

## 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

> IN REPLY PLEASE REFER TO FILE: SM-1

December 2, 2019

Mr. David Gilbertson City Engineer City of Walnut 21201 La Puente Road Walnut, CA 91789

Attention Ms. Teresa de Dios

Dear Mr. Gilbertson:

## CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION-ASSESSMENT PROGRAM REPORT PROJECT NO. Y0TV1314B2

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

The enclosed Condition-Assessment Report provides a summary of the maintenance and structural condition of your sewer mainlines. Please note that a previous report covering the balance of your system was transmitted on June 24, 2013. 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 cleaning and 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. David Gilbertson December 2, 2019 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 at <a href="maintenance-pw.lacounty.gov">rswartz@pw.lacounty.gov</a>.

Very truly yours,

MARK PESTRELLA Director of Public Works

WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

EL:nv

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Enc.

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

#### 100% SUMMARY

SUP.	1	CITY:	Walnut
DISTRICT(S)			
Report By:	Eric Liu	Report Date:	06/24/2019

#### 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 475,490 feet or 100 percent of the City of Walnut's (City) sewer system.

The closed-circuit television inspection of the City was completed in two phases (Project Nos. Y0TV0910C and Y0TV1314B2). A copy of the Condition-Assessment Report for Project No. Y0TV0809C can be found in the District's website at <a href="http://dpw.lacounty.gov/smd/cctv/city/">http://dpw.lacounty.gov/smd/cctv/city/</a>. Enclosed for your reference is the Condition-Assessment Report for Project No. Y0TV1314B2.

### **SUMMARY MAINTENANCE REPORT**

Our inspection revealed that approximately 83.4 percent of the system televised was free of significant blockages or restrictions that would impede sewer flows. The remaining 16.6 percent of the inspected pipe segments 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. We have taken corrective actions to address the maintenance issues 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	286,198	60.2	1,277
2: Minor to Moderate	110,251	23.2	474
3: Moderate	43,523	9.2	177
4: Significant	30,505	6.4	127
5: Most Significant	5,013	1.0	20
TOTAL	475.490	100.0	2.075

### **SUMMARY STRUCTURAL REPORT**

Our inspection revealed that approximately 96.6 percent of the inspected pipe segments within the City were free of significant structural defects. The remaining 3.4 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.

### **QUICK STRUCTURAL RATING TABLE**

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	372,082	78.3	1,623
2: Minor to Moderate	65,701	13.8	286
3: Moderate	21,525	4.5	92
4: Significant	9,997	2.1	47
5: Most Significant	6,185	1.3	27
TOTAL	475,490	100.0	2,075

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

PROJECT NAME: Y0TV1314B2 PROJECT MGR: Eric Liu

PROJECT DATE: 7/23/2014 CONTACT NO: (626) 300-3369

SUP. DISTRICT(s): 1 MAP PAGE(S): 2345, 2346,2347, 2389

Report By: Eric Liu Report Date: 06/24/2019

#### INTRODUCTION

The District conducted a condition-assessment of 292,525 feet or 61.5 percent of the City's entire sewer system as part of Project No. Y0TV1314B2.

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, and Infiltration List and Map (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. Y0TV1314B2 included sewer lines located in the unincorporated County of Los Angeles and the Cities of Commerce, Glendora, Industry, 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 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 82.3 percent of the system televised in your City as part of Project No. Y0TV1314B2 was free of significant blockages or restrictions that would impede sewer flows. The remaining 17.7 percent of the pipe segments 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 periodic cleaning schedule for enhanced maintenance.

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	174,387	59.6	799
2: Minor to Moderate	66,504	22.7	292
3: Moderate	26,642	9.1	115
4: Significant	21,807	7.5	95
5: Most Significant	3,185	1.1	12
TOTAL	292,525	100.0	1,313

#### 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 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. When the items have been identified to have high-water levels due to sewer line capacity, a Yes is indicated in the capacity column. These areas should be reviewed by the City for existing and future capacity needs.

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

#### Infiltration

Our inspection revealed that approximately 0.2 percent of the system in your City as part of Project No. Y0TV1314B2 has infiltration within the pipe segments. Infiltration is the ingress of groundwater into the sewers through a defect of 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 a 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 95.9 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 4.1 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 57 in the Quick Structural Rating Report Priority List (Enclosure 3), which warrant a 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	209,449	71.6	945	
2: Minor to Moderate	55,451	19.0	243	
3: Moderate	15,358	5.3	68	
4: Significant	8,917	3.0	41	
5: Most Significant	3,350	1.1	16	
TOTAL	292,525	100.0	1,313	

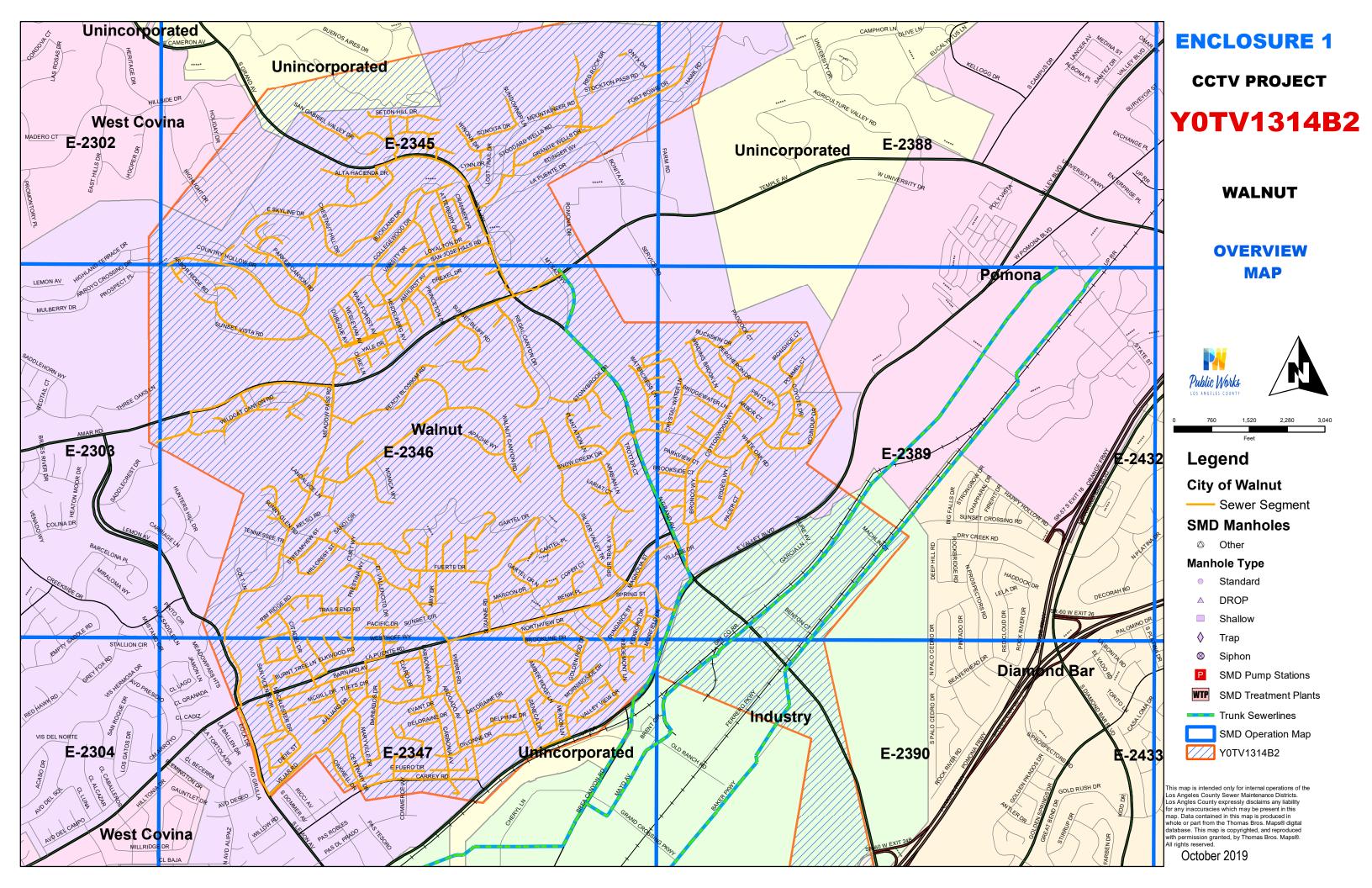
#### **CONDITION-ASSESSMENT PROJECTS**

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
2009-10	Y0TV0910C	182,965	38.5	COMPLETED
2013-14	Y0TV1314B2	292,525	61.5	COMPLETED
TOTAL		475,490	100.0	_

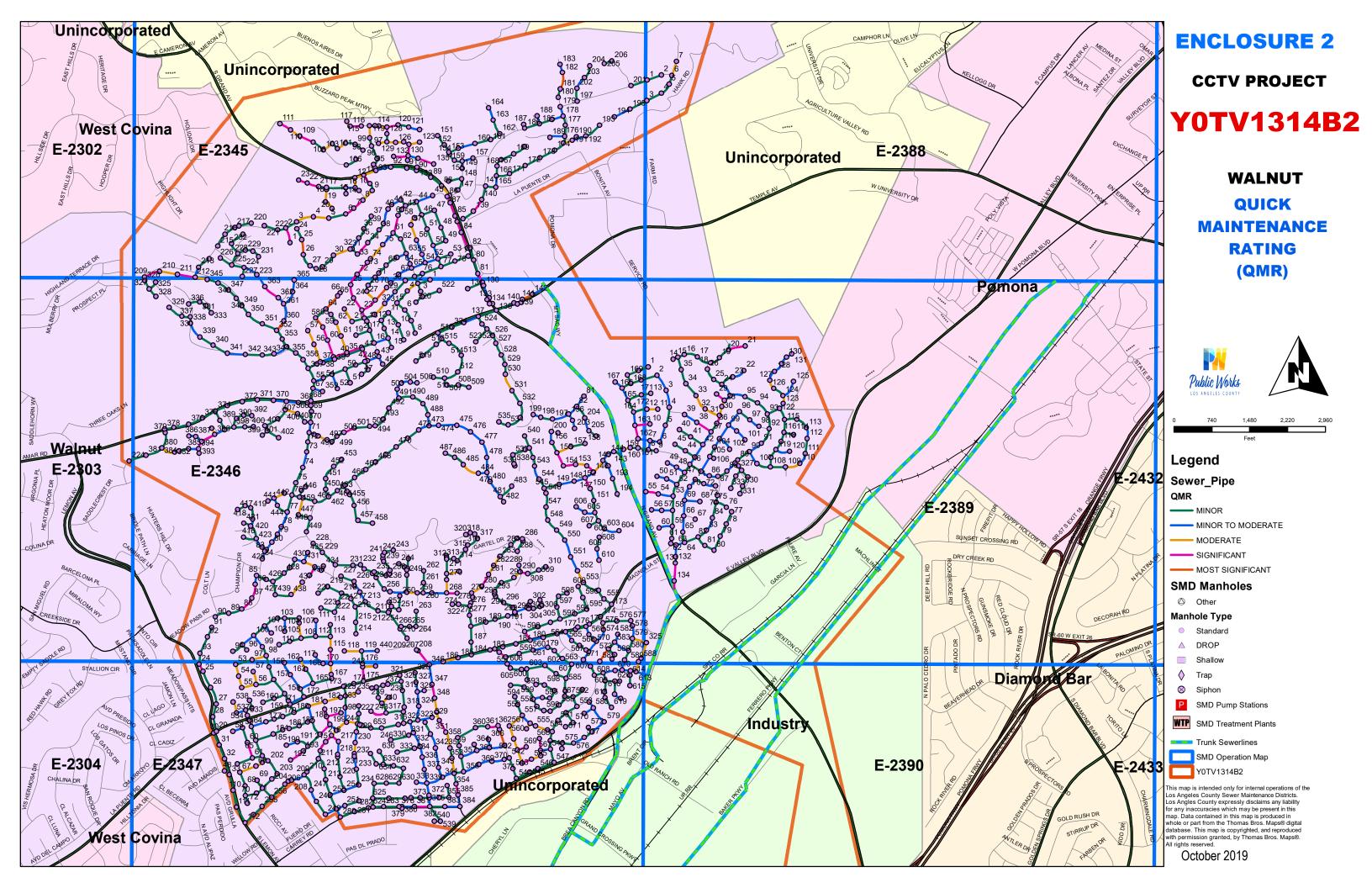
# **ENCLOSURE 1:**

**Project Overview Map** 



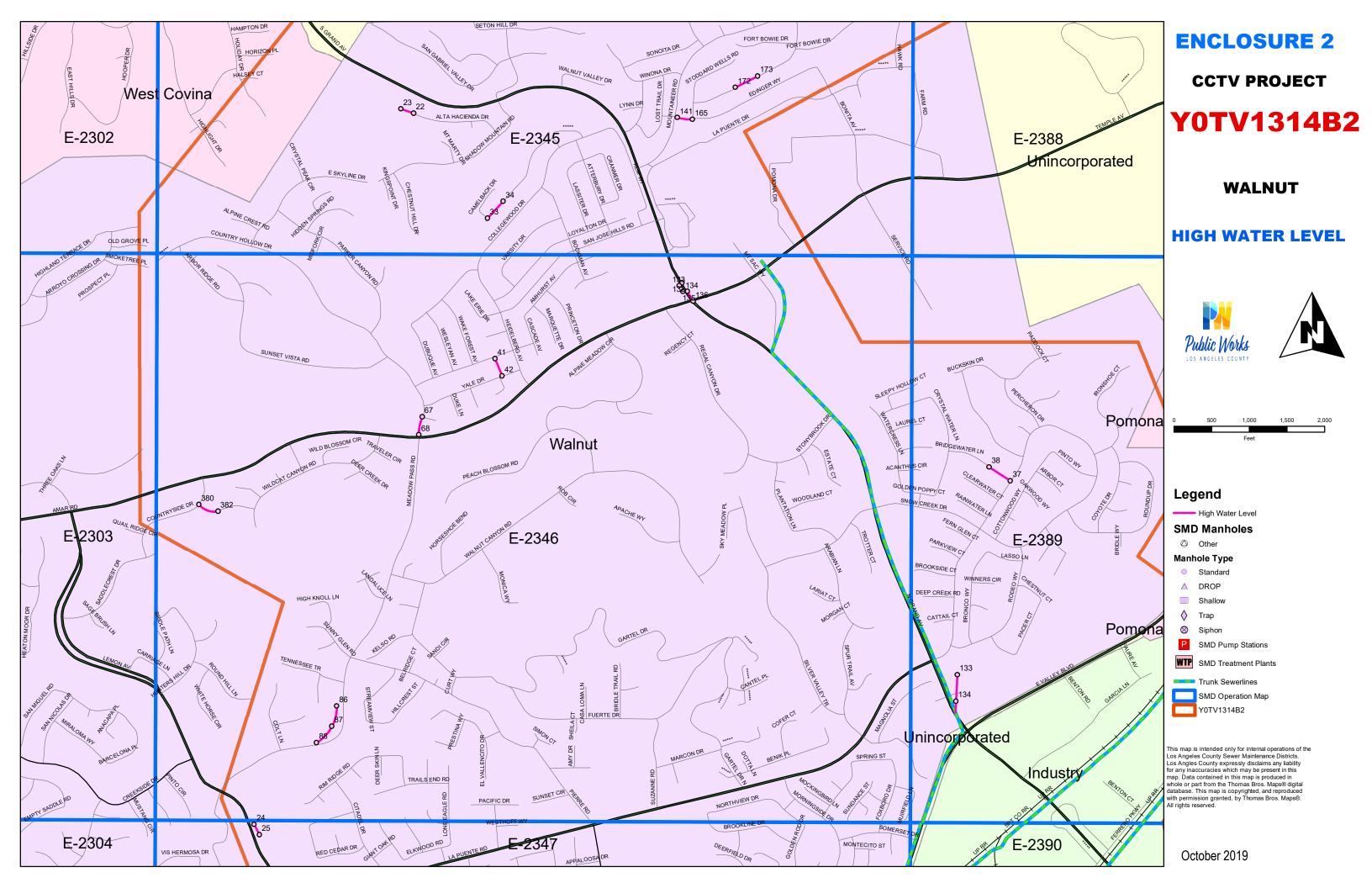
# **ENCLOSURE 2:**

- Quick Maintenance Rating Map
- High Water Levels List and Map



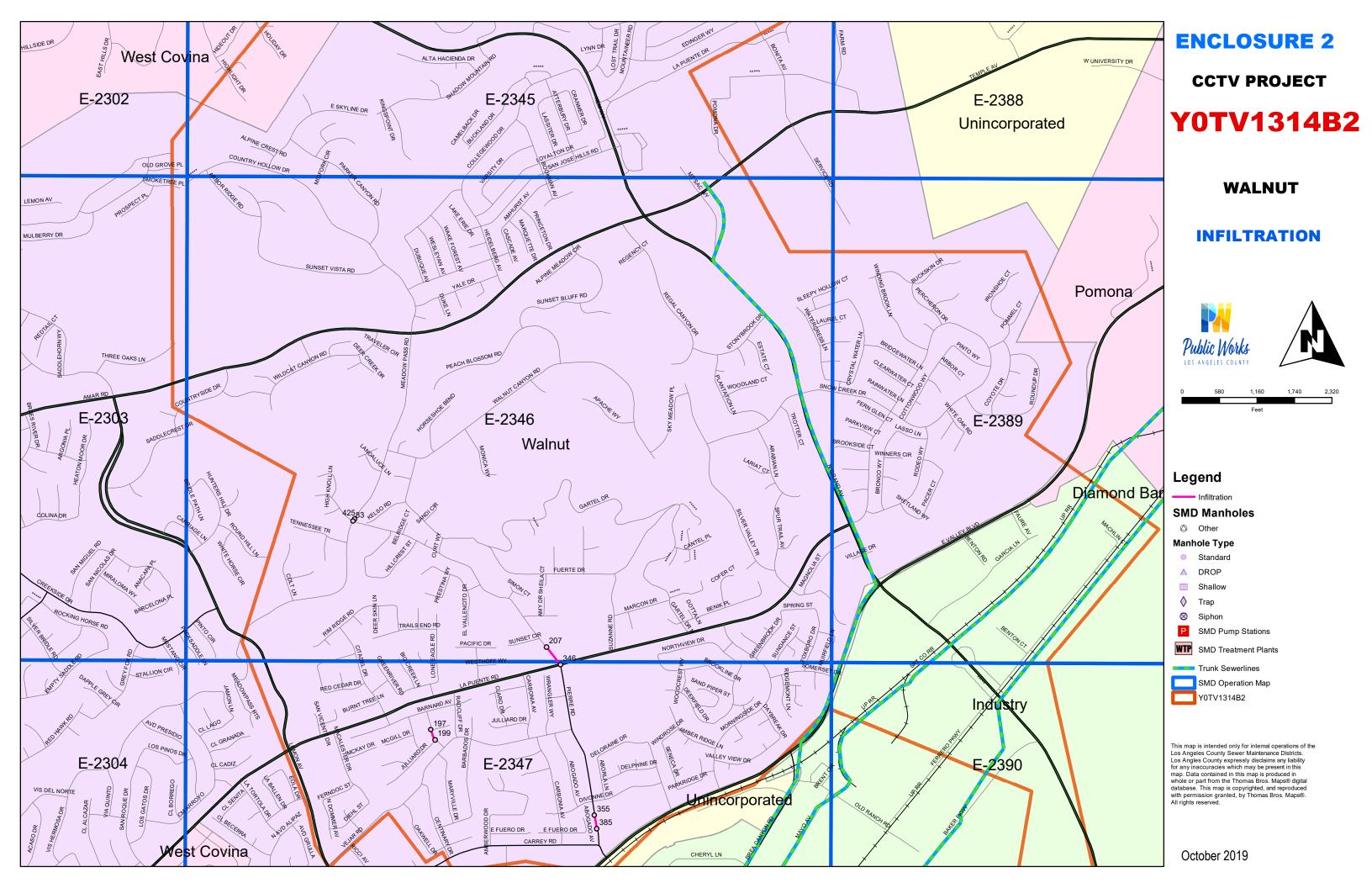
#### ENCLOSURE 2 HIGH WATER LEVELS CITY OF WALNUT ( YOTV1314B2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION: LOCATION	CAPACITY	CORRECTIVE ACTION
1	2389-0038	2389-0037	BRIDGEWATER LN	CAMERA UNDERWATER	NO	Hydrojet
2	2346-0041	2346-0042		CAMERA UNDERWATER	NO	Hydrojet
3	2346-0134	2346-0135	GRAND AV	Water Mark (50%)	NO	Hydrojet
4	2345-0033	2345-0034	BUCKLAND DR	Water Mark (50%)	NO	Hydrojet
5	2389-0133	2389-0134		Water Mark (50%)	NO	Hydrojet
6	2345-0023	2345-0022	ALTA HACIENDA DR	Water Mark (50%)	NO	Hydrojet
7	2346-0086	2346-0087	MEADOWPASS RD	Water Mark (50%)	NO	Hydrojet
8	2346-0087	2346-0088	MEADOWPASS RD	Water Mark (50%)	NO	Hydrojet
9	2346-0132	2346-0133	GRAND AV	Water Mark (50%)	NO	Hydrojet
10	2346-0135	2346-0136A	GRAND AV	Water Mark (50%)	NO	Hydrojet
11	2347-0024	2347-0025		CAMERA UNDERWATER	NO	Hydrojet
12	2389-0134	2389-TRUNK	GRAND AV	Water Mark (50%)	NO	Hydrojet
13	2346-0382	2346-0380	HIDDEN TRAIL PL	SAG	NO	Hydrojet
14	2345-0165	2345-0141	CASTLE DOME DR	CAMERA UNDERWATER	NO	Hydrojet
15	2345-0173	2345-0172	GRANITE WELLS DR	SAG	NO	Hydrojet
16	2346-0067	2346-0068	COUNTRY HOLLOW DR	SAG	NO	Hydrojet



## ENCLOSURE 2 INFILTRATION CITY OF WALNUT (Y0TV1314B2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION
1	2346-0425	2346-0083	MEADOWPASS RD	Infiltration runner	Lining
2	2347-0197	2347-0199	MARYVILLE DR	Infiltration runner	Lining
3	2347-0355	2347-0385	PIERRE RD	Infiltration runner	Lining
4	2346-0207	2347-0346	PIERRE RD	Infiltration gusher	Lining



# **ENCLOSURE 3:**

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

# ENCLOSURE 3 QUICK STRUCTURAL RATING REPORT PRIORITY LIST CITY OF WALNUT (Y0TV1314B2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	2345-0125	2345-0124	EASEMENT	Fractures, Broken	Lining
2	2347-0250	2347-0250A	CENTINARY DR	Broken	Emergency Point Repair (June 2019)
3	2345-0126	2345-0125	SAN GABRIEL VALLEY DR	Fracture, Broken	Lining
4	2346-0497	2346-0496	EASEMENT	Fractures, Broken	Lining
5	2345-0061	2345-0062	BOOKMAN AV	Fractures, Broken	Point Repair
6	2346-0089	2346-0090	MEADOWPASS RD	Broken	Point Repair
7	2389-0132	2389-0133	EASEMENT	Broken	No action needed*
8	2345-0019	2345-0018	EASEMENT	Fractures	Lining
9	2345-0036	2345-0035	CAMELBACK DR	Broken	No action needed*
10	2345-0032	2345-0033	CAMELBACK DR	Hole	Lining
11	2347-0250	2347-0280	CENTINARY DR	Hole	Emergency Point Repair (June 2019)
12	2345-0102	2345-0101	EASEMENT	Broken	Lining
13	2347-0537	2347-0534	SAN VICENTE CR	Broken	Point Repair
14	2346-0028	2346-0023	LOYALTON DR	Broken	Lining
15	2346-0283	2346-0282	FUERTE DR	Fractures	Lining
16	2346-0445	2346-0446	ANCIENT TITLE CT	Broken	Lining
17	2345-0069	2345-0068	VARSITY DR	Fracture	Lining
18	2346-0093	2347-0024	EASEMENT	Broken	Lining
19	2345-0070	2345-0069	VARSITY DR	Fracture	No action needed*
20	2345-0133	2345-0090	GRAND AV	Fracture	No action needed*
21	2346-0227	2346-0226	EASEMENT	Lining failure	No action needed*
22	2345-0057	2345-0056	LASSITER DR	Fracture	No action needed*
23	2347-0338	2347-0339	DIVONNE DR	Broken	Lining
24	2347-0213	2347-0253	CENTINARY DR	Fracture	No action needed*
25	2347-0033	2347-0110	LEMON AV	Fractures	Lining
26	2347-0025	2347-0026	EASEMENT	Fractures	Lining
27	2347-0253	2347-0250A	CENTINARY	Fractures	No action needed*
28	2346-0552	2346-0553	SILVER VALLEY TR	Collapsed	Point Repair
29	2346-0288	2346-0287	GARTEL DR	Fractures	Lining
30	2346-0050	2346-0053	YALE DR	Bulge	No action needed*
31	2345-0056	2345-0055	LASSITER DR	Fractures	No action needed*
32	2346-0053	2346-0054	YALE DR	Hole	No action needed*
33	2346-0278	2346-0277	SUZANNE RD	Broken	Lining
34	2347-0234	2347-0254	DIVONNE DR	Fractures	Lining
35	2345-0116	2345-0115	SETON HILL DR	Fractures	No action needed*

# ENCLOSURE 3 QUICK STRUCTURAL RATING REPORT PRIORITY LIST CITY OF WALNUT (Y0TV1314B2)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
36	2346-0425	2346-0083	MEADOWPASS RD	Fracture, Infiltration	Lining
37	2346-0113	2346-0115	LONE EAGLE RD	Fractures	No action needed*
38	2345-0075	2345-0061	COLLEGEWOOD DR	Fractures	Lining
39	2345-0166	2345-0165	STODDARD WELLS RD	Fractures	No action needed*
40	2346-0441	2346-0442	ROUNDTABLE CT	Fractures	No action needed*
41	2346-0085	2346-0086	MEADOWPASS RD	Fractures	Lining
42	2345-0049	2345-0050	CRANMER DR	Fracture	No action needed*
43	2347-0210	2347-0211	VEJAR RD	Fractures	Lining
44	2345-0152	2345-0153	WINONA DR	Broken	Lining
45	2345-0018	2345-0017	ALTA HACIENDA DR	Fractures	No action needed*
46	2346-0457	2346-0456	WENDI PL	Fractures	Lining
47	2347-0159	2347-0158	BURNT TREE LN	Fractures	Lining
48	2347-0219	2347-0220	MARYVILLE DR	Fractures	Lining
49	2347-0194A	2347-0195	JULLIARD DR	Fractures	Lining
50	2346-0146	2346-0145	SNOW CREEK DR	Corrosion	Lining
51	2347-0066	2347-0067	FERNDOC ST	Joint offset	Point Repair
52	2346-0150	2346-0147	ARABIAN LN	Corrosion	Lining
53	2346-0207	2347-0346	PIERRE RD	Fracture, Infiltration	Lining
54	2346-0269	2346-0268	BRIDLE TRAIL RD	Tap Break-in Intruding	Point Repair
55	2347-0197	2347-0199	MARYVILLE DR	Fracture, Infiltration	Lining
56	2347-0355	2347-0385	PIERRE RD	Fracture, Infiltration	Lining
57	2345-0182	2345-0181	GRANITE WELLS DR	No structural issue	No action needed*

<sup>\*</sup> Determined not to interfere with the normal operation of the sewer.

