



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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ALHAMBRA, CALIFORNIA 91803-1331
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GAIL FARBER, Director

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

June 24, 2013

Mr. Robert M. Wishner
City Manager
City of Walnut
21201 La Puente Road
Walnut, CA 91788-0682

Attention Ms. Teresa De Dios

Dear Mr. Wishner:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT 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 (CCTV) inspection of 182,965 feet or 38.0 percent of the City of Walnut's sewer system.

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

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

Mr. Robert M. Wishner
July 15, 2013
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance schedule. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair within the next 24 months 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 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



RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division



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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
PROJECT DATE:	01/27/2011	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(s):	5	MAP PAGE(S):	2303,2304 & 2347
Report By:	Hanna Kebede	Report Date:	06/12/2013

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 182,965 feet or 38 percent of the City of Walnut's (City) sewer system as part of this condition assessment report. The remaining 62 percent of the City's sewer system is part of a future CCTV inspection project to be performed in Fiscal Year 2013-2014.

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 85 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 15 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	111,811	61.1	478
2: Minor to Moderate	43,746	23.9	182
3: Moderate	16,881	9.2	62
4: Significant	8,699	4.8	32
5: Most Significant	1,828	1.0	8
TOTAL	182,965	100.0	762

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, 10 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 97.5 percent of the system televised has adequate capacity. Approximately 2.5 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 capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 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.

Infiltration

Our inspection revealed that approximately 1.0 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration has been found are listed on the Infiltration Table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project.

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

STRUCTURAL REPORT

Our inspection revealed that approximately 97.9 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 2.1 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	162,633	88.9	679
2: Minor to Moderate	10,250	5.6	43
3: Moderate	6,167	3.4	24
4: Significant	1,080	0.6	5
5: Most Significant	2,835	1.5	11
TOTAL	182,965	100.0	762

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 Walnut according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2009-2010	Y0TV0910C	182,965	38.0	COMPLETED
2013-2014	Y0TV1314B	298,269	62.0	FUTURE
TOTAL		481,234	100.0	

ENCLOSURE 1:

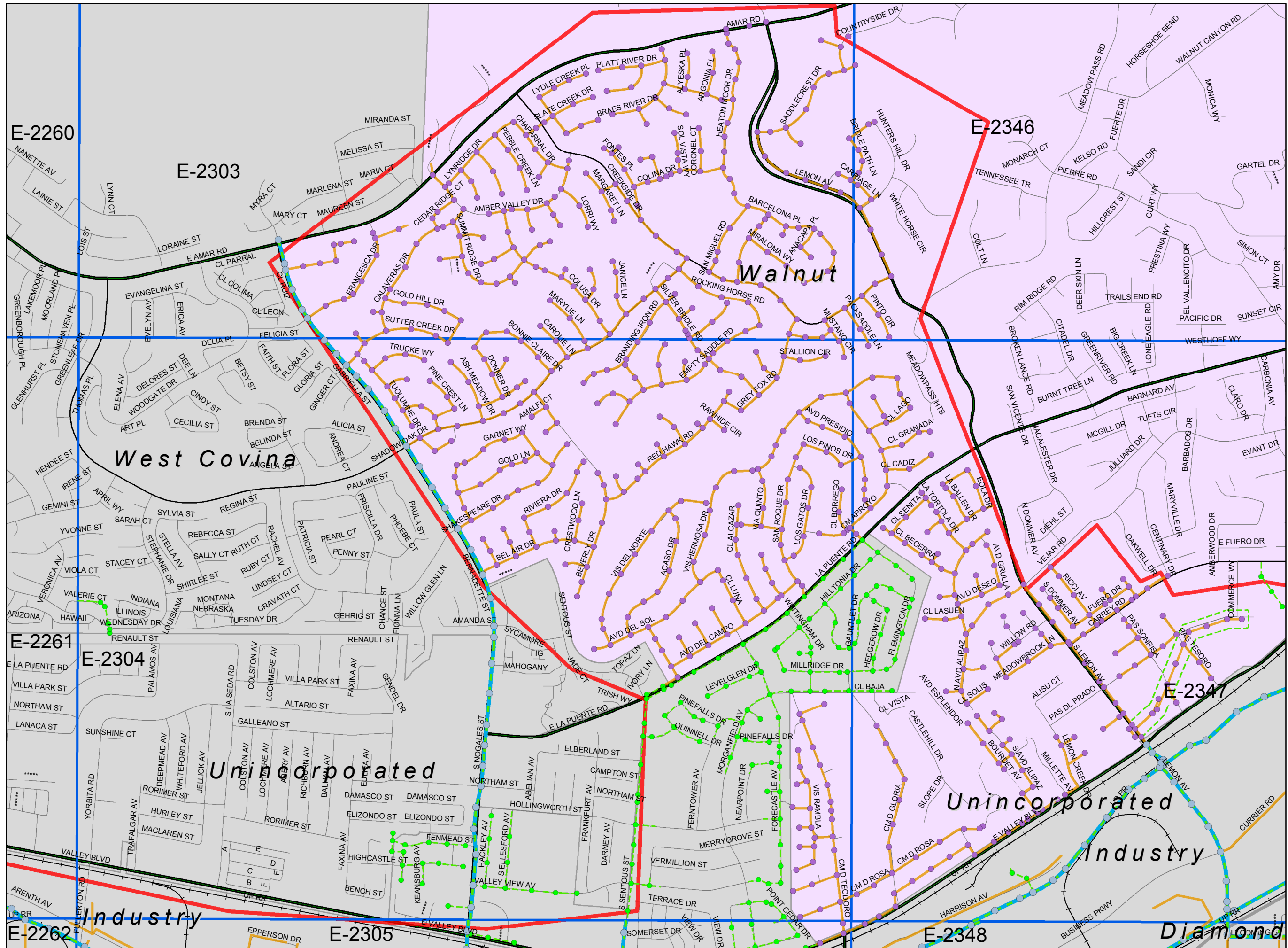
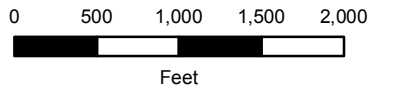
Project Overview Map

OVERVIEW

CCTV PROJECT

Y0TV0910C

City of Walnut



Legend

SMD Sanitary Sewers

— SMD Sanitary Sewers

SMD Manholes

○ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◆ Trap

⊗ Siphon

Ⓟ SMD Pump Stations

Ⓜ SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

▭ Y0TV0910C

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps® digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps®. All rights reserved.

ENCLOSURE 2:

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

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF WALNUT (YOTV0910C)
as of 01/27/2011

NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
1	512M	2304-0495	2304-0497	VISTA RAMBLA	Deposits Attached Encrustation	Hydroed Lt. grinds.	05/22/2013
2	512F	2304-0499	2304-0497	VISTA RAMBLA	Deposits Attached Encrustation	Hydroed Lt. grinds.	05/22/2013
3	5141	2304-0386	2304-0385	GREY FOX RD	Deposits Attached Encrustation & Infil Runner : 68'	Hydroed Lt. grinds.	05/22/2013
4	5131	2303-0060	2303-0061	FERN LN	Deposits Attached Encrustation :289'	Hydroed Lt. grease.	05/24/2013
5	5125	2304-0480	2304-0481	CAMINO DE TEODORO	Deposits Attached Encrustation	Hydroed Lt. odor.	05/22/2013
6	5121	2304-0379	2304-0380	BUCKSKIN CR	Deposits Attached Encrustation	Rodded	05/20/2013
7	5100	2303-0161	2303-0164	SILVER BRIDLE RD	Deposits Attached Encrustation : 223'	Hydroed Lt. grinds.	05/23/2013
8	5100	2304-0502	2304-0500	VISTA RAMBLA	Deposits Attached Encrustation :1'	Hydroed Lt. grinds.	05/21/2013
9	4A3A	2347-0112	2347-0114	LEMON AV	Camera Underwater: 135'-177'	Hydroed Lt. grinds.	05/20/2013
10	492B	2303-0151	2303-0086	ROCKING HORSE RD	Camera Underwater: 292'-328'	Hydroed Medium grease.	05/23/2013
11	463F	2303-0116	2303-0136	EASEMENT	Water Level Sag, 45 % & Camera Underwater	Hydroed Heavy grinds .	05/24/2013
12	432B	2347-0495	2347-0496	LEMON CREEK DR	Camera Underwater: 211'-222'	Hydroed Lt. grinds.	05/20/2013
13	4536	2303-0092	2303-0093	FELISE PL	Water Level Sag, 50 % & Camera Underwater :78'- 101'	Hydroed Lt. grinds.	05/24/2013
14	4212	2347-0136	2304-0488	CAMINO DE ROSA	Roots Ball Lateral :173' & 201'	Lateral notice will be sent to property owner.	N/A
15	4138	2304-0115	2304-0113	VALLEY SPRINGS DR	Deposits Attached Encrustation: 272' & Water Level Sag, 35 %,	Hydroed Lt. grinds.	05/23/2013
16	4138	2347-0109	2347-0257	MEADOWBROOK LN	Deposits Attached Encrustation : 331' - 359'	Hydroed Medium deposits.	05/20/2013
17	4133	2303-0108	2303-0109	COLINA DR	Deposits Attached Grease in Lateral : 24'	Lateral notice will be sent to property owner.	N/A
18	4133	2346-0415	2346-0128	HUNTERS HILL DR	Camera Underwater & Water Level Sag, 45 % : 153'- 165'	Hydroed Lt. grinds.	05/21/2013
19	4131	2303-0032	2303-0031	PEBBLE CREEK LN	Deposits Attached Encrustation : 238'	Hydroed Lt. grinds.	05/24/2013
20	4131	2304-0122	2304-0125	EASEMENT	Deposits Attached Encrustation : 26'	Rodded	05/20/2013
21	4131	2304-0439	2304-0307	ACASO DR	Deposits Attached Encrustation	Hydroed Light grease.	05/22/2013
22	4131	2347-0090	2347-0091	CALLE LASUEN	Deposits Attached Encrustation	Hydroed Calcium deposits.	05/21/2013
23	4131	2347-0149	2347-0148	ALLEY	Roots Ball Lateral : 60' & 150'	Lateral notice will be sent to property owner.	N/A
24	4131	2347-0272	2347-0284	LEMON AV	Infil Runner : 83'	No action needed.	N/A
25	412L	2304-0293	2304-0294	SABLE LN	Deposits Attached Encrustation	Rodded	05/20/2013
26	412A	2304-0449	2304-CITY	LA PUENTE RD	Water Mark, 50 % : 157'	Hydroed Heavy grinds .	05/22/2013
27	4128	2347-0131	2347-0132	CAMINO DE GLORIA	Roots Ball Lateral :287'	Lateral notice will be sent to property owner.	N/A
28	4124	2347-0273	2347-0272	CARREY RD	Infil Runner : 125'	No action needed.	N/A
29	4123	2347-0496	2347-0497	LEMON CREEK DR	Alignment down, 70 %	No action needed.	N/A
30	4122	2304-0283	2304-TRNK	BEL AIR DR	Alignment Left, 30 %,	No action needed.	N/A
31	4121	2303-0120	2303-0119	HEATON MOOR DR	Deposits Attached Encrustation : 325'	Hydroed Lt. grinds.	05/23/2013
32	4121	2304-0371	2304-0388	EASEMENT	Alignment down 45 %	No action needed.	N/A
33	4121	2304-0476	2304-0477	EASEMENT	Alignment down,25 %	No action needed.	N/A
34	4121	2347-0285	2347-0286	LEMON AV	Infil Runner : 54'	No action needed.	N/A
35	4100	2303-0098	2303-0097	EASEMENT	Infil Runner : 0'	No action needed.	N/A
36	4100	2303-0109	2303-0115	COLINA DR	Deposits Attached Encrustation : 263'	Hydroed Medium grease.	05/23/2013
37	4100	2303-0132	2303-0133	EASEMENT	Alignment Up, 45 %	No action needed.	N/A
38	4100	2303-0167	2303-0168	CREEKSIDE DR	Infil Runner :192'	No action needed.	N/A
39	4100	2303-0240	2303-0241	ROMERO CT	Deposits Attached Encrustation : 177'	Rodded	05/20/2013
40	4100	2347-0302	2347-0303	PASEO SONRISA	Alignment Right, 45 %,	No action needed.	N/A
41	3J00	2347-0112	2347-0111	LEMON AV	Water Level Sag, 35 % : 163'-356'	Hydroed	05/20/2013
42	3G00	2347-0300	2347-0299	EASEMENT	Water Level Sag, 50 %	Hydroed	05/20/2013

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF WALNUT (YOTV0910C)
as of 01/27/2011

NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
43	3F2A	2347-0095	2347-0096	EASEMENT	Water Level Sag, 45 % : 214'-289'	Hydroed	05/20/2013
44	3F24	2347-0096	2347-0112	EASEMENT	Water Level Sag, 45 %	Hydroed	05/20/2013
45	3F00	2347-0081	2347-0082	AVENIDA ALIPAZ	Water Level Sag, 35 %	Hydroed	05/21/2013
46	3D21	2347-0078	2347-0076	CALLE BECERRA	Deposits Attached Encrustation	Hydroed Lt. grinds.	05/21/2013
47	3C22	2347-0094	2347-0095	EASEMENT	Water Level Sag, 40 %	Hydroed	05/20/2013
48	3B21	2347-0084	2347-0082	AVENIDA ALIPAZ	Water Level Sag, 35 %	Hydroed	05/21/2013
49	3A2S	2347-0043	2347-0080	LA TORTOLA DR	Deposits Attached Encrustation & Water Level Sag, 35 %,	Hydroed Heavy grinds .	05/21/2013
50	3A2F	2347-0109	2347-0108	MEADOWBROOK LN	Water Level Sag, 35 % : 174'-221'	Hydroed	05/20/2013
51	3A27	2347-0288	2347-0287	PASEO DEL PRADO	Water Level Sag, 35 %	Hydroed	05/21/2013
52	3A24	2347-0274	2347-0273	CARREY RD	Deposits Attached Encrustation	Hydroed	05/20/2013
53	3A11	2347-0290	2347-0289	PASEO SONRISA	Water Level Sag, 35 % : 218'-267'	Hydroed	05/21/2013
54	392A	2347-0090	2347-0093	AVENIDA ALIPAZ	Water Level Sag, 35 %	Hydroed	05/21/2013
55	3921	2347-0289	2347-0288	PASEO DEL PRADO	Water Level Sag, 35 %	Hydroed	05/21/2013
56	3700	2347-0076	2347-0077	PASEO LUCER	Deposits Attached Encrustation : 3'-30'	Hydroed	05/21/2013
57	3624	2303-0155	2304-0374	EMPTY SADDLE RD	Water Level Sag, 35 %	Hydroed	05/21/2013
58	3527	2347-0490	2347-0489	EASEMENT	Water Level Sag, 35 % : 244'-265'	Hydroed	05/20/2013
59	3423	2304-0489	2304-0488	CAMINO DE ROSA	Roots Medium Joint :80' & 267', Roots Medium Lateral: 56'	Hydroed, Light roots	05/21/2013
60	3423	2347-0257	2347-0271	EASEMENT	Deposits Attached Encrustation & Water Level Sag, 45 %,	Hydroed, Medium grinds	05/20/2013
61	3400	2303-0203	2303-0063	COLUSA DR	Deposits Attached Encrustation : 0'-11'	Rodded	05/20/2013
62	3327	2303-0137	2303-0138	EASEMENT	Water Level Sag, 50 % & Deposits Attached Encrustation : 59'-66'	Hydroed, Heavy grinds .	05/24/2013
63	3321	2304-0117	2304-0116	MODOC DR	Water Level Sag, 35 % : 257'-269'	Hydroed	05/21/2013
64	3321	2304-0479	2304-0480	CAMINO DE TEODORO	Deposits Attached Encrustation & Roots Medium Lateral: 31'	Hydroed Lt. odor.	05/22/2013
65	3321	2347-0489	2347-0488	LEMON AV	Water Level Sag, 45 %	Hydroed	05/20/2013
66	3300	2347-0261	2347-0265	FUERO DR	Water Level Sag, 35 % : 169'-183'	Hydroed	05/20/2013
67	322N	2347-0276	2347-0275	CARREY RD	Roots Ball Lateral : 231' & Deposits Attached Encrustation	Hydroed	05/20/2013
68	322B	2304-0441	2304-0308	AVENIDA DEL SOL	Deposits Attached Encrustation	Hydroed Light grease.	05/22/2013
69	312M	2304-0304	2304-0308	AVENIDA DEL SOL	Deposits Attached Encrustation	Rodded	05/20/2013
70	312H	2347-0290	2347-0454	PASEO SONRISA	Deposits Attached Encrustation : 169'	Hydroed, Medium grinds	05/20/2013
71	312D	2304-0116	2304-0123	VALLEY SPRINGS DR	Deposits Attached Encrustation & Water Level Sag, 40 %,	Rodded	05/20/2013
72	312A	2303-0106	2303-0098	COLINA DR	Deposits Attached Encrustation : 93'	Hydroed Lt. grinds.	05/23/2013
73	3224	2347-0011	2347-0010	CAMINO ARROYO	Deposits Attached Encrustation	Hydroed, Light roots	05/21/2013
74	3222	2303-0117	2303-0116	HEATON MOOR DR	Deposits Attached Encrustation : 108'	Hydroed Medium grease.	05/23/2013
75	3222	2347-0279	2347-0278	CARREY RD	Infil Runner : 0.4' & 144'	No action needed.	N/A
76	3221	2304-0113	2304-0114	TUOLUMNE DR	Deposits Attached Encrustation & Infil Runner : 263'	Hydroed Lt. grinds.	05/23/2013
77	3211	2304-0411	2304-0409	VIA QUINTO	Deposits Attached Encrustation : 236' & Roots Medium Lateral: 87'	Hydroed Lt. grinds.	05/22/2013
78	3211	2347-0146	2347-0147	ALLEY	Roots Ball Lateral :111' & 213'	Lateral notice will be sent to property owner.	N/A
79	3200	2304-0394	2304-0393	STALLION CR	Deposits Attached Encrustation	Hydroed Lt. grinds.	05/23/2013
80	3129	2304-0291	2304-0260	CRESTWOOD LN	Deposits Attached Encrustation	Rodded	05/20/2013
81	3128	2347-0292	2347-0454	PASEO SONRISA	Deposits Attached Encrustation : 97'	Hydroed, Medium grinds	05/20/2013
82	3125	2304-0442	2304-0441	AVENIDA DEL SOL	Deposits Attached Encrustation	Hydroed, Light grease.	05/22/2013
83	3124	2303-0118	2303-0117	HEATON MOOR DR	Deposits Attached Encrustation : 150'	Hydroed , Medium grease.	05/23/2013
84	3123	2304-0439	2304-0440	ACASO DR	Deposits Attached Encrustation	Hydroed, Light grease.	05/22/2013

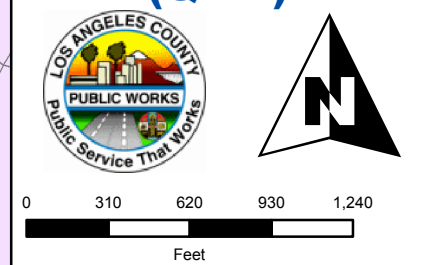
ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF WALNUT (Y0TV0910C)
as of 01/27/2011

NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
85	3123	2347-0106	2347-0107	WILLOW RD	Deposits Attached Encrustation : 85'	Hydroed, Light deposits.	05/20/2013
86	3122	2347-0092	2347-0091	CALLE LASUEN	Deposits Attached Encrustation :249'	Hydroed Lt. grinds.	05/20/2013
87	3121	2303-0016	2303-0015	CALAVERAS DR	Water Level Sag, 70 %: 64'-70' & Infil Dripper : 69'	Hydroed, Light grease.	05/24/2013
88	3121	2304-0231	2304-0232	AURORA DR	Deposits Attached Encrustation : 162'	Hydroed Lt. grinds.	05/23/2013
89	3121	2304-0251	2304-0515	SHAKESPEARE DR	Deposits Attached Encrustation : 0'	Hydroed Lt. grinds.	05/22/2013
90	3115	2304-0400	2304-0399	VISTA DEL NORTE	Roots Medium Lateral: 280'	Lateral notice will be sent to property owner.	N/A
91	3113	2303-0211	2303-0196	CIMMARON CT	Deposits Attached Encrustation : 0'	Rodded	05/20/2013
92	3113	2304-0491	2304-0492	VISTA RAMBLA	Roots Medium Connection :14'	Hydroed, Light roots	05/21/2013
93	3113	2347-0132	2347-0133	CAMINO DE GLORIA	Roots Medium Lateral: 247'	Lateral notice will be sent to property owner.	N/A
94	3112	2304-0254	2304-0255	RIVIERA DR	Deposits Attached Encrustation : 294'	Hydroed Lt. grinds.	05/23/2013
95	3111	2303-0006	2303-0007	GOLD HILL DR	Deposits Attached Encrustation :260'	Hydroed Lt. grinds.	05/24/2013
96	3111	2304-0419	2304-0420	CAMINO ARROYO	Roots Medium Lateral: 207'	Lateral notice will be sent to property owner.	N/A
97	3100	2303-0004	2304-0120	SUTTER CREEK DR	Deposits Attached Encrustation :134'	Hydroed, Light grease.	05/24/2013
98	3100	2303-0007	2303-0008	GOLD HILL DR	Deposits Attached Encrustation : 0'	Hydroed Lt. grinds.	05/24/2013
99	3100	2303-0021	2303-0015	EASEMENT	Deposits Attached Encrustation : 137'	Hydroed, Light grease.	05/24/2013
100	3100	2304-0228	2304-0230	AURORA DR	Deposits Attached Encrustation : 314'	Hydroed Lt. grinds.	05/23/2013
101	3100	2304-0255	2304-0256	RIVIERA DR	Deposits Attached Encrustation : 0'	Hydroed Lt. grinds.	05/23/2013
102	3100	2346-0412	2346-0413	BRIDLE PATH LN	Deposits Attached Encrustation :159'	Hydroed, Light grease.	05/21/2013

CCTV PROJECT
Y0TV0910C

Supervisory District 5
City of Walnut

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

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

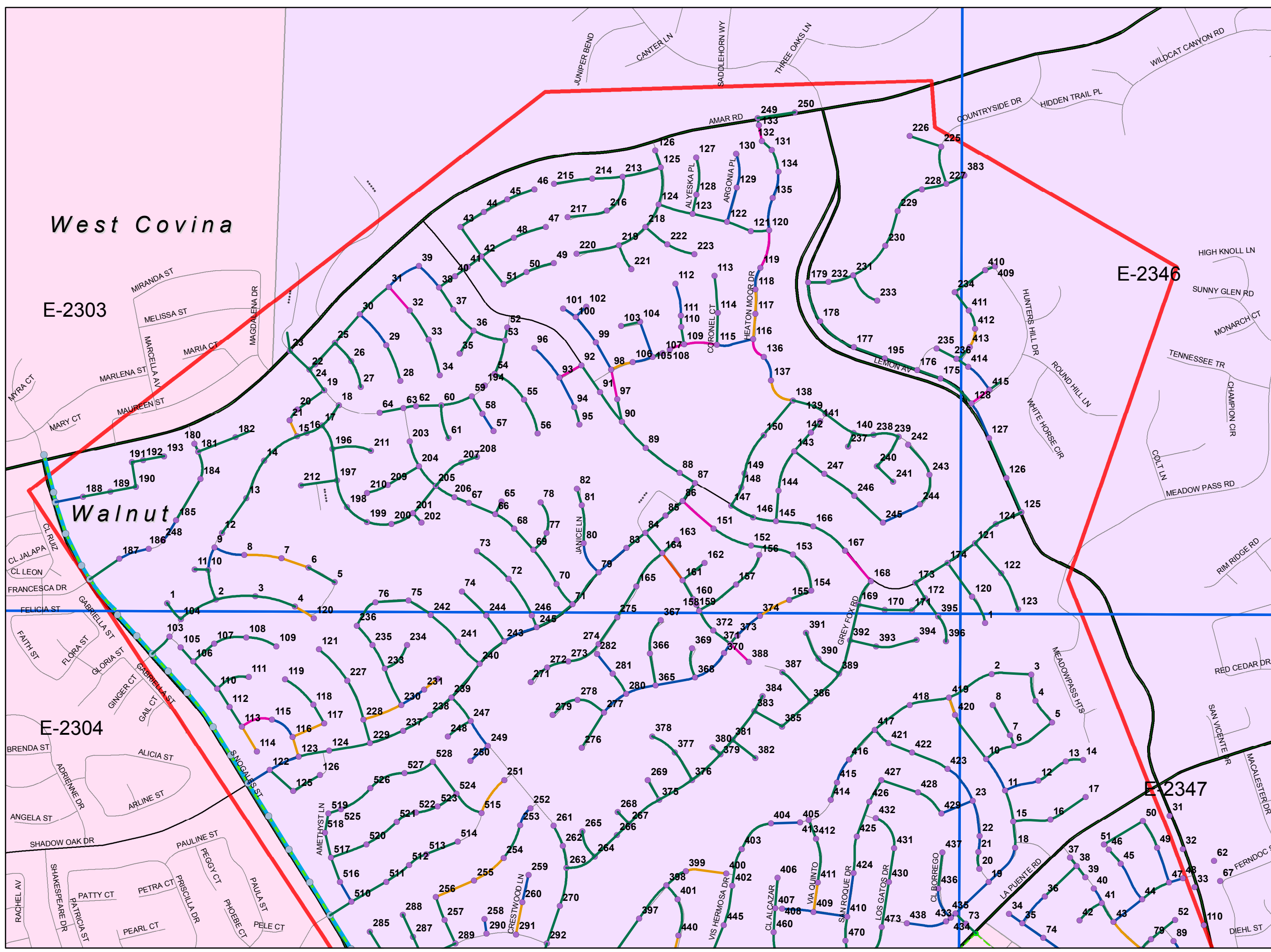
SMD Manholes

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

Maintained by Others:

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

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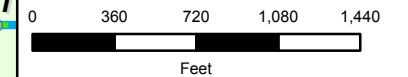
ENCLOSURE 2

CCTV PROJECT

Y0TV0910C

Supervisory District 5
City of Walnut

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

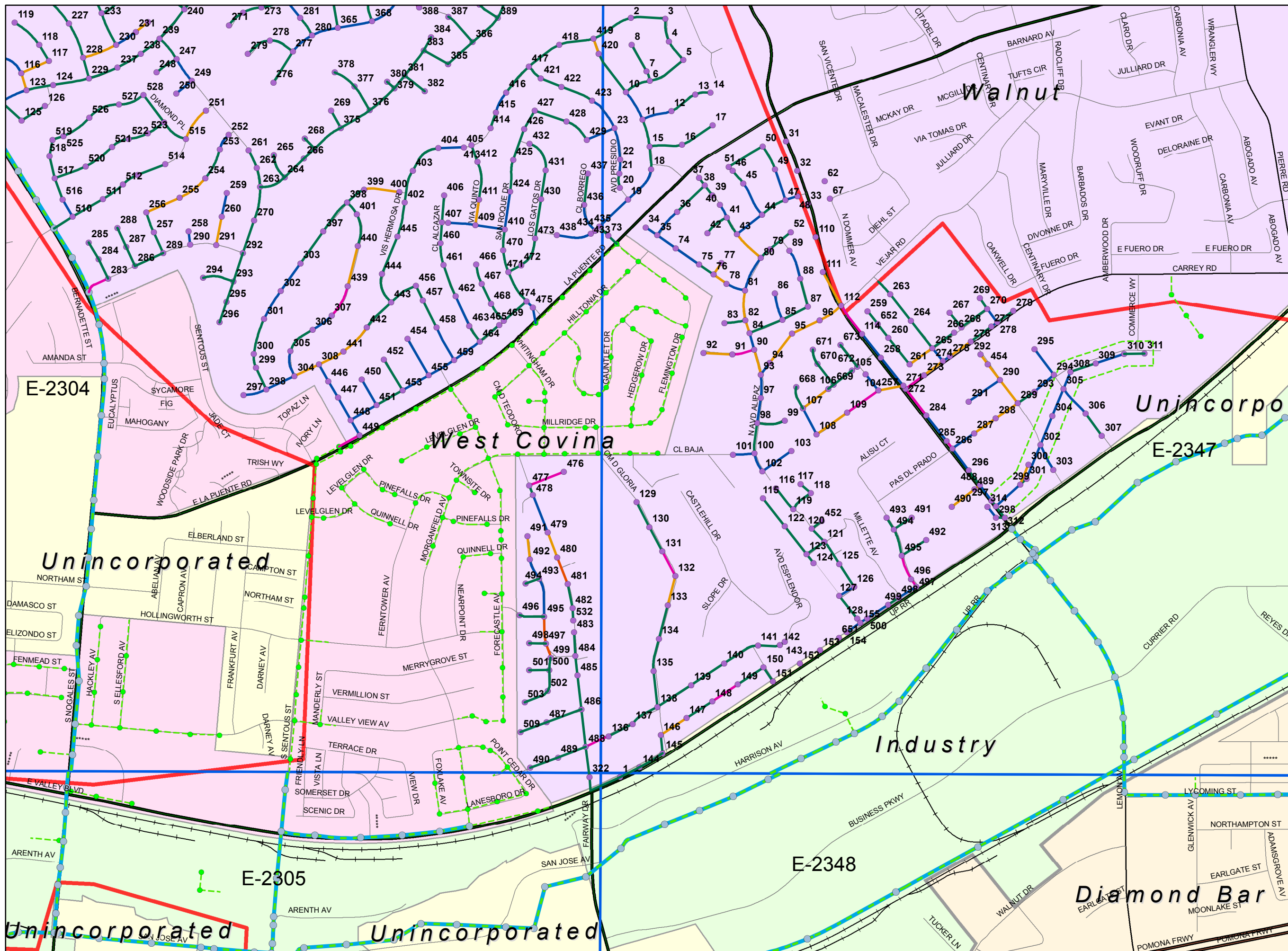
- Other
- Standard
- DROP
- Shallow
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June 2013



E-2304

Unincorporated

E-2347

West Covina

Industry

E-2348

Diamond Bar

E-2305

Unincorporated

Unincorporated

Unincorporated

ENCLOSURE 2
HIGH WATER LEVELS
CITY OF WALNUT (Y0TV0910C)

as of 01/27/2011

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (ft)
1	432B	2347-0495	2347-0496	LEMON CREEK DR	Camera Underwater: 211'-222'	11
2	3527	2347-0490	2347-0489	EASEMENT	Water Level Sag, 40 % : 244'-265'	21
3	3321	2347-0489	2347-0488	LEMON AV	Water Level Sag, 45 %	64
4	3G00	2347-0300	2347-0299	EASEMENT	Water Level Sag, 50 %	200
5	3A11	2347-0290	2347-0289	PASEO SONRISA	Water Level Sag, 40 % : 218'-267'	49
6	3921	2347-0289	2347-0288	PASEO DEL PRADO	Water Level Sag, 40 %	248
7	3A27	2347-0288	2347-0287	PASEO DEL PRADO	Water Level Sag, 40 %	245
8	3300	2347-0261	2347-0265	FUERO DR	Water Level Sag, 40 % : 169'-183'	14
9	3423	2347-0257	2347-0271	EASEMENT	Water Level Sag, 45 %,	242
10	4A3A	2347-0112	2347-0114	LEMON AV	Camera Underwater: 135'-177'	42
11	3J00	2347-0112	2347-0111	LEMON AV	Water Level Sag, 40 % : 163'-356'	193
12	3A2F	2347-0109	2347-0108	MEADOWBROOK LN	Water Level Sag, 40 % : 174'-221'	47
13	3F24	2347-0096	2347-0112	EASEMENT	Water Level Sag, 45 %	312
14	3F2A	2347-0095	2347-0096	EASEMENT	Water Level Sag, 45 % : 214'-289'	75
15	3C22	2347-0094	2347-0095	EASEMENT	Water Level Sag, 40 %	344
16	392A	2347-0090	2347-0093	AVENIDA ALIPAZ	Water Level Sag, 40 %	245
17	3B21	2347-0084	2347-0082	AVENIDA ALIPAZ	Water Level Sag, 40 %	124
18	3F00	2347-0081	2347-0082	AVENIDA ALIPAZ	Water Level Sag, 40 %	287
19	3A2S	2347-0043	2347-0080	LA TORTOLA DR	Water Level Sag, 40 %	319
20	4133	2346-0415	2346-0128	HUNTERS HILL DR	Camera Underwater & Water Level Sag, 45 % : 153'- 165'	12
21	412A	2304-0449	2304-CITY	LA PUENTE RD	Water Mark, 50 % : 157'	219
22	3321	2304-0117	2304-0116	MODOC DR	Water Level Sag, 40 % : 257'-269'	12
23	312D	2304-0116	2304-0123	VALLEY SPRINGS DR	Water Level Sag, 40 %,	167
24	4138	2304-0115	2304-0113	VALLEY SPRINGS DR	Water Level Sag, 40 %,	265
25	3624	2303-0155	2304-0374	EMPTY SADDLE RD	Water Level Sag, 35 %	272
26	492B	2303-0151	2303-0086	ROCKING HORSE RD	Camera Underwater: 292'-328'	36
27	3327	2303-0137	2303-0138	EASEMENT	Water Level Sag, 50 %	256
28	463F	2303-0116	2303-0136	EASEMENT	Water Level Sag, 45 % & Camera Underwater	191
29	4536	2303-0092	2303-0093	FELISE PL	Water Level Sag, 50 % & Camera Underwater :78'- 101'	23
30	3121	2303-0016	2303-0015	CALAVERAS DR	Water Level Sag, 70 %: 64'-70'	6

ENCLOSURE 2
INFILTRATION
CITY OF WALNUT (Y0TV0910C)
as of 01/27/2011

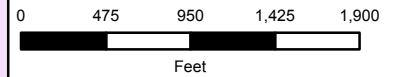
Item No.	QMR	START MH	END MH	STREET	OBSERVATION	Proposed Corrective Method
1	4121	2347-0285	2347-0286	LEMON AV	Infil Runner : 54'	Infiltration is minimal. No action needed.
2	3222	2347-0279	2347-0278	CARREY RD	Infil Runner : 0.4' & 144'	Infiltration is minimal. No action needed.
3	4124	2347-0273	2347-0272	CARREY RD	Infil Runner : 125'	Infiltration is minimal. No action needed.
4	4131	2347-0272	2347-0284	LEMON AV	Infil Runner : 83'	Infiltration is minimal. No action needed.
5	3221	2304-0113	2304-0114	TUOLUMNE DR	Infil Runner : 263'	Infiltration is minimal. No action needed.
6	4100	2303-0167	2303-0168	CREEKSIDE DR	Infil Runner :192'	Infiltration is minimal. No action needed.
7	4100	2303-0098	2303-0097	EASEMENT	Infil Runner : 0'	Infiltration is minimal. No action needed.
8	3121	2303-0016	2303-0015	CALAVERAS DR	Infil Dripper : 69'	Infiltration is minimal. No action needed.

CCTV PROJECT

Y0TV0910C

City of Walnut

HIGH WATER LEVEL



Legend

HIGH WATER LEVELS

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

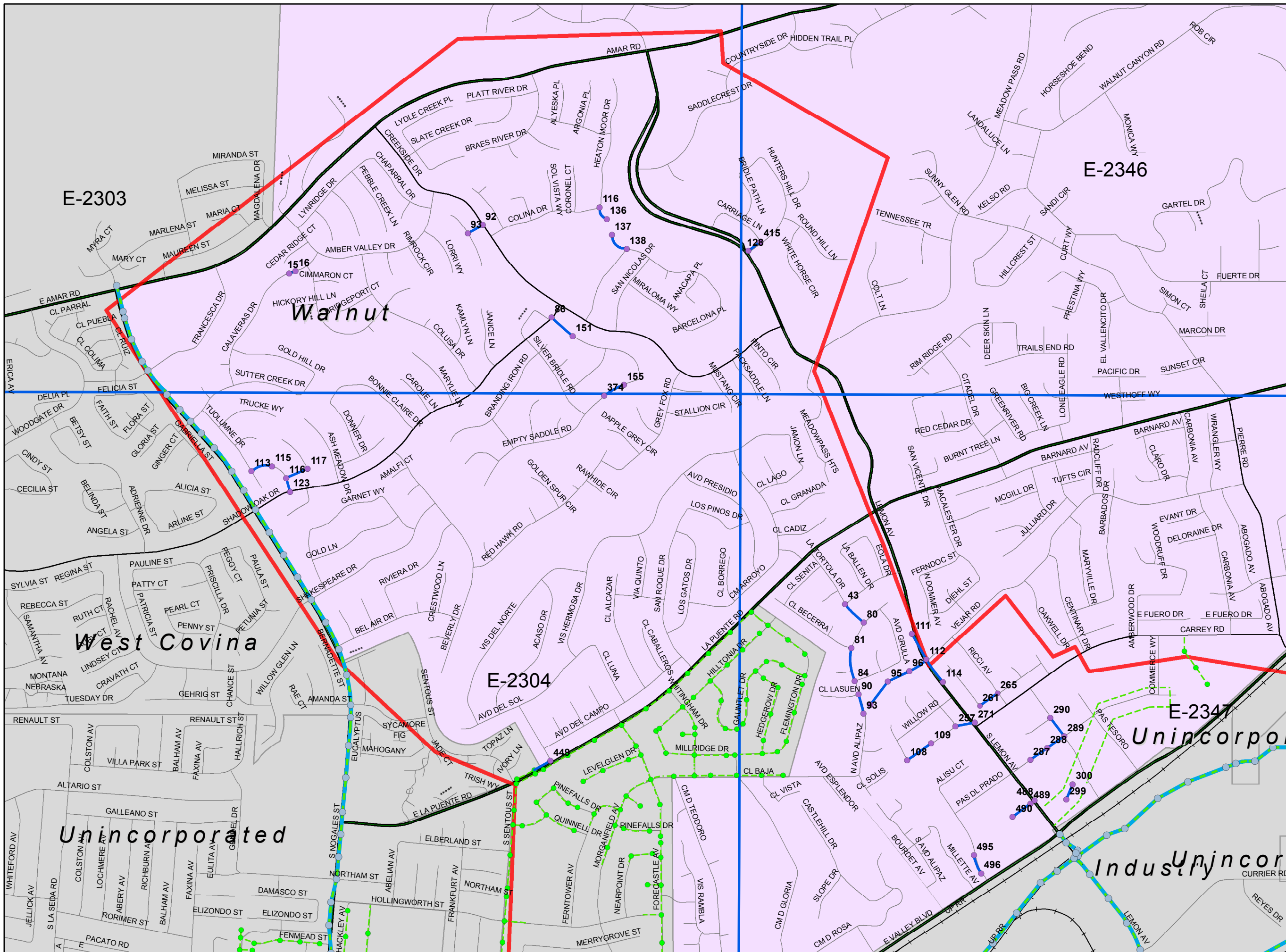
Non SMD Maintained MH

SMD Operations Maps

Y0TV0910C

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JUNE 2013



E-2303

E-2346

Walnut

West Covina

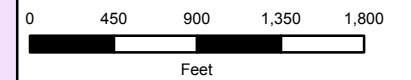
E-2304

E-2347

Unincorporated

Unincorporated

Unincorporated



Legend

INFILTRATION

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

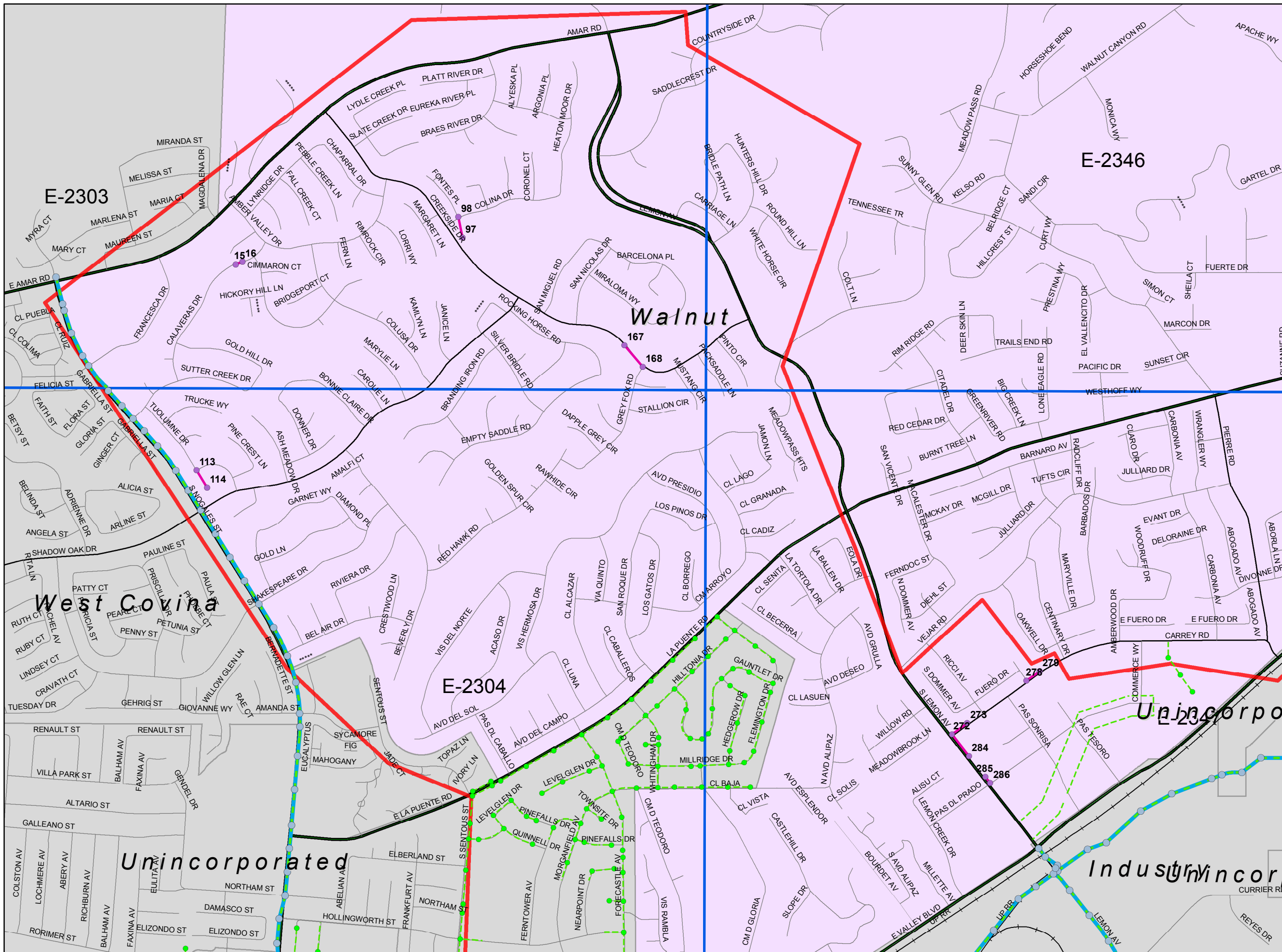
Non SMD Maintained MH

SMD Operations Maps

YOTV0910C

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JUNE 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.

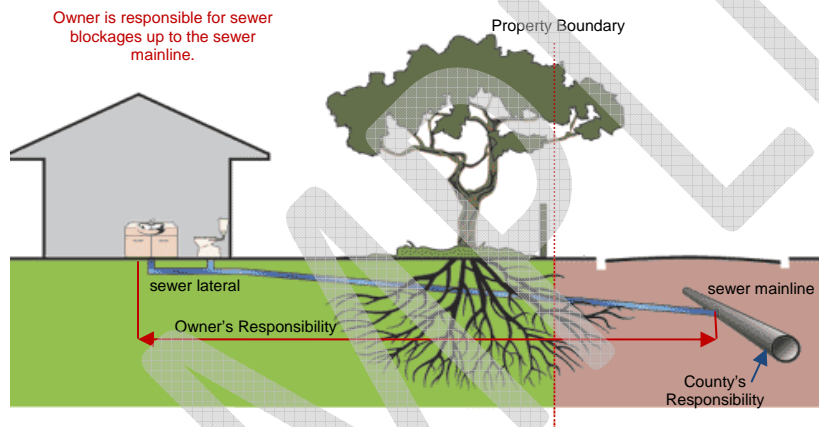
XXXX
Roots at Lateral Connection



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

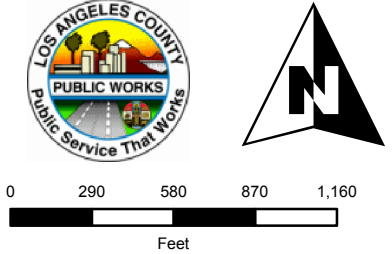
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF WALNUT (Y0TV0910C)
as of 01/27/2011

ITEM NO	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF
							REPAIR (FT)
1	512I	2347-0304	2347-0302	EASEMENT	Broken: 252'	Structural integrity in tact. No action needed.	
2	512A	2347-0090	2347-0091	CALLE LASUEN	Broken: 31'	Structural integrity in tact. No action needed.	
3	5200	2346-0122	2346-0121	PINTO CR	Broken: 302'-304'	Point Repair	
4	5142	2347-0084	2347-0082	AVENIDA ALIPAZ	Broken/deformed/fractures: 61'	Lining: MH to MH	129
5	5141	2347-0094	2347-0095	EASEMENT	Broken/fractures: 2'	Structural integrity in tact. No action needed.	
6	5131	2347-0078	2347-0081	CALLE BECERRA	Broken: 139'	Structural integrity in tact. No action needed.	
7	5121	2303-0191	2303-0192	EASEMENT	Joint Offset (large): 123'	Structural integrity in tact. No action needed.	
8	5100	2303-0167	2303-0168	CREEKSIDE DR	Broken/infiltration: 190'-192'	Lining: MH to MH	343
9	5100	2304-0125	2304-0122	EASEMENT	Broken/infiltration: 226'	Lining: MH to MH	227
10	5100	2304-0418	2304-0417	VISTA HERMOSA DR	Broken/joint offset: 238'	Point Repair	
11	5100	2304-0478	2304-0479	CAMINO DE TEODORO	Broken inside lateral: 225'	Structural integrity in tact. No action needed.	
12	4A21	2303-0170	2303-0169	RUNNING BRAND CR	Water level sag (60 %): 147'-205'	Structural integrity in tact. No action needed.	
13	413A	2347-0288	2347-0287	PASEO DEL PRADO	Fractures: 248' (part of manhole base)	Structural integrity in tact. No action needed.	
14	4100	2303-0016	2303-0015	CALAVERAS DR	Obstracle (intruding)/infiltration: 70'	Structural integrity in tact. No action needed.	
15	4100	2304-0503	2304-0502	VISTA RAMBLA	Fractures: 231'	Structural integrity in tact. No action needed.	
16	4100	2304-0464	2304-0459	AVENIDA DEL CAMPO	Broken: 165'	Structural integrity in tact. No action needed.	

CCTV PROJECT
Y0TV0910C

Supervisory District 5
City of Walnut

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

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

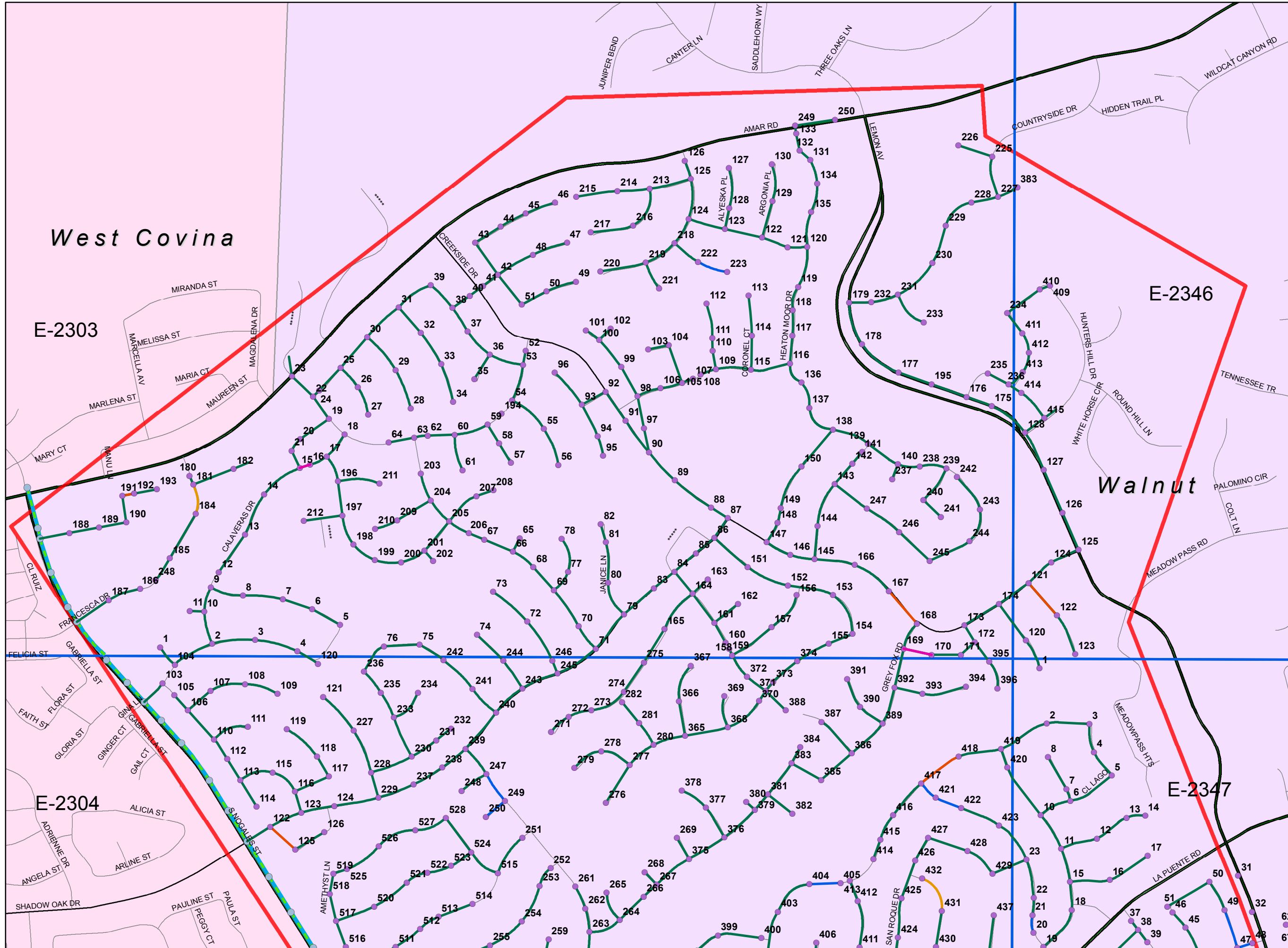
SMD Manholes

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

Maintained by Others:

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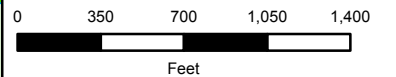


CCTV PROJECT

Y0TV0910C

Supervisorial District 5
City of Walnut

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

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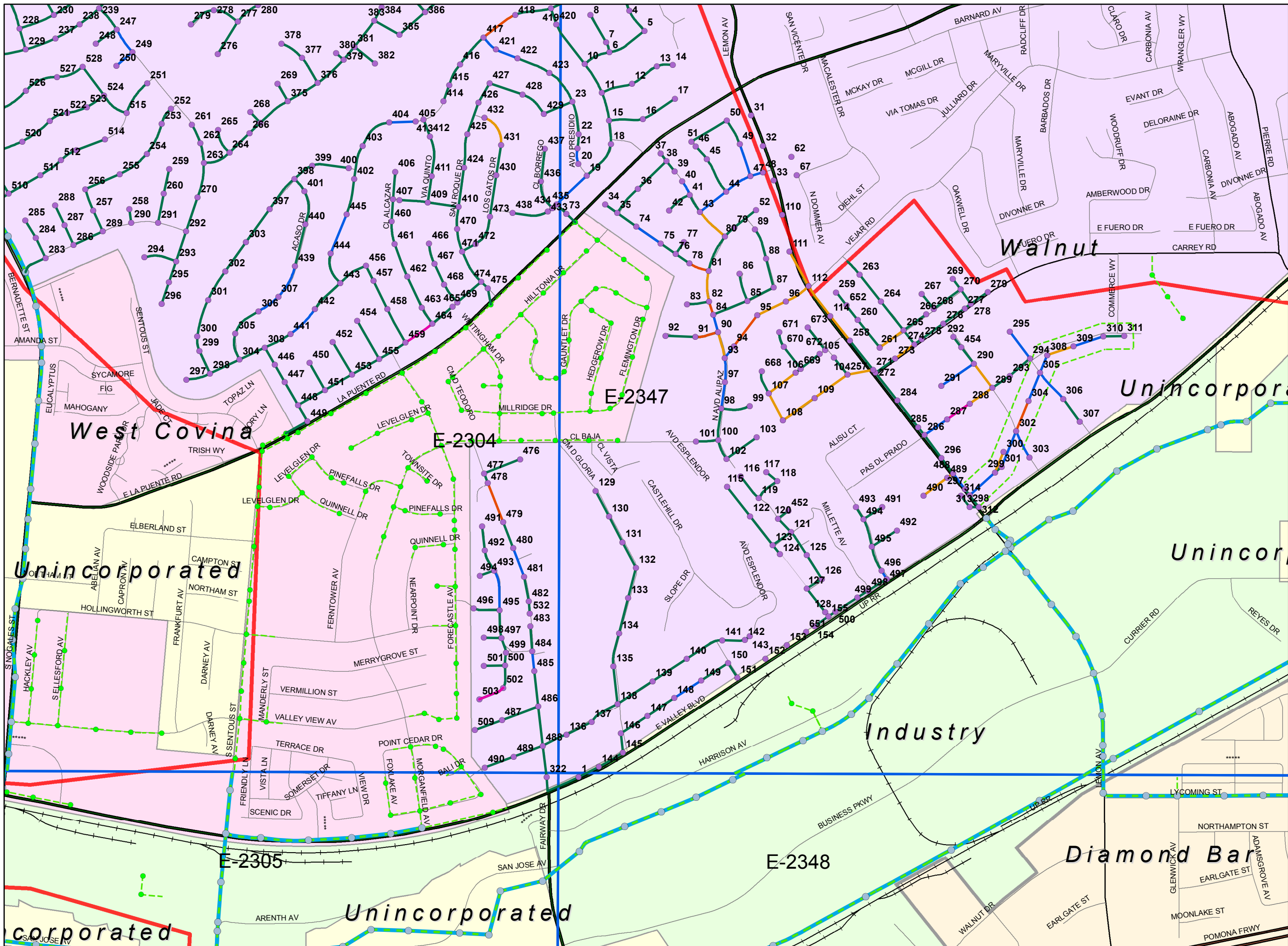
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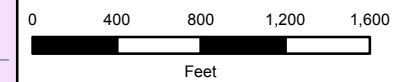
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CCTV PROJECT
Y0TV0910C

City of Walnut

LINING &
POINT REPAIR
PROJECTS



Legend

- Lining MH to MH
- Point Repair

SMD Manholes

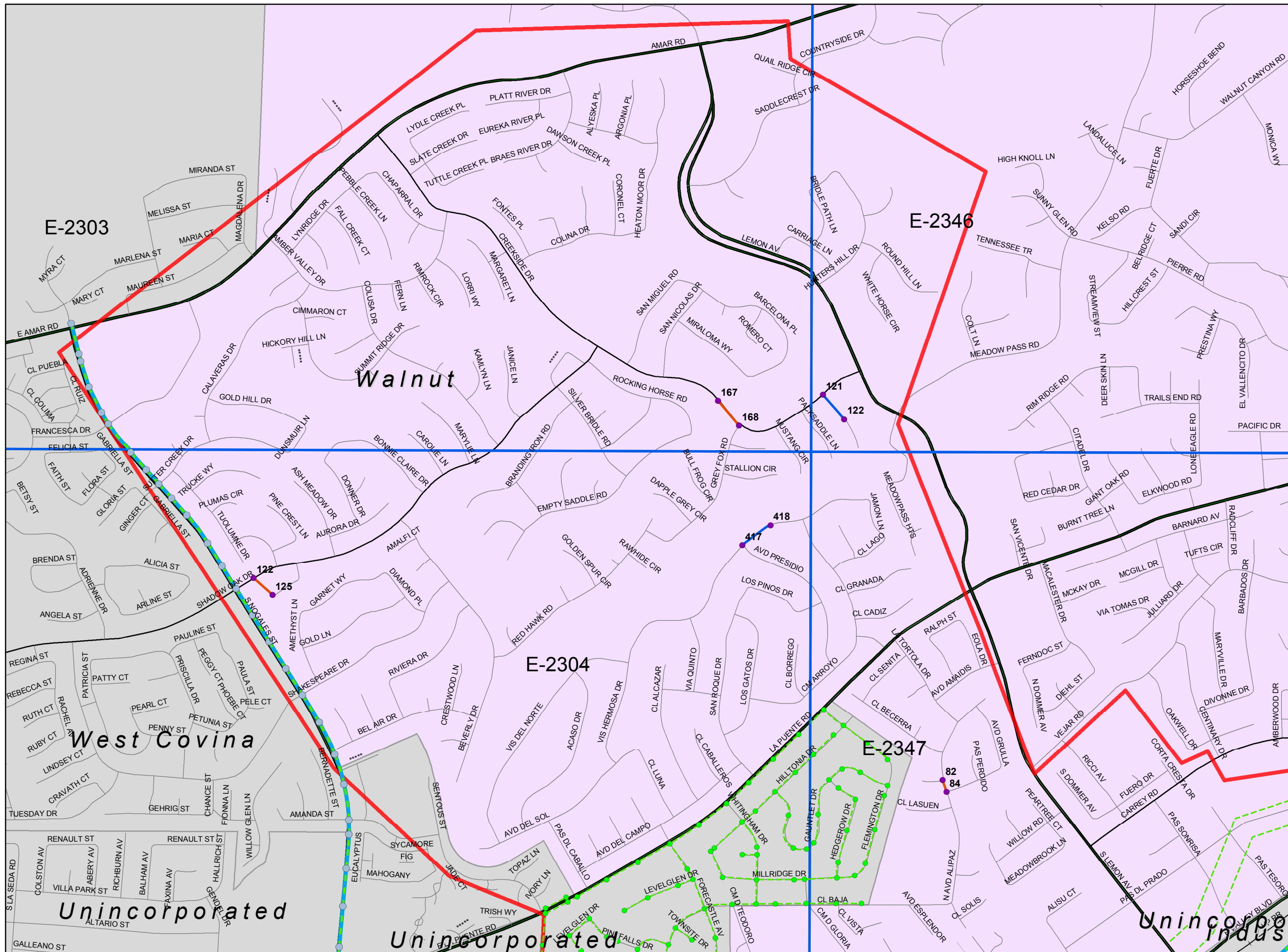
- Other
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- DROP
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June 2013



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20101008	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1067	PSR: 92105
Total Pipe Length: 289.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/07/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2347-0304
City: WAL	Year Renewed	End MH: 2347-0302
Location Code: Easement/Right of Way	Tape/Media #: G312-011	pipe length: 292.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 12"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0302/2347-0304/2347	Lining Method:
	Category:

Remark::

1:675	position	observation	grade
			0 FT // 00:01:06 0 FT // 00:01:15 44.5 FT // 00:02:39 60.4 FT // 00:03:18 60.4 FT // 00:03:18
	2347		
	2347-0304	Manhole, within 8 inch: NO, Remarks: 2347-0304	
	0.00		
	0.00	Water Level, 15 %, within 8 inch: NO	
	44.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	60.40 S1	Water Level Sag, 25 %, within 8 inch: NO, Start	S 2
	129.50 F1	Water Level Sag, 25 %, within 8 inch: NO, End	S 2
	129.50	Water Level, 15 %, within 8 inch: NO	
	146.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	162.40 S2	Water Level Sag, 25 %, within 8 inch: NO, Start	S 2
	247.40	General Observation, within 8 inch: NO, Remarks: JOINT LENGTH 5'	
	252.40	Broken, from 12 to 3 o'clock, within 8 inch: YES	S 5
	252.40	Roots Fine Joint, from 12 to 3 o'clock, within 8 inch: YES	M 1
	252.40	Intruding Sealing Other, from 12 to 3 o'clock, 10 %, within 8 inch: YES	M 2
	269.00 F2	Water Level Sag, 25 %, within 8 inch: NO, End	S 2
	269.00	Water Level, 15 %, within 8 inch: NO	
	292.70	Manhole, within 8 inch: NO, Remarks: 2347-0302	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
512I	2111	93	91	184	2.07	1.98	2.02



Inspection report

Date: 20101005	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1569	PSR: 96998
Total Pipe Length: 294.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/30/2010	Pre-Cleaned: Jetting	Map Grid #: 2304

Street: AVENIDA DEL CAMPO	Flow Control: Not Controlled	Start MH: 2304-0464
City: WAL	Year Renewed	End MH: 2304-0459
Location Code: Light Highway	Tape/Media #: R311-033	pipe length: 242.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0459/2304-0464/2304	Lining Method:
	Category:

Remark::

1:550	position	observation	grade
			0 FT // 00:00:24
			7.5 FT // 00:01:06
			8.1 FT // 00:01:22
			13.2 FT // 00:01:54
			70.3 FT // 00:03:40
	0.00	Manhole, within 8 inch: NO, Remarks: 2304-0464	
	7.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	8.10	Water Level, 5 %, within 8 inch: NO	
	13.20	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 5'	
	70.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	138.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	138.70	Deposits Attached Encrustation, at 9 o'clock, 5 %, within 8 inch: NO	M 2
	142.00	Deposits Attached Encrustation, from 9 to 3 o'clock, 5 %, within 8 inch: NO, Start	M 2
	165.30	Broken, from 5 to 7 o'clock, within 8 inch: YES	S 4
	207.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	213.20	Deposits Attached Encrustation, from 9 to 3 o'clock, 5 %, within 8 inch: NO, End	M 2
	218.80	Deposits Attached Encrustation, from 8 to 4 o'clock, 5 %, within 8 inch: NO, Start	M 2
	242.60	Deposits Attached Encrustation, from 8 to 4 o'clock, 5 %, within 8 inch: NO, End	M 2
	242.60	Abandoned Survey, within 8 inch: NO, Remarks: Due To Deposits Attached	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2D00	4	50	54	4	2	2.08



Inspection report

Date: 20101007	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 1300	PSR: 96920
Total Pipe Length: 245.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/05/2010	Pre-Cleaned: Heavy Cleaning	Map Grid #:

Street: VISTA RAMBLA	Flow Control: Not Controlled	Start MH: 2304-0503
City: WAL	Year Renewed	End MH: 2304-0502
Location Code: Light Highway	Tape/Media #: M317-027	pipe length: 234.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0503/2304-0502/2304	Lining Method:
	Category:

Remark::

1:525	position	observation	grade
2304			
			0 FT // 00:00:24
			2.5 FT // 00:00:44
			4.5 FT // 00:01:07
			6.1 FT // 00:01:47
			21.3 FT // 00:02:20
	2304-0503	Manhole, within 8 inch: NO, Remarks: 2304-0503	
	0.00		
	2.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	4.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	6.10	Water Level, 5 %, within 8 inch: NO	
	21.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	21.30	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	M 1
	53.90	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	71.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	139.90	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	141.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	205.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	217.60	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	231.70	Fracture Multiple, from 9 to 3 o'clock, within 8 inch: YES	S 4
	234.10	Manhole, within 8 inch: NO, Remarks: 2304-0502	

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



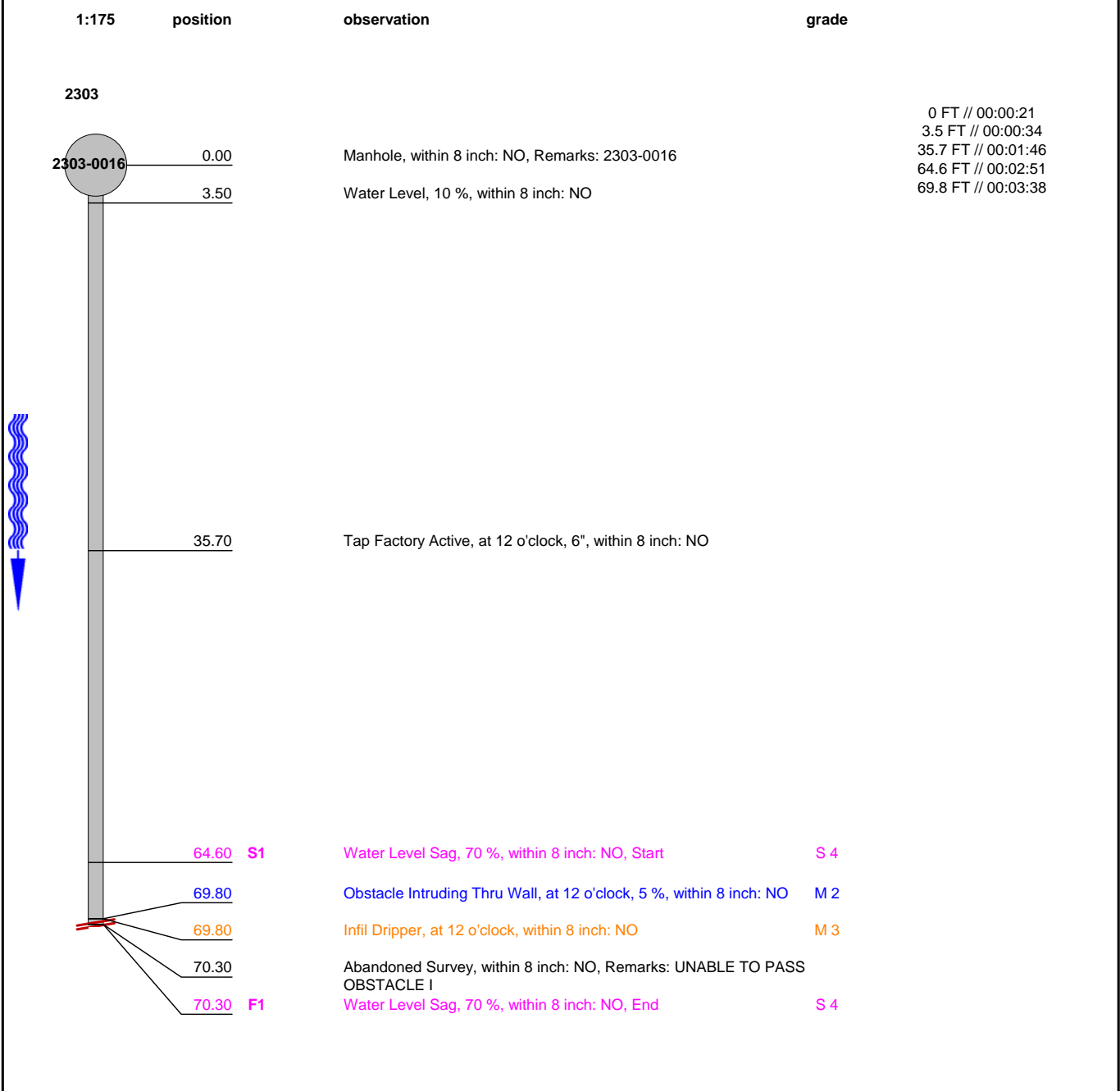
Inspection report

Date: 20100924	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 251	PSR: 97649
Total Pipe Length: 80.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/22/2010	Pre-Cleaned: Heavy Cleaning	Map Grid #:

Street: CALAVERAS DR	Flow Control: Not Controlled	Start MH: 2303-0016
City: WAL	Year Renewed:	End MH: 2303-0015
Location Code: Light Highway	Tape/Media #: M317-021	pipe length: 70.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Reinforced Plastic Pipe (Truss Pipe) Pipe Length:
Drain. Area: 0016/2303-0015/2303	Lining Method:
	Category:

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3121	4	5	9	4	2.5	3



Inspection report

Date: 20101006	P.O.#: Y0TV0910C	Weather: Light Rain	Surveyed By: Gilbert Contreras	section number: 1042	PSR: 92087
Total Pipe Length: 245.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/05/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: PASEO DEL PRADO	Flow Control: Not Controlled	Start MH: 2347-0288
City: WAL	Year Renewed:	End MH: 2347-0287
Location Code: Light Highway	Tape/Media #: G312-009	pipe length: 251.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0287/2347-0288/2347	Lining Method:
	Category:

Remark::

1:575	position	observation	grade
			0 FT // 00:00:36 0 FT // 00:00:44 70.6 FT // 00:04:01 70.6 FT // 00:04:01 76 FT // 00:04:34
	2347		
	2347-0288	Manhole, within 8 inch: NO, Remarks: 2347-0288	
	0.00		
	0.00	Water Level, 15 %, within 8 inch: NO	
	70.60	S1 Water Level Sag, 30 %, within 8 inch: NO, Start	S 2
	76.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	92.80	F1 Water Level Sag, 30 %, within 8 inch: NO, End	S 2
	92.80	Water Level, 15 %, within 8 inch: NO	
	204.50	S2 Water Level Sag, 35 %, within 8 inch: NO, Start	S 3
	243.70	F2 Water Level Sag, 35 %, within 8 inch: NO, End	S 3
	248.70	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	248.70	Deposits Attached Encrustation, from 7 to 5 o'clock, 10 %, within 8 inch: YES	M 2
	248.70	General Observation, within 8 inch: NO, Remarks: joint length 5'	
	251.30	Manhole, within 8 inch: NO, Remarks: 2347-0287	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413A	3A27	46	44	90	2.71	2.59	2.65



Inspection report

Date: 20100930	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 325	PSR: 97572
Total Pipe Length: 216.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/28/2010	Pre-Cleaned: Heavy Cleaning	Map Grid #:

Street: RUNNING BRAND CR	Flow Control: Not Controlled	Start MH: 2303-0170
City: WAL	Year Renewed:	End MH: 2303-0169
Location Code: Light Highway	Tape/Media #: M317-024	pipe length: 214.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Reinforced Plastic Pipe (Truss Pipe) Pipe Length:
Drain. Area: 0170/2303-0169/2303	Lining Method:
	Category:

Remark::

1:500	position	observation	grade
			0 FT // 00:00:19 6 FT // 00:01:05 17.7 FT // 00:01:40 18.6 FT // 00:02:04 18.6 FT // 00:02:04
	2303-0170 0.00	Manhole, within 8 inch: NO, Remarks: 2303-0170	
	6.00	Water Level, 20 %, within 8 inch: NO	
	17.70	Water Level, 70 %, within 8 inch: NO	
	18.60	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	S 2
	19.70	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	
	25.20	Water Level, 15 %, within 8 inch: NO	
	65.70	Water Level, 30 %, within 8 inch: NO	
	81.40	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	
	88.20	Water Level, 20 %, within 8 inch: NO	
	147.40 S1	Water Level Sag, 60 %, within 8 inch: NO, Start	S 4
	150.00	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	
	205.30 F1	Water Level Sag, 60 %, within 8 inch: NO, End	S 4
	208.50	Water Level, 15 %, within 8 inch: NO	
	2303-0169 214.10	Manhole, within 8 inch: NO, Remarks: 2303-0169	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4A21	0000	58	0	58	3.87	0	3.87



Inspection report

Date: 20101007	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 1291	PSR: 97016
Total Pipe Length: 375.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/05/2010	Pre-Cleaned: Heavy Cleaning	Map Grid #:

Street: CAMINO DE TEODORO	Flow Control: Not Controlled	Start MH: 2304-0478
City: WAL	Year Renewed:	End MH: 2304-0479
Location Code: Light Highway	Tape/Media #: M317-027	pipe length: 269 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0478/2304-0479/2304	Lining Method:
	Category:

Remark::

1:600	position	observation	grade
2304			
			0 FT // 00:00:21
			5 FT // 00:00:58
			6 FT // 00:01:17
			9.6 FT // 00:01:43
			37.3 FT // 00:02:40
	0.00	Manhole, within 8 inch: NO, Remarks: 2304-0478	
	5.00	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	6.00	Water Level, 10 %, within 8 inch: NO	
	9.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	37.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	140.00	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	
	172.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	225.10	Tap Factory Defective, at 9 o'clock, 6", within 8 inch: NO	M 2
	225.10	Broken, from 9 to 4 o'clock, within 8 inch: NO, Remarks: IN LATERAL	S 5
	232.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	269.00	Manhole, within 8 inch: NO, Remarks: 2304-0479	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2100	5	2	7	5	2	3.5



Inspection report

Date: 20100929	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 804	PSR: 97073
Total Pipe Length: 352.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/24/2010	Pre-Cleaned: Jetting	Map Grid #: 2304

Street: VISTA HERMOSA DR	Flow Control: Not Controlled	Start MH: 2304-0418
City: WAL	Year Renewed	End MH: 2304-0417
Location Code: Light Highway	Tape/Media #: R311-030	pipe length: 238.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0417/2304-0418/2304	Lining Method:
	Category:

Remark::

1:550	position	observation	grade
			0 FT // 00:00:30
			4.5 FT // 00:01:01
			15.6 FT // 00:01:47
			21.7 FT // 00:02:15
			28.6 FT // 00:02:37
	2304-0418	Manhole, within 8 inch: NO, Remarks: 2304-0418	
	4.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	15.60	Water Level, 5 %, within 8 inch: NO	
	21.70	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 6'	
	28.60	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	
	36.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	106.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	125.60	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	150.40	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	
	163.90	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	
	238.10	Broken, from 10 to 4 o'clock, within 8 inch: YES, Remarks: Broken Joint S 5	
	238.10	Abandoned Survey, within 8 inch: NO, Remarks: Due To Broken Joint	

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



Inspection report

Date: 20100924	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 752	PSR: 97277
Total Pipe Length: 255.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/20/2010	Pre-Cleaned: Jetting	Map Grid #: 2304

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2304-0125
City: WAL	Year Renewed	End MH: 2304-0122
Location Code: Light Highway	Tape/Media #: R311-027	pipe length: 226.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Reinforced Plastic Pipe (Truss Pipe) Pipe Length:
Drain. Area: 0122/2304-0125/2304	Lining Method:
	Category:

Remark::

1:525	position	observation	grade
			0 FT // 00:00:18
			5.7 FT // 00:02:56
			7.9 FT // 00:03:15
			19.1 FT // 00:03:41
			31.2 FT // 00:04:14
		Manhole, within 8 inch: NO, Remarks: 2304-0125 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO Water Level, 5 %, within 8 inch: NO Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	226.70 226.70	Broken Soil Visible, from 11 to 1 o'clock, within 8 inch: NO	S 5
		Abandoned Survey, within 8 inch: NO, Remarks: Due To Broken Soil Visibl	

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



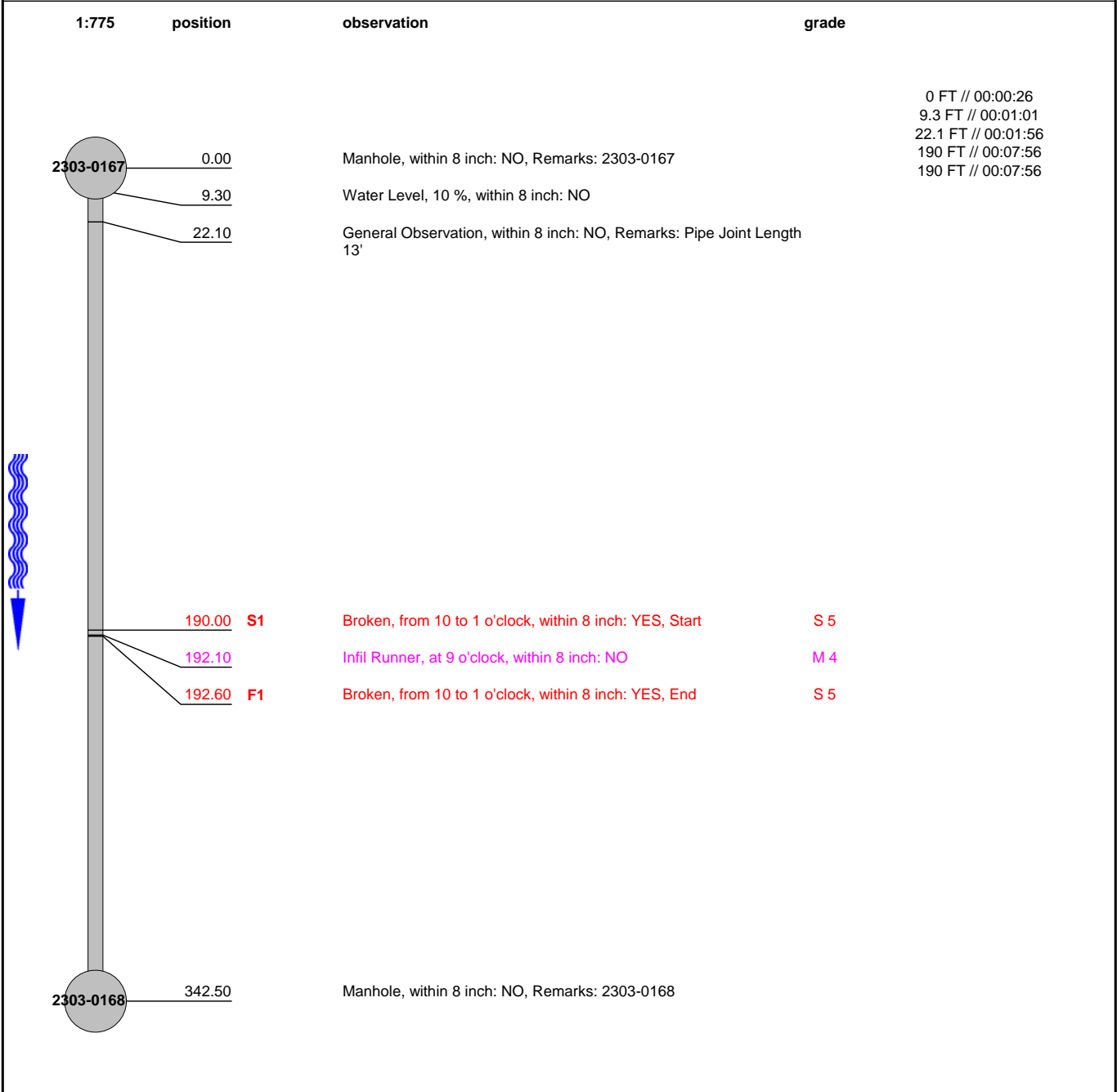
Inspection report

Date: 20100908	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 632	PSR: 97570
Total Pipe Length: 324.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/03/2010	Pre-Cleaned: Jetting	Map Grid #: 2303

Street: CREEKSIDE DR	Flow Control: Not Controlled	Start MH: 2303-0167
City: WAL	Year Renewed:	End MH: 2303-0168
Location Code: Light Highway	Tape/Media #: R311-021	pipe length: 342.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"/8"
Use of Sewer: Sanitary	Material: Reinforced Plastic Pipe (Truss Pipe) Pipe Length:
Drain. Area: 0167/2303-0168/2303	Lining Method:
	Category:

Remark::



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4100	5	4	9	5	4	4.5



Inspection report

Date: 20100929	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 294	PSR: 97479
Total Pipe Length: 45.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/28/2010	Pre-Cleaned: Heavy Cleaning	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2303-0191
City: WAL	Year Renewed	End MH: 2303-0192
Location Code: Light Highway	Tape/Media #: M317-023	pipe length: 124.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0192/2303-0191/2303	Lining Method:
	Category:

Remark::

1:300	position	observation	grade
2303			
			0 FT // 00:00:17
			0 FT // 00:00:23
			6 FT // 00:01:06
			35 FT // 00:02:21
			52.9 FT // 00:03:02
	0.00	Manhole, within 8 inch: NO, Remarks: 2303-0191	
	0.00	Vermin Cockroach, within 8 inch: NO	M 1
	6.00	Water Level, 5 %, within 8 inch: NO	
	35.00	Tap Break-in Active, at 10 o'clock, 6", within 8 inch: NO	
	52.90	Water Level, 10 %, within 8 inch: NO	
	81.20	Tap Break-in Active, at 10 o'clock, 6", within 8 inch: NO	
	84.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	91.20	Hole Soil Visible, at 12 o'clock, within 8 inch: NO	S 5
	112.40	Tap Break-in Active, at 10 o'clock, 6", within 8 inch: NO	
	117.50	Joint Offset Medium, within 8 inch: YES	S 1
	123.00	Joint Offset Large, within 8 inch: YES	S 2
	124.80	Abandoned Survey, within 8 inch: NO, Remarks: UNABLE TO PASS OFFSET JOI	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	1100	8	1	9	2.67	1	2.25



Inspection report

Date: 20101001	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 935	PSR: 92367
Total Pipe Length: 190.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/30/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: CALLE BECERRA	Flow Control: Not Controlled	Start MH: 2347-0078
City: WAL	Year Renewed:	End MH: 2347-0081
Location Code: Light Highway	Tape/Media #: G312-006	pipe length: 190.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0078/2347-0081/2347	Lining Method:
	Category:

Remark::

1:425	position	observation	grade
	2347		
	2347-0078	Manhole, within 8 inch: NO, Remarks: 2347-0078	0 FT // 00:00:39 0 FT // 00:01:26 0 FT // 00:01:26 0 FT // 00:02:17 0 FT // 00:02:17
	0.00		
	0.00	Deposits Attached Encrustation, from 7 to 5 o'clock, 10 %, within 8 inch: YES	M 2
	0.00	Crack Multiple, from 7 to 9 o'clock, within 8 inch: NO	S 3
	5.00	Water Level, 10 %, within 8 inch: NO	
	12.20	Water Mark, 15 %, within 8 inch: NO	
	44.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	124.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	127.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	139.10	Broken, from 3 to 8 o'clock, within 8 inch: YES	S 5
	139.10	Deposits Attached Encrustation, from 4 to 9 o'clock, 10 %, within 8 inch: YES	M 2
	2347-0081	Manhole, within 8 inch: NO, Remarks: 2347-0081	
	190.10		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2200	8	4	12	4	2	3



Inspection report

Date: 20101007	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1044	PSR: 92384
Total Pipe Length: 344.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/06/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 2347-0094
City: WAL	Year Renewed:	End MH: 2347-0095
Location Code: Easement/Right of Way	Tape/Media #: G312-010	pipe length: 348.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0094/2347-0095/2347	Lining Method:
	Category:

Remark::

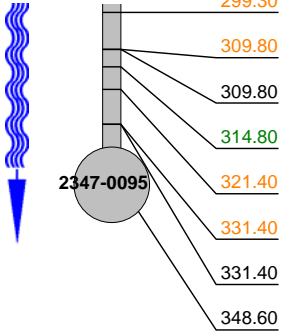
1:660	position	observation	grade
	2347		
			0 FT // 00:00:40 0 FT // 00:00:48 1.7 FT // 00:01:21 1.7 FT // 00:01:21 1.7 FT // 00:01:39
	2347-0094	Manhole, within 8 inch: NO, Remarks: 2347-0094	
	0.00	Water Level, 15 %, within 8 inch: NO	
	0.00		
	1.70	Broken, from 10 to 2 o'clock, within 8 inch: YES	S 5
	1.70	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	1.70	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	M 1
	15.70	Water Level Sag, 40 %, within 8 inch: NO, Start	S 3
	23.20	Water Level Sag, 40 %, within 8 inch: NO, End	S 3
	23.20	Water Level, 15 %, within 8 inch: NO	
	59.60	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	
	69.30	Water Level Sag, 35 %, within 8 inch: NO, Start	S 3
	114.80	Water Level Sag, 35 %, within 8 inch: NO, End	S 3
	114.80	Water Level, 15 %, within 8 inch: NO	
	151.90	Water Level Sag, 40 %, within 8 inch: NO, Start	S 3
	163.50	Water Level Sag, 40 %, within 8 inch: NO, End	S 3
	163.50	Water Level, 15 %, within 8 inch: NO	
	170.70	Water Level Sag, 30 %, within 8 inch: NO, Start	S 2
	175.40	Water Level Sag, 30 %, within 8 inch: NO, End	S 2
	175.40	Water Level, 15 %, within 8 inch: NO	
	202.20	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	
	257.60	Deposits Attached Encrustation, from 3 to 5 o'clock, 5 %, within 8 inch: YES	M 2



Inspection report

Date: 20101007	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1044	PSR: 92384
Total Pipe Length: 344.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/06/2010	Pre-Cleaned: Jetting	Map Grid #:

1:660	position	observation	grade
	299.30	S5 Water Level Sag, 40 %, within 8 inch: NO, Start	S 3
	309.80	F5 Water Level Sag, 40 %, within 8 inch: NO, End	S 3
	309.80	Water Level, 15 %, within 8 inch: NO	
	314.80	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1
	321.40	S6 Water Level Sag, 35 %, within 8 inch: NO, Start	S 3
	331.40	F6 Water Level Sag, 35 %, within 8 inch: NO, End	S 3
	331.40	Water Level, 15 %, within 8 inch: NO	
	348.60	Manhole, within 8 inch: NO, Remarks: 2347-0095	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	3C22	75	68	143	3	2.83	2.92



Inspection report

Date: 20101001	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 936	PSR: 92372
Total Pipe Length: 124.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/30/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: AVENIDA ALIPAZ	Flow Control: Not Controlled	Start MH: 2347-0084
City: WAL	Year Renewed:	End MH: 2347-0082
Location Code: Light Highway	Tape/Media #: G312-006	pipe length: 61.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0082/2347-0084/2347	Lining Method:
	Category:

Remark::

1:150	position	observation	grade
	2347		
	2347-0084	0.00	0 FT // 00:00:33
	0.00 S1	Manhole, within 8 inch: NO, Remarks: 2347-0084	0 FT // 00:00:46
		Water Level Sag, 35 %, within 8 inch: NO, Start	0 FT // 00:00:46
			61.6 FT // 00:03:08
			61.6 FT // 00:03:24
	61.60 F1	Water Level Sag, 35 %, within 8 inch: NO, End	S 3
	61.60	Roots Fine Barrel, from 7 to 8 o'clock, within 8 inch: NO	M 2
	61.60	Broken, from 7 to 6 o'clock, within 8 inch: NO	S 5
	61.60	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4
	61.60	Deformed, 10 %, within 8 inch: NO	S 4
	61.60	Abandoned Survey, within 8 inch: NO, Remarks: COMPLETES INSPECTION OF E	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5142	3B21	58	47	105	3.22	2.94	3.09



Inspection report

Date: 20100929	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Martin Garcia	section number: 314	PSR: 92922
Total Pipe Length: 323.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 09/28/2010	Pre-Cleaned: Heavy Cleaning	Map Grid #:

Street: PINTO CR	Flow Control: Not Controlled	Start MH: 2346-0122
City: WAL	Year Renewed	End MH: 2346-0121
Location Code: Light Highway	Tape/Media #: M317-023	pipe length: 317.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Reinforced Plastic Pipe (Truss Pipe) Pipe Length:
Drain. Area: 0122/2346-0121/2346	Lining Method:
	Category:

Remark::

1:725	position	observation	grade
	2346		
	2346-0122		
	0.00	Manhole, within 8 inch: NO, Remarks: 2346-0122	0 FT // 00:00:22
	2.20	Water Level, 5 %, within 8 inch: NO	2.2 FT // 00:00:36
	54.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	54 FT // 00:02:41
	61.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	61.8 FT // 00:03:12
	99.70	Water Level, 10 %, within 8 inch: NO	99.7 FT // 00:04:44
	112.70	Water Level, 15 %, within 8 inch: NO	
	123.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	133.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	192.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	197.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	250.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	
	253.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	
	302.60	Broken Void Visible, from 10 to 2 o'clock, within 8 inch: NO	S 5
	304.50	Broken Void Visible, from 10 to 2 o'clock, within 8 inch: NO	S 5
	2346-0121		
	317.60	Manhole, within 8 inch: NO, Remarks: 2346-0121	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	0000	10	0	10	5	0	5



Inspection report

Date: 20101004	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 944	PSR: 92379
Total Pipe Length: 214.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/01/2010	Pre-Cleaned: Jetting	Map Grid #:

Street: CALLE LASUEN	Flow Control: Not Controlled	Start MH: 2347-0090
City: WAL	Year Renewed	End MH: 2347-0091
Location Code: Light Highway	Tape/Media #: G312-007	pipe length: 252.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0090/2347-0091/2347	Lining Method:
	Category:

Remark::

1:528	position	observation	grade
	2347		
			0 FT // 00:00:20
			5 FT // 00:01:44
			31.2 FT // 00:02:49
			31.2 FT // 00:02:49
			31.2 FT // 00:03:02
	2347-0090	Manhole, within 8 inch: NO, Remarks: 2347-0090	
	0.00		
	5.00	Water Level, 10 %, within 8 inch: NO	
	31.20	Broken, from 6 to 10 o'clock, within 8 inch: YES	S 5
	31.20	Crack Longitudinal, at 6 o'clock, within 8 inch: YES	S 2
	53.90	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	64.80	Deposits Attached Encrustation, from 7 to 10 o'clock, 5 %, within 8 inch: YES	M 2
	71.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	84.60 S1	Water Level Sag, 25 %, within 8 inch: NO, Start	S 2
	108.60	Joint Offset Medium, within 8 inch: YES	S 1
	109.20	Joint Offset Large, within 8 inch: YES	S 2
	109.20	Deposits Attached Encrustation, from 3 to 9 o'clock, 10 %, within 8 inch: YES	M 2
	120.40 F1	Water Level Sag, 25 %, within 8 inch: NO, End	S 2
	120.40	Water Level, 15 %, within 8 inch: NO	
	131.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	132.90	Water Mark, 10 %, within 8 inch: NO	
	139.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	
	150.40	General Observation, within 8 inch: NO, Remarks: joint length 5'	
	178.00 S2	Deposits Attached Encrustation, from 8 to 4 o'clock, 5 %, within 8 inch: NO, Start	M 2
	183.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	216.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	



Inspection report

Date: 20101004	P.O.#: Y0TV0910C	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 944	PSR: 92379
Total Pipe Length: 214.00	Survey Customer: LACDPW	System Owner: WAL	Clean Date: 10/01/2010	Pre-Cleaned: Jetting	Map Grid #:

1:528	position	observation	grade
	240.10	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	
	251.40	Infil Weeper, from 2 to 5 o'clock, within 8 inch: YES	M 2
	251.40	Deposits Attached Encrustation, from 2 to 5 o'clock, 15 %, within 8 inch: YES	M 3
	251.40 F2	Deposits Attached Encrustation, from 8 to 4 o'clock, 5 %, within 8 inch: NO, End	M 2
	252.00	Deposits Attached Encrustation, from 7 to 11 o'clock, 25 %, within 8 inch: YES	M 4
	252.30	Abandoned Survey, within 8 inch: NO, Remarks: completes inspection of e	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
512A	4131	28	67	95	2.15	2.09	2.11