



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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May 28, 2014

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

Mr. John D. Ballas, Director of Public Works
City of Industry
15625 East Stafford Street
Industry, CA 91744

Attention Ms. Jodi Scrivens

Dear Mr. Ballas:

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

This letter is to inform you that 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 inspection of 83,786 feet or 32.9 percent of the City of Industry'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)
- Quick Structural Rating Report Priority List, Quick Structural Rating Map, and Lining and Point Repair Projects Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. John D. Ballas
May 28, 2014
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 Project.

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.

Very truly yours,

GAIL FARBER
Director of Public Works



MASSOOD EFTEKHARI
Deputy Director



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Enc.

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

PROJECT NAME:	Y0TV0910C	PROJECT MGR:	Hanna Kebede
COMPLETION DATE:	01/27/2011	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(S):	5	MAP PAGE(S):	2262, 2305, 2347 & 2348
Report By:	Hanna Kebede	Report Date:	05/05/2014

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television (CCTV) inspection of 83,786 feet or 32.9 percent of the City of Industry's (City) sewer system as part of this condition assessment report.

To date, the District has completed the CCTV inspection of 110,417 feet or 43.4 percent of the City's sewer system. In addition to this report, one previous condition assessment report dated September 21, 2009 has been provided to your City for your information. A copy of this report can also be found at the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>.

The remaining 56.6 percent of the City's sewer system is part of the District's current CCTV inspection project.

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 No. Y0TV0910C included sewer lines located in the unincorporated County of Los Angeles and 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:

Grade	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

MAINTENANCE REPORT

Our inspection revealed that approximately 82.1 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 17.9 percent of the inspected pipe segments within the City 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 enhanced 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

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	50,641	60.4	237
2: Minor to Moderate	18,208	21.7	74
3: Moderate	9,678	11.6	40
4: Significant	4,108	4.9	16
5: Most Significant	1,151	1.4	5
	83,786	100.0	372

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. For this project, 3 notices will be sent to property owners in your City 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. Approximately 1.8 percent of the segments inspected exhibited 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 there were sags in the line. A sewer pipe can be considered at capacity when 50 percent 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 percent 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 the pipe segments with such high water level concerns was conducted to determine if any capacity issues exist. The sewer segments associated with high water levels appear to be the result of sags in the line, which do not impact its capacity. The pipe segments with sags have been cleaned to remove any debris in the line.

All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity, have been listed 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.

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

Infiltration

Our inspection revealed that infiltration was not detected in any pipe segment in your City's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 96.1 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 3.9 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 16 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 16 segments are included in Enclosure 4. A map showing the sewer lines which need lining and point repair is also provided in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	60,869	72.6	273
2: Minor to Moderate	12,606	15.1	55
3: Moderate	7,037	8.4	28
4: Significant	443	0.5	4
5: Most Significant	2,831	3.4	12
TOTAL	83,786	100.0	372

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the City of Industry according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-2006	Y0TV0506E	26,631	10.5	COMPLETED
2009-2010	Y0TV0910C	83,786	32.9	COMPLETED
2013-2014	Y0TV1314B	144,056	56.6	IN PROGRESS
TOTAL		254,473	100.00	

ENCLOSURE 1:

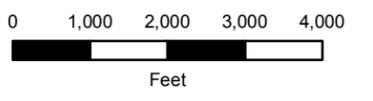
Project Overview Map

OVERVIEW

CCTV PROJECT

YOTV0910C

Industry

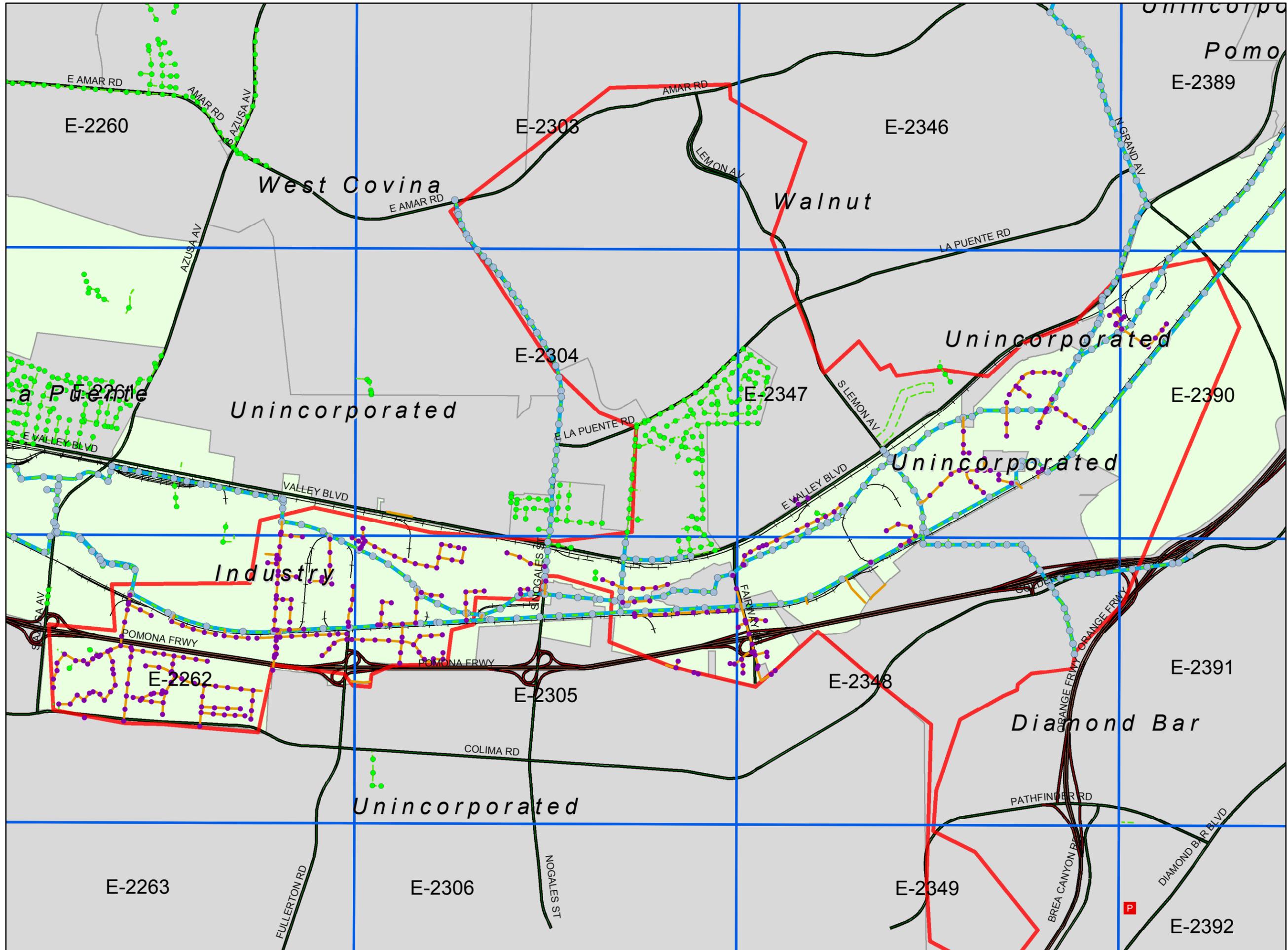


Legend

- 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
- YOTV0910C

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JULY 2013



ENCLOSURE 2:

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

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

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
1	533B	2262-0560	2262-0561	EASEMENT	Deposits (attached grease)	Hydrojet	1/22/2013
2	5131	2262-0456	2262-0513	EASEMENT	Obstacle (debris)	Hydrojet	1/25/2013
3	5111	2305-0314	2305-EAST	SAN JOSE AV	Obstacle	Hydrojet	5/16/2013
4	5100	2262-0485	2262-0484	EASEMENT	Grease	Hydrojet	1/9/2013
5	5100	2347-0520	2347-0521	EASEMENT	Obstacle (debris)	Hydrojet	1/11/2013
6	4L39	2305-0010	2305-0009	RAILROAD ST	High water Level (65%); sag; camera underwater	Hydrojet	4/26/2011
7	4E3J	2305-0009	2305-0008	EASEMENT	Water Level (45%); sag; camera underwater	Hydrojet	5/16/2013
8	4E3H	2305-0008	2305-0007	EASEMENT	Water Level (40%); sag; camera underwater	Hydrojet	5/16/2013
9	4600	2348-0006	2348-TRNK	EASEMENT	High water Level (75%); sag; camera underwater	Hydrojet	5/16/2013
10	453A	2347-0393	2347-0392	CURRIER RD	Water Level (40%); sag; camera underwater	Hydrojet	3/20/2012
11	443A	2305-0298	2305-0297	EASEMENT	Water Level (45%); sag; camera underwater	Hydrojet	4/23/2013
12	433A	2305-0297	2305-0296	EASEMENT	Water Level (35%); sag; camera underwater	Hydrojet	4/23/2013
13	412A	2262-0532	2262-0531	EASEMENT	Deposits (attached encrustation):	Hydrojet	6/17/2013
14	412A	2262-0505	2262-0504	KEYSTONE ST	High water level (50 %); sag; root ball (lateral): 182'	Hydrojet	5/15/2013
15	4134	2262-0540	2262-0539	EASEMENT	Deposits (attached encrustation)	Hydrojet	1/9/2013
16	4132	2305-0020	2305-0016	GALE AV	Deposits (attached grease); camera underwater	Hydrojet	1/9/2013
17	4131	2305-0286	2305-TRNK	CHARLIE RD	Deposits (attached); root ball (connecton)	Hydrojet	1/9/2013
18	4121	2305-0646	2305-0004	EASEMENT	Roots (fine)	Hydrojet	1/11/2013
19	4121	2347-0529	2347-TRNK	EASEMENT	Deposits Attached Encrustation	Hydrojet	1/11/2013
20	4111	2305-0004	2305-0005	SAN JOSE CREEK	Alignment down	No action needed.	N/A
21	4111	2305-0004	2305-0644	FULLERTON RD	Alignment right	No action needed.	N/A
22	3G00	2262-0484	2262-0482	CASTLETON ST	Water level (50 %); sag	Hydrojet	5/15/2013
23	3F25	2347-0395	2347-0638	CURRIER RD	Water level (50 %); sag	Hydrojet	5/16/2013
24	3C00	2262-0054	2262-0053	EASEMENT	Water level (40 %); sag	Hydrojet	5/15/2013
25	3A00	2262-0601	2262-0600	EASEMENT	Water level (35 %); sag	Hydrojet	5/15/2013
26	392E	2262-0056-A	2262-0055	EASEMENT	Water level (35 %); sag	Hydrojet	5/15/2013
27	3928	2262-0600	2262-0599	EASEMENT	Water level (35 %); sag	Hydrojet	5/15/2013
28	3800	2347-0396	2347-0394	REYES DR	Water level (40 %); sag	Hydrojet	5/16/2013
29	3723	2262-0053	2262-0601	EASEMENT	Water level (35 %); sag	Hydrojet	5/15/2013
30	3700	2262-0486	2262-0485	EASEMENT	Water level (40 %); sag	Hydrojet	5/15/2013
31	3627	2305-0002	2305-0003	EASEMENT	Water level (35%); sag; roots (medium, lateral): 205'	Hydrojet	5/16/2013
32	3600	2262-0056	2262-0056-A	EASEMENT	Water level (50 %); sag	Hydrojet	5/15/2013

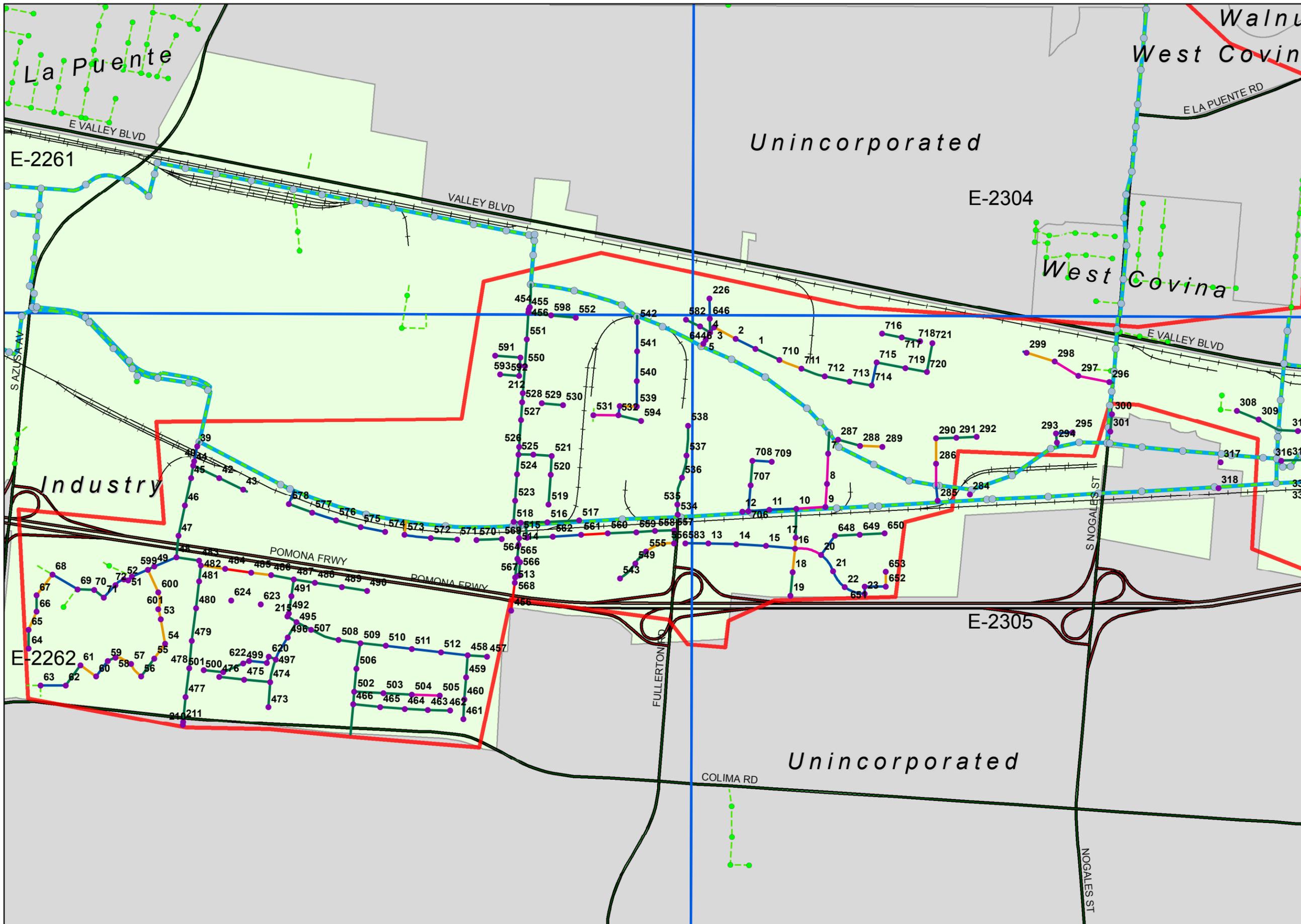
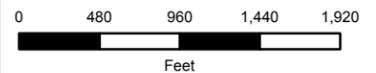
ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF INDUSTRY (Y0TV0910C)
as of 01/27/2011

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
33	3500	2305-0018	2305-0016	JELLY AV	Water level (50%); sag; roots (medium, lateral): 79'	Hydrojet	5/16/2013
34	3411	2305-0289	2305-0288	SAN JOSE AV	Water level (35 %); sag	Hydrojet	5/16/2013
35	3400	2347-0391	2347-0390	CURRIER RD	Water level (35 %); sag	Hydrojet	5/16/2013
36	3400	2305-0016	2305-0017	JELLY AV	Water level (35 %); sag	Hydrojet	5/16/2013
37	3400	2347-0401	2347-TRNK	EASEMENT	Water level (50 %); sag	Hydrojet	5/16/2013
38	3200	2262-0065	2262-0066	EASEMENT	Water level (35 %); sag	Hydrojet	5/15/2013
39	3200	2262-0533	2262-0539	EASEMENT	Deposits (attached encrustation)	Hydrojet	5/15/2013
40	372E	2305-0286	2305-0290	CHARLIE RD	Water level (40 %); sag	Hydrojet	5/16/2013
41	342D	2262-0055	2262-0054	EASEMENT	Water level (40 %); sag	Hydrojet	5/15/2013
42	332D	2305-0299	2305-0298	EASEMENT	Water level (35%); sag	Hydrojet	12/18/2012
43	3200	2217-0760	2217-0759	EASEMENT	Deposits (settled compacted)	Hydrojet	5/16/2013
44	312O	2262-0067	2262-0068	EASEMENT	Deposits (attached)	Hydrojet	3/18/2013
45	312J	2262-0539	2262-0533	EASEMENT	Deposits (attached)	Hydrojet	3/13/2013
46	312I	2262-0531	2262-0532	EASEMENT	Deposits (attached encrustation)	Hydrojet	12/7/2013
47	312D	2262-0057	2262-0056	EASEMENT	Deposits (attached grease)	Hydrojet	5/15/2013
48	3127	2305-0652	2305-0653	EASEMENT	Deposits (settled compacted)	Hydrojet	5/16/2013
49	3124	2262-0058	2262-0057	EASEMENT	Deposits (settled compacted)	Hydrojet	1/9/2013
50	3123	2262-0555	2262-0556	GALE AV	Deposits (attached grease)	Hydrojet	5/15/2013
51	3122	2347-0387	2347-0386	EASEMENT	Water level (35 %); sag	Hydrojet	4/29/2013
52	3121	2305-0287	2305-TRNK	SAN JOSE AV	Deposits (settled compacted)	Hydrojet	1/9/2013
53	3121	2305-0327	2305-0328	SALT LAKE RR	Deposits (attached encrustation)	No access	1/11/2013
54	3121	2305-0328	2305-0327	SALT LAKE RR	Obstacle (debris); deposits (attached encrustation)	No access	1/11/2013
55	3121	2305-0287	2305-TRNK	SAN JOSE AV	Deposits (settled compacted)	Hydrojet	1/9/2013
56	3121	2305-0327	2305-0328	SALT LAKE RR	Deposits (attached encrustation)	No access	1/11/2013
57	3121	2305-0328	2305-0327	SALT LAKE RR	Obstacle (debris); deposits (attached encrustation)	No access	1/11/2013
58	3100	2262-0573	2262-TRUN	EASEMENT	Obstacle (debris)	Hydrojet	1/9/2013
59	3100	2305-0711	2305-0710	EASEMENT	Roots (fine, connection)	Hydrojet	1/9/2013
60	3114	2348-0015	2348-0012	FAIRWAY DR	Roots (medium)	Hydrojet	5/16/2013
61	3111	2262-0532	2262-0594	EASEMENT	Deposits (attached)	Hydrojet	3/19/2012

CCTV PROJECT
Y0TV0910C

Industry

**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:

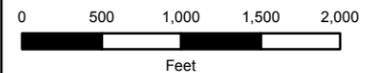
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0910C

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CCTV PROJECT
Y0TV0910C

Industry

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

QMR

- 1: MINOR
- 2: MINOR TO MODERATE
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- 5: MOST SIGNIFICANT

SMD Manholes

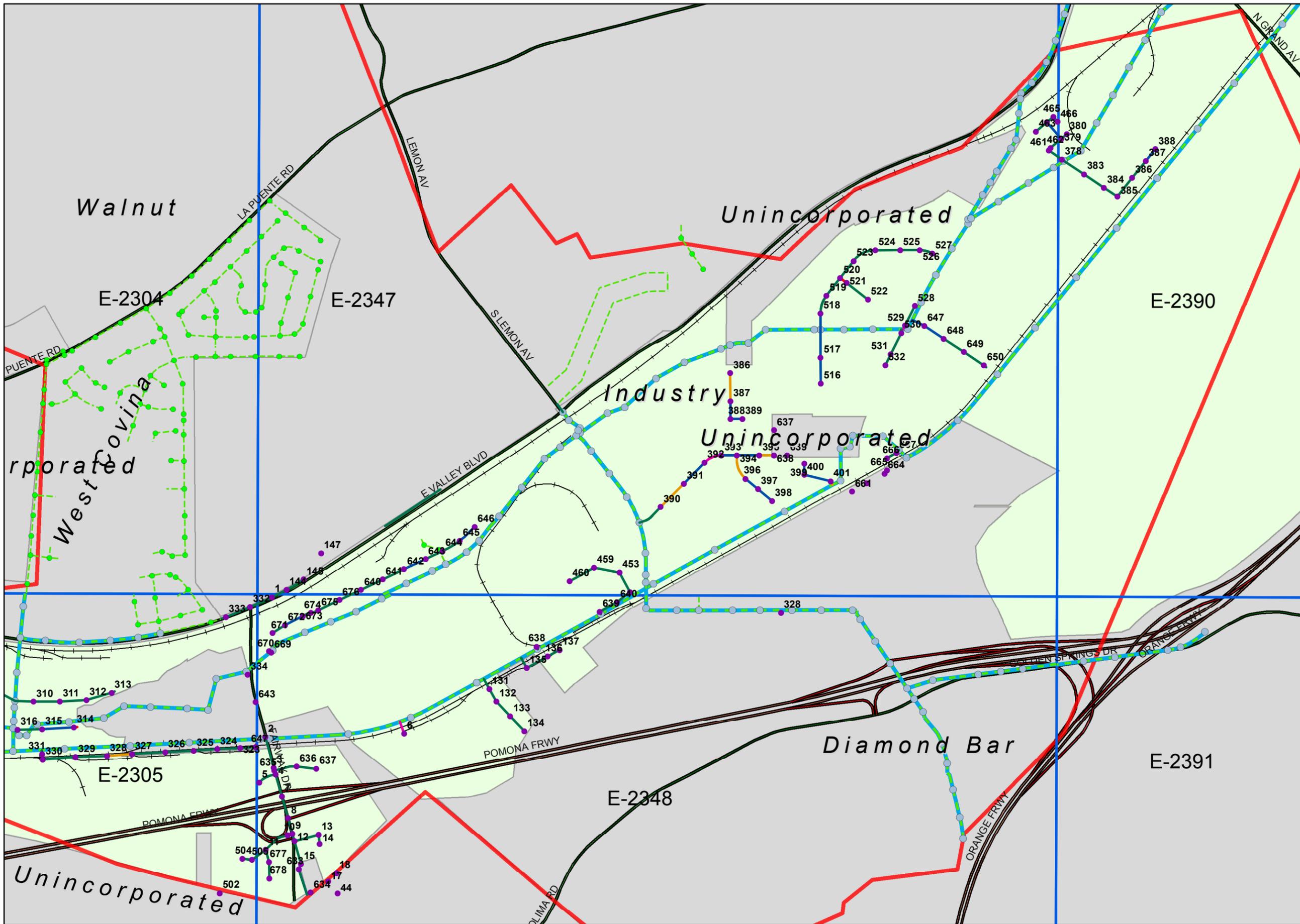
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Maintained by Others:

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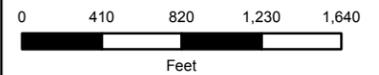
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JULY 2013



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

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION (CAPACITY): LOCATION	SAG (ft)
1	4L39	2305-0010	2305-0009	RAILROAD ST	Camera underwater (65%): 6'-45', 142'-220'	114
2	4E3J	2305-0009	2305-0008	EASEMENT	Camera underwater (50%): 6'-36', 86'-175', 232'-300'	187
3	4E3H	2305-0008	2305-0007	EASEMENT	Camera underwater (50%): 60'-100', 180'-250'	110
4	4600	2348-0006	2348-TRNK	EASEMENT	Camera underwater (75%): 6'-28'	22
5	453A	2347-0393	2347-0392	CURRIER RD	Camera underwater (50%): 139'-160'	21
6	443A	2305-0298	2305-0297	EASEMENT	Camera underwater (50%): 235'-260'	25
7	433A	2305-0297	2305-0296	EASEMENT	Camera underwater (40%): 305'-315'	10
8	412A	2262-0505	2262-0504	KEYSTONE ST	Camera underwater (50%): 160'-210'	50
9	4132	2305-0020	2305-0016	GALE AV	Camera underwater (50%): 240'-330'	90
10	3G00	2262-0484	2262-0482	CASTLETON ST	Water Level (45%): 190'-345'	155
11	3F25	2347-0395	2347-0638	CURRIER RD	Water Level (40%): 2'-40'	38
12	3600	2262-0056	2262-0056-A	EASEMENT	Water Level (50%): 0'-25'	25
13	3500	2305-0018	2305-0016	JELICK AV	Water Level (50%): 180'-210'	30
14	3400	2347-0401	2347-TRNK	EASEMENT	Water Level (50%): 0'-15'	15



Legend

— HIGH WATER LEVEL

SMD Manholes

⊕ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

P SMD Pump Stations

WTP SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

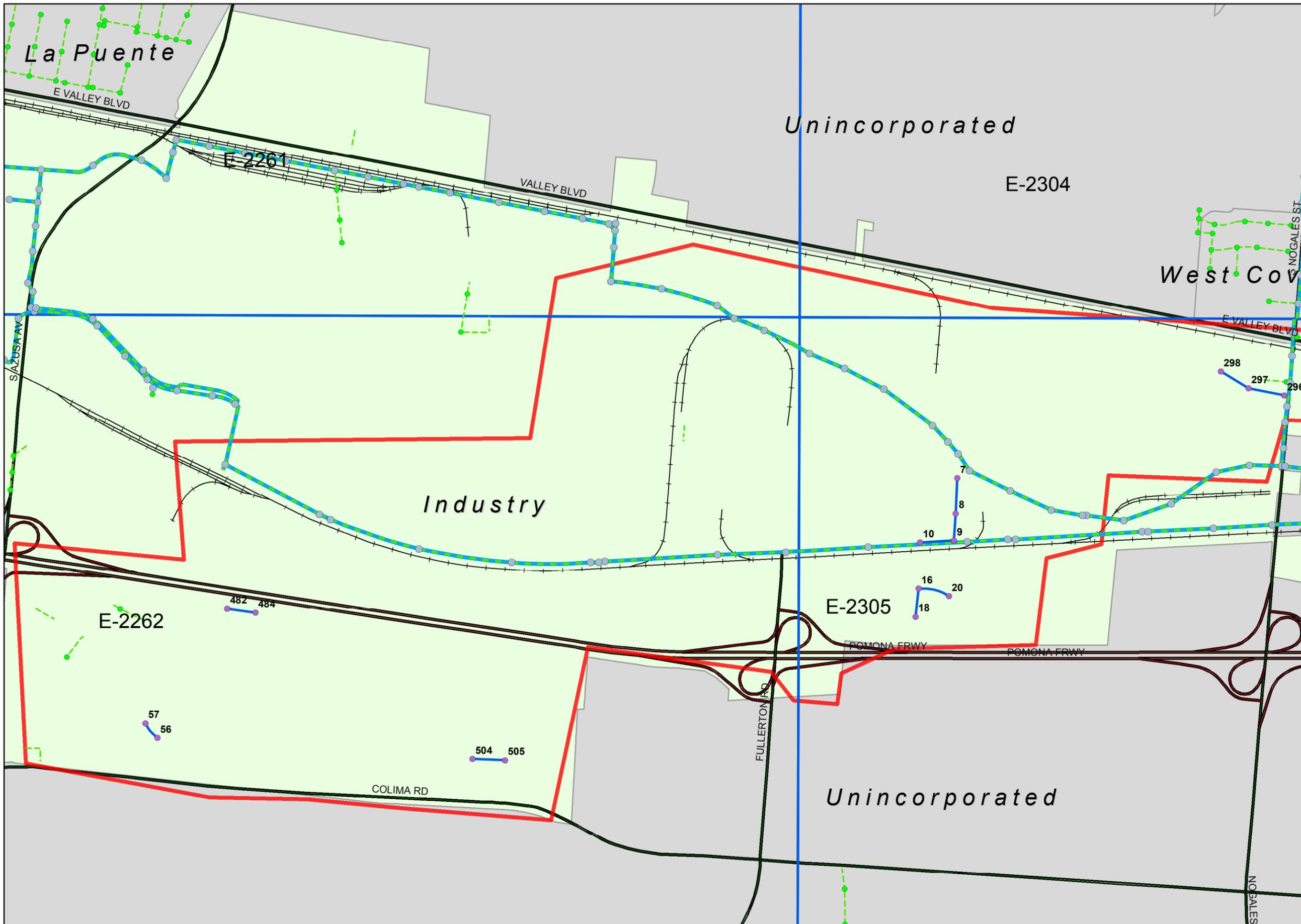
- - - Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

□ Y0TV0910C

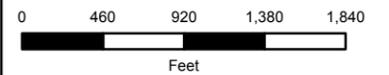
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CCTV PROJECT
Y0TV0910C

Industry

HIGH WATER LEVEL



Legend

— HIGH WATER LEVEL

SMD Manholes

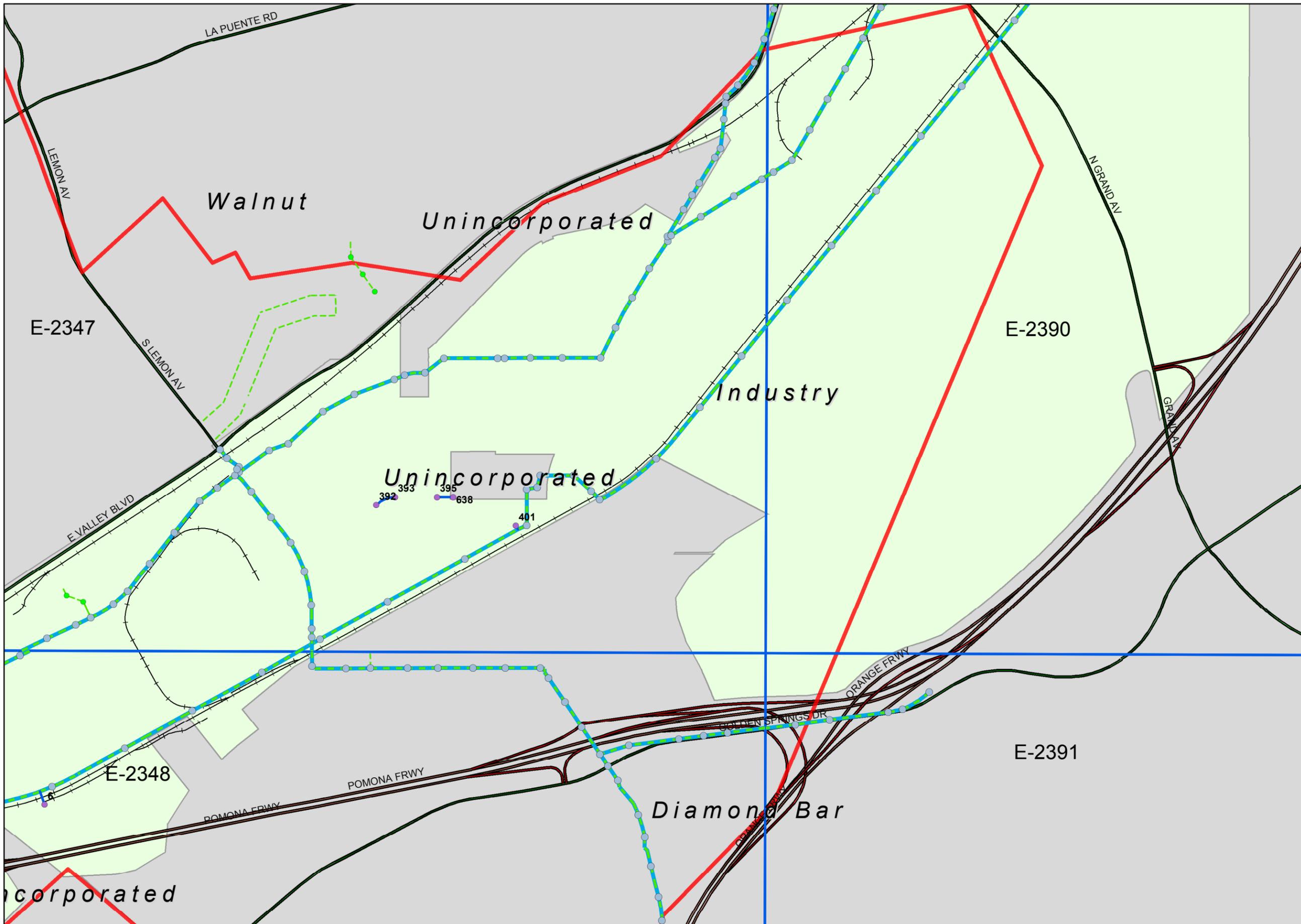
- ⊙ Other
- Manhole Type**
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- P** SMD Pump Stations
- WTP** SMD Treatment Plants

Maintained by Others:

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

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JULY 2013





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

RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division

XX:

Enc.

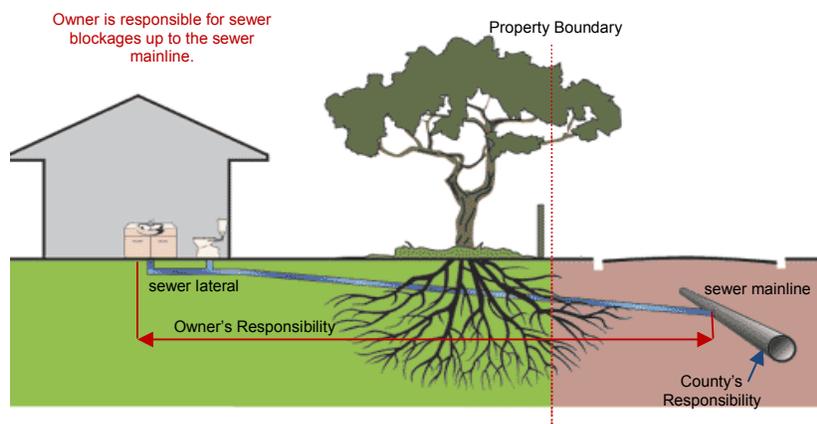
XXXX
Roots at Lateral Connection



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
- Rehabilitation Projects Map

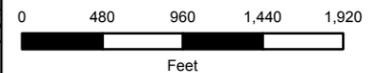
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF INDUSTRY (Y0TV0910C)
as of 01/27/2011

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE ACTION
1	5200	2262-0565	2262-0514	EASEMENT	Broken/hole with exterior patch: 2'	Structural integrity intact. No action needed.
2	5200	2305-0006	2305-TRNK	FULLERTON RD	Hole: 8'	Structural integrity intact. No action needed.
3	5141	2347-0395	2347-0638	CURRIER RD	Broken with concrete patch: 40', 176'	Structural integrity intact. No action needed.
4	5141	2305-0017	2305-0010	JELICK AV	Fractures: 311'	Structural integrity intact. No action needed.
5	513C	2262-0054	2262-0053	EASEMENT	Fracture: 77'	Structural integrity intact. No action needed.
6	5132	2347-0387	2347-0386	EASEMENT	Broken: 1'	Structural integrity intact. No action needed.
7	5131	2305-0019	2305-0018	JELICK AV	Broken: 36'	Structural integrity intact. No action needed.
8	5131	2262-0060	2262-0061	EASEMENT	Broken/hole: 95'	Point Repair: 95' (wye connection)
9	5131	2262-0042	2262-0044	EASEMENT	Fractures: 38', 119'	Structural integrity intact. No action needed.
10	5111	2305-0505	2305-0504	EASEMENT	Broken: 28'	Structural integrity intact. No action needed.
11	5100	2262-0489	2262-0488	EASEMENT	Broken: 78'	Structural integrity intact. No action needed.
12	5100	2262-0040	2262-0039	EASEMENT	Broken: 65'	Structural integrity intact. No action needed.
13	4125	2347-0388	2347-0387	EASEMENT	Fracture: 1', 217'	Structural integrity intact. No action needed.
14	4100	2348-0131	2348-TRNK	EASEMENT	Broken: 19'	Structural integrity intact. No action needed.
15	4100	2305-0003	2305-0004	ARENTH AV	Fractures: 38'	Structural integrity intact. No action needed.
16	4100	2262-0534	2262-TRNK	FULLERTON RD	Fracture: 10'	Structural integrity intact. No action needed.

CCTV PROJECT
Y0TV0910C

Industry

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

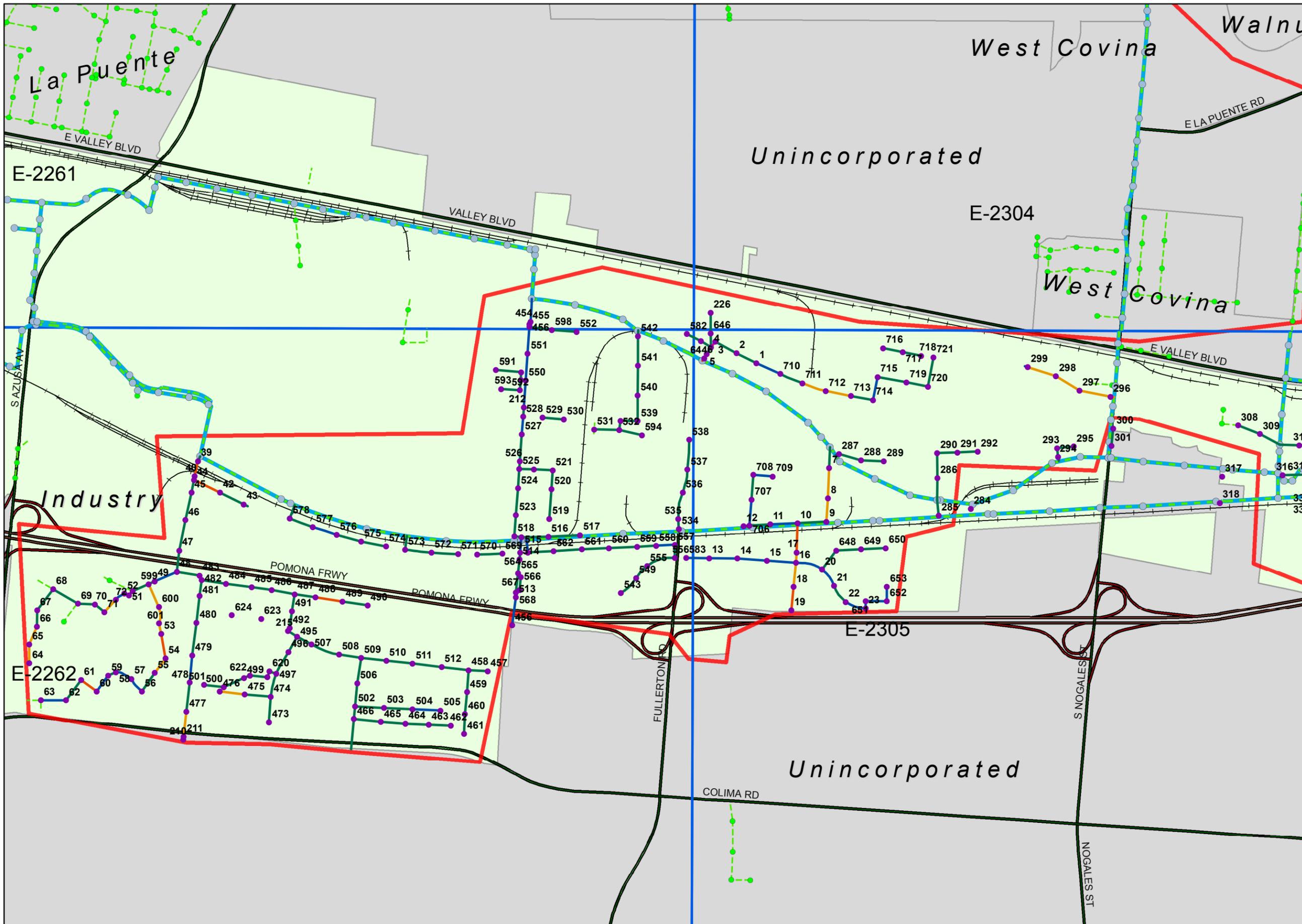
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

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

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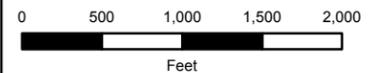
JULY 2013



CCTV PROJECT
Y0TV0910C

Industry

**QUICK
STRUCTURAL
RATING
(QSR)**



Legend

SMD Sanitary Sewers

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

SMD Manholes

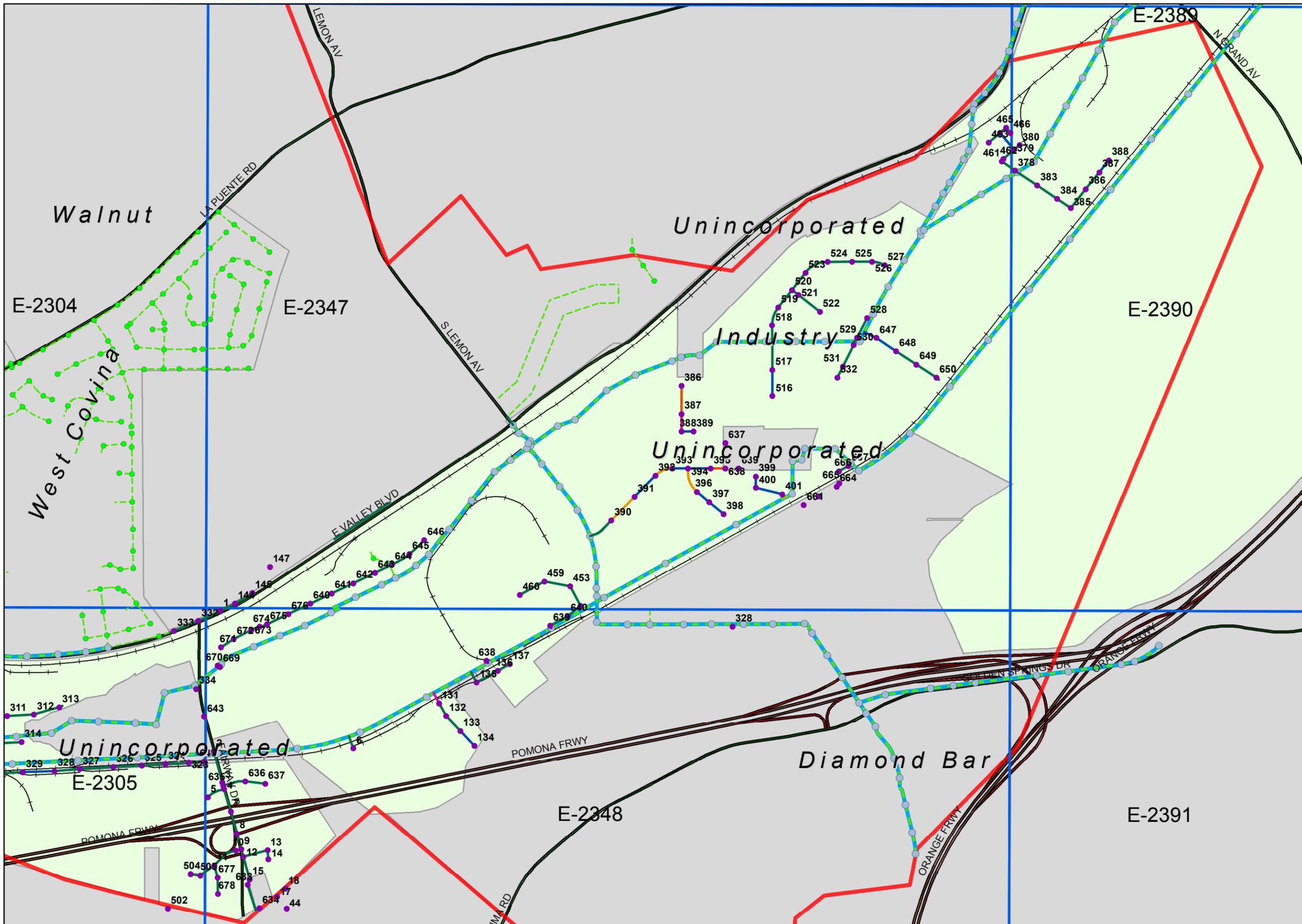
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

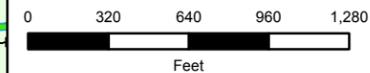
Maintained by Others:

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

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JULY 2013





Legend

Point Repair

SMD Manholes

Other

Manhole Type

Standard

DROP

Shallow

Trap

Siphon

SMD Pump Stations

SMD Treatment Plants

Maintained by Others:

Trunk Sewerlines

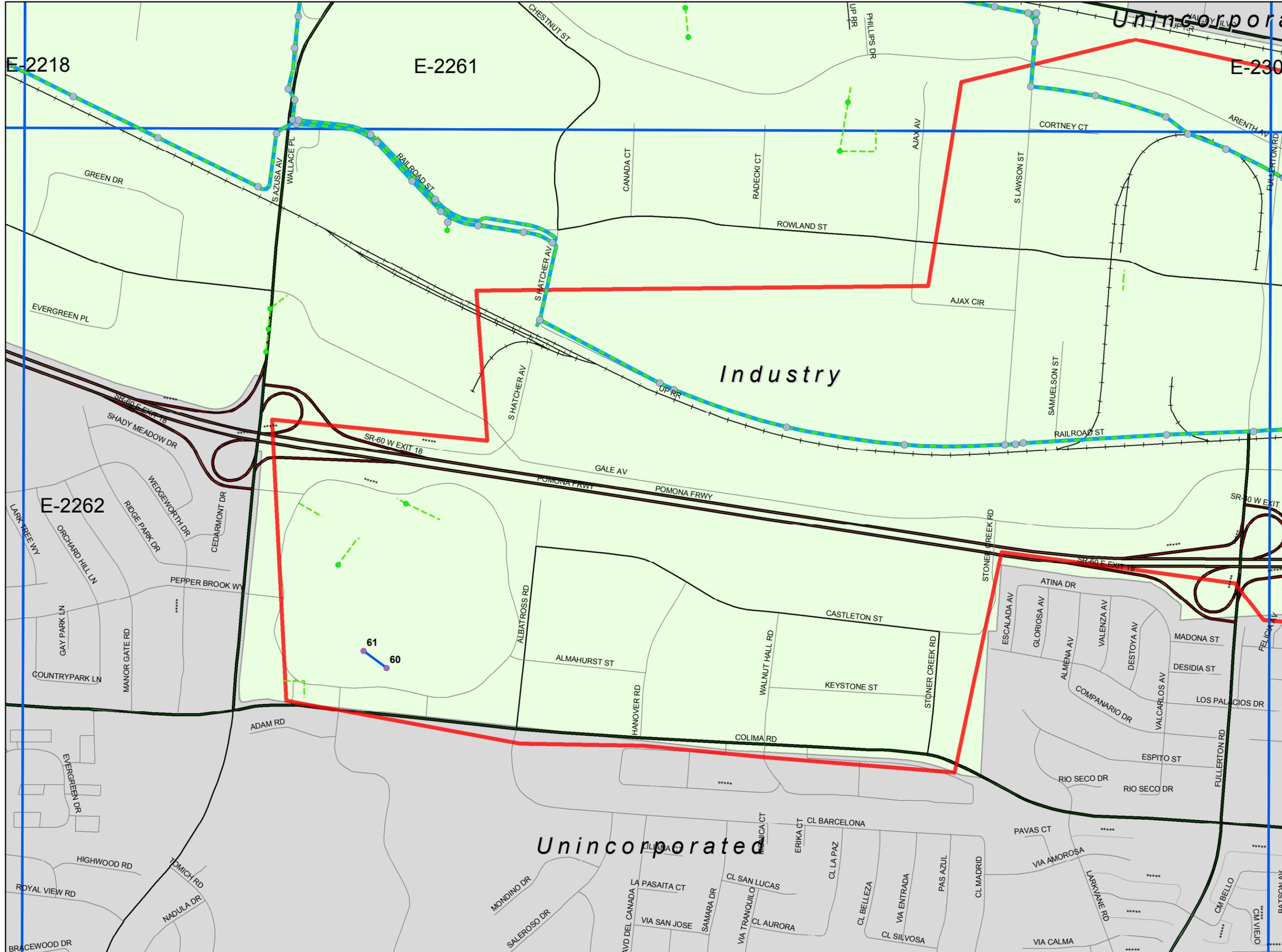
Non SMD Sanitary Sewers

Non SMD Maintained MH

SMD Operations Maps

Y0TV0910C

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ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20101103	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 1970	PSR: 0
Total Pipe Length: 161.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 11/02/2010	Pre-Cleaned: Jetting	Map Grid #: 2262

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2262-0565
City: IND	Year Renewed:	End MH: 2262-0514
Location Code: Light Highway	Tape/Media #: M315-043	pipe length: 176.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 18"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0565/2262-0514/2262	Lining Method:
	Category:

Remark::

1:400	position	observation	grade
			0 FT // 00:00:33
			2 FT // 00:01:13
			2 FT // 00:01:13
			2 FT // 00:01:27
			2 FT // 00:01:27
	0.00	Manhole, within 8 inch: NO, Remarks: 2262-0565 BURIED MANHOLE	
	2.00	Broken Soil Visible, from 10 to 2 o'clock, within 8 inch: NO	S 5
	2.00	Hole Soil Visible, from 10 to 2 o'clock, within 8 inch: NO	S 5
	2.00	Water Level, 25 %, within 8 inch: NO	M 2
	13.40	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	
	18.40	Tap Factory Capped, at 2 o'clock, 6", within 8 inch: NO	
	74.40	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	
	115.50	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	
	120.70	Tap Factory Capped, at 2 o'clock, 6", within 8 inch: NO	
	176.30	Manhole, within 8 inch: NO, Remarks: 2262-0514	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	2100	10	2	12	5	2	4



Inspection report

Date: 20101103	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 1958	PSR: 99560
Total Pipe Length: 29.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 11/02/2010	Pre-Cleaned: Jetting	Map Grid #: 2262

Street: FULLERTON RD	Flow Control: Not Controlled	Start MH: 2262-0534
City: IND	Year Renewed:	End MH: 2262-TRNK
Location Code: Light Highway	Tape/Media #: M315-043	pipe length: 11.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0534/2262-TRNK/2262	Lining Method:
	Category:

Remark::

1:50	position	observation	grade
			0 FT // 00:00:28
			0 FT // 00:00:34
			1.4 FT // 00:00:45
			10.8 FT // 00:02:58
			10.8 FT // 00:02:58
	2262-0534	Manhole, within 8 inch: NO, Remarks: 2262-0534	
	0.00		
	0.00	Vermin Cockroach, within 8 inch: NO	M 1
	1.40	Water Level, 10 %, within 8 inch: NO	M 2
	10.80	Fracture Multiple, from 2 to 10 o'clock, within 8 inch: YES	S 4
	2262-TRNK	Manhole, within 8 inch: NO, Remarks: 2262-TRNK	
	11.80		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2111	4	3	7	4	1.5	2.33



Inspection report

Date: 20101104	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 1991	PSR: 96951
Total Pipe Length: 29.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 11/02/2010	Pre-Cleaned: Jetting	Map Grid #: 2305

Street: FULLERTON RD	Flow Control: Not Controlled	Start MH: 2305-0006
City: IND	Year Renewed:	End MH: 2305-TRNK
Location Code: Light Highway	Tape/Media #: M315-044	pipe length: 9.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0006/2305-TRNK/2305	Lining Method:
	Category:

Remark::

1:25	position	observation	grade
			0 FT // 00:00:20 0 FT // 00:00:25 6 FT // 00:01:48 8.2 FT // 00:02:28 8.2 FT // 00:02:28
	0.00	Manhole, within 8 inch: NO, Remarks: 2305-0006	
	0.00	Vermin Cockroach, within 8 inch: NO	M 1
	6.00	Water Level, 5 %, within 8 inch: NO	M 2
	8.20	Obstacle Intruding Thru Wall, from 9 to 11 o'clock, 15 %, within 8 inch: NO	M 3
	8.20	Hole Soil Visible, from 9 to 11 o'clock, within 8 inch: NO	S 5
	8.20	Broken Soil Visible, from 9 to 11 o'clock, within 8 inch: NO	S 5
	9.70	Vermin Cockroach, within 8 inch: NO	M 1
	9.70	Manhole, within 8 inch: NO, Remarks: 2305-TRNK	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	3121	10	7	17	5	1.75	2.83



Inspection report

Date: 20101011	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1090	PSR: 672499
Total Pipe Length: 177.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/11/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: CURRIER RD	Flow Control: Not Controlled	Start MH: 2347-0395
City: IND	Year Renewed:	End MH: 2347-0638
Location Code: Main Highway - Suburban/Rural	Tape/Media #: G312-012	pipe length: 181 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0395/2347-0638/2347	Lining Method:
	Category:

Remark::

1:425	position	observation	grade
2347			
		0 FT // 00:00:35	
		0 FT // 00:00:43	
		2.7 FT // 00:00:56	
		2.7 FT // 00:00:56	
		16.8 FT // 00:01:29	
	0.00	Manhole, within 8 inch: NO, Remarks: 2347-0395	
	0.00	Water Level, 15 %, within 8 inch: NO	M 2
	2.70 S1	Water Level Sag, 25 %, within 8 inch: NO, Start	M 2
	16.80	Water Level, 40 %, within 8 inch: NO	M 2
	23.00 F1	Water Level Sag, 25 %, within 8 inch: NO, End	M 2
	23.00	Water Level, 15 %, within 8 inch: NO	M 2
	40.00	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	
	40.00	Repair Patch, from 7 to 9 o'clock, within 8 inch: NO, Remarks: CEMENT PATCH	
	43.20 S2	Water Level Sag, 35 %, within 8 inch: NO, Start	M 3
	176.20	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	176.40	Broken Soil Visible, from 1 to 8 o'clock, within 8 inch: YES	S 5
	177.00 F2	Water Level Sag, 35 %, within 8 inch: NO, End	M 3
	177.00	Water Level, 15 %, within 8 inch: NO	M 2
	181.00	Manhole, within 8 inch: NO, Remarks: 2347-0638	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	3226	9	18	27	4.5	2.25	2.7



Inspection report

Date: 20101027	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 2059	PSR: 96957
Total Pipe Length: 345.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/26/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: JELICK AV	Flow Control: Not Controlled	Start MH: 2305-0017
City: IND	Year Renewed	End MH: 2305-0010
Location Code: Easement/Right of Way	Tape/Media #: G312-022	pipe length: 335.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 18"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0010/2305-0017/2305	Lining Method:
	Category:

Remark::

1:750	position	observation	grade
2305			
			0 FT // 00:00:38 0 FT // 00:00:48 23.8 FT // 00:01:43 29.1 FT // 00:02:08 127 FT // 00:04:28
	2305-0017 0.00	Manhole, within 8 inch: NO, Remarks: 2305-0017	
	0.00	Water Level, 20 %, within 8 inch: NO	M 2
	23.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	29.10	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	127.00	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	
	127.00	Crack Circumferential, from 3 to 6 o'clock, within 8 inch: NO	S 1
	128.00	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	132.60	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	310.60	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	S 3
	311.30 S1	Broken, from 2 to 5 o'clock, within 8 inch: YES, Start	S 4
	313.40	Fracture Multiple, from 3 to 5 o'clock, within 8 inch: YES	S 4
	315.90 F1	Broken, from 2 to 5 o'clock, within 8 inch: YES, End	S 4
	2305-0010 335.50	Manhole, within 8 inch: NO, Remarks: 2305-0010	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4331	2100	16	2	18	3.2	2	3



Inspection report

Date: 20101029	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 2081	PSR: 99952
Total Pipe Length: 296.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/28/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2262-0054
City: IND	Year Renewed:	End MH: 2262-0053
Location Code: Parking Lot	Tape/Media #: G312-024	pipe length: 298.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0053/2262-0054/2262	Lining Method:
	Category:

Remark::

1:675	position	observation	grade
	2262		
			0 FT // 00:00:21
			4.5 FT // 00:03:32
			4.5 FT // 00:03:32
			21.2 FT // 00:04:44
			21.2 FT // 00:04:53
	2262-0054 0.00	Manhole, within 8 inch: NO, Remarks: 2262-0054	
	4.50 S1	Water Level Sag, 40 %, within 8 inch: NO, Start	M 3
	21.20 F1	Water Level Sag, 40 %, within 8 inch: NO, End	M 3
	21.20	Water Level, 15 %, within 8 inch: NO	M 2
	77.40	Broken, from 6 to 9 o'clock, within 8 inch: YES	S 4
	155.50 S2	Water Level Sag, 35 %, within 8 inch: NO, Start	M 3
	167.70 F2	Water Level Sag, 35 %, within 8 inch: NO, End	M 3
	167.70	Water Level, 15 %, within 8 inch: NO	M 2
	227.20 S3	Water Level Sag, 35 %, within 8 inch: NO, Start	M 3
	279.70 F3	Water Level Sag, 35 %, within 8 inch: NO, End	M 3
	279.70	Water Level, 15 %, within 8 inch: NO	M 2
	2262-0053 298.20	Manhole, within 8 inch: NO, Remarks: 2262-0053	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3623	4	24	28	4	2.67	2.8



Inspection report

Date: 20101011	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1083	PSR: 92064
Total Pipe Length: 350.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/08/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2347-0387
City: IND	Year Renewed:	End MH: 2347-0386
Location Code: Easement/Right of Way	Tape/Media #: G312-012	pipe length: 356.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0386/2347-0387/2347	Lining Method:
	Category:

Remark::

1:800	position	observation	grade
2347			
			0 FT // 00:00:33
			0 FT // 00:00:44
			0 FT // 00:00:44
			0.9 FT // 00:01:15
			0.9 FT // 00:01:15
	0.00	Manhole, within 8 inch: NO, Remarks: 2347-0387	
	0.00 S1	Water Level Sag, 35 %, within 8 inch: NO, Start	M 3
	0.90	Broken Void Visible, from 7 to 6 o'clock, within 8 inch: NO	S 5
	0.90	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	S 3
	4.30	Joint Offset Medium, within 8 inch: YES	S 1
	5.80 F1	Water Level Sag, 35 %, within 8 inch: NO, End	M 3
	5.80	Water Level, 15 %, within 8 inch: NO	M 2
	17.90	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	20.60	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	130.40	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	
	230.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	285.30 S2	Water Level Sag, 30 %, within 8 inch: NO, Start	M 2
	294.20 F2	Water Level Sag, 30 %, within 8 inch: NO, End	M 2
	294.20	Water Level, 10 %, within 8 inch: NO	M 2
	331.60	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	356.40	Vermin Cockroach, within 8 inch: NO	M 1
	356.40	Manhole, within 8 inch: NO, Remarks: 2347-0386	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	3224	9	15	24	3	2.14	2.4



Inspection report

Date: 20101027	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 2060	PSR: 96839
Total Pipe Length: 278.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/26/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: JELLYCK AV	Flow Control: Not Controlled	Start MH: 2305-0019
City: IND	Year Renewed	End MH: 2305-0018
Location Code: Light Highway	Tape/Media #: G312-022	pipe length: 355.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 15"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0018/2305-0019/2305	Lining Method:
	Category:

Remark::

1:800	position	observation	grade
2305			
			0 FT // 00:00:26
			6 FT // 00:02:24
			6 FT // 00:02:24
			6 FT // 00:02:40
			22.4 FT // 00:03:13
	2305-0019 0.00	Manhole, within 8 inch: NO, Remarks: 2305-0019	
	6.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3
	6.00	Water Level, 20 %, within 8 inch: NO	M 2
	22.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	27.20	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	36.70	Broken, from 9 to 11 o'clock, within 8 inch: YES	S 4
	73.80	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	S 2
	75.10	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	
	125.10	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	130.40	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	222.70	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	228.30	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	275.10	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	
	326.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	332.20	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	348.40	General Observation, within 8 inch: NO, Remarks: JOINT LENGTH 6'	
	2305-0018 355.50	Manhole, within 8 inch: NO, Remarks: 2305-0018	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2100	9	2	11	3	2	2.75



Inspection report

Date: 20101029	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 2073	PSR: 99960
Total Pipe Length: 230.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/28/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2262-0060
City: IND	Year Renewed:	End MH: 2262-0061
Location Code: Parking Lot	Tape/Media #: G312-024	pipe length: 231.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0060/2262-0061/2262	Lining Method:
	Category:

Remark::

1:525	position	observation	grade
			0 FT // 00:00:22 5 FT // 00:01:38 65.6 FT // 00:03:04 89.9 FT // 00:03:48 89.9 FT // 00:03:48
	2262		
	2262-0060	Manhole, within 8 inch: NO, Remarks: 2262-0060	
	0.00		
	5.00	Water Level, 15 %, within 8 inch: NO	M 2
	65.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	89.90	Water Level Sag, 25 %, within 8 inch: NO, Start	M 2
	95.00	Joint Offset Large, within 8 inch: YES	S 2
	95.00	Roots Medium Joint, from 3 to 5 o'clock, 20 %, within 8 inch: YES	
	95.00	Broken, from 3 to 6 o'clock, within 8 inch: YES	S 4
	95.00	Deposits Ingressed Fine, from 5 to 7 o'clock, 10 %, within 8 inch: NO, Remarks: SAND FROM BROKEN PIPE	M 2
	96.20	Tap Factory Defective, at 3 o'clock, 6", 2, within 8 inch: NO	M 2
	96.20	Crack Multiple, from 4 to 5 o'clock, within 8 inch: NO	S 3
	97.00	Joint Offset Medium, within 8 inch: YES	S 1
	97.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	
	197.00	General Observation, within 8 inch: NO, Remarks: JOINT LENGTH 5'	
	209.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	220.50	Water Level Sag, 25 %, within 8 inch: NO, End	M 2
	220.50	Water Level, 15 %, within 8 inch: NO	M 2
	2262-0061	Manhole, within 8 inch: NO, Remarks: 2262-0061	
	231.40		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2600	10	12	22	2.5	2	2.2



Inspection report

Date: 20101103	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 2271	PSR: 100067
Total Pipe Length: 345.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 11/01/2010	Pre-Cleaned: Jetting	Map Grid #: 2262

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2262-0042
City: IND	Year Renewed	End MH: 2262-0044
Location Code: Easement/Right of Way	Tape/Media #: R311-054	pipe length: 345.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0042/2262-0044/2262	Lining Method:
	Category:

Remark::

1:775	position	observation	grade
			0 FT // 00:02:14
			7.7 FT // 00:00:47
			25.6 FT // 00:03:36
			38.2 FT // 00:04:22
			38.2 FT // 00:04:22
	2262-0042 — 0.00	Manhole, within 8 inch: NO, Remarks: 2262-0042	
	— 7.70	Water Level, 5 %, within 8 inch: NO	M 2
	— 25.60	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 6'	
	— 38.20	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	S 3
	— 45.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	— 45.40	Vermin Cockroach, within 8 inch: NO	M 1
	— 119.90	Broken, from 3 to 6 o'clock, within 8 inch: YES	S 4
	— 145.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	— 248.60	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	— 248.60	Vermin Cockroach, within 8 inch: NO	M 1
	2262-0044 — 345.70	Manhole, within 8 inch: NO, Remarks: 2262-0040-Note This Is Mh	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2112	7	4	11	3.5	1.33	2.2



Inspection report

Date: 20101111	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 2032	PSR: 96339
Total Pipe Length: 118.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 11/11/2010	Pre-Cleaned: Jetting	Map Grid #: 2305

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2305-0505
City: IND	Year Renewed	End MH: 2305-0504
Location Code: Light Highway	Tape/Media #: M315-048	pipe length: 117.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 10"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0504/2305-0505/2305	Lining Method:
	Category:

Remark::

1:275	position	observation	grade
			0 FT // 00:00:18 0 FT // 00:00:26 6 FT // 00:01:20 28.3 FT // 00:05:26 28.3 FT // 00:05:26
	0.00	Manhole, within 8 inch: NO, Remarks: 2305-0505	
	0.00	Vermin Cockroach, within 8 inch: NO	M 1
	6.00	Water Level, 10 %, within 8 inch: NO	M 2
	28.30	Broken Void Visible, from 9 to 4 o'clock, within 8 inch: YES	S 5
	28.30	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	S 1
	103.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	111.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	117.50	Vermin Cockroach, within 8 inch: NO	M 1
	117.50	Manhole, within 8 inch: NO, Remarks: 2305-0504	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5111	2112	6	4	10	3	1.33	2



Inspection report

Date: 20101101	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 2247	PSR: 99515
Total Pipe Length: 300.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/29/2010	Pre-Cleaned: Jetting	Map Grid #: 2262

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2262-0489
City: IND	Year Renewed	End MH: 2262-0488
Location Code: Easement/Right of Way	Tape/Media #: R311-052	pipe length: 300.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0488/2262-0489/2262	Lining Method:
	Category:

Remark::

1:675	position	observation	grade
			0 FT // 00:00:28
			4.8 FT // 00:00:56
			9.3 FT // 00:01:40
			27.5 FT // 00:02:27
			78.9 FT // 00:04:50
	0.00	Manhole, within 8 inch: NO, Remarks: 2262-0489	
	4.80	Water Level, 5 %, within 8 inch: NO	M 2
	9.30	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 5'	
	27.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	78.90	Broken, from 10 to 4 o'clock, within 8 inch: YES, Remarks: Broken Joint	S 5
	130.30	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	
	233.60	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	300.20	Vermin Cockroach, within 8 inch: NO	M 1
	300.20	Manhole, within 8 inch: NO, Remarks: 2262-0488	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2111	5	3	8	5	1.5	2.67



Inspection report

Date: 20101103	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 2276	PSR: 100061
Total Pipe Length: 202.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 11/01/2010	Pre-Cleaned: Jetting	Map Grid #: 2262

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2262-0040
City: IND	Year Renewed	End MH: 2262-0039
Location Code: Easement/Right of Way	Tape/Media #: R311-054	pipe length: 206.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 18"/18"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0039/2262-0040/2262	Lining Method:
	Category:

Remark::

1:475	position	observation	grade
			0 FT // 00:00:23 3.6 FT // 00:00:43 9.6 FT // 00:01:10 65 FT // 00:05:22 65 FT // 00:05:22
	0.00	Manhole, within 8 inch: NO, Remarks: 2262-0040	
	3.60	Water Level, 10 %, within 8 inch: NO	M 2
	9.60	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 6'	
	65.00	Broken, from 9 to 12 o'clock, within 8 inch: NO	S 4
	73.20 S1	Water Level Sag, 25 %, within 8 inch: NO, Start	M 2
	88.80 F1	Water Level Sag, 25 %, within 8 inch: NO, End	M 2
	88.80	Water Level, 15 %, within 8 inch: NO	M 2
	206.80	Manhole, within 8 inch: NO, Remarks: 2262-0039	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2400	4	8	12	4	2	2.4



Inspection report

Date: 20101011	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1082	PSR: 92066
Total Pipe Length: 220.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/08/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2347-0388
City: IND	Year Renewed:	End MH: 2347-0387
Location Code: Easement/Right of Way	Tape/Media #: G312-012	pipe length: 218.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0387/2347-0388/2347	Lining Method:
	Category:

Remark::

1:500	position	observation	grade
			0 FT // 00:00:35 1 FT // 00:01:20 1 FT // 00:01:20 2 FT // 00:01:56 2 FT // 00:01:56
	2347		
	2347-0388		
	0.00	Manhole, within 8 inch: NO, Remarks: 2347-0388	
	1.00	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	2.00	Joint Offset Medium, within 8 inch: YES	S 1
	58.90	Water Level, 10 %, within 8 inch: NO, Remarks: FLOW HELD BY TISSUE DEBRI	M 2
	112.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	
	114.90	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	144.20	Joint Offset Medium, within 8 inch: YES	S 1
	145.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	145.80	Joint Offset Medium, within 8 inch: YES	S 1
	166.40	Water Level Sag, 30 %, within 8 inch: NO, Start	M 2
	184.10	Water Level Sag, 30 %, within 8 inch: NO, End	M 2
	184.10	Water Level, 10 %, within 8 inch: NO	M 2
	188.90	General Observation, within 8 inch: NO, Remarks: JOINT LENGTH 5'	
	217.20	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	S 2
	218.50	Vermin Cockroach, within 8 inch: NO	M 1
	2347-0387		
	218.50	Manhole, within 8 inch: NO, Remarks: 2347-0387	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2411	9	9	18	1.8	1.8	1.8



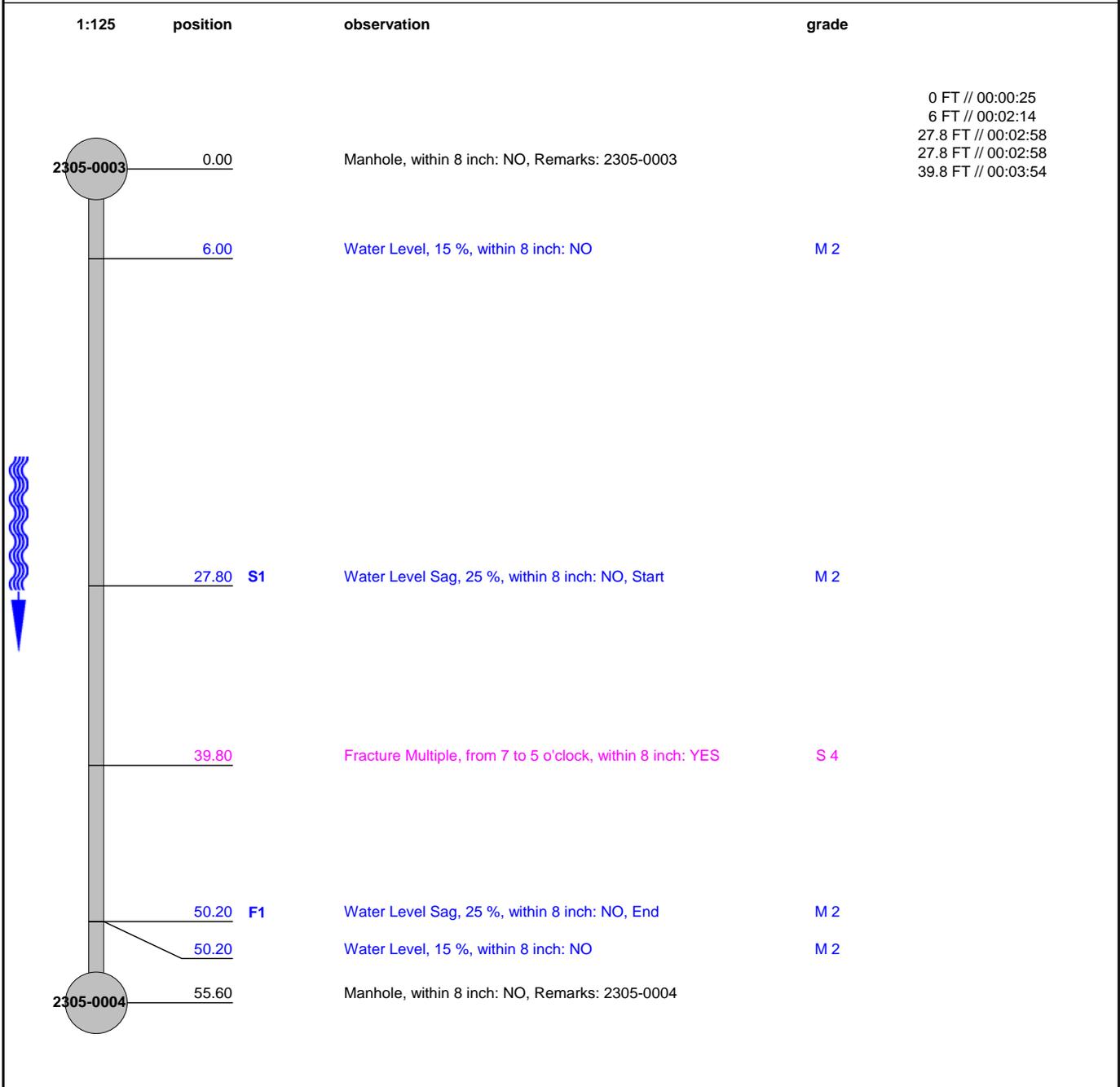
Inspection report

Date: 20101026	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1507	PSR: 96947
Total Pipe Length: 74.00	Survey Customer: LACDPW	System Owner: IND	Clean Date: 10/25/2010	Pre-Cleaned: Jetting	Map Grid #: 2305

Street: ARENTH AV	Flow Control: Not Controlled	Start MH: 2305-0003
City: IND	Year Renewed	End MH: 2305-0004
Location Code: Light Highway	Tape/Media #: G315-021	pipe length: 55.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 10"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0003/2305-0004/2305	Lining Method:
	Category:

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2400	4	8	12	4	2	2.4