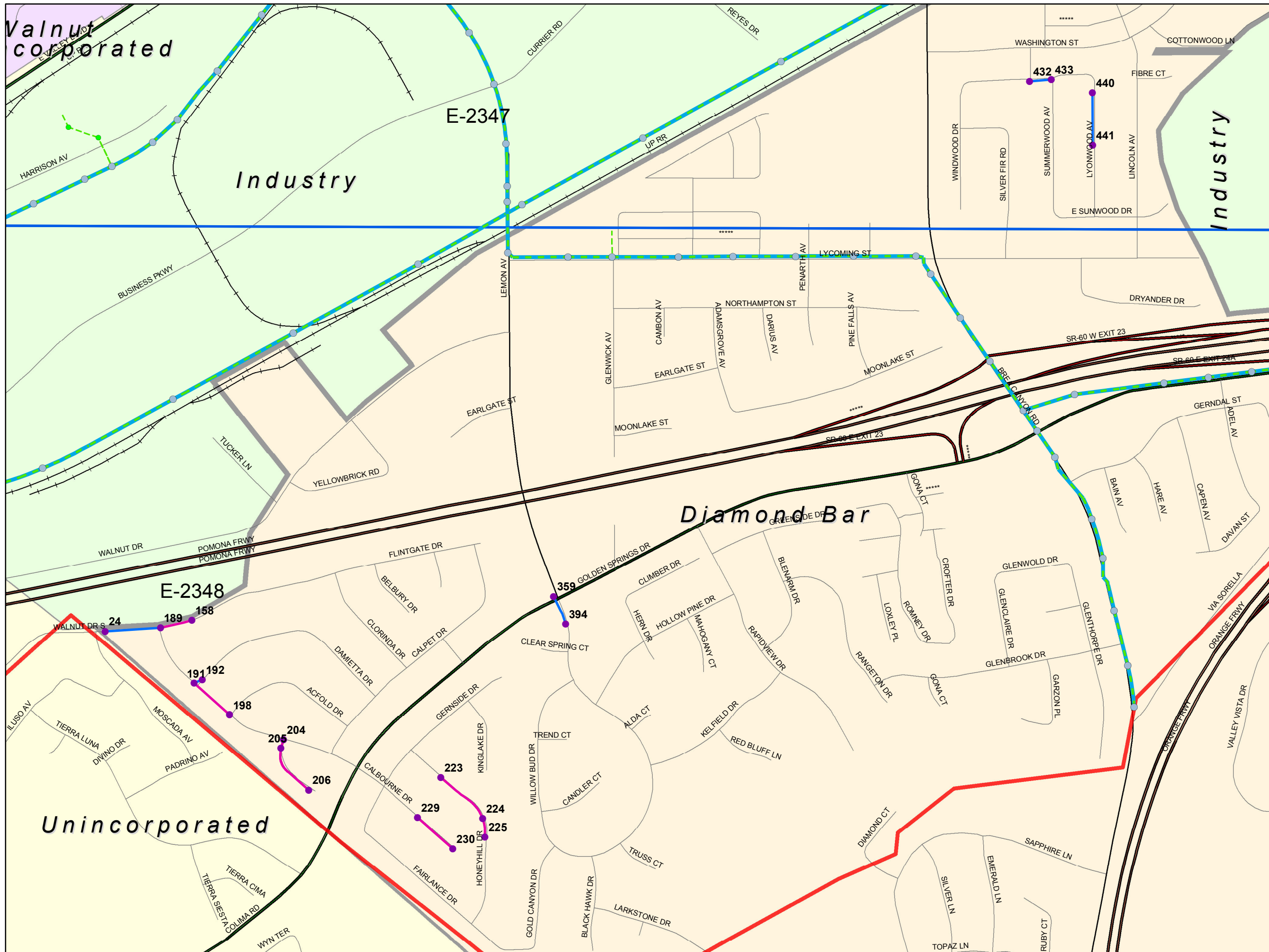
- Other
- Standard
- ▲ DROP
- Shallow
- ◇ Trap
- ⊗ Siphon
- SMD Pump Stations
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January 2013



Walnut  
corporated

Industry

Industry

Diamond Bar

Unincorporated



GAIL FARBER, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

*"To Enrich Lives Through Effective and Caring Service"*

900 SOUTH FREMONT AVENUE  
ALHAMBRA, CALIFORNIA 91803-1331  
Telephone: (626) 458-5100  
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 1460  
ALHAMBRA, CALIFORNIA 91802-1460

{date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Dear:

### SEWER LATERAL ROOT INTRUSION

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

***"All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order."***

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at XXXX to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify the District office, XXXX, Sewer Maintenance Division, at XXXX.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER  
Director of Public Works

KEITH E. LEHTO  
Assistant Deputy Director  
Sewer Maintenance Division

XX:

Enc.

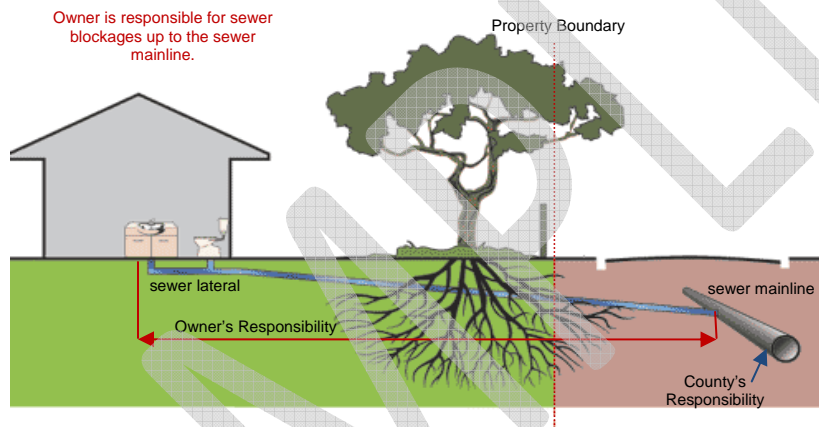
**XXXX**  
Roots at Lateral Connection



## Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes the portion that may be located within the public right of way (under the asphalt and street landscaping).

### SEWER LATERALS – AREAS OF RESPONSIBILITY



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. "Out of sight, out of mind" is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
  - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
  - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

## ENCLOSURE 3:

- Quick Structural Rating Report  
Priority List
- Quick Structural Rating Map



**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF DIAMOND BAR (Y0TV0910C)**  
as of 01/27/2011

ITEM NO	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	5200	2348-0541	2348-0540	GONA CT	Broken with visible soil: 54'-56'	Point Repair (completed: 01/08/13)	
2	5121	2348-0528	2348-0527	CAPEN AV	Broken: 325'	Structural integrity in tact. No action needed.	
3	5121	2348-0367	2348-0366	RAPIDVIEW DR	Hole with visible soil :136'	Point Repair (completed: 01/08/13)	
4	5100	2348-0191	2348-0190	CALBOURNE DR	Broken: 105'	Structural integrity in tact. No action needed.	
5	5100	2349-0053	2349-0052	GOLD RUN DR	Broken: 230'	Structural integrity in tact. No action needed.	
6	5100	2348-0153	2348-0152	LEMON AV	Broken with visible soil: 250'	Point Repair	
7	5100	2349-0206	2349-0207	ORANGE FWY	Broken : 186'	Structural integrity in tact. No action needed.	
8	4711	2347-0433	2347-0432	RAINWOOD DR	Water level (65%)/sag: 54'-81'	Structural integrity in tact. No action needed.	
9	4133	2347-0412	2347-0411	EASEMENT	Fractures: 308'	Structural integrity in tact. No action needed.	
10	4100	2348-0146	2348-0145	WALNUT DR	Defective point repair: 14'	Point Repair (completed: 01/08/13)	
11	4100	2349-0039	2349-0041	AMBUSHERS ST	Broken: 356'	Structural integrity in tact. No action needed.	
12	4100	2349-0498	2349-0215	EASEMENT	Fractures: 138'	Structural integrity in tact. No action needed.	
13	4100	2349-0210	2349-0209	DIAMOND BAR BV	Broken : 68'	Lining: MH to MH	100

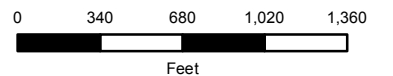
# ENCLOSURE 3

## CCTV PROJECT

# Y0TV0910C

Supervisorial District 4  
City of Diamond Bar

## QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD Sanitary Sewers

- QSR**
- 1: MINOR
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  - 3: MODERATE
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  - 5: MOST SIGNIFICANT

#### SMD Manholes

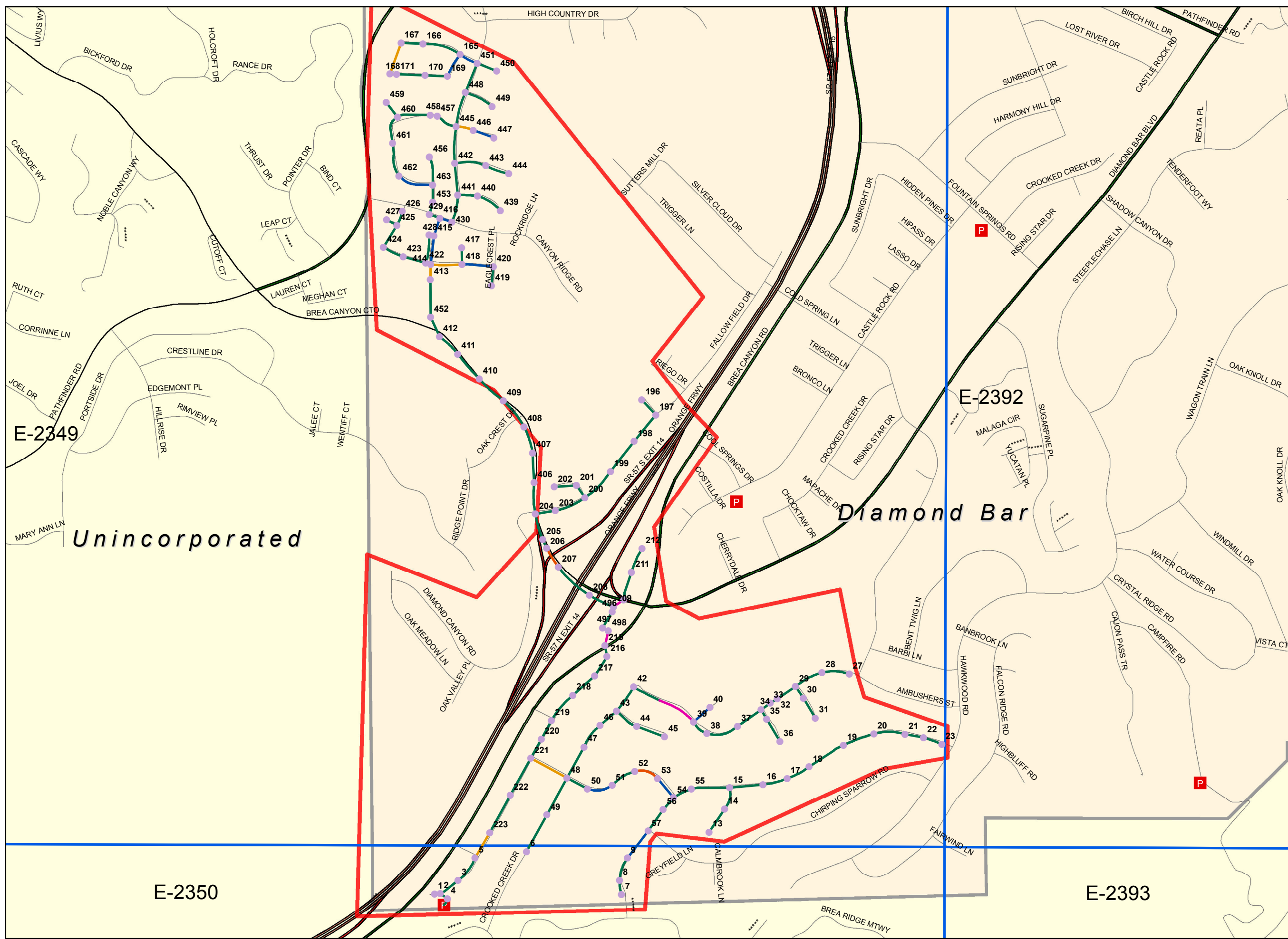
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

#### Maintained by Others:

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JANUARY 2013



E-2349

E-2392

Diamond Bar

Unincorporated

E-2350

E-2393

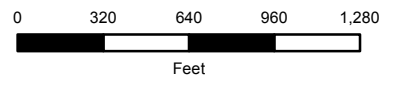
# ENCLOSURE 3

## CCTV PROJECT

# YOTV0910C

**Supervisorial District 4  
City of Diamond Bar**

## QUICK STRUCTURAL RATING (QSR)



### Legend

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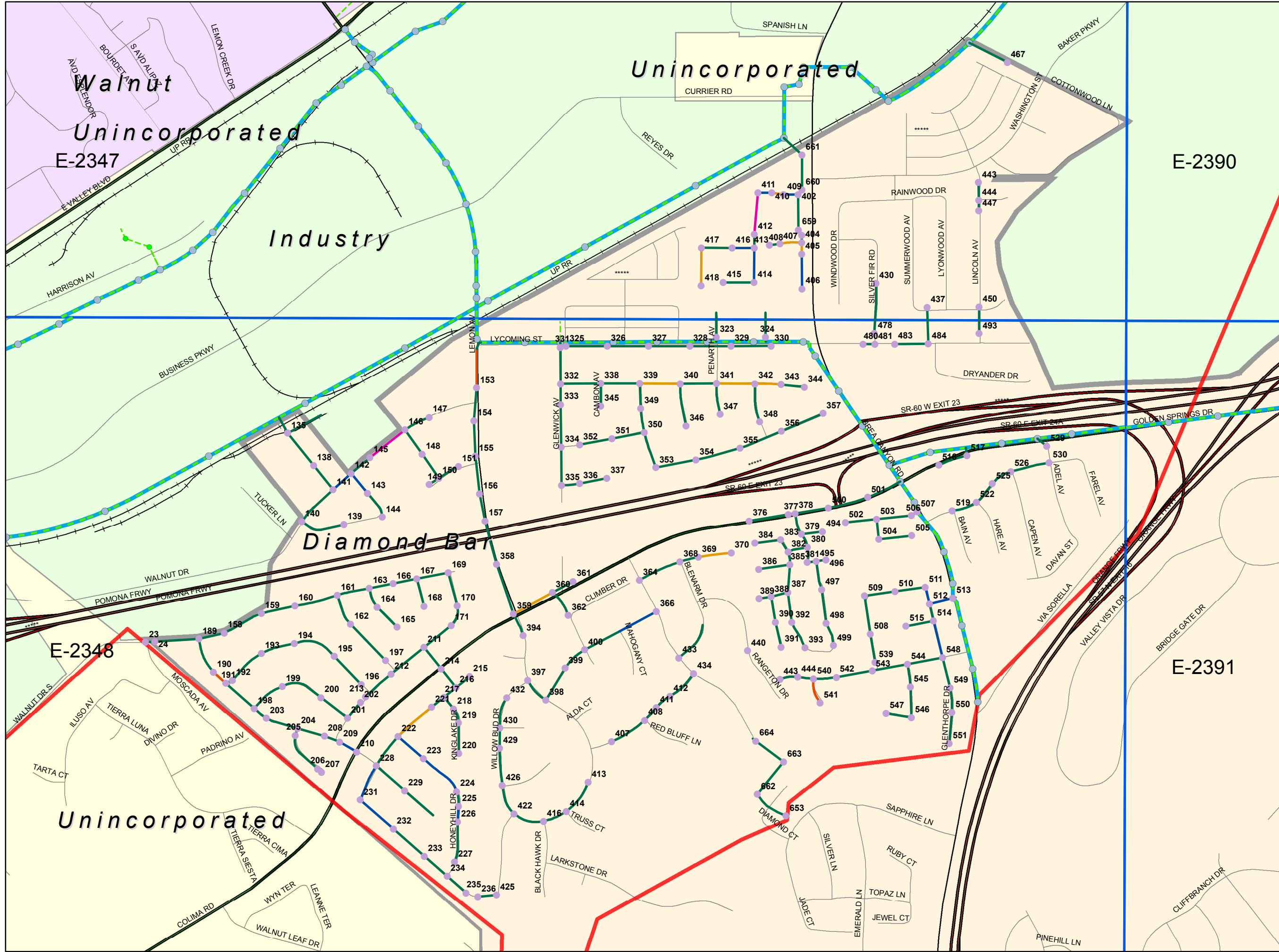
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JANUARY 2013



## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5



## Inspection report

Date: <b>20101013</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>1131</b>	PSR: <b>91263</b>
Total Pipe Length: <b>213.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/12/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #:

Street: <b>GONA CT</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0541</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2348-0540</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>G312-014</b>	pipe length: <b>56.8 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Reinforced Plastic Pipe (Truss Pipe)</b> Pipe Length:
Drain. Area: <b>0540/2348-0541/2348</b>	Lining Method:
	Category:

Remark::

1:150	position	observation	grade
	<b>2348</b>		
	<b>2348-0541</b>		
	0.00	Manhole, within 8 inch: NO, Remarks: 2348-0541	0 FT // 00:00:29 6 FT // 00:01:15 16.7 FT // 00:01:47 19.2 FT // 00:02:08 45.6 FT // 00:03:01
	6.00	Water Level, 5 %, within 8 inch: NO	
	16.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	19.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	45.60	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	54.00	Roots Fine Joint, from 1 to 5 o'clock, within 8 inch: YES	M 1
	54.00 <b>S1</b>	Broken, from 7 to 5 o'clock, within 8 inch: NO, Start	S 5
	54.90	Obstacle Pipe Material, from 3 to 6 o'clock, 15 %, within 8 inch: NO	M 3
	54.90	Broken Soil Visible, from 5 to 7 o'clock, within 8 inch: NO	S 5
	55.50	Tap Break-in Intruding, at 3 o'clock, 4", 2, within 8 inch: NO	M 2
	56.40	Roots Medium Joint, from 3 to 5 o'clock, 20 %, within 8 inch: YES	M 3
	56.80 <b>F1</b>	Broken, from 7 to 5 o'clock, within 8 inch: NO, End	S 5
	56.80	Abandoned Survey, within 8 inch: NO, Remarks: CAMERA BLOCKED BY BROKEN	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	3221	10	9	19	5	2.25	3.17



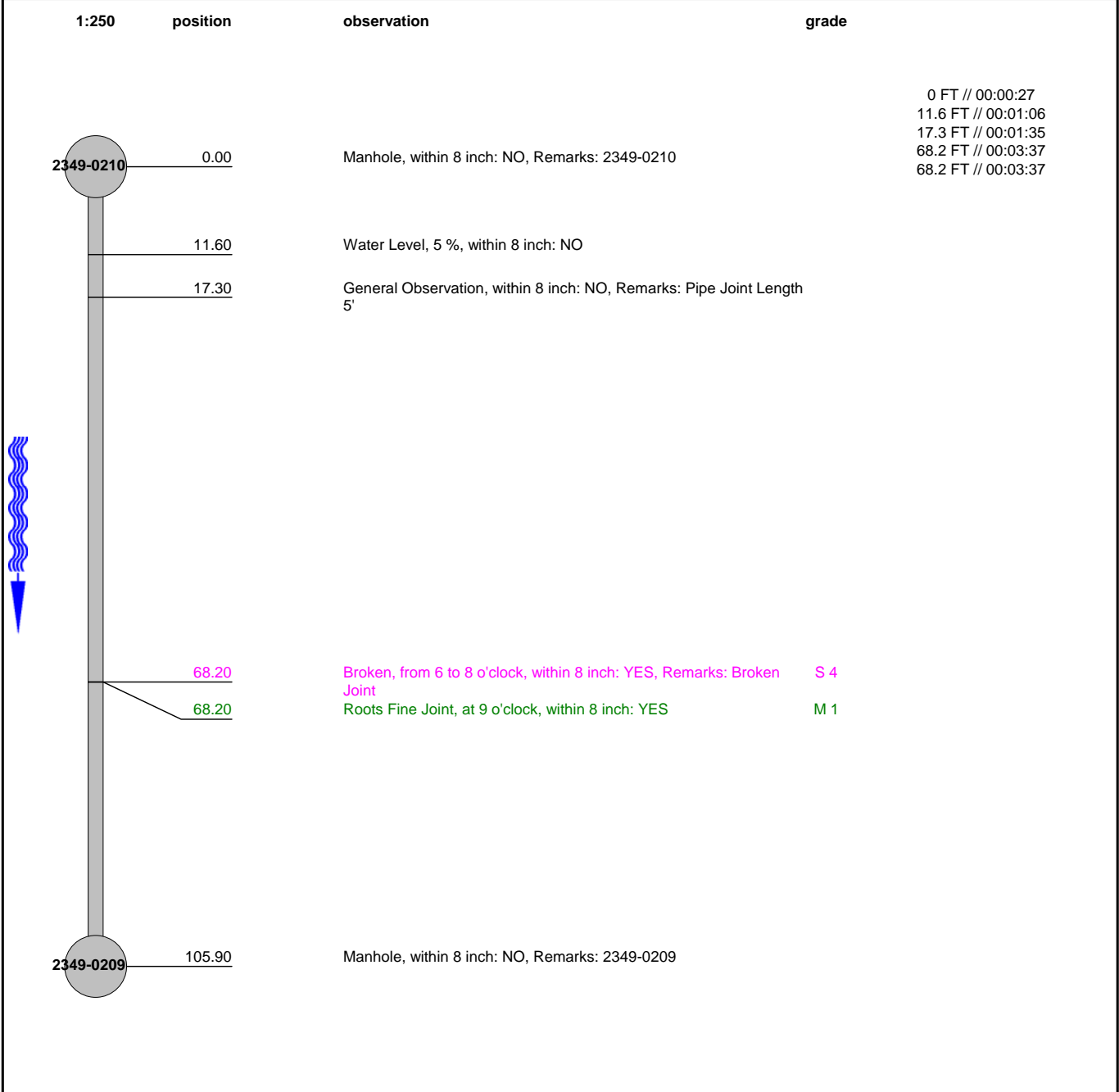
## Inspection report

Date: <b>20101026</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1847</b>	PSR: <b>90884</b>
Total Pipe Length: <b>107.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/18/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2349</b>

Street: <b>DIAMOND BAR BV</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2349-0210</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2349-0209</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-048</b>	pipe length: <b>105.9 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0209/2349-0210/2349</b>	Lining Method:
	Category:

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	1100	4	1	5	4	1	2.5



## Inspection report

Date: <b>20101026</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1840</b>	PSR: <b>90891</b>
Total Pipe Length: <b>151.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/18/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2349</b>

Street: <b>EASEMENT</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2349-0498</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2349-0215</b>
Location Code: <b>Easement/Right of Way</b>	Tape/Media #: <b>R311-048</b>	pipe length: <b>152.2 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0215/2349-0498/2349</b>	Lining Method:
	Category:

Remark::

1:350	position	observation	grade
			0 FT // 00:00:20
			8.8 FT // 00:01:48
			11.4 FT // 00:02:17
			11.4 FT // 00:02:32
			11.4 FT // 00:02:32
	0.00	Manhole, within 8 inch: NO, Remarks: 2349-0498	
	8.80	Tap Factory Active, at 9 o'clock, 8", within 8 inch: NO	
	11.40	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	11.40	Roots Medium Lateral, at 3 o'clock, 25 %, within 8 inch: NO	M 3
	22.70	Water Level, 20 %, within 8 inch: NO	
	27.80	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 5'	
	70.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	138.50	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	152.20	Manhole, within 8 inch: NO, Remarks: 2349-0215	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3100	4	3	7	4	3	3.5



## Inspection report

Date: <b>20101025</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1836</b>	PSR: <b>91054</b>
Total Pipe Length: <b>360.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/15/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2349</b>

Street: <b>AMBUSHERS ST</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2349-0039</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2349-0041</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-047</b>	pipe length: <b>361.4 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0039/2349-0041/2349</b>	Lining Method:
	Category:

Remark::

1:825	position	observation	grade
			0 FT // 00:00:26
			18.9 FT // 00:01:34
			59.4 FT // 00:03:43
			66.2 FT // 00:04:16
			145 FT // 00:06:06
	<b>2349-0039</b>	0.00	Manhole, within 8 inch: NO, Remarks: 2349-0039
	18.90	Water Level, 5 %, within 8 inch: NO	
	59.40	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 5'	
	66.20	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	
	145.00	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	
	178.10	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	
	209.60	Roots Fine Joint, from 12 to 4 o'clock, within 8 inch: YES	M 1
	231.40	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	
	231.40	Roots Ball Lateral, at 10 o'clock, 65 %, within 8 inch: NO	M 4
	231.40	Roots Fine Connection, at 10 o'clock, within 8 inch: NO	M 1
	234.10	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	
	279.10	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	
	279.10	Roots Fine Lateral, at 2 o'clock, within 8 inch: NO	M 1
	312.10	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	
	335.00	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	
	356.70	Broken, from 7 to 9 o'clock, within 8 inch: YES, Remarks: Broken Joint	S 4
	<b>2349-0041</b>	361.40	Manhole, within 8 inch: NO, Remarks: 2349-0041

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	4113	4	7	11	4	1.75	2.2





## Inspection report

Date: <b>20101020</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Light Rain</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1773</b>	PSR: <b>91586</b>
Total Pipe Length: <b>350.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/14/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2348</b>

Street: <b>WALNUT DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0145</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2348-0146</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-044</b>	pipe length: <b>341.3 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0145/2348-0146/2348</b>	Lining Method:
	Category:

Remark::

1:775	position	observation	grade
			0 FT // 00:00:28 0 FT // 00:00:45 0 FT // 00:00:45 7.9 FT // 00:01:38 14.2 FT // 00:02:09
	0.00	Manhole, within 8 inch: NO, Remarks: 2348-0145	
	0.00	Vermin Cockroach, within 8 inch: NO	M 1
	7.90	Water Level, 5 %, within 8 inch: NO	
	14.20	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 6'	
	84.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	274.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	341.30	Repair Point Defective, from 10 to 2 o'clock, within 8 inch: NO, Remarks: PVC	S 4
	341.30	Abandoned Survey, within 8 inch: NO, Remarks: Due To Pipe Replaced Defe	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	1100	4	1	5	4	1	2.5



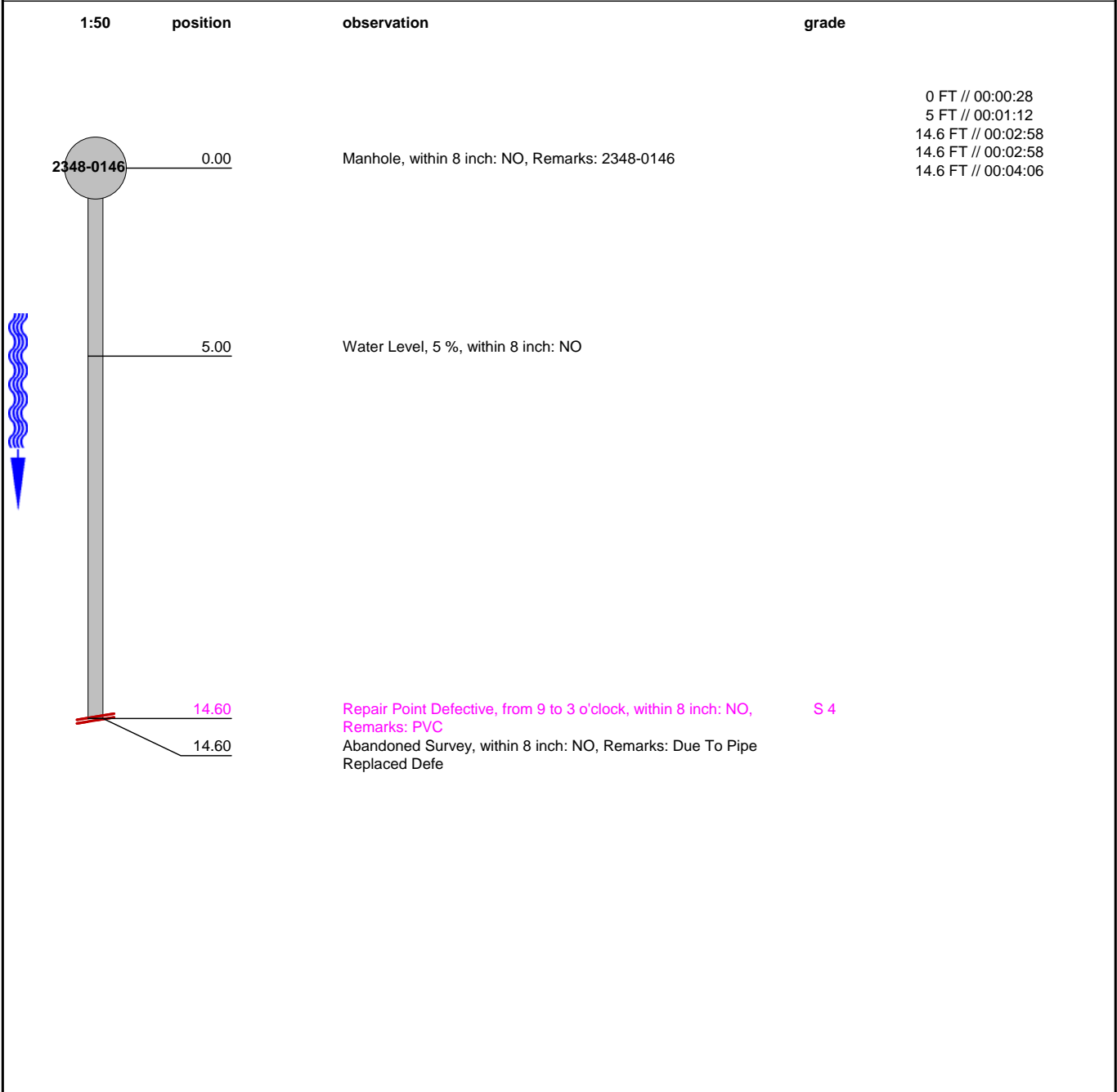
## Inspection report

Date: <b>20101020</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Light Rain</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1772</b>	PSR: <b>91586</b>
Total Pipe Length: <b>350.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/14/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2348</b>

Street: <b>WALNUT DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0146</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2348-0145</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-044</b>	pipe length: <b>14.6 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0145/2348-0146/2348</b>	Lining Method:
	Category:

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	0000	4	0	4	4	0	4



## Inspection report

Date: <b>20101020</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>1175</b>	PSR: <b>91966</b>
Total Pipe Length: <b>307.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/19/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #:

Street: <b>EASEMENT</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2347-0412</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2347-0411</b>
Location Code: <b>Parking Lot</b>	Tape/Media #: <b>G312-017</b>	pipe length: <b>311.1 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0411/2347-0412/2347</b>	Lining Method:
	Category:

Remark::

1:700	position	observation	grade
0 FT // 00:00:33			
0 FT // 00:00:41			
52.9 FT // 00:02:43			
63.2 FT // 00:03:07			
79.6 FT // 00:03:48			
	2347		
	2347-0412	Manhole, within 8 inch: NO, Remarks: 2347-0412	
	0.00		
	0.00	Water Level, 10 %, within 8 inch: NO	
	52.90	Water Level, 15 %, within 8 inch: NO	
	63.20	Water Level, 10 %, within 8 inch: NO	
	79.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	99.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	100.20	Intruding Sealing Ring Hanging, from 7 to 10 o'clock, 5 %, within 8 inch: YES	
	147.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	152.40	Water Level Sag, 35 %, within 8 inch: NO, Start	S 3
	163.70	Material Change, within 8 inch: NO, Remarks: CAST-IRON PIPE	
	164.80	Water Level Sag, 35 %, within 8 inch: NO, End	S 3
	164.80	Water Level, 15 %, within 8 inch: NO	
	173.90	Surface Spalling Other, from 3 to 9 o'clock, within 8 inch: NO	S 2
	182.40	Material Change, within 8 inch: NO, Remarks: VCP	
	194.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	252.20	Intruding Sealing Ring, from 3 to 4 o'clock, 5 %, within 8 inch: YES	M 2
	299.20	General Observation, within 8 inch: NO, Remarks: JOINT LENGTH 5'	
	308.60	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	311.10	Manhole, within 8 inch: NO, Remarks: 2347-0411	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	3321	15	11	26	3	2.75	2.89



## Inspection report

Date: <b>20101012</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Martin Garcia</b>	section number: <b>1368</b>	PSR: <b>91988</b>
Total Pipe Length: <b>139.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/11/2010</b>	Pre-Cleaned: <b>Heavy Cleaning</b>	Map Grid #:

Street: <b>RAINWOOD DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2347-0433</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2347-0432</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>M317-030</b>	pipe length: <b>136.2 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0433/2347-0432/2347</b>	Lining Method:
	Category:

Remark::

1:325	position	observation	grade
			0 FT // 00:00:23 2.4 FT // 00:00:35 8.5 FT // 00:00:52 29.7 FT // 00:01:46 54.7 FT // 00:02:59
	<b>2347</b>		
	<b>2347-0433</b>	Manhole, within 8 inch: NO, Remarks: 2347-0433	
	0.00		
	2.40	Water Level, 15 %, within 8 inch: NO	
	8.50	Alignment Right, 15 %, within 8 inch: NO	M 2
	29.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	54.70	Water Level Sag, 65 %, within 8 inch: NO, Start	S 4
	66.80	Camera Underwater, within 8 inch: NO	M 4
	81.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	81.70	Water Level Sag, 65 %, within 8 inch: NO, End	S 4
	81.70	Water Level, 15 %, within 8 inch: NO	
	100.90	Water Level, 20 %, within 8 inch: NO	
	134.30	Joint Offset Medium, within 8 inch: YES	S 1
	134.30	Alignment Right, 15 %, within 8 inch: NO	M 2
	136.20	Manhole, within 8 inch: NO, Remarks: 2347-0432	
	<b>2347-0432</b>		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4711	4122	29	8	37	3.62	2.67	3.36



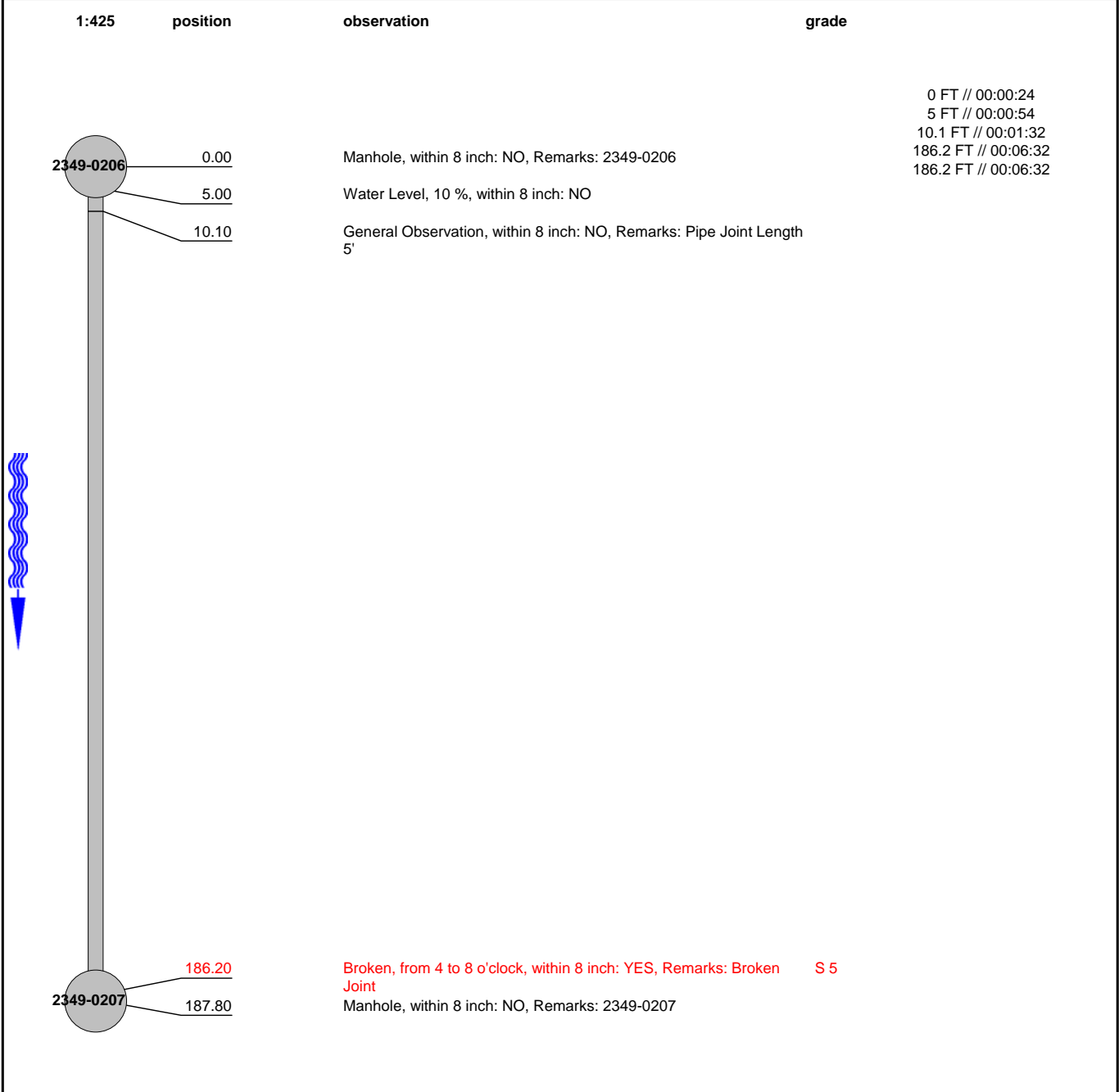
## Inspection report

Date: <b>20101102</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>2269</b>	PSR: <b>90881</b>
Total Pipe Length: <b>201.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/29/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2349</b>

Street: <b>ORANGE FWY</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2349-0206</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2349-0207</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-053</b>	pipe length: <b>187.8 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0206/2349-0207/2349</b>	Lining Method:
	Category:

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	0000	5	0	5	5	0	5



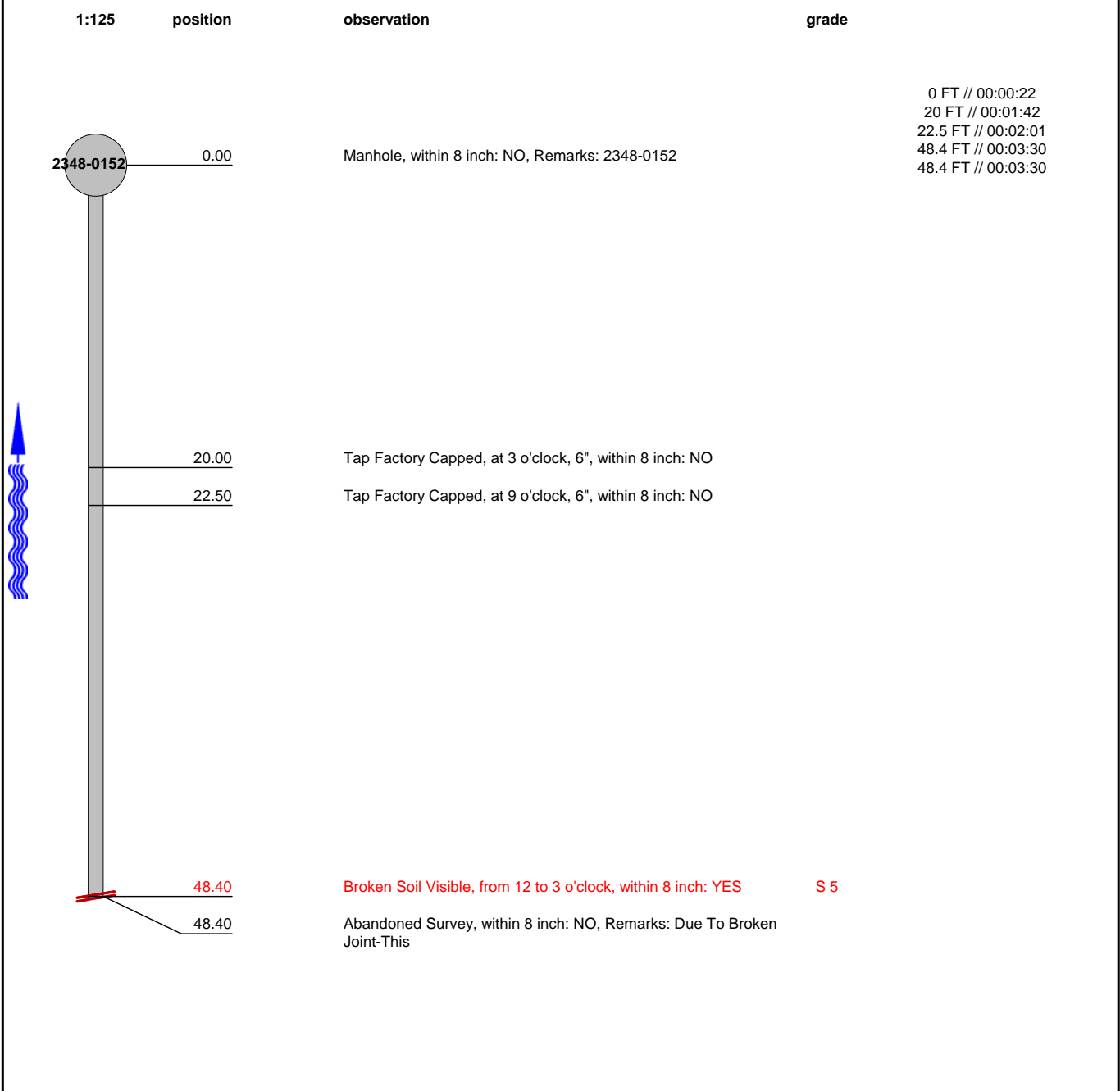
## Inspection report

Date: <b>20101027</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1878</b>	PSR: <b>91592</b>
Total Pipe Length: <b>310.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/19/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2348</b>

Street: <b>LEMON AV</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0152</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2348-0153</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-049</b>	pipe length: <b>48.4 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 12"/12"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0152/2348-0153/2348</b>	Lining Method:
	Category:

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	0000	5	0	5	5	0	5



## Inspection report

Date: <b>20101027</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1877</b>	PSR: <b>91592</b>
Total Pipe Length: <b>310.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/19/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2348</b>

Street: <b>LEMON AV</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0153</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2348-0152</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-049</b>	pipe length: <b>250.3 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 12"/12"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0152/2348-0153/2348</b>	Lining Method:
	Category:

Remark::

1:575	position	observation	grade
			0 FT // 00:00:24
			9.4 FT // 00:00:56
			14.8 FT // 00:01:51
			73.8 FT // 00:03:20
			76.8 FT // 00:03:44
	0.00	Manhole, within 8 inch: NO, Remarks: 2348-0153	
	9.40	Water Level, 10 %, within 8 inch: NO	
	14.80	General Observation, within 8 inch: NO, Remarks: Pipe Joint Lenght 5	
	73.80	Tap Factory Capped, at 2 o'clock, 6", within 8 inch: NO	
	76.80	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	
	174.60	Tap Factory Capped, at 2 o'clock, 4", within 8 inch: NO	
	177.00	Tap Factory Capped, at 10 o'clock, 4", within 8 inch: NO	
	209.40 <b>S1</b>	Water Level Sag, 25 %, within 8 inch: NO, Start	<b>M 2</b>
	215.00	Water Level, 50 %, within 8 inch: NO	
	250.30 <b>F1</b>	Water Level Sag, 25 %, within 8 inch: NO, End	<b>M 2</b>
	250.30	Water Level, 15 %, within 8 inch: NO	
	250.30	Broken Soil Visible, at 9 o'clock, within 8 inch: YES	<b>S 5</b>
	250.30	Abandoned Survey, within 8 inch: NO, Remarks: Due To Broken Joint	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2A00	5	20	25	5	2	2.27



## Inspection report

Date: <b>20101022</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1829</b>	PSR: <b>91068</b>
Total Pipe Length: <b>225.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/15/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2349</b>

Street: <b>GOLD RUN DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2349-0053</b>
City: <b>DIA</b>	Year Renewed	End MH: <b>2349-0052</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-046</b>	pipe length: <b>231.3 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0052/2349-0053/2349</b>	Lining Method:
	Category:

Remark::

1:525	position	observation	grade
			0 FT // 00:00:29
			0 FT // 00:00:50
			0 FT // 00:00:50
			4.6 FT // 00:01:07
			9.7 FT // 00:01:34
	0.00	Manhole, within 8 inch: NO, Remarks: 2349-0053	
	0.00	Vermin Cockroach, within 8 inch: NO	M 1
	4.60	Water Level, 5 %, within 8 inch: NO	
	9.70	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 5'	
	36.40	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	
	48.60	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	71.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	140.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	203.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	230.50	Broken, from 4 to 8 o'clock, within 8 inch: NO, Remarks: Broken Joint S 5	
	230.50	Roots Fine Joint, at 8 o'clock, within 8 inch: YES	M 1
	231.30	Manhole, within 8 inch: NO, Remarks: 2349-0052	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	1200	5	2	7	5	1	2.33





## Inspection report

Date: <b>20101019</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Light Rain</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>1767</b>	PSR: <b>91631</b>
Total Pipe Length: <b>131.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/14/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>2348</b>

Street: <b>CALBOURNE DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0191</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2348-0190</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-043</b>	pipe length: <b>149.1 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0190/2348-0191/2348</b>	Lining Method:
	Category:

Remark::

1:350	position	observation	grade
			0 FT // 00:00:25 3 FT // 00:01:03 3 FT // 00:01:03 8.7 FT // 00:01:41 19.5 FT // 00:02:24
	0.00	Manhole, within 8 inch: NO, Remarks: 2348-0191	
	3.00	Deposits Attached Encrustation, from 8 to 4 o'clock, 10 %, within 8 inch: YES M 2	
	8.70	Tap Break-in Active, at 10 o'clock, 4", within 8 inch: NO	
	19.50 S1	Deposits Attached Encrustation, at 8 o'clock, 5 %, within 8 inch: NO, M 2 Start	
	21.10	Water Level, 5 %, within 8 inch: NO	
	25.90	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 5'	
	45.60 F1	Deposits Attached Encrustation, at 8 o'clock, 5 %, within 8 inch: NO, M 2 End	
	53.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	53.10	Deposits Attached Encrustation, at 9 o'clock, 10 %, within 8 inch: NO, Remarks: In Lateral M 2	
	105.90	Broken Soil Visible, at 2 o'clock, within 8 inch: YES S 5	
	124.70	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	
	127.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	145.60	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	149.10	Manhole, within 8 inch: NO, Remarks: 2348-0190	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2900	5	18	23	5	2	2.3



## Inspection report

Date: <b>20101018</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Light Rain</b>	Surveyed By: <b>Martin Garcia</b>	section number: <b>1442</b>	PSR: <b>91442</b>
Total Pipe Length: <b>189.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/15/2010</b>	Pre-Cleaned: <b>Heavy Cleaning</b>	Map Grid #:

Street: <b>RAPIDVIEW DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0367</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2348-0366</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>M317-034</b>	pipe length: <b>137 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0367/2348-0366/2348</b>	Lining Method:
	Category:

Remark::

1:325	position	observation	grade
	<b>2348</b>		
	0.00	Manhole, within 8 inch: NO, Remarks: 2348-0367	0 FT // 00:00:26
	2.50	Water Level, 10 %, within 8 inch: NO	2.5 FT // 00:00:39
	14.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	14 FT // 00:01:29
	50.20	Alignment Left, 10 %, within 8 inch: NO	50.2 FT // 00:02:50
	61.60	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	61.6 FT // 00:03:24
	82.90	Crack Circumferential, from 1 to 5 o'clock, within 8 inch: YES	S 1
	82.90	Roots Fine Joint, at 1 o'clock, within 8 inch: YES	M 1
	84.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	135.80	Fracture Circumferential, from 2 to 10 o'clock, within 8 inch: YES	S 2
	136.10	Hole Soil Visible, from 3 to 9 o'clock, within 8 inch: YES	S 5
	137.00	Manhole, within 8 inch: NO, Remarks: 2348-0366	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	1200	8	2	10	2.67	1	2



## Inspection report

Date: <b>20101014</b>	P.O.#: <b>Y0TV0910C</b>	Weather: <b>Dry</b>	Surveyed By: <b>Martin Garcia</b>	section number: <b>1390</b>	PSR: <b>91252</b>
Total Pipe Length: <b>389.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>DIA</b>	Clean Date: <b>10/13/2010</b>	Pre-Cleaned: <b>Heavy Cleaning</b>	Map Grid #:

Street: <b>CAPEN AV</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>2348-0528</b>
City: <b>DIA</b>	Year Renewed:	End MH: <b>2348-0527</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>M317-032</b>	pipe length: <b>346.3 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0528/2348-0527/2348</b>	Lining Method:
	Category:

Remark::

1:775	position	observation	grade
<b>2348</b>			
			0 FT // 00:00:23
			5.5 FT // 00:00:46
			6 FT // 00:01:20
			9.8 FT // 00:01:38
			16.2 FT // 00:02:07
	0.00	Manhole, within 8 inch: NO, Remarks: 2348-0528	
	5.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	6.00	Water Level, 5 %, within 8 inch: NO	
	9.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	16.20	Roots Fine Joint, from 1 to 8 o'clock, within 8 inch: YES	M 1
	16.20	Roots Tap Joint, at 4 o'clock, 10 %, within 8 inch: YES	M 2
	37.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	50.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	117.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	120.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	120.60	Roots Ball Lateral, at 3 o'clock, 60 %, within 8 inch: NO	M 4
	120.60	Roots Fine Connection, at 3 o'clock, within 8 inch: NO	M 1
	188.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	206.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	259.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	261.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	323.60	Fracture Circumferential, from 5 to 9 o'clock, within 8 inch: YES	S 2
	323.60	Roots Fine Joint, from 7 to 8 o'clock, within 8 inch: YES	M 1
	324.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	325.80	Roots Medium Joint, from 1 to 8 o'clock, 25 %, within 8 inch: YES	M 3
	325.80	Broken Soil Visible, from 11 to 1 o'clock, within 8 inch: YES	S 5
	327.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	346.30	Manhole, within 8 inch: NO, Remarks: 2348-0527	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	4131	7	12	19	3.5	2	2.38