



MARK PESTRELLA, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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

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

February 26, 2019

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

Mr. Dirk Lovett
City Engineer
City of Hidden Hills
6165 Spring Valley Road
Hidden Hills, CA 91302-1257

Attention Ms. Deana Graybill

Dear Dirk:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV1314A2**

This letter is to inform you that the Los Angeles County Public Works Consolidated Sewer Maintenance District has completed its condition assessment of the City of Hidden Hills' sewer system.

The enclosed Condition Assessment Report provides details regarding the maintenance and structural condition of your sewer mainlines. Please note that a previous report covering the balance of your system was transmitted to your City on January 8, 2009. The information contained in both reports 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 schedule for continued monitoring. In addition, segments with severe structural defects have either been repaired or will be scheduled for corrective action as part of the ongoing Accumulative Capital Outlay Program.

Mr. Dirk Lovett
February 26, 2019
Page 2

If you have any questions regarding this report or the Condition Assessment Program, please contact Ms. Kari Eskridge, Sewer Maintenance Division, at (626) 300-3390, Monday through Thursday, 7 a.m. to 5 p.m., or keskridge@dpw.lacounty.gov.

Very truly yours,

MARK PESTRELLA
Director of Public Works

A handwritten signature in blue ink that reads "William J. Winter". The signature is written in a cursive style.

WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

CK:nv
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Enc.

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

100% SUMMARY

SUP.	3	CITY:	Hidden Hills
DISTRICT(S)			
Report By:	Clement Khong	Report Date:	2/11/2019

INTRODUCTION

As part of the Sewer Condition Assessment Program, Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television inspection of 75,105 feet or 100 percent of the City of Hidden Hills' (City) sewer system.

The closed-circuit television inspection of the City was completed in two projects (Project Nos. Y0TV0506F and Y0TV1314A2). A copy of the Condition Assessment Report for Project No. Y0TV0506F can be found on the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. Enclosed for your reference is the Condition Assessment Report for Project No. Y0TV1314A2.

SUMMARY MAINTENANCE REPORT

Our inspection revealed that approximately 78.2 percent of the system televised were free of significant blockages or restrictions that would impede sewer flows. The remaining 21.8 percent of the inspected pipe segments within the City had a Pipeline Assessment and Certification Program (PACP) maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been addressed with corrective action taken as noted in the enclosed reports.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	45,606	60.7	184
2: Minor to Moderate	13,128	17.5	57
3: Moderate	5,050	6.7	18
4: Significant	10,067	13.4	38
5: Most Significant	1,254	1.7	6
TOTAL	75,105	100.0	303

SUMMARY STRUCTURAL REPORT

Our inspection revealed that approximately 90.4 percent of the inspected pipe segments within the City were free of significant structural defects. The remaining 9.6 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. The priority lists for these items are located in the enclosed reports.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT OF TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	59,678	79.5	238
2: Minor to Moderate	5,099	6.8	21
3: Moderate	3,097	4.1	13
4: Significant	5,471	7.3	22
5: Most Significant	1,760	2.3	9
TOTAL	75,105	100.0	303

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

PROJECT NAME:	Y0TV1314A2	PROJECT MGR:	Hanna Kebede
PROJECT DATE:	8/12/2014	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(s):	3	MAP PAGE(S):	1151, 1152, 1190, 1191
Report By:	Clement Khong	Report Date:	2/11/2019

INTRODUCTION

Los Angeles County Public Works Consolidated Sewer Maintenance District (District) conducted a condition assessment of 67,832 feet or 90.3 percent of the City's entire sewer system as part of Project No. Y0TV1314A2.

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

- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Map, High Water Levels List and Map, Infiltration List and Map, and Sample Lateral Notice Letter (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Priority Map (Enclosure 3)

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. Y0TV1314A2 included sewer lines located in the unincorporated County of Los Angeles County and the Cities of Calabasas, Hidden Hills, Agoura Hills, and Malibu. 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:

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

MAINTENANCE REPORT

Our inspection revealed that approximately 82.4 percent of the system televised in your City as part of Project No. Y0TV1314A2 was free of significant blockages or restrictions that would impede sewer flows. The remaining 17.6 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 below. These segments have been incorporated into our routine cleaning schedule with corrective action taken.

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. OF SEGMENTS
1: Minor	44,099	65.0	179
2: Minor to Moderate	11,783	17.4	50
3: Moderate	3,110	4.6	12
4: Significant	7,801	11.5	30
5: Most Significant	1,039	1.5	5
TOTAL	67,832	100.0	276

Lateral Notices

Also included in the maintenance inspection reports are private lateral deficiencies discovered during the assessment 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 have been 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 96.0 percent of the system televised has adequate capacity. Approximately 4.0 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 has reached 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 approximately 0.4 percent of the system in your City as part of Project No. Y0TV1314A2 has infiltration with the pipe segments. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration was found are listed on the Infiltration Table in Enclosure 2. This table also provides the proposed corrective action for these impacted sewer segments. If corrective action is proposed, the work will be programmed in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

A map showing the sewer lines with infiltration is provided in Enclosure 2.

STRUCTURAL REPORT

Our inspection revealed that approximately 89.7 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 10.3 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 the need for action. For items 1 through 30 in the Quick Structural Rating Report Priority List (Enclosure 3), which warrant corrective action, the proposed corrective action will be programmed in the next 24 months as part of the ongoing Accumulative Capital Outlay Program.

A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	53,380	78.7	215
2: Minor to Moderate	4,556	6.7	19
3: Moderate	2,901	4.3	12
4: Significant	5,471	8.1	22
5: Most Significant	1,524	2.2	8
TOTAL	67,832	100.0	276

CONDITION ASSESSMENT 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	Y0TV0506F	7,273	9.7	COMPLETED
2013-14	Y0TV1314A2	67,832	90.3	COMPLETED
TOTAL		75,105	100.0	

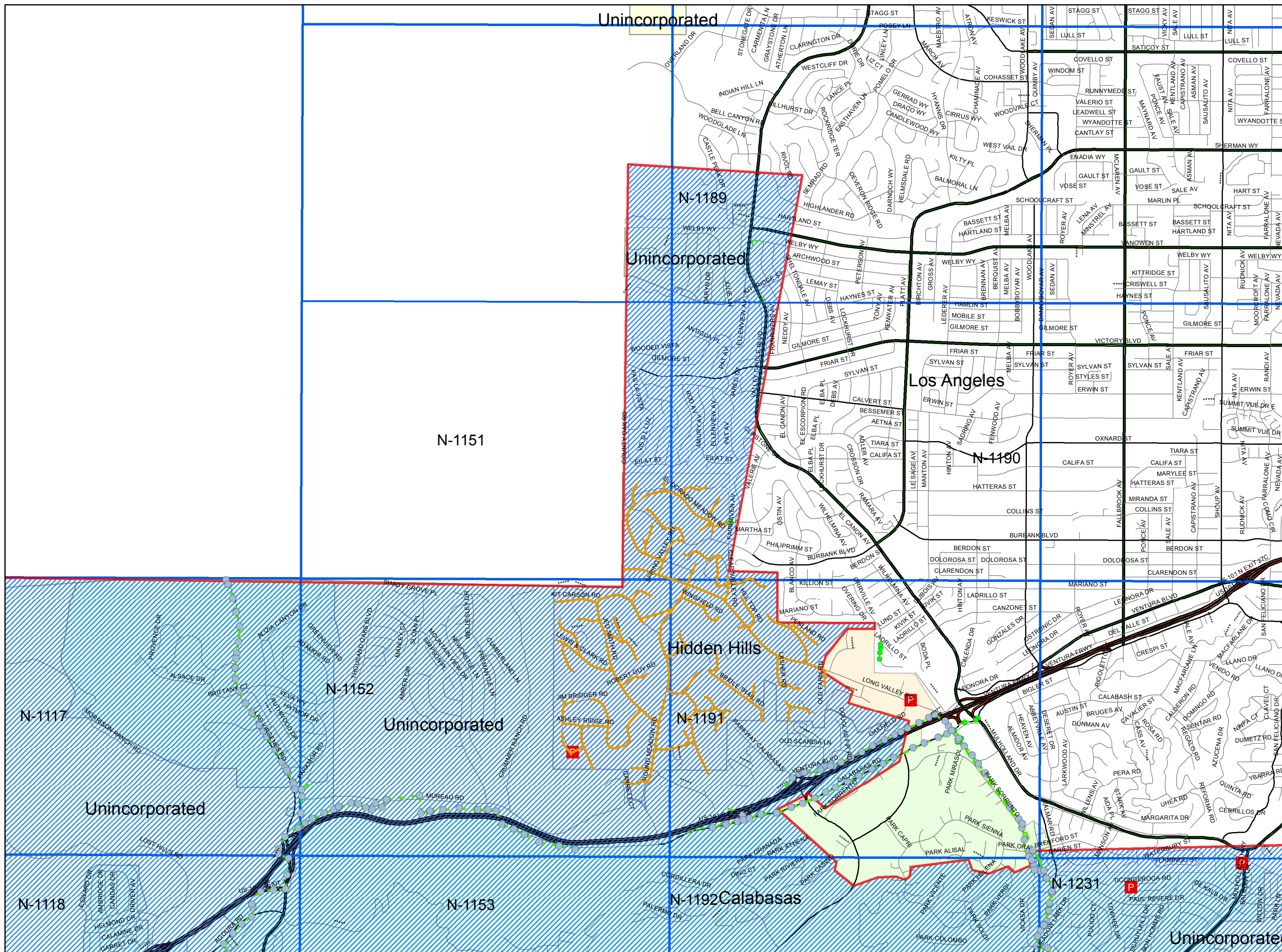
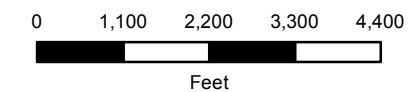
ENCLOSURE 1:

Project Overview Map

OVERVIEW MAP

CCTV PROJECT Y0TV1314A2

CITY OF HIDDEN HILLS



Legend

SMD Sanitary Sewers

— SMD Sanitary Sewers

SMD Manholes

⊙ Other

Manhole Type

● 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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February 2019

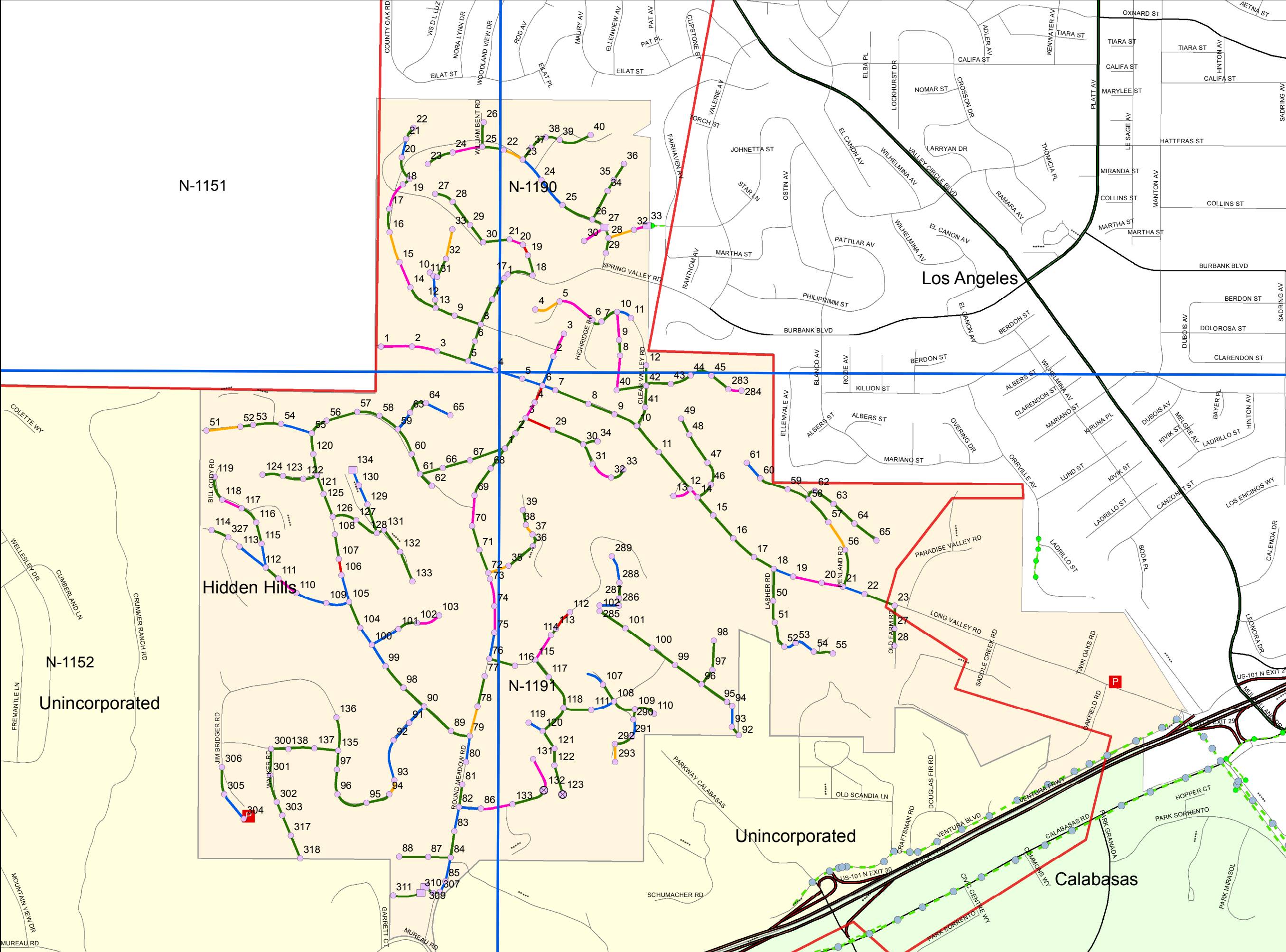
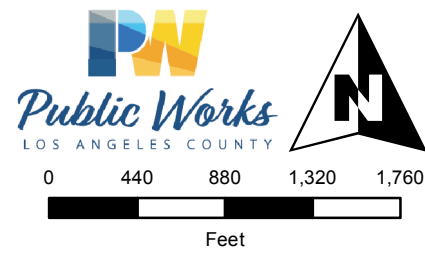
ENCLOSURE 2:

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

ENCLOSURE 2 CCTV PROJECT Y0TV1314A2

CITY OF HIDDEN HILLS

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
- Manhole Type**
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
- SMD Pump Stations
- SMD Treatment Plants
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps

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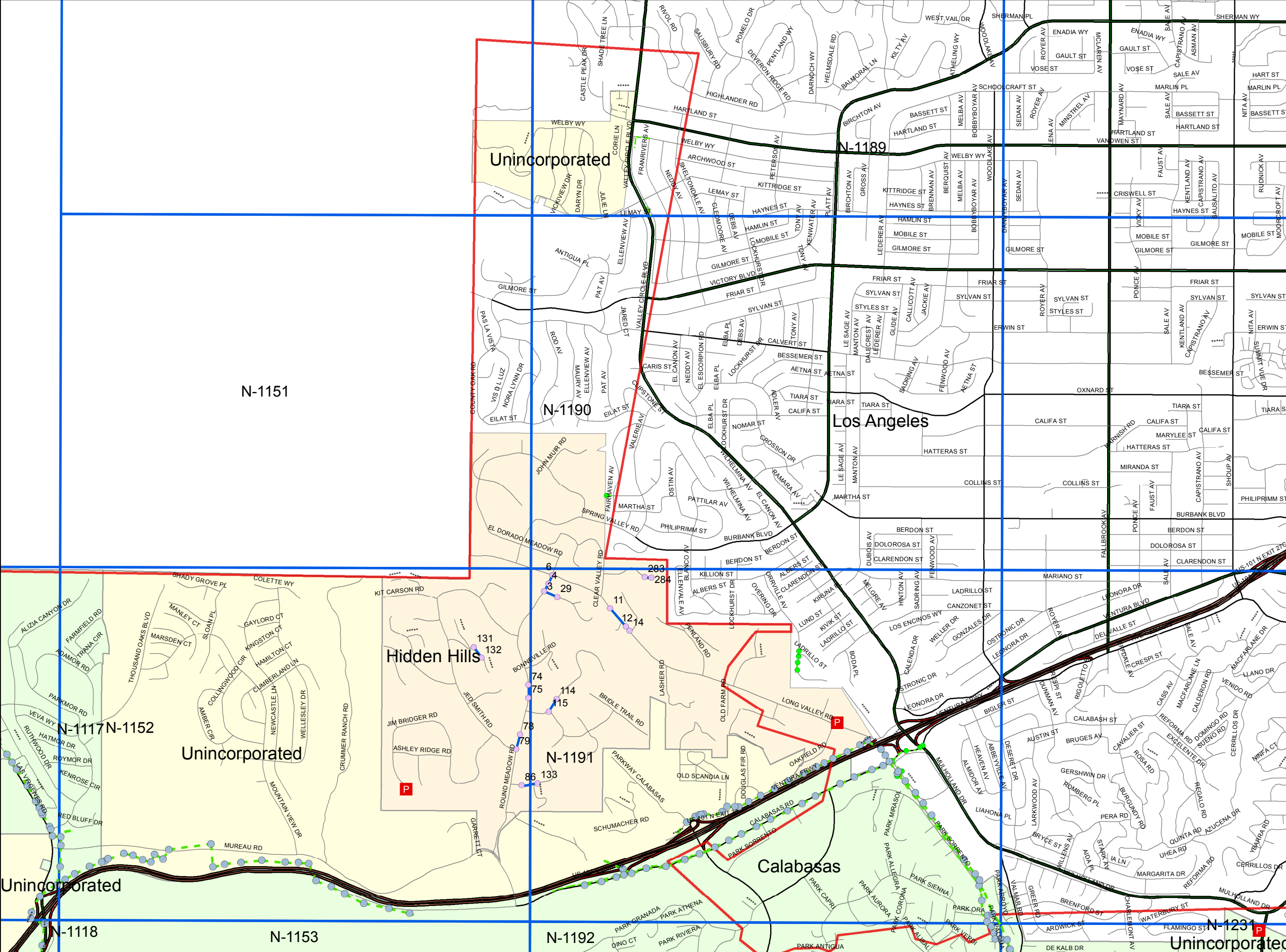
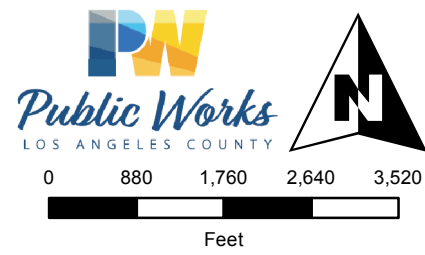
**ENCLOSURE 2
HIGH WATER LEVELS
CITY OF HIDDEN HILLS (Y0TV1314A2)**

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION: LOCATION	CAPACITY	CORRECTIVE ACTION
1	5141	1191-0004	1191-0006	ROUND MEADOW RD	High water mark; High water level	NO	Hydrojet
2	5100	1191-0029	1191-0003	WINGFIELD RD	High water mark	NO	Hydrojet
3	4131	1191-0131	1191-0132	JOHN COLTER RD	High water mark	NO	Hydrojet
4	4121	1152-0074	1152-0075	ROUND MEADOW RD	High water mark	NO	Hydrojet
5	4100	1191-0003	1191-0004	ROUND MEADOW RD	High water mark	NO	Hydrojet
6	4100	1191-0011A	1191-0012	LONG VALLEY RD	High water mark	NO	Hydrojet
7	4100	1191-0012	1191-0014	LONG VALLEY RD	High water mark	NO	Hydrojet
8	4100	1191-0114	1191-0115	HOBACK GLEN RD	High water mark	NO	Hydrojet
9	4100	1191-0284	1191-0283	LITTLE VALLEY ROAD	High water mark	NO	Hydrojet
10	4100	1152-0086	1191-0133	JOHN COLTER RD	High water mark	NO	Hydrojet
11	3100	1152-0078	1152-0079	ROUND MEADOW RD	High water mark	NO	Hydrojet

ENCLOSURE 2
CCTV PROJECT
Y0TV1314A2

CITY OF
HIDDEN HILLS

HIGH WATER
LEVELS



Legend

- High Water Levels
- 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

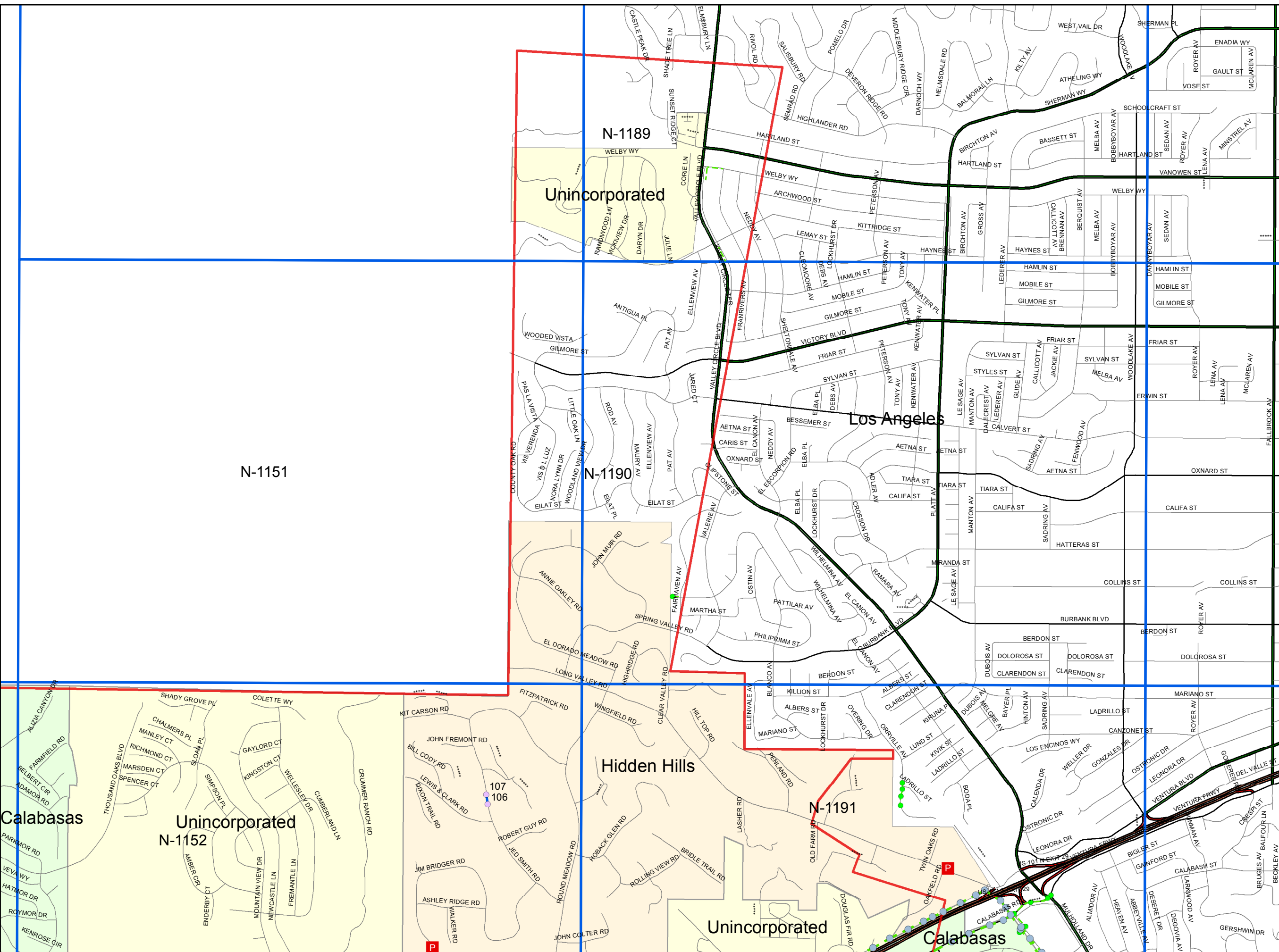
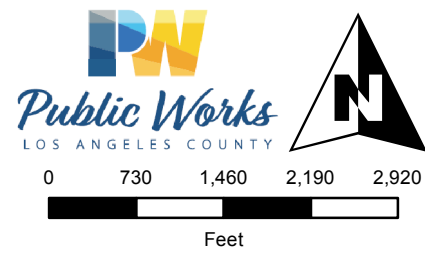
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**ENCLOSURE 2
INFILTRATION
CITY OF HIDDEN HILLS (Y0TV1314A2)**

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	5141	1152-0107	1152-0106	JED SMITH RD	Infiltration runner: 159'	Lining: MH to MH	161

ENCLOSURE 2
CCTV PROJECT
Y0TV1314A2
CITY OF
HIDDEN HILLS

INFILTRATION



Legend

- Infiltration
- 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

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NOTICE OF SEWER LATERAL ROOT INTRUSION CONSOLIDATED SEWER MAINTENANCE DISTRICT

Property Owner/Occupant
1234 Mailing Street
Mailing City, California 99999

The County of Los Angeles Consolidated Sewer Maintenance District (District) is responsible for the maintenance of the sanitary sewer system in your area. A camera inspection of the sewer mainline discovered 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 an overflow to your property and/or those immediately upstream of your property. You are hereby requested to perform maintenance on your private sewer lateral.

In accordance with **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."***

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 licensed plumber to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Your licensed plumber is required to protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection. Prior to your plumber cleaning your lateral, please notify the District's sewer maintenance yard in your area at (123) 456-7890 for authorization to access the downstream manhole.

We have included literature on ways to minimize sewer overflows and damage to your home. Please consider establishing a routine cleaning schedule for your sewer lateral to minimize potential plumbing problems caused by root intrusion that are likely to reoccur.

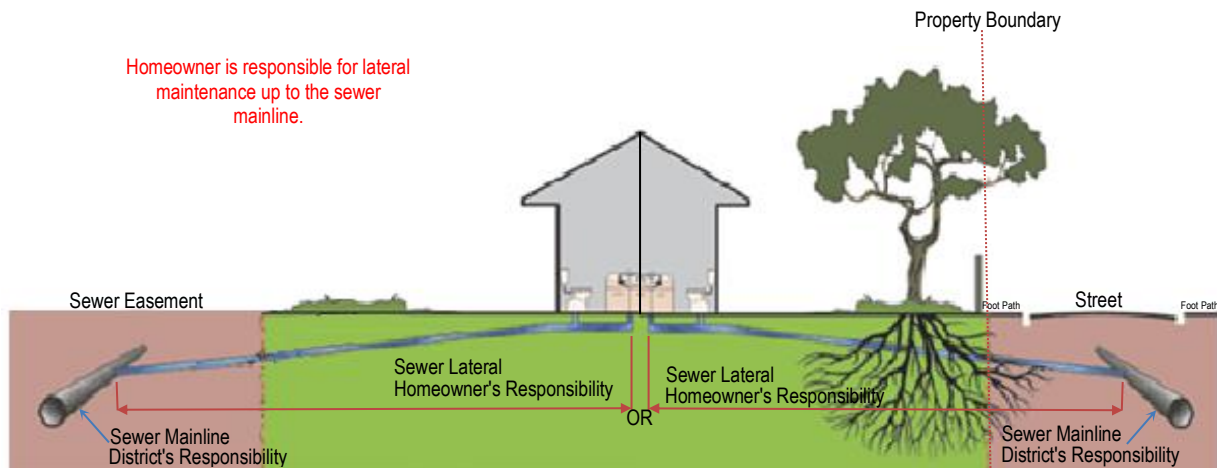
If you have recently cleaned your sewer later, no further action is necessary. If you have any questions, please contact Ms. Kari Eskridge, Sewer Maintenance Division, at (626) 300-3390 or keskridge@dpw.lacounty.gov.

Thank you for helping keep the sewer lines clean and in good working order.

Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the 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.

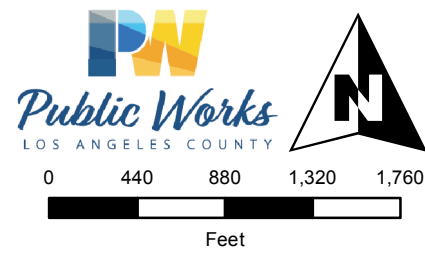
ENCLOSURE 3:

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

ENCLOSURE 3 CCTV PROJECT Y0TV1314A2

CITY OF HIDDEN HILLS

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
- Manhole Type**
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February 2019

