



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

March 14, 2016

IN REPLY PLEASE

REFER TO FILE

SM-1

Mr. Mark R. Alexander, City Manager  
City of La Cañada Flintridge  
1327 Foothill Boulevard  
La Cañada Flintridge, CA 91011-2137

Attention Ms. Tania Moreno

Dear Mr. Alexander:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT  
CONDITION ASSESSMENT PROGRAM REPORT  
CITY OF LA CAÑADA FLINTRIDGE**

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 is transmitting a Condition Assessment Report for 83,659 feet or 30.6 percent of the City of La Cañada Flintridge's sewer system.

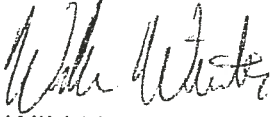
The enclosed Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8, System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance cleaning schedule for continued monitoring. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair or replacement as part of our ongoing Accumulative Capital Outlay Project.

Mr. Mark R. Alexander  
March 14, 2016  
Page 2

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



WILLIAM J. WINTER  
Assistant Deputy Director  
Sewer Maintenance Division

CK:lb

H:\SMHOME\LBADILLA\2016\LETTERS & MEMOS\390 DOCX

Enc.

bc: Programs Development (Derakhshani), RS, FV, FILE (Project Y0TV1112B), SPINDLE

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

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PROJECT NAME:	Y0TV1112B	PROJECT MGR:	Hanna Kebede
PROJECT DATE:	02/13/12	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(s):	5	MAP PAGE(S):	1796,1797,1851,1852
Report By:	Clement Khong	Report Date:	01/07/16

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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 (District) has completed the condition assessment of 83,659 feet or 30.6 percent of the City of La Cañada Flintridge's (City) entire sewer system.

The enclosed Condition Assessment 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, Quick Structural Rating Map, and Lining and Point Repair Map (Enclosure 3)

To date, the District has completed the condition assessment of 174,362 feet or 63.7 percent of the City's sewer system. Previous condition assessment reports dated April 9, 2009, and April 4, 2013, have been provided to your City. A copy of these reports can also be found at the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. We anticipate completing the Condition Assessment Report of the remaining 36.3 percent of the City's sewer system by April 2016.

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

## **PROJECT AREA AND DESCRIPTION**

Project No. Y0TV1112B included sewer lines located in the unincorporated County of Los Angeles and the Cities of Bradbury, Duarte, Industry, La Cañada Flintridge, Temple City, and San Dimas. 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 legend 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 94.7 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 5.3 percent of the pipe segments within the City had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating table shown on page 3. These segments have been incorporated into an enhanced cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

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 OF TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	63,163	75.5	323
2: Minor to Moderate	16,062	19.2	82
3: Moderate	1,757	2.1	9
4: Significant	1,924	2.3	10
5: Most Significant	753	0.9	4
TOTAL	83,659	100.0	428

#### ***Lateral Notices***

Also included on the Quick Maintenance Rating Report Priority List are private lateral deficiencies discovered during the inspection of 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. Letters will be sent to property owners in your City notifying them of the maintenance issues detected in their laterals. A sample lateral notice letter is provided in Enclosure 2 for your reference.

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

Our inspection revealed that approximately 98.8 percent of the system televised has adequate capacity. Approximately 1.2 percent of the segments inspected exhibited visual signs associated with high water levels. The capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which indicate the camera was underwater or there were sags in the line. A sewer pipe is considered at capacity when 50 percent of the diameter of the sewer pipe is full of water. However, there are conditions in which the Water Level or Water Mark reaches 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage caused by debris in the sewer lines, or a sag in the line. Therefore, additional review of these pipe segments was conducted to determine if any capacity issues exist.

All sewer pipes where the 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 segments in your City's system.

## STRUCTURAL REPORT

Our inspection revealed that approximately 96 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 4 percent of the inspected pipe segments had a PACP structural grade of 4 or 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 need for action. For items 1 through 7 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 also provided in Enclosure 3.

### QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT OF TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	61,963	74.1	327
2: Minor to Moderate	14,270	17.0	73
3: Moderate	4,105	4.9	21
4: Significant	2,148	2.6	6
5: Most Significant	1,173	1.4	1
TOTAL	83,659	100.0	428

## FUTURE PROJECTS

The Sewer Condition Assessment Program performed the condition assessment of the sewer lines within the City according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-06	Y0TV0506D	9,255	3.4	COMPLETED
2009-10	Y0TV0910C	81,448	29.8	COMPLETED
2011-12	Y0TV1112B	83,659	30.5	COMPLETED
2013-14	Y0TV1314B2	99,325	36.3	REPORT PENDING
TOTAL		273,687	100.0	

# ENCLOSURE 1:

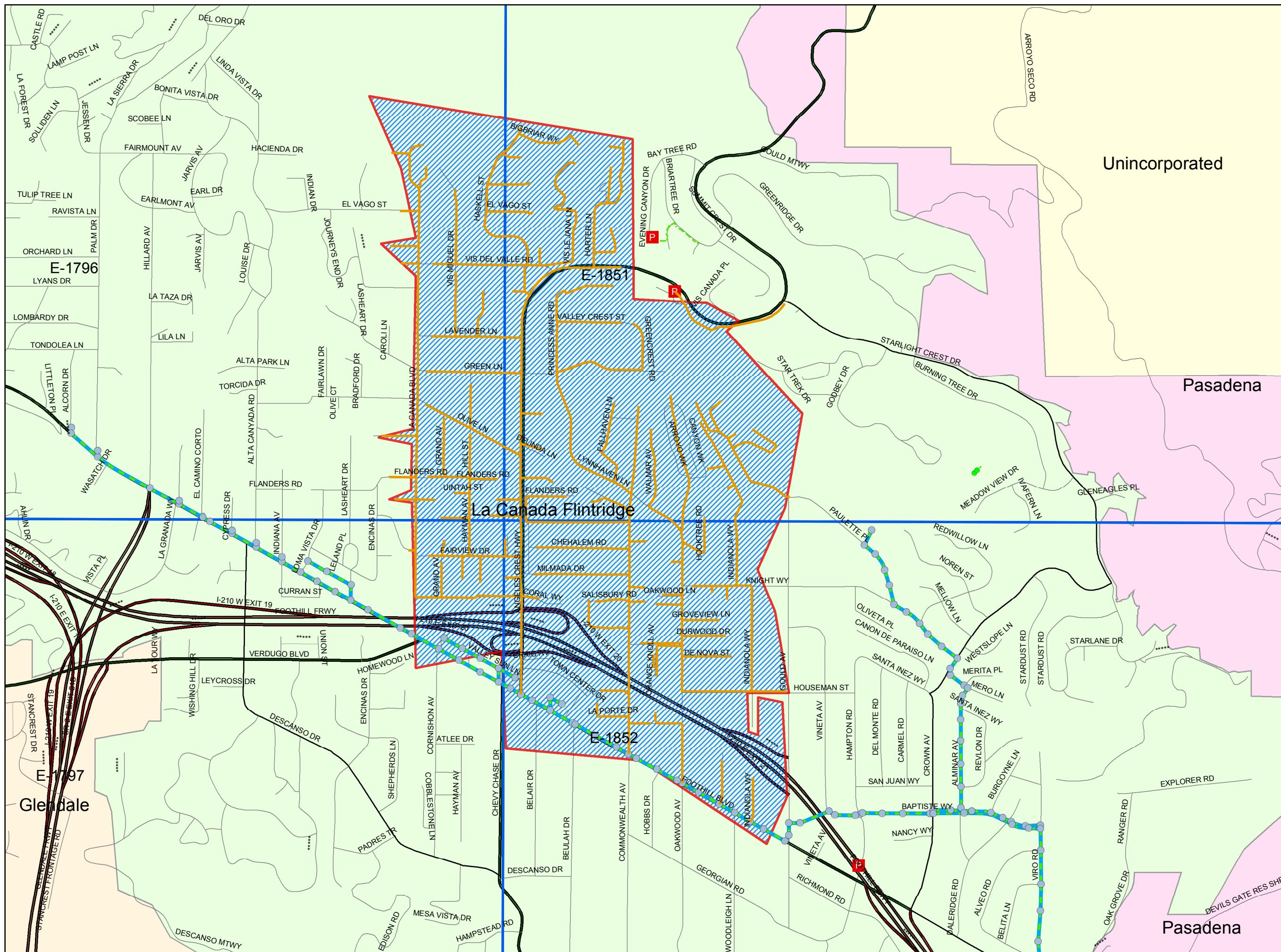
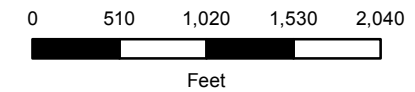
Project Overview Map



# OVERVIEW MAP

## CCTV PROJECT YOTV1112B

### CITY OF LA CAÑADA FLINTRIDGE



#### 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

▨ CCTV PROJECT AREA

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MARCH 2016



## ENCLOSURE 2:

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

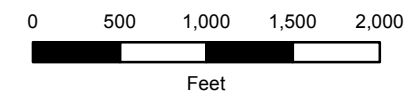
ENCLOSURE 2  
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST  
 CITY OF LA CAÑADA FLINTRIDGE (Y0TV1112B)  
 as of 02/13/2012

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
1	5141	1852-0424	1852-0423	PARKMAN DR	Water level: 10%; water mark: 80%	No action needed.	
2	5124	1852-0373	1852-0372	KNIGHT WY	Water level: 35%	No action needed.	
3	5100	1852-0414	1852-0356	OAKWOOD AVE	Water level: 35%	No action needed.	
4	4400	1852-0376	1852-TRNK	COMMONWEALTH AV	Water level: 25%-55%; camera underwater; high water level (sag)	Hydrojet	10/09/2013
5	4131	1852-0398	1852-0345	LA PORTE DR	Water level: 5%-10%; root ball; root ball lateral	Hydrojet; Lateral notice sent to property owner.	10/09/2013
6	4128	1852-0441	1852-0391	CHEHALEM RD.	Water level: 5%-20%	No action needed.	
7	4111	1851-0200	1851-0199	OAKWOOD AVE	Water level: 5%; root ball lateral	Lateral notice sent to property owner.	
8	4100	1852-0441	1852-0391	CHEHALEM RD.	Water level: 5%-10%	No action needed.	
9	4100	1852-0386	1852-0385	COMMONWEALTH AV	High water level	Hydrojet	10/09/2013
10	4100	1852-0377	1852-0376	COMMONWEALTH AV	High water level	Hydrojet	10/09/2013
11	4100	1852-0343	1852-TRNK	OAKWOOD AV	Water level: 5%; water mark: 40%	No action needed.	
12	4100	1852-0408	1852-0409	ORANGE KNOLL AV	Water level: 10%; water mark: 40%	No action needed.	
13	4100	1796-0061	1796-0060	LA CANADA BV	Water level: 10%; water mark: 20%	No action needed.	
14	4100	1852-0371	1852-0335	KNIGHT WAY	Water level: 5%; water mark: 40%	No action needed.	
15	3323	1851-0266	1851-0264	ANGELES CREST HWY.	Water level: 15%; medium roots	Hydrojet	10/09/2013
16	3121	1796-0075A	1796-0075	LA CANADA BLVD.	Roots	Hydrojet	10/09/2013
17	3100	1796-0051	1796-0050	VISTA MIGUEL DR	Roots	Hydrojet	10/09/2013
18	3100	1851-0289	1851-0288	HARTER LN.	Water level: 5%; Roots in lateral	Lateral notice sent to property owner.	
19	3100	1851-0337	1851-0190	FLOOD CONTROL R/W	Roots	Hydrojet	10/10/2013
20	3100	1852-0395	1852-0394	DURWOOD DR.	Water mark: 25%	No action needed.	
21	3100	1852-0394	1852-0351	DURWOOD DR.	Water level: 25%	No action needed.	
22	3100	1852-0361	1852-0362	HOUSEMAN ST	Water level: 10%; Water mark: 25%	No action needed.	

# ENCLOSURE 2 CCTV PROJECT Y0TV112B

**CITY OF  
LA CAÑADA  
FLINTRIDGE**

**QUICK  
MAINTENANCE  
RATING  
(QMR)**



### Legend

#### SMD Sanitary Sewers

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

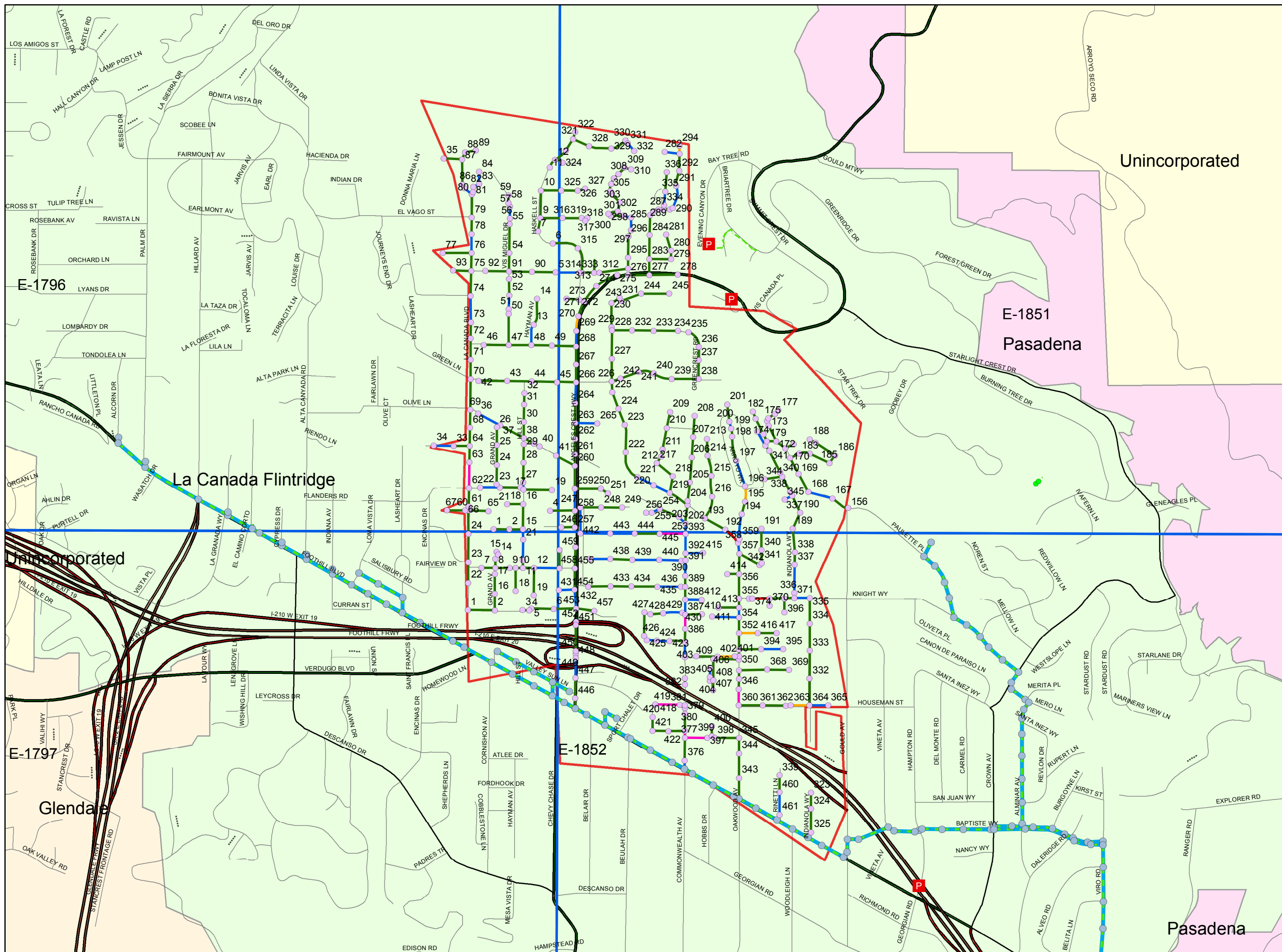
#### SMD Manholes

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

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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March 2016



**ENCLOSURE 2**  
**HIGH WATER LEVELS**  
**CITY OF LA CAÑADA FLINTRIDGE (Y0TV1112B)**  
as of 2/13/2012

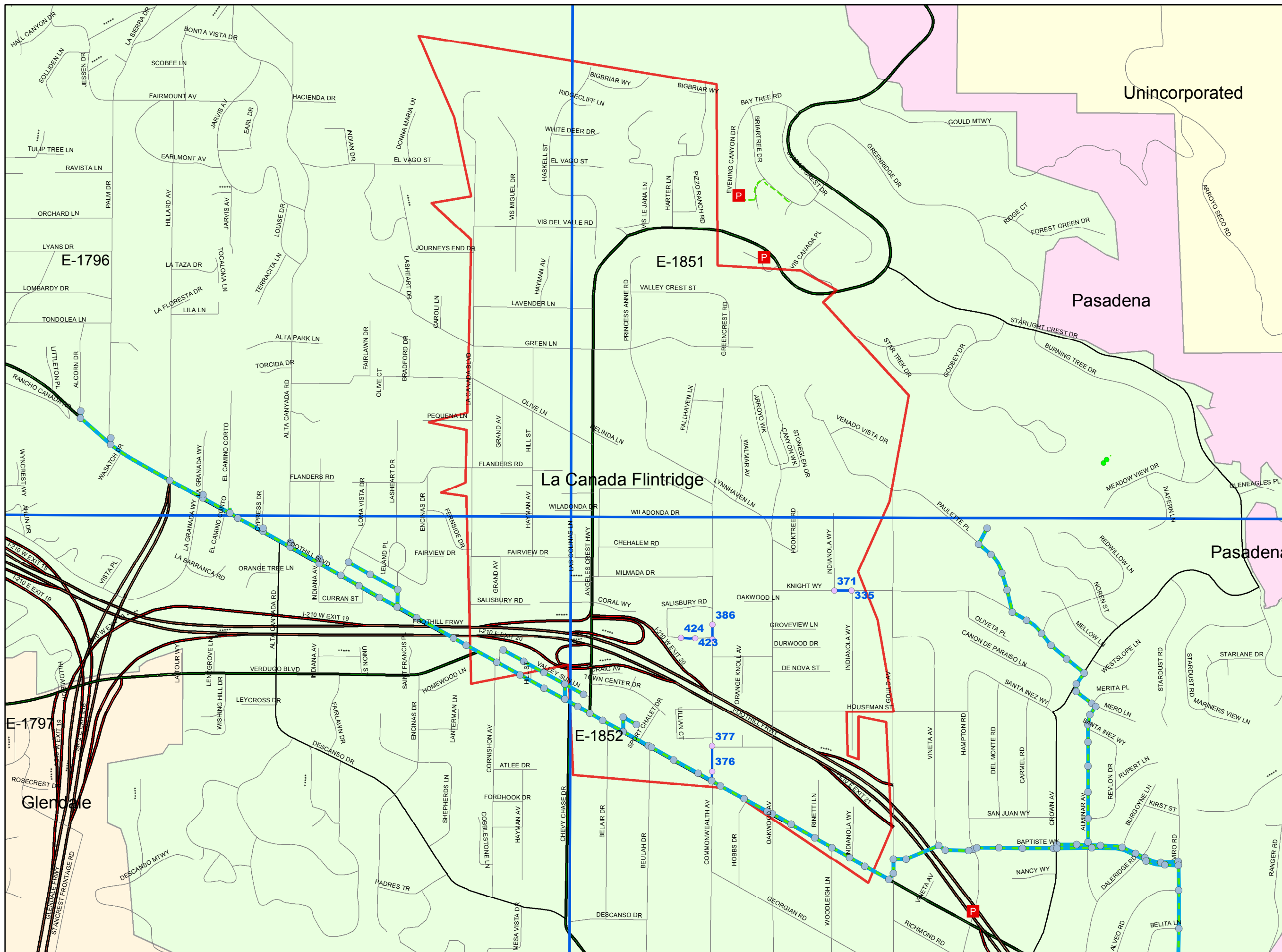
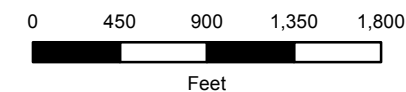
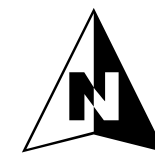
ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION
1	5141	1852-0424	1852-0423	PARKMAN DR	Water level: 10%; Water mark: 80%	No action needed.
2	4400	1852-0376	1852-TRNK	COMMONWEALTH AV	Camera underwater; high water level due to trunk line downstream	Hydrojet (10/09/13)
3	4100	1852-0386	1852-0385	COMMONWEALTH AV	High water level; Water mark: 50%	Hydrojet (10/09/13)
4	4100	1852-0371	1852-0335	KNIGHT WAY	Water level: 5%; Water mark: 40%-50%	No action needed.
5	4100	1852-0377	1852-0376	COMMONWEALTH AV	High water level due to change in alignment	Hydrojet (10/09/13)



**ENCLOSURE 2**  
**CCTV PROJECT**  
**Y0TV112B**

**CITY OF**  
**LA CAÑADA**  
**FLINTRIDGE**

**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

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

▭ CCTV PROJECT AREA

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March 2016





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

Current Property Owner

Dear Property Owner

### 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 roots 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 (XXX) XXX-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 Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or [fvillaluna@dpw.lacounty.gov](mailto:fvillaluna@dpw.lacounty.gov).

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

WILLIAM J. WINTER  
Assistant Deputy Director  
Sewer Maintenance Division

XXXX

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
- Lining and Point Repair  
Projects Map



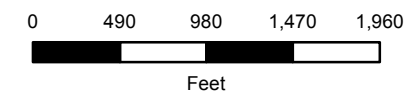
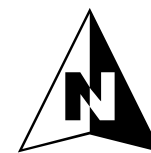
**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF LA CAÑADA FLINTRIDGE (Y0TV1112B)**  
as of 2/13/2012

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	4100	1851-0272	1851-0271	HASKELL ST	Deformation (reinforced plastic pipe): 51'	Structural integrity in tact. No action needed.	
2	4124	1852-0437	1852-0438	CHEHALEM RD.	Repair patch (detached): 160'	Structural integrity in tact. No action needed.	
3	4127	1851-0250	1851-0259	ANGELES CREST HWY.	Deformed (5%): 211'	Structural integrity in tact. No action needed.	
4	4137	1796-0046	1796-0047	LAVENDER LN	Joint offset: 1'; Hole: 25'	Structural integrity in tact. No action needed.	
5	4300	1852-0376	1852-TRNK	COMMONWEALTH AV	Fracture longitudinal: 100',218',283'; Fracture multiple: 173'; Hole: 280'	Structural integrity in tact. No action needed.	
6	4731	1796-0005	1851-0333	VISTA DEL VALLE RD	Joint offsets: 17',84'; Hole: 162',180'; Fractures: 177', 195'-199', 235', 249'	Lining: MH to MH	289
7	5100	1851-0201	1851-0200	OAKWOOD AVE	Broken at MH 1851-0201 (part of MH base)	Structural integrity in tact. No action needed.	

# ENCLOSURE 3 CCTV PROJECT Y0TV112B

CITY OF  
**LA CAÑADA  
FLINTRIDGE**

**QUICK  
STRUCTURAL  
RATING  
(QSR)**



### Legend

#### SMD Sanitary Sewers

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

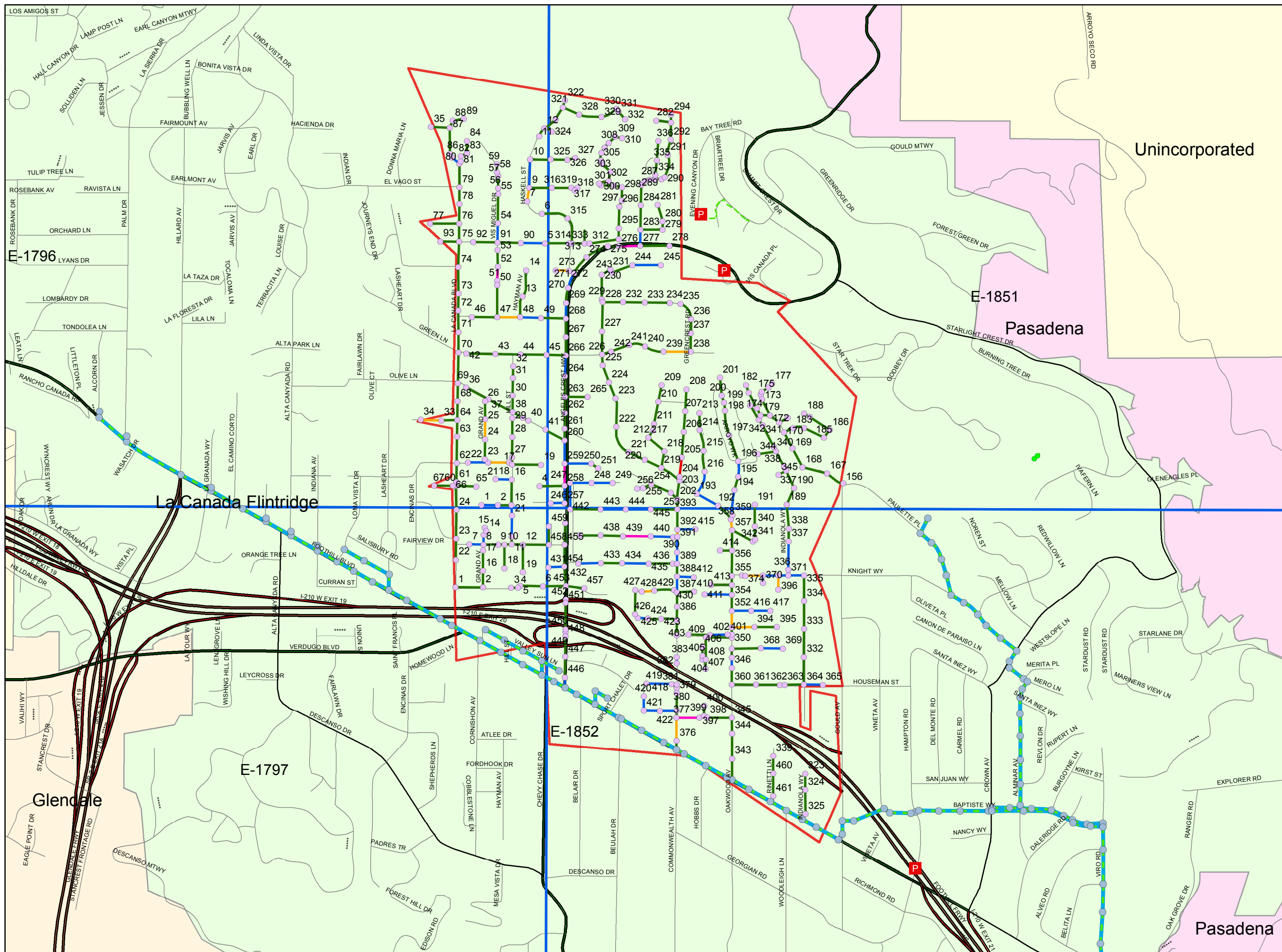
#### SMD Manholes

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

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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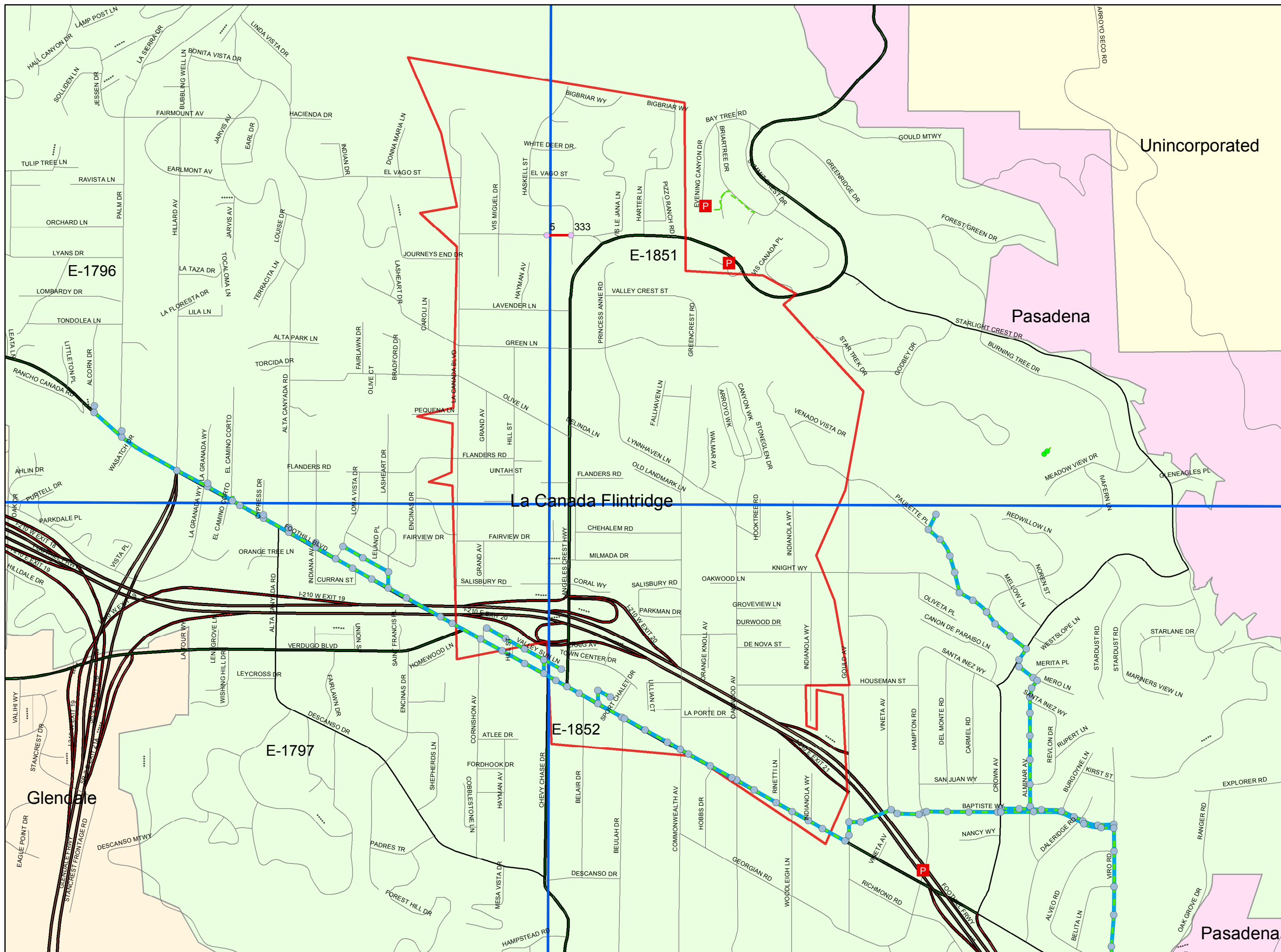
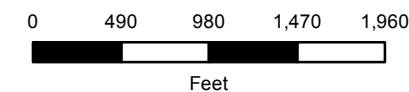
March 2016



# ENCLOSURE 3 CCTV PROJECT Y0TV112B

CITY OF  
**LA CAÑADA  
FLINTRIDGE**

**LINING &  
POINT REPAIR  
PROJECTS**



## Legend

— Lining MH to MH

### SMD Manholes

⊙ Other

### Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

**P** SMD Pump Stations

**WTP** SMD Treatment Plants

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

□ CCTV PROJECT AREA

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